

AQUOS R3

Model: SH-R10

User Manual

Introduction

Thank you for purchasing "SH-R10".

Be sure to read this manual before and during use to ensure proper operation.

About the Manuals

Quick Start Guide (Basic package)

This guide describes part names and notes on usage.

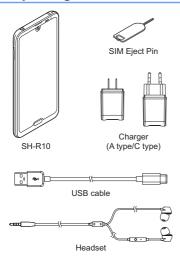
User Manual (This document)

This manual describes detailed guidance and operations of functions.

* The contents are subject to change without prior notice.

- Note that "SH-R10" is referred to as "handset" in this manual.
- This manual contains the information available at the time of purchase.
- You can update the system running on this handset to the latest version (P.160 "System update").
- For the software version you are currently running on your handset FP P.137 "About phone"
- This manual refers to microSD Card, microSDHC Card or microSDXC Card as "microSD Card" or "microSD".
- The contents of this manual and the URL of the website are subject to change without prior notice.
- The screens and illustrations in this manual are shown as examples. The actual screens and illustrations may differ.
- Reproduction of this manual in part or in whole without prior permission is prohibited.

Basic package



- Quick Start Guide
- Warranty Card

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Using the handset

- The handset supports LTE, W-CDMA, GSM/GPRS and wireless LAN systems.
- Because the handset relies on radio signals, it cannot be used in a place with no signal (such as tunnels, underground or in buildings), in places with a weak signal or outside the service area of mobile network. You may not use the handset in the upper floors of a building even with no obstructions in sight. There may also be times when the signal is strong and [] [indicating signal status) is displayed, and you are not moving but the call is interrupted.
- Because the handset uses radio waves, it is possible for a third party to listen in on a conversation. However, since the LTE, W-CDMA and GSM/GPRS systems automatically apply a private call feature to every call, a third party that tries to listen in only hears noise.
- The handset converts conversations into a digital signal and sends it to the other party over the radio. If the signal cannot be reconverted properly by such as moving to an area with a weak signal, the voice may not be heard correctly.
- Take notes of data stored on the handset or save the information to external memory devices such as microSD Cards and PCs periodically. SHARP shall not be liable for any loss of content due to a failure, repair, model change or other handling of the handset.

- As with PCs, some user-installed apps, user-accessed websites, etc. may disrupt the stability of your handset performance or unexpectedly transmit information via the Internet causing improper use of your location information, personal information stored on the handset, etc. Therefore, verify the supplier and operating conditions of the apps, websites, etc. to be used before using them.
- The handset automatically performs communication for some functions, for example, to synchronize data, check the latest software version or maintain connection with the server. Also, making a communication with large-volume data such as downloading apps or watching videos will lead to higher packet communication charges. We recommend you consult with your network operator.
- Even while the Wi-Fi connection is set, packet communication charges may be incurred depending on the app and service you use.
- When the available space on the microSD Card or the handset is insufficient, apps in use may not work properly. In this case, delete saved data.
- Secure the security of the handset by setting the password of Screen lock in case you lose it.
- If your handset is lost, change your password for each service account and disable authentication using a PC to prevent other persons from using Google services such as Gmail and Google Play™, SNS, etc.
- For using services and apps provided by a third party including Google LLC, check the terms of service of Google or the respective providers, etc. SHARP shall not be liable for any failure caused by related services and apps.

- If the terms of service, etc. is displayed, follow the instructions on the screen and operate.
- Apps and their service contents are subject to change without prior notice.
- The display is manufactured using high-precision technology, but it may contain dots that fail to light or that remain permanently lit on some areas. This is a characteristic of display and not a malfunction.
- Note that SHARP shall not guarantee operation of commercially available peripheral devices.

Precautions (ALWAYS FOLLOW THESE DIRECTIONS)

- Before use, read these "Precautions" carefully and use your handset properly.
- These precautions contain information intended to prevent bodily injury to the user and to surrounding people, as well as damage to property, and must be observed at all times.
- The following symbols indicate the different degrees of injury or damage that may occur if information provided is not observed and the handset is used improperly.

<u> </u>	This symbol indicates that "death or serious bodily injury (*1) may directly and immediately result from improper use".	
<u> </u>	This symbol indicates that "death or serious bodily injury (*1) may result from improper use".	
<u>^</u> Caution	This symbol indicates that "minor injury (*2) and/or property damage (*3) may result from improper use".	

- *1 Serious bodily injury: This refers to loss of eyesight, bodily injury, burns (high- and low-temperature), electric shock, broken bones, injuries with residual aftereffects from poisoning, etc., and injuries requiring hospital admission for treatment or long-term hospital attendance as an outpatient.
- *2 Minor injury: This refers to bodily injury, burns (high- and low-temperature), electric shock, etc. that do not require hospital admission for treatment or long-term hospital attendance as an outpatient.
- *3 Property damage: This refers to extended damage to buildings, furniture, livestock, pets, etc.

■ The following symbols indicate specific directions.

0	
V	
Don't	

Indicates a prohibited action.



Indicates not to handle the device with wet hands.



Indicates not to disassemble the



Indicates that instructions specified are compulsory (must be followed).



Indicates not to use the device near water or get it wet.



Indicates that the power cord must be unplugged from the outlet.

Handling the handset, charger, wireless charger, USB cable, nanoSIM Card and headset (general)

ADanger



Do not use, store or leave the equipment in locations subject to high temperatures or accumulation of heat (near a fire or heating unit, in a kotatsu or bedding, under direct sunlight, inside a vehicle on a hot day, etc.).

May cause fires, burns, bodily injury, electric shock, etc.



Do not place the equipment inside cooking appliances such as microwave ovens and induction cookers or high pressure vessels such as pressure cookers, or near them.

May cause fires, burns, bodily injury, electric shock, etc.



Do not sprinkle sand, soil or dirt on the equipment or put the equipment directly on it. Also, do not touch the equipment when sand, etc. is adhering to your hand.

May cause fires, burns, bodily injury, electric shock, etc. Refer to the following for details on waterproofness/dustproofness.

P.25 "Waterproof/Dustproof"



Do not charge the equipment while it is wet with liquids such as water (drinking water, sweat, seawater, pet urine, etc.).

Also, do not charge the equipment in a location where it will come into contact with water such as a bathroom, etc.

May cause fires, burns, bodily injury, electric shock, etc. Refer to the following for details on waterproofness. P.25 "Waterproof/Dustproof"



Do not press the equipment strongly or broken it. Especially when carrying the equipment in your pocket, do not allow it to be hit with or nipped in obiects.

May cause fires, burns, bodily injury, etc. because of damage of the internal battery.

- * Take particular care with the followings
- Sitting or squatting down while putting the equipment in your pocket of trousers or skirt
- Allow the equipment to be nipped in the door or vehicular door while putting the equipment in your pocket of outerwear
- Stepping on the equipment while it is placed on a soft object such as the sofa or bedding, floor



Do not attempt to remove the internal battery from the handset.

May cause fires, burns, bodily injury, electric shock, etc.



Do not attempt to remove the back cover from the handset.

May cause fires, burns, bodily injury, electric shock, etc.



Do not attempt to disassemble or modify the equipment.

No disassembly May cause fires, burns, bodily injury, electric shock, etc.



No liquids

Do not get the equipment wet with liquids such as water (drinking water, sweat, seawater, pet urine, etc.).

May cause fires, burns, bodily injury, electric shock, etc. Refer to the following for details on waterproofness. P.25 "Waterproof/Dustproof"



Do not allow liquids such as water (drinking water, sweat, seawater, pet urine, etc.) to get inside the charger terminal or external connection jack.

May cause fires, burns, bodily injury, electric shock, etc. Refer to the following for details on waterproofness. P.25 "Waterproof/Dustproof"



Make sure to use the charger and USB cable that are provided with this handset.

May cause fires, burns, bodily injury, electric shock, etc. if you use a device other than one provided with this handset.

Marning



Do not subject the equipment to strong force, impacts or vibration such as letting it fall, stepping on it or throwing it.

May cause fires, burns, bodily injury, electric shock, etc.



Do not allow conductive materials (such as metal objects and pencil lead) to come into contact with the charger terminal or external connection jack or dust to get inside it.

May cause fires, burns, bodily injury, electric shock, etc.



Do not cover or wrap the equipment with bedding, etc. when using or charging.

May cause fires, burns, etc.



Do not affix metal objects (such as stickers made of material containing metal) to the wireless charger or handset.

May cause fires, burns, bodily injury, etc.



Do not place metal objects (such as a strap or clip made of material containing metal) between the wireless charger and handset.

May cause fires, burns, bodily injury, etc.



Remove any cover or other item attached to the handset before charging with the wireless charger.

Instruction The material or thickness of the cover and dirt or other foreign matter between the handset and cover may prevent normal charging and cause fires, burns, bodily injury, etc.



Turn off the handset near high-precision electronic devices or devices that use weak electronic signals.

May interfere with the operation of electronic devices because of signals.

* Take particular care with the following devices Hearing aids, implanted cardiac pacemakers, implanted cardioverter-defibrillators, other electronic medical equipment, other equipment controlled by electronic signals, etc. If you use an implanted cardiac pacemaker, implanted cardioverter-defibrillator or other electronic medical equipment, contact the respective manufacturer or dealer to check whether the operation of the equipment is affected by signals.



If charging is not completed after the specified charging time, stop charging.

ruction May cause fires, burns, bodily injury, etc. because of overcharging.



Be sure to turn off the handset and not to charge the battery in locations where flammable gas may be generated and where dust is generated.

The flammable gas, etc. could ignite, causing a fire, explosion, etc.



Follow the instructions given by the respective facility regarding use of the handset in a gas station

Do not perform charging in a gas station, etc.

Also, take care not to drop the handset when using it in a gas station, etc. In particular, do not use the handset when refilling a vehicle with gas.

The flammable gas, etc. could ignite, causing a fire, explosion, etc.



If any trouble such as an unusual odor, unusual noise, smoking, overheating, discoloration or deformation is found during use, charge or storage, follow the instructions below.

- Unplug the power plug from the outlet.
- Turn off the handset.

May cause fires, burns, bodily injury, electric shock, etc. if you do not follow the instructions above.

↑Caution



Do not use a damaged equipment.

May cause fires, burns, bodily injury, etc.



Do not leave the equipment on unstable surfaces, such as on a wobbly table or sloped surface. Be very careful while the vibrator is set.

May fall and cause injury, etc.



Do not use or store the equipment in locations that are subject to humidity, dust or high temperatures.

on't May cause fires, burns, electric shock, etc.

Refer to the following for details on waterproofness/dustproofness.

P.25 "Waterproof/Dustproof"



If being used by a child, have a guardian teach him/ her the proper handling procedures and do not have him/her use it improperly.

May cause bodily injury, etc.



Do not place the equipment where the young children can reach it.

Be especially careful with regard to the storage location of small parts such as the nanoSIM/ microSD Tray and SIM Eject Pin.

A young child may swallow the equipment, or suffer bodily injury, electric shock, etc.



Be careful when using the handset continuously or when charging because it may become warm. Also, be careful not to unintentionally touch it continuously when it is in a pocket of your clothing, or when you fall asleep, etc.

The handset, charger, wireless charger or USB cable may become warm when using an app, a call, data communication, watching video, etc. for a long time or charging. Directly touching a warmed part for a long time may cause redness, itching, rashes, low-temperature burns, etc. on your skin depending on your constitution or health condition.

Handling the handset

∕•\Danger



Do not throw the handset into a fire or heat it. May cause fires, burns, bodily injury, etc.



Do not apply excessive force on the handset such as puncturing it with a sharp object (nail, etc.), hitting it with a hard object (hammer, etc.) or stepping on it.

May cause fires, burns, bodily injury, etc.



If the substance inside the handset comes into contact with your eyes or mouth, etc. immediately rinse the contacted area with clean water. Then seek prompt medical treatment.

May result in loss of eyesight, sick, etc. because of the substance, etc. inside the handset.

/ Warning



Do not point the illuminated light directly at someone's eyes. Especially when you use it for young children, keep sufficient distance from them.

Do not use mobile light near people's faces. Eyesight may be temporarily affected leading to accidents, etc.



Do not illuminate or emit the mobile light at anyone driving a car or other vehicles.

May prevent a driver from driving safely and cause a traffic accident etc.



Do not watch the screen which is flashing repeatedly for a long time.

May cause spasm or loss of consciousness.



Do not allow water or other liquids (drinking water, sweat, seawater, pet urine, etc.), metal (a blade of cutter, staple, etc.), flammable material or other foreign object to enter the nanoSIM/microSD Tray slot on the handset.

Also, do not insert the nanoSIM Card or microSD Card in the wrong place or wrong side. May cause fires, burns, bodily injury, electric shock, etc.

Do not expose the camera lens to direct sunlight, etc. for an extended period.

May cause fires, burns, bodily injury, etc. because of the light-collecting mechanism of the lens.



Turn off the handset or set it to Airplane mode before going aboard an airplane.

Since using the handset on airplanes is restricted, follow the instructions given by the respective airlines.

May interfere with the operation of electronic devices installed on the airplane because of signals.

If you commit a prohibited act while using the handset on an airplane, you may be punished by law.



Follow the instructions given by the respective medical facility regarding the use of the handset in a hospital.

Turn off the handset in areas where the use of mobile phones is prohibited.

May interfere with the operation of electronic devices and electronic medical equipment because of signals.



Keep the handset away from the ears during a call in which hands-free is set, while the ringtone is ringing loudly, during stand-by, etc.

When you attach the headset, etc. to the handset to play games, video/music, etc., do not make the volume too loud.

During a call in which hands-free is set, loud sounds are being emitted from the handset.

Even during stand-by, the ringtone or alarm sound may activate suddenly.

Hearing loud sounds for a long time may damage your hearing such as difficulty in hearing.

Also, excessively high volume prevent you from hearing ambient sounds and cause an accident.



If you have a weak heart, take extra precautions when setting functions such as the vibrator and ringtone volume for incoming calls.

You may be startled at the sudden vibrator and ringing for incoming calls, and may have harmful effects on your heart.



If you are using electronic medical equipment, etc., contact the respective manufacturer or dealer to check whether the operation of the equipment is affected by signals.

May interfere with the operation of electronic medical equipment, etc. because of signals.



If the display part, back part or camera lens is damaged, be careful of broken glass and the on exposed inside of the handset.

May cause burns, bodily injury, electric shock, etc. if you touch the broken or exposed parts.



If the substance inside the internal battery leaks, or the internal battery emits an unusual odor, immediately stop using the handset and move it

away from any naked flames or fire.The battery fluid is flammable and could ignite, causing a

The battery fluid is flammable and could ignite, causing fire, explosion, etc.



Do not allow a pet, etc. to bite the handset. May cause fires, burns, bodily injury, etc. because of

uction damage of the internal battery.

⚠Caution



For using a motion sensor and geomagnetic sensor, check the safety around, hold the handset and do not swing it more than necessary.

May cause an accident such as bodily injury.



If the display is broken and the internal substance then leaks, do not get it on your skin (face, hands, etc.), clothes, etc.

May result in damage to your eyes, skin, etc.

If the internal substance comes into contact with your eyes, mouth, skin or clothes, etc. immediately rinse the contacted area with clean water.

Also, if it comes into contact with your eyes or mouth, etc. seek medical treatment immediately after rinsing the contacted area.



Do not dispose of the handset in ordinary garbage. May cause fires, burns, bodily injury, etc. It may also cause

damage to the environment. For the unnecessary handset, contact the support phone number listed on the Warranty Card or follow the instructions by a local institution that handles used handsets.



If the substance inside the internal battery leaks, do not get the liquid on your skin (face, hands, etc.), clothes, etc.

May result in damage to your eyes, skin, etc.

If the internal substance comes into contact with your eyes, mouth, skin or clothes, etc. immediately rinse the contacted area with clean water.

Also, if it comes into contact with your eyes or mouth, etc. seek medical treatment immediately after rinsing the contacted area.



Instruction

When removing the nanoSIM Card, be careful with the tip of the SIM Eject Pin or paper clip not to injure any part of your body such as fingers.

May cause bodily injury, etc. if you touch the tip of the SIM Eject Pin or paper clip.



If you use the handset in a vehicle, contact the vehicle manufacturer or dealer to check whether the operation of the vehicle is affected by signals.

May interfere with the operation of electronic equipment because of signals in some vehicle models. In this case, stop using the handset.



If any trouble on your skin occurs due to using the handset, immediately stop using it and seek medical treatment.

Use of the handset may cause itching, rashes, eczema, etc. depending on your constitution or health condition. Refer to the following for details on materials of each part.

P 16 **Material list



Make sure that there is no metal (a blade of cutter, staple, etc.) on the handset because the earpiece/ speaker section, speaker section and standard rear camera section contain parts that generate magnetic waves.

May cause bodily injury, etc. because of the adhered object.



Look at the display in a well-lit place, keeping a certain distance.

Instruction

On Eyesight may be weakened, etc. if you look at it in a dark place or closely.

Handling the charger, wireless charger and **USB** cable

∴ Warning



Do not use if the cord of the USB cable is damaged. May cause fires, burns, electric shock, etc.



Do not touch the charger or USB cable if you hear thunder.

May cause electric shock, etc.



Do not short-circuit the charger terminal when connected to an outlet. Also, do not allow any part of your body (hands, fingers, etc.) to come into contact with the charger terminal.

May cause fires, burns, electric shock, etc.



Do not place heavy objects on the cord of the USB cable or apply excessive force on it such as pulling it.

May cause fires, burns, electric shock, etc.



When plugging/unplugging the charger into/from the outlet, do not allow metallic objects to come into contact with the prongs of the plug. May cause fires, burns, electric shock, etc.



Do not connect the voltage converter for overseas travel (travel converter) to the charger.

May catch fire, or cause overheat, electric shock, etc.



Do not apply excessive force on the connection part with the USB cable connected to the handset.

May cause fires, burns, bodily injury, electric shock, etc.



Do not charge the handset with the wireless charger while it is wet with liquids such as water (drinking water, sweat, seawater, pet urine, etc.). Mav cause fires, burns, bodily injury, electric shock, etc.



Do not handle the charger or USB cable with wet hands.

No wet hands

May cause fires, burns, electric shock, etc.



Always use the specified power supply and voltage. Using the incorrect power supply and voltage may cause fires, burns, electric shock, etc.

Charger: 100 to 240V AC (Connect only with a household AC outlet)



Wipe off any dust on the power plug. May cause fires, burns, electric shock, etc. if you use the

power plug with dust adhering.



Fully plug the charger into the outlet. May cause fires, burns, electric shock, etc. if you do not

Instruction insert it securely.



Always grasp the charger when unplugging the power plug from the outlet. Do not apply excessive force on it such as pulling the USB cable.

May cause fires, burns, electric shock, etc. since the USB cable is damaged by pulling it.



If you have electronic medical equipment such as an implanted cardiac pacemaker or an implanted cardioverter-defibrillator, consult with your doctor about using the wireless charger.

Electromagnetic signals may have harmful effects on the operation of the electronic medical equipment.



When plugging/unplugging the USB cable into/from the handset, plug/unplug it straightly toward the terminal to connect, not applying excessive force on it such as pulling the cord.

May cause fires, burns, bodily injury, electric shock, etc. if you do not plug/unplug it correctly.



If the charger terminal is deformed such as bending it, immediately stop using. Also, do not use the deformed one by returning it to the original shape.

May cause fires, burns, bodily injury, electric shock, etc. because of short circuit of it.



Unplug the charger from the outlet when not using. May cause fires, burns, electric shock, etc. if you leave the power plug with it plugged into the outlet.



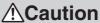
If water or other liquids (drinking water, sweat, seawater, pet urine, etc.) are attached on equipment, immediately remove the charger from the outlet.

May cause fires, burns, electric shock, etc. because of short circuit by the adhered object.



Always unplug the charger from the outlet before cleaning the equipment.

May cause fires, burns, electric shock, etc. if you do not unplug it.





Do not touch the charger or USB cable continuously when connected to an outlet. May cause burns, etc.

Handling nanoSIM Card

⚠Caution



Be careful with the cutting surface not to injure any part of your body such as fingers when handling the nanoSIM Card.

May cause bodily injury, etc. because the cutting surface may be sharp.

Handling the headset

Marning



If any trouble such as an unusual odor, unusual noise, smoking, overheating, discoloration or deformation is found during use, charge or storage, follow the instructions below.

Unplug the headset from the handset.
 May cause fires, burns, bodily injury, electric shock, etc. if vou do not follow the instructions above.



When unplugging a headset from the handset, always grasp the plug and do not apply excessive force during actions such as directly grasping the cord and pulling on it.

May cause fires, burns, electric shock, etc. since the cord is damaged by pulling it.



Do not touch the headset if you hear thunder. May cause electric shock, etc.



Do not place heavy objects on the headset or apply excessive force on it such as pulling it.

May cause fires, burns, electric shock, etc.



When plugging/unplugging a headset into/from the handset, do not allow metallic objects to come into contact with it.

May cause fires, burns, electric shock, etc.



Do not touch a headset with your hands wet. May cause fires, burns, electric shock, etc.

No wet hands



The headset is not waterproof or dustproof.
Do not use or store the equipment in locations that are subject to humidity, dust or high temperatures.
May cause fires, burns, electric shock, etc.

Handling near electronic medical equipment

Marning



If you have electronic medical equipment such as an implanted cardiac pacemaker or an implanted cardioverter-defibrillator, always carry or use your handset at least 15 cm away from your implant. Electromagnetic signals may have harmful effects on the operation of the electronic medical equipment.



Patients receiving medical treatment away from a medical facility (e.g. home treatment) who are using electronic medical equipment other than implanted cardiac pacemakers or implanted cardioverter-defibrillators should consult the respective manufacturers, etc. for information regarding the effects of signals on the equipment. Electromagnetic signals may have harmful effects on the operation of the electronic medical equipment.



If there is any chance that the distance between the handset and a person closest to you may get shorter than 15 cm such as when you cannot freely

move around, set the handset not to emit radio wave in advance (by setting Airplane mode, turning the power off, etc.).

Somebody nearby may be equipped with electronic medical equipment such as an implanted cardiac pacemaker or an implanted cardioverter-defibrillator. Electromagnetic signals may have harmful effects on the operation of the electronic medical equipment.



Follow the instructions given by the respective medical facilities regarding the use of the handset Instruction on their premises.

> Electromagnetic signals may have harmful effects on the operation of the electronic medical equipment.

Material list

Handset

Part	Material	Surface treatment
Display side (Glass section)	Reinforced glass	PVD processing, AF coating
Display side (Protective film section)	PET resin	AF coating, Hard coating
Back	Reinforced glass	PVD processing, AF coating
Exterior (Metal section)	Aluminum	Anodizing

Part	Material	Surface
		treatment
Exterior (Resin section)	PBT resin	None
	(With glass)	
Power Key, Volume Up/Down	Aluminum	Anodizing
key, Google Assistant Key		
Fingerprint Sensor	Epoxy resin	Hard coating
Decoration of fingerprint	Stainless	PVD processing
sensor		
Camera panel	Reinforced	AF coating, AR
·	glass	coating
Decoration of camera (Upper	Aluminum	Anodizing
part, lower part)		
Earpiece/Speaker (Resin	PC resin	None
section)		
Surrounding area of 3.5mm	PBT resin	None
earphone jack (inner side	(With glass)	
surface)		
Surrounding area of USB	PBT resin	None
Type-C [™] Connector (inner	(With glass)	
side surface)		
nanoSIM/microSD Tray	Aluminum	Anodizing
(Exterior section)		
nanoSIM/microSD Tray	POM resin	None
Hinge of nanoSIM/microSD	Silicon rubber	None
Tray		
nanoSIM/microSD Tray	Stainless	None
reinforcement plate		

Part	Material	Surface treatment
IMEI plate	PET resin	PET resin
		laminate

Charger (A type/C type)

Part	Material	Surface treatment
Power plug	Brass	Nickel plating
Exterior	PC resin	None
USB connector pin (Metal section)	SPCC	Nickel plating
USB connector pin (Resin section)	LCP resin	None

USB cable

Part	Material	Surface treatment
USB plug (Exterior section)	TPE resin	None
USB plug (Metal section)	SPCC	Nickel plating
USB plug (Resin section)	PBT resin	None
Cord	TPE resin	None
Type-C plug (Exterior section)	TPE resin	None
Type-C plug (Metal section)	Stainless steel	Nickel plating
Type-C plug (Resin section)	LCP resin	None

Headset

Part	Material	Surface treatment
Earphone (Exterior section)	ABS resin	None
Earphone (Side surface)	TPE resin	NCVM
Earpiece	Silica gel	None
Microphone section	ABS resin	None
Cord	TPE resin	None
Plug (Exterior section)	TPE resin	None
Plug (Metal section)	Brass	Gold plating
Plug (Resin section)	POM resin	None
,		, ,

SIM Eject Pin

Part	Material	Surface treatment
Body	Stainless	None

Handling the SIM Eject Pin

Marning



The tip of the SIM Eject Pin is sharp. Do not use it pointing at yourself or others.

May cause bodily injury, loss of eyesight, etc.

Handling precautions

General notes

listed on the Warranty Card.

- SH-R10 is waterproof/dustproof, however, do not allow liquid such as water (drinking water, sweat, seawater, pet urine, etc.) and foreign object such as dust to get inside the handset and do not allow them to adhere to accessories. The charger, USB cable, nanoSIM Card and headset are not waterproof/dustproof. Do not use in humid or steamy areas such as bathrooms and places exposing to rain and other forms of moisture. If they are carried close to the skin, perspiration may cause internal components to corrode and result in malfunction. If a problem is found to be due to moisture, the handset and parts are not covered by warranty. For details on repair, contact the support phone number
- Clean only with a soft and dry cloth (such as the type used for eyeglasses).
 - · Forceful rubbing of the display may scratch its surface.
 - Water drops, dirt, etc. left on the display may cause stains to form on its surface.
 - Never use chemicals such as alcohol, thinners, benzene or detergents, as these agents may erase the printing or cause discoloration.
- Occasionally clean terminals, the fingerprint, etc. and always keep it.
 - When using unclean terminals, etc., the handset may not work properly. Be careful not to damage to terminals, etc. while cleaning them.
- Do not place the equipment near an air conditioning vent.
 Condensation formed due to rapid changes in temperature may cause internal corrosion and lead to a malfunction.

- Do not apply excessive force on the handset when using it.
 Carrying the equipment in a tightly packed bag or sitting on it put in your pocket may cause a malfunction or damage of the display, internal components, internal battery, etc.
 - Keeping an external connector device plugged into the external connection jack may cause a malfunction or damage.
- Do not drop or otherwise subject the equipment to severe impact.
 - May cause a malfunction or damage.
- Malfunctions deemed to be caused by inappropriate handling by the customer are not covered by the warranty.

Notes about the handset

- Do not forcefully press the display or operate with a pointed object.
 - May scratch it and cause malfunction or damage.
- Avoid using the handset in extremely high or low temperatures.
 - Use the handset within the range of a temperature between 5° C and 35° C and a humidity between 45% and 85%.

 Refer to the following for details on using it at a bathroom.
 - Refer to the following for details on using it at a bathroom.

 PSP.25 "What you can do with waterproof/dustproof of SH-R10"
- Using the handset close to household electronic equipment (TVs, radios, etc.) may have harmful effects on the operation of such equipment. Move as far away as possible from such items before use.
- Back up to the microSD Card, PC, cloud, etc. or keep a separate memo of data stored on the handset.
 SHARP shall not be liable for any loss of content.

 When connecting an external connector device to the external connection jack, do not put it in obliquely and do not pull it while it is plugged in.

May cause a malfunction or damage.

- The handset may become warm during use or charging but this is not a malfunction. You can keep using it.
- Do not leave the camera lens in direct sunlight.
 May cause discoloration or burn-in of pixels.
- Use the handset with the nanoSIM/microSD Tray closed.
 Liquid such as water (drinking water, sweat, seawater, pet urine, etc.)
 or foreign object such as dust may get inside and cause a malfunction.
- Do not give a strong impact on the fingerprint sensor or scratch the surface.

May cause not only malfunction of the fingerprint sensor but also disabling authentication.

- While using a microSD Card, do not remove the card or turn off the handset.
 - May cause data loss or a malfunction.
- Never place a magnetic card or magnetized items near the handset.

The data stored in cash cards, credit cards, transport system IC cards, etc. may be erased.

Putting highly magnetized items closer may cause an error.

• Do not decorate the handset with films, stickers, etc.

Normal operation may not be possible. For example, each of the functions that uses the proximity sensor may not work or charging with the wireless charger may not be possible.

Refer to the following for details on the position of the proximity sensor.

P.32 "Part names and functions"

 The internal battery is not covered by warranty because it is a consumable product.

Depending on usage, the internal battery may swell as it approaches the end of its usable life.

Change the battery if its life becomes extremely shorter or the it swells even after fully charged. For details on replacing the internal battery, contact the support phone number listed on the Warranty Card.

- Charge battery in areas where ambient temperature is between 5° C and 35° C.
- The battery life depends on the usage and deterioration of the battery.
- Do not store the handset under the following situations because they may lower the performance or shorten the usable life of the internal battery.
 - Storage with the internal battery fully charged (immediately after charging is completed)
 - Storage with no battery level (cannot turn the handset on)
 Approximately 40% is recommended as the proper battery level for storage.
- The following is the type of the internal battery built into the handset.

Label	Battery type
Li-ion00	Lithium-ion

 The surface of the handset uses the aluminum material.
 Note that dent and abrasion are easily remained as aluminum is a soft material.

Notes about the charger, wireless charger and USB cable

- Use the charger and USB cable provided with this handset for charging.
- Charge the battery in areas where the ambient temperature is between 5° C and 35° C.
- Do not charge the internal battery in the following locations.
 - Areas with high humidity or dust, or in areas exposed to frequent vibrations
 - Close to household electronic equipment (TVs, radios, etc.)
- The charger or USB cable may become warm during charging but this is not a malfunction. You can keep using it.
- When using an outlet with a feature to prevent the plug from being removed accidentally, follow the instructions in the outlet user's guide.
- Do not subject to strong impacts. Also, do not deform the charger terminals.
- May cause a malfunction.
- Do not use the wireless charger while it is covered with a blanket, etc.
- Do not use the wireless charger with other than the specified equipment or dedicated AC adapter.
- Do not place the handset on the wireless charger while the USB cable is connected to it.
- Never place a magnetic card or magnetized items near the wireless charger.

The data stored in cash cards, credit cards, transport system IC cards, etc. may be erased.

Putting highly magnetized items closer may cause an error.

Notes about nanoSIM Card

- Do not apply unnecessary force when inserting/removing the nanoSIM Card.
- Customer is responsible for malfunctions arising from inserting nanoSIM Card into a different IC card reader/writer, etc.
- Occasionally clean IC area and always keep it.
 When using the nanoSIM Card while IC area is not clean, it may not work properly.
- Clean only with a soft and dry cloth (such as the type used for eyeglasses).
- Back up to the microSD Card, PC, cloud, etc. or keep a separate memo of data stored on the nanoSIM Card.
 SHARP shall not be liable for any loss of content.
- Do not damage, touch haphazardly or short-circuit the IC.
 May cause data loss or a malfunction.
- Do not drop or otherwise subject the nanoSIM Card to severe impact.
 - May cause a malfunction.
- Never bend the nanoSIM Card or place heavy objects on it.
 May cause a malfunction.
- Do not insert the nanoSIM Card to the handset with a label, sticker, etc. attached on the card.
 May cause a malfunction.

Notes on using Bluetooth function

- The handset supports the security function that meets the Bluetooth specification for security during communication using Bluetooth functions. However, the security may not be sufficient depending on the configuration, etc. Take care of the security while making communication using Bluetooth function.
- Even if any leak of data or information occurs while making communication using Bluetooth function, SHARP shall not be liable for any loss of content.
- Cautions on using Bluetooth devices

Bluetooth operates at radio frequencies assigned to the in-house radio stations for a mobile object identifier that have to be licensed and are used in production lines of a factory, specific unlicensed low power radio stations, and amateur radio stations (hereafter, referred to as "another radio station") in addition to industrial, scientific and medical devices or home electric appliances such as microwave ovens.

- Before using the handset, make sure that "another radio station" is not operating nearby.
- If radio interference between the handset and "another radio station" occurs, avoid interference by moving immediately to another place or "turning off the power".
- Contact the support phone number listed on the Warranty Card for further details.

Label markings

In the home screen, display "app list screen" ▶ [Settings] ▶ [System] ▶ [Advanced] ▶ [Authentication] to confirm the radio frequencies the Bluetooth function of the handset uses. The label markings are as follows.



- 1 2.4: This radio equipment uses the 2,400 MHz band.
- ② FH: The modulation system is the FH-SS system.
- 3 XX: Another modulation system is used.
- 4 8: The estimated coverage distance is 80 m or less.
- (5) : All radio frequencies between 2,400 MHz and 2,483.5 MHz are used and the frequencies for mobile object identifiers cannot be avoided.

Notes about wireless LAN (WLAN)

- Wireless LAN (WLAN) uses radio waves to communicate information. Therefore, it has an advantage of freely connecting to the LAN within the service area. On the other hand, if security setting is not set, it is possible for a malicious third party to intercept the communication contents or hack. It is recommended to set security setting at your own risk and judgement.
- Even if any leak of data and information occurs while making communication using wireless LAN function, SHARP shall not be liable for any loss of content.

Wireless LAN

Do not use wireless LAN near magnetic devices such as electric appliances or AV/OA devices or in radio wayes.

- Magnetism or radio waves may increase noises or disable communications (especially when using a microwave oven).
- When used near TV, radio, etc., reception interference may occur or channels on the TV screen may be disturbed.
- If there are multiple wireless LAN access points nearby and the same channel is used, search may not work correctly.

Cautions on using 2.4 GHz devices

WLAN-installed devices operate at radio frequencies assigned to the in-house radio stations for a mobile object identifier (radio stations requiring a license) used in production lines of a factory, specific low power radio stations (radio stations requiring no license), and amateur radio stations (radio stations requiring a license) in addition to industrial, scientific and medical devices or home electric appliances such as microwave ovens.

- Before using this device, make sure that the in-house radio stations for a mobile object identifier, specific low power radio stations and amateur radio stations are not operating nearby.
- If the device causes harmful radio interference to the in-house radio stations for a mobile object identifier, immediately change the radio frequency or stop use, and contact the support phone number listed on the Warranty Card for crosstalk avoidance, etc. (e.g. partition setup).
- If the device causes radio interference to specific low power radio stations for a mobile object identifier or amateur radio stations, contact the support phone number listed on the Warranty Card for further details.

Cautions on using 5 GHz devices

In the 5 GHz frequency band, four bands of 5.2 GHz/5.3 GHz/5.6 GHz/5.8 GHz band (W52/W53/W56/W58) are available.

- W52 (5.2 GHz band/36, 40, 44, 48 ch)
- W53 (5.3 GHz band/52, 56, 60, 64 ch)
- W56 (5.6 GHz band/100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140, 144 ch)
- W58 (5.8 GHz band/149, 153, 157, 161, 165 ch)

Available bands and channels vary depending on the country. The available bands and channels that can be used outdoor vary depending on the country. Please confirm the regulations and other conditions of the country you live in and your region.

Label markings

In the home screen, display "app list screen" ▶ [Settings] ▶ [System] ▶ [Advanced] ▶ [Authentication] to confirm the radio frequencies the wireless LAN function of the handset uses. The label markings are as follows.



- 1) 2.4: This radio equipment uses the 2,400 MHz band.
- ② DS: The modulation system is the DS-SS system.
- ③ OF: The modulation system is the OFDM system.
- 4: The estimated coverage distance is 40 m or less.
- S and 2,483.5 MHz are used and the frequencies for mobile object identifiers can be avoided.

Available channels for the handset's wireless LAN are between 1 and 13. Note that other channel access points cannot be connected. Available channels may vary depending on the country. For use in an aircraft, contact the airline beforehand.

Voluntary control for radio wave interference

 This product satisfies technical requirements set by the government and its satisfied mark is displayed on the electronic nameplate of the product.

You can see the electronic nameplate by operating the product as follows.

In the home screen, display "app list screen" ▶ [Settings] ▶ [System] ▶ [Advanced] ▶ [Authentication]

NFC reader/writer

- The NFC reader/writer and P2P function of the handset use weak radio waves whose handling does not require a license of radio station.
- The frequency in use is the 13.56 MHz band. When another NFC reader/writer or P2P function is being used nearby, keep enough distance from it.
 - Make sure that there is no radio station using the same frequency band in the nearby area.
- For use in an aircraft, contact the airline beforehand. Use of the function may be restricted in some countries.
 Check conditions such as regulations of the country/region to use the function.

Notes about the SIM Eject Pin

- Do not insert the SIM Eject Pin into a hole, etc. other than the nanoSIM/microSD Tray eject one.
 May cause a malfunction or damage.
- Do not apply excessive force on the SIM Eject Pin when using it.

May cause a malfunction or damage.

- When discarding, segregate it according to the local rules.
- Use the SIM Eject Pin only for the intended purpose in this manual.

May cause a malfunction or damage.

Do not use the SIM Eject Pin for other mobile phones.
 May cause malfunction or damage of other mobile phones.

Caution

 Never use the handset that is modified. Using a modified device violates the Radio Law and/or the

Telecommunications Business Law.

The handset follows the regulations regarding the certification of conformity with technical regulations for specific radio stations, etc. based on the Radio Law and authentication of conformity with technical regulations for devices, etc. based on the Telecommunications Business Law, and the "Technical Conformity Mark (2)" can be displayed on the electronic nameplate of the handset as a proof. You can see it by operating as follows. In the home screen, display "app list screen" ▶ [Settings] ▶ [System] ▶ [Advanced] ▶ [Authentication]

If the screws of the handset are removed and a modification is given to the inside, the certification of conformity with technical regulations, etc. will become invalid. Never use the handset without the valid certification, etc. Doing so violates the Radio Law and/or the Telecommunications Business Law.

 Be careful when using the handset while driving a motor vehicle.

Using the handset in hand while driving is regarded as a punishable act

However, the punishment has no application in some cases such as when rescuing sick and injured people or maintaining public safety.

Never change the basic software improperly.

This may be regarded as a conversion of software and repairs may be refused

Replacing the built-in battery

The internal battery is a consumable product. As charging and discharging cycles repeat, the battery deteriorates and the usage time may become considerably shorter.

Deterioration of the built-in battery varies depending on the usage status and operation environment. If the usage time has become considerably shorter even after being fully charged, it is time to replace the built-in battery with a new one.

The handset's built-in battery cannot be replaced by customers themselves. Contact the support phone number listed on the Warranty Card and request replacement of the built-in battery (for a fee).

Recycling

The lithium-ion battery used in this handset is a valuable resource that can be recycled. We appreciate your cooperation for recycling.

For questions about recycling, contact the support phone number listed on the Warranty Card.



Li-ion00

When disposing of the handset

- Please follow the disposal rules of each local government. The rules may differ depending on the local government; confirm with the government office where you live.
- In order to protect your privacy, before disposal, perform "Erase all data (factory reset)" to delete all data in the system memory (FF P.139 "Reset options").

Waterproof/Dustproof

SH-R10 is waterproof to IPX5^{*1} and IPX8^{*2} standards, and dustproof to IP6X^{*3} standard if the nanoSIM/microSD Tray is securely closed.

- *1 IPX5 means that the communication device keeps functioning after being subjected to a jet flow (12.5 L/min) discharged from a nozzle (inner diameter: 6.3 mm), from all directions (approximately 3 m from the handset) for 3 minutes or more.
- *2 IPX8 means that the communication device keeps functioning after the mobile phone is slowly submerged to depth of 1.5 m in static tap water at room temperature, left there for approximately 30 minutes and then taken out.
- *3 IP6X means the level of dust protection. Mobile phone has the ability to prevent dust from entering inside after it is left in the device containing dust (diameter: 75 m or smaller) for 8 hours, agitated and then taken out.

What you can do with waterproof/dustproof of SH-R10

- You can call without using an umbrella in the rain (for rainfall of approximately 20 mm per hour).
- You can rinse dirt off from the handset. Wash the handset with low-pressure water flow (6 L/min or lower and tap water at room temperature (between 5° C and 35° C)), holding it approximately 10 cm below faucet or shower head. Wash by using only your hands, not a brush or sponge, with the nanoSIM/microSD Tray held in position. Drain the handset before use (ISF P.30 "Draining water when the handset gets wet").

- You can use the handset at a poolside. Do not throw water in a swimming pool on the handset or soak the handset in the water of a swimming pool.
- You can use the handset in a bathroom.
 - Do not let the handset get wet with liquids other than water at room temperature (hot spring water or water containing soap, detergent or bath powder) or do not soak the handset in a hathfulb.
 - May cause a malfunction. If the handset gets wet with liquids other than water at room temperature or you fall the handset into the bathtub, immediately rinse it in the specific procedure.
 - Use the handset within 2 hours in a bathroom where the range of a temperature is between 5° C and 40° C and a humidity is 99% or less.
 - All function's continuous operations are not completely guaranteed.
 - If the handset gets wet, be sure to drain water and dry naturally in the specific procedure (PSP P.30 "Draining water when the handset gets wet").
 - Also, drain water after using the handset in a bathroom or when condensation occurs inside the camera lens.
 - The rapid changes of temperature may cause condensation.
 Wait until the handset reaches room temperature before you bring it from a cold place into a warm place such as a bathroom.
 Also, do not splash cold water on the warmed handset in a
 - May cause a malfunction.

hathroom

- · Never charge the battery in a bathroom.
- The signal does not reach and a call or data communication may not be available depending on the structure and conditions of the hathroom.
- When you operate the handset with wet hands, it may not respond or inadvertent operations may occur.

 Do not use the handset connected to the headset or external connector device in a bathroom.

Things to keep in mind

To maintain waterproof/dustproof performance, check the followings.

- Securely close the nanoSIM/microSD Tray. Be careful not to apply excessive force on the rubber gasket when opening and closing.
- Make sure that the nanoSIM/microSD Tray is completely closed without floating.
- To maintain waterproof/dustproof performance, the handset has the nanoSIM/microSD Tray that allows you to close securely.
 Note that opening it forcibly may cause injuries to your nails, fingers, etc.
 - To maintain waterproof/dustproof performance, replacement of parts is recommended every 2 years regardless of whether the handset appears normal or abnormal. SHARP replaces the parts as a chargeable service. For replacement of parts, contact the support phone number listed on the Warranty Card.

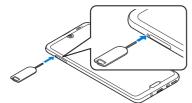
Inserting and removing the nanoSIM/microSD Tray

- Before inserting/removing the tray, make sure to turn off the power. Hold the handset securely with your hand.
- Insert/remove the tray with the display side of the handset turned up.
- The included SIM Eject Pin is required to remove the tray.

When removing

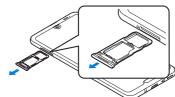
Insert the tip of SIM Eject Pin into the nanoSIM/ microSD Tray eject hole

 Insert it horizontally until the card tray comes out. If you do not insert it horizontally, may cause damage or malfunction.



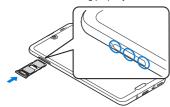
2 Pull out the nanoSIM/microSD Tray from the handset

- Pull out the card tray slowly and horizontally.
 Pulling out it forcefully or obliquely may cause damage.
- When pulling them out, take care that the card does not come out of the card tray and get lost.



When inserting

- Insert the nanoSIM/microSD Tray all the way to the handset straight and horizontally with the display side turned up
 - Push the A areas securely and make sure there is no space between the handset and the card tray.
 - Insert the card tray slowly.
 - Do not insert the card tray the other way around. If you do so, may cause damage.
 - Inserting the card tray not deeply enough may cause impairment of the waterproof/dustproof property or prevent the handset from functioning properly.



If the SIM Eject Pin is lost, a paper clip can be used as a substitute for it.



Precautions

- When your hands are wet or water/foreign object adheres to the handset, do not open/close the nanoSIM/microSD Tray.
- Close the nanoSIM/microSD Tray securely. Even a fine obstacle (one hair, one grain of sand, tiny fiber, etc.) put between contact surfaces may allow liquids or dust to get inside.
- If the handset gets wet with water or other liquids with the nanoSIM/microSD Tray opened, the liquid may get inside causing electric shocks or malfunction. Stop using the handset, turn off the power and contact the support phone number listed on the Warranty Card.
- The rubber gasket of the contact surface between the main body and nanoSIM/microSD Tray plays an important role in maintaining waterproof/dustproof performance. Do not remove or scratch it. Also, prevent dust from adhering to it. If the rubber gasket is damaged or deformed, contact the support phone number listed on the Warranty Card.
- Do not insert a pointed object through the nanoSIM/microSD
 Tray gaps. It may cause damage to the rubber gasket and allow liquids or dust to get inside.

- Do not use the handset underwater (including key operations).
 May cause a malfunction.
- Do not directly apply water flow stronger than allowed (over 6 L/min). May cause malfunction though SH-R10 provides waterproof performance of IPX5.
- Do not let the handset get wet with liquids other than water at room temperature (between 5° C and 35° C) or do not soak the handset in the liquids. If you let the handset get wet with liquids other than water at room temperature or soak the handset in the liquids, stop using the handset and wash it with water at room temperature.
- Do not wash the handset in a washing machine, etc.
- To prevent condensation, wait until the handset reaches room temperature before you bring it from a cold place to a warm place.
- Never soak the handset in hot spring water or water containing soap, detergent or bath powder.
- Do not soak the handset in hot water, use it in a sauna or apply hot air (from a hair dryer, etc.) to it.
- Do not soak the handset in seawater.
- Do not put the handset directly on sand/dirt.
- If foreign object such as salt water, seawater, drink, seasoning, food, dirt or soil adheres to the handset, rinse it off immediately.
 If it becomes dry and hard, it is difficult to remove it and may cause damage or malfunction.
- Do not leave the handset wet. In cold places, water may freeze and cause malfunction.
- The handset does not float on water.
- Do not let the handset fall. It may become scratched and cause the waterproof/dustproof performance to degrade.

- Do not leave water on the mouthpiece/microphone, earpiece/ speaker, speaker or 3.5mm earphone jack. Such water may interfere with talking.
- Do not poke the mouthpiece/microphone, earpiece/speaker, speaker, USB Type-C Connector, 3.5mm earphone jack, etc. with a pointed object.
- Do not insert the headset to the handset while the handset is wet.
 May cause a malfunction.
- The supplied charger, USB cable and headset are not waterproof/dustproof. Do not use them in rooms where water is regularly in use such as bathroom, shower room, kitchen or lavatory.







Soap/Detergent/ Seawater Swimming pool Bath powder





Hot spring

Sand/Dirt

SHARP does not guarantee actual operations under all states.
 Malfunctions deemed to be caused by inappropriate operation by the customer are not covered by the warranty.

Draining water when the handset gets wet

When the handset is wet, water may flow out after wiping it off. Drain the water by following the steps below.

Wipe off water on the handset surface with dry and clean cloth, etc.

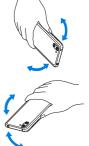


2 Shake the handset approximately 20 times, securely holding it, until there is no more water splattering









To drain water off, shake the handset with the earpiece/speaker turned down

- 3 Softly press the handset against dry and clean cloth, etc. to wipe off water remaining in the grooves of the mouthpiece/microphone, earpiece/speaker, speaker, keys, USB Type-C Connector, 3.5mm earphone jack, air vent (decoration of camera), etc.
 - Pat the opening with cloth, etc. to remove water because there may be any water remaining in the grooves of each part.



- 4 Wipe off water oozing from the handset with dry and clean cloth, etc. and dry naturally for approximately 3 hours
 - Water, if any, remaining in the main body may ooze after wiping off.
 - Pat the opening with cloth, etc. again to remove water because you may not be able to hear sounds well if drainage is insufficient.

Charging

The supplied charger and USB cable are not waterproof/ dustproof. Check the followings before and after charging.

Make sure that there is no water or foreign object on the handset.
 If foreign object adheres to the handset, immediately rinse it off.
 Also, if the handset is wet or after the handset is wet, adequately drain it and wipe off water with dry and clean cloth, etc. then dry naturally before charging.

Warning

Never try to connect the Type-C plug when the handset is wet or foreign object adheres to the handset.

- The supplied charger and USB cable do not provide waterproof/dustproof performance though the handset provides them. Inserting the Type-C plug while the equipment is wet or dirty may cause short circuit when you charge the battery and lead to abnormal overheat, malfunction, fires or burns due to water, foreign object, etc. adhering to the handset or Type-C plug.
- Do not touch the charger and USB cable with your hands wet.
 May cause electric shock.
- Do not use the charger and USB cable in a place subject to water. Do not use it in rooms where water is regularly in use such as bathroom, shower room, kitchen or lavatory. May cause fires or electric shock.

Before Using the Handset

Part names and functions



nanoSIM/microSD Tray

- It is possible to insert two nanoSIM Cards or one nanoSIM Card and one microSD Card in the nanoSIM/microSD Tray.
- For details on nanoSIM Card ® P.36 "nanoSIM Card"
- For details on microSD Card ® P.38 "microSD Card"

2 Front Camera

For details on using camera
 P.86 "Camera"

Earpiece or Earpiece/Speaker

4 Proximity sensor/Brightness sensor*1

 Detects the approaching of your face to prevent inadvertent operation during a call and used for automatically controlling the brightness of the screen.

5 Incoming/Charging Lamp

 For details on incoming/charging lamp P.53 "Incoming/ Charging Lamp"

6 (+)/(-): Volume Up/Down key

 Use to adjust each volume, shoot with the camera, set manner mode, etc.

2 : Power Key

- Used to turn the power on/off and turn the screen on/off.
 Pressing it for at least 2 seconds displays a menu to allow you to operate [Power off], [Restart], and [Screenshot].
- For details, see the following sections.
 - For details on turning the power on/off SP P.43 "Turning power on/off"
 - For details on shooting a screenshot P.47 "Shooting screenshot"

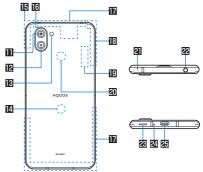
8 (): Google Assistant Key

- The key is meant to trigger the Google Assistant™.

Display/Touch panel

 For details on operation of the touch panel P.44 "Operation of touch panel"

- Use to unlock the touch panel, etc. by fingerprint authentication.
- For details on using fingerprint sensor P.131 "Fingerprint authentication"



III Video rear camera (Dramatic wide camera)

- A wide camera for video shooting.
 Set the angle switch to [wee] to use it while shooting videos.
- For details on using camera P.86 "Camera"

12 Standard rear camera

- A standard camera for shooting still pictures/videos.
- Set the angle switch to [[570]] to use it while shooting videos.
- For details on using camera P.86 "Camera"

Mobile Light

14 Wireless charge position

 When performing wireless charging, align the charger with this position.

丽Wi-Fi/Bluetooth antenna*2

If Air vent (decoration of camera)

A mobile light with an air vent to maintain performance.

17 Internal antenna*2

E GPS/Internal antenna*2

Wi-Fi antenna*2

20 NFC antenna

21 Microphone

- Use when recording videos.
- Used to reduce noise when using Clear talk.
- Use as a mouthpiece during a hands-free call.

22 3.5mm Earphone Jack

28 Speaker

- Ringtone, music, etc. can be heard from here.
- The other party's voice can be heard from here during a hands-free call.

24 Mouthpiece/Microphone

• Use as a microphone when recording videos.

☑ USB Type-C Connector

- Use to charge the handset, etc.
- USB Power Delivery charging is supported.
- For details on connection to an external device P.40 "Charging", P.148 "Connecting to PC and other device", P.150 "USB host function"
- *1 Do not affix a sticker, etc. to the sensor area.
- *2 Built into the main body. Covering the antenna area with your hand may influence the communication quality.

- The back cover cannot be removed. Removing it forcibly may cause damage or a malfunction.
- The battery is built into the handset and you cannot replace it by yourself.

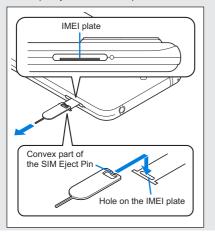
IMEI plate

 A plate with the sticker which the IMEI number (International Mobile Equipment Identifier), CE mark, etc. are printed is stowed near the nanoSIM/microSD Tray slot. The IMEI number is required when contacting the support phone number listed on the Warranty Card. Do not pull out the plate or remove the sticker

For details on precautions about handling the IMEI plate (model nameplate), refer to "After-Sales Services" (FF P.159).

Pulling out the IMEI plate

- With the display facing down, hook the convex part of the SIM Eject Pin, which is included as an accessory, to the hole on the IMEI plate. and pull the IMEI plate.
 - * Do not completely remove the IMEI plate.



- To pull out the IMEI plate, use the SIM Eject Pin, which is included as an accessory.
 If another tool is used, it could cause damage the handset or cause the handset to fail
- Note that pulling out the IMEI plate forcibly or adding forces on it may damage to the plate.
- If you accidentally pull out the IMEI plate, slowly return the IMEI plate while taking care not to insert it too deep.
- You can check the IMEI by operating the handset.
 In the home screen, display "app list screen" ► [Settings] ►
 [System] ► [About phone] ► [IMEI]

Volume Up/Down key

 If you press ①(+)/①(-) to display the volume bar, the manner mode selection items are displayed ([Manner OFF]/[Vibe]/ [Mute]). Touching the key repeatedly allows you to display the item you wish to set and set manner mode.

Earpiece/Speaker

This handset combines the earpiece and speaker. When you
convert to a hands-free talking, end a call, etc., sound gradually
increases to the set volume to prevent a loud sound from the
speaker at your ear.

Mobile Light

 The mobile light may be automatically turned off if you use the handset for a long time or the handset becomes warm after the mobile light is turned on. Also, you may not be able to use the mobile light if the handset is warm.

Microphone

 When using functions which support the microphone, do not cover the hole of the microphone.

Headset

 Depending on the type of a headset (commercially available), it may not be available.

Turning power off forcibly

 You can turn the power off forcibly by pressing ①(Power key) for at least 8 seconds. Release your finger after the vibrator is activated to turn the power off. Note that data, contents you have set, etc. may be deleted since the power is turned off forcibly.

SIM Eject Pin

It is used to insert/remove a nanoSIM Card and microSD Card. For details on using the SIM Eject Pin P.27 "Inserting and removing the nanoSIM/microSD Tray"

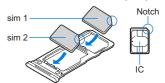
nanoSIM Card

A nanoSIM Card is an IC card that records personal information, such as your phone number.

 A nanoSIM Card has a security code called PIN code (FF P.51 "PIN code").

Inserting nanoSIM Card

- For details on how to insert and remove the nanoSIM/microSD Tray, refer to "Inserting and removing the nanoSIM/microSD Tray" (FSP P.27).
- If you do not insert a microSD Card, you can insert two nanoSIM Cards.
- 1 Remove the nanoSIM/microSD Tray from the handset
- 2 Put the nanoSIM Card into the nanoSIM/ microSD Tray with the IC side turned down
 - Check the direction of corner cut.
 - Check the direction of the nanoSIM Card and put it securely.
 - Not to let the nanoSIM Card lift up from the card tray. If the nanoSIM Card does not fit the card tray, may cause a fault.



3 Turn the display side up and then insert the nanoSIM/microSD Tray into the handset

- Removing nanoSIM Card
- For details on how to insert and remove the nanoSIM/microSD Tray, refer to "Inserting and removing the nanoSIM/microSD Tray" (FS P.27).
- 1 Remove the nanoSIM/microSD Tray
- 2 Remove the nanoSIM Card from the nanoSIM/ microSD Tray



3 Turn the display side up and then insert the nanoSIM/microSD Tray into the handset

- Do not insert the nanoSIM Card or microSD Card into the handset directly.
- After putting the card into the card tray, insert the whole tray into the handset.
- Do not allow the nanoSIM Card or nanoSIM/microSD Tray to fall when removing them.
- When pulling out the nanoSIM/microSD Tray with the display side turned down or the handset stood upright, the nanoSIM Card being attached with the card tray is off and may cause loss.
- When handling the nanoSIM Card, make sure not to touch or damage the IC area. Also, note that inserting or removing the nanoSIM Card forcibly may damage it or deform the nanoSIM/ microSD Tray.
- Refer to the nanoSIM Card user's guide for more information on the nanoSIM Card.
- Do not misplace the nanoSIM Card once it is removed.

microSD Card

You can save data on the handset to microSD Card or import data on microSD Card to the handset.

- SH-R10 is compatible with commercially available microSD Card
 of up to 2 GB, microSDHC Card of up to 32 GB and microSDXC
 Card of up to 512 GB.
- Do not turn off the handset immediately after inserting the microSD Card in the handset (while writing information needed for the handset operation) or while editing data on the microSD Card. Data may be damaged or the handset may not work properly.
- Format unformatted microSD Cards on the handset before use (ISF P.126 "Formatting microSD Card/USB memory"). microSD Cards formatted by PCs or other devices may not be used properly on the handset.
- Data saved on the microSD Cards from other devices may not be displayed or played on the handset. Some data saved on the microSD Card from the handset may not be displayed or played on other devices.
- microSDXC Card can be used only on the devices compatible with SDXC. If you insert a microSDXC Card to devices not compatible with SDXC, data saved on the microSDXC Card may be damaged, etc., so do not insert it.
- For using a microSDXC Card with its data damaged again, formatting the microSDXC Card by devices compatible with SDXC is required (all the data will be deleted).

- For copying data to/from among devices not compatible with SDXC, use a card which conforms to the standard of the devices you copy the data to/from such as microSDHC Card or microSD Card.
- Back up the data saved on a microSD Card and store in another place. SHARP shall not be liable for any loss or change of the saved data.

Inserting microSD Card

- For details on how to insert and remove the nanoSIM/microSD Tray, refer to "Inserting and removing the nanoSIM/microSD Tray" (FF P.27).
- If you insert only one nanoSIM Card, you can insert a microSD Card.
- 1 Remove the nanoSIM/microSD Tray
- 2 Put the microSD Card into the nanoSIM/ microSD Tray with the metal terminal side turned down
 - Check the direction of the microSD Card and put it securely.
 - Not to let the microSD Card lift up from the card tray.
 If the microSD Card does not fit the card tray, may cause a fault.



3 Turn the display side up and then insert the nanoSIM/microSD Tray into the handset

Removing microSD Card

- For details on how to insert and remove the nanoSIM/microSD Tray, refer to "Inserting and removing the nanoSIM/microSD Tray" (ISF P.27).
- 1 Remove the nanoSIM/microSD Tray
- 2 Remove the microSD Card from the nanoSIM/ microSD Tray



3 Turn the display side up and then insert the nanoSIM/microSD Tray into the handset

Charging

The internal battery is not fully charged at the time of purchase. Be sure to charge the battery before use.

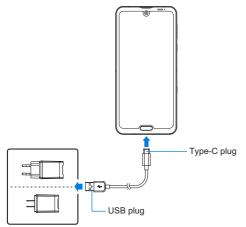
Cautions while charging

- For details on the estimated charge time and battery life when fully charged P. 161 "Main specifications"
- The battery can also be charged with the handset turned on (While charging, the battery icon appears with [**] superimposed).
- Do not charge for a long time with the power left turned on. If the handset is left turned on after charging is complete, the internal battery charge level decreases.
 - In this case, the charger or wireless charger (commercially available) charges the battery again. However, depending on the time when the handset is disconnected from the charger or wireless charger, the battery charge level may be low or the battery may only be usable for a short time.
- If the handset is left for a long time even after the charging is completed, the battery level may decrease.
- When the battery is empty and the handset is being charged, the charging lamp may not illuminate immediately. However, charging is in progress.
- If the battery empty alert is displayed and the power cannot be turned on, charge the battery for a while.
- While charging, the handset may not be turned on even when the charging lamp is illuminated in red. Charge longer and try turning the power on again.

- Frequently recharging the battery when its power is still
 remaining enough may shorten the usable life of the internal
 battery. It is recommended to use the battery to a certain level
 (e.g. after the battery level decreases) before recharging.
- When the battery becomes warm, charging may automatically stop even if the battery has not been fully charged. Charging automatically resumes after the temperature lowers to an appropriate temperature. However, with some wireless chargers, charging may not automatically resume even if the temperature lowers during the charging process. After the temperature of the handset lowers, remove the handset from the wireless charger and then start the process again.

Charging with charger

- Insert the Type-C plug of a USB cable
 horizontally into the USB Type-C Connector on
 the handset
- 2 Insert the USB plug of USB cable horizontally into the USB connector pin on the charger



3 Insert the charger into an outlet

- The charging lamp illuminates and charging starts.
- Even when the battery is fully charged, the charging lamp does not turn off.
- 4 When charging completes, disconnect the charger from the outlet, and horizontally disconnect the USB plug of the USB cable from the USB connector of the charger
- 5 Disconnect the Type-C plug of USB cable horizontally from the USB Type-C Connector

Charging with wireless charger

When charging the battery with Wireless Charger (commercially available), refer to the instruction manual supplied with the product.

Cautions while wirelessly charging

- Align the wireless charge position of the handset with the position on the wireless charger when charging. For details on the wireless charge position FF P.32 "Part names and functions"
- If a cover (commercially available), etc. is attached to the handset, remove it before charging.
- Set the handset to not vibrate during charging in the settings, etc. If the handset moves due to vibration, charging may not complete or the handset may fall.
- If noise from a TV or radio can be heard during charging, charge the handset in a location far away from the TV or radio.
- If there is another wireless charging compatible device nearby, move the wireless charger at least 30 cm away from it. Charging may not be possible due to the handset not being detected properly.
- The reception state of calls and data communications signals may be poor during charging.
- Take care that a foreign object containing metal does not get between the handset and wireless charger. The foreign object may generate heat.

- Take care that an IC card, etc. is not placed between the handset and wireless charger. The IC card may malfunction.
- If the camera is used during charging, the images may be affected by noise.
- The charging speed may be reduced and charging may be stopped to prevent the temperature of the handset from rising depending on the operation state of the handset.

Charging with USB cable

You can charge the handset by connecting the handset to a PC with USB cable, etc.

 For details on connecting to a PC or other device P.148 "Connecting to PC and other device"

Turning power on/off

- Turning power on
- 1 (Power key) (for at least 3 seconds)
- Turning power off
- 1 (Power key) (for at least 2 seconds)
- 2 [Power off]
- Turning display on/off

The display is turned off when [](Power key) is pressed or the handset is not in use for a set length of time.

Press $\[]$ (Power key) while the display is turned off to turn it on.

Touch panel lock

When the power or the display is turned on, the touch panel is locked.

Swipe [] up to unlock.

When [Lock Photo Shuffle] is ON, the image for the lock screen
of the touch panel is automatically switched every time the
display is turned on (
P.119 "Display").



Operations in touch panel lock screen

- Start voice search: Swipe [♣] right
- Start camera: Swipe [] left
- To display the detailed information on notifications: Drag the screen down
- To display the status panel: Drag the status bar down
- The notifications are displayed in the lock screen of the touch panel. For details on displaying of notifications P.116
 "Notifications on the lock screen"

Basic operation

The followings describe basic operations of the handset such as operations of the touch panel and navigation bar, and operations for shooting screenshot.

Operation of touch panel

The operations to use the display (touch panel) are described below.

 Operations may differ depending on the function and screen in use.

Cautions when using the touch panel

- The touch panel is designed to be lightly touched with your finger. Do not forcefully press with your finger or a pointed object (fingernail, ballpoint pen, pin, etc.).
- In the following cases, the touch panel may not work even if you touch it. May cause a malfunction.
 - Operation with a gloved finger*
 - Operation with the tip of a fingernail
 - Operation with foreign object placed on the operation pad
 - Operation on the touch panel on which a protective sheet, sticker, etc. is put
 - Operation while the touch panel is wet
 - Operation with fingers wet with sweat, water, etc.
 - Operation under water
 - * When [glove mode] is set to ON, you can operate the touch panel with a glove on (FF P.119 "Display").

Operations may be interrupted if you touch an area other than a confirmation screen or the status bar while the confirmation screen, etc. is displayed.

Touch

Touch a key or an item displayed on the screen and then release your finger from it to select or set it.



Touch and hold

When you keep your finger on the touch panel, a menu may appear depending on the function and screen in use.

Slide (Swipe)/Drag

Move your finger while keeping it on the touch panel to scroll the screen or move an icon, a widget, etc. to the desired position. In addition, when you touch a menu or an item by mistake, move your finger away from it to cancel the selection.



Flick

Move your finger like sweeping the touch panel in the home screen, etc. to switch pages.



Pinch out/Pinch in

You may be able to zoom the screen in/out, etc. by putting two fingers on the touch panel and moving them with putting a distance between two fingers apart (pinch out)/closer (pinch in) depending on the function and screen in use.



Operation while using function

Navigation bar

Use the keys displayed on the navigation bar at the bottom of the screen to perform the basic operations.



■ / E : Back key/Close key

- Return to the previous screen.
- · Close the keyboard.

2 : Home key

Display the home screen.

Using user-aid function

You can quickly activate an app supporting the user-aid function.

1 Touch and hold [□]

- To set an activating app: In the home screen, display "app list screen" ▶ [Settings] ▶ [Apps & notifications] ▶ [Advanced]
 ▶ [Default apps] ▶ [Assist & voice input] ▶ [Assist app] ▶ select an app
 - [Advanced] may not be displayed depending on the usage state.

Retrieving menu

When you touch the menu key such as $[\ \ \ \ \ \ \]$ $[\ \ \ \ \ \ \]$, swipe the left edge of the screen to the right or touch and hold the screen, functions (menus) available in that screen appear.

Example: Calculator screen



Switching the settings

When a check box, etc. is displayed beside the setting item, you can set it enabled/disabled or ON/OFF by touching it.

Example: "Do not disturb" mode settings screen, Date & time settings screen

[✓]: Enabled, [☐]: Disabled



• []: ON, []: OFF



Vertical/Horizontal display

The screen display is automatically switched vertically or horizontally according to a tilt of the handset.

- Vertical/Horizontal display may not be switched even if the handset is turned depending on the screen being displayed.
- Vertical/Horizontal display is not switched if the handset is turned while it is positioned parallel to the ground.
- The screen display may not be switched properly when a sound or a vibration is being activated.
- Vertical/Horizontal display may not be switched properly right after the display or power is turned on.
- You can set the display not to automatically switch (PFP.119
 "Display"). It can also be set from the status panel (PFP.56
 "Using the status panel").
- Screens may be displayed in the full screen depending on the app when you switch from vertical display to horizontal display.

Shooting screenshot

You can shoot the screen being displayed as an image.

- Shot images are saved on the handset memory and you can check them by using Photos or other apps.
- Alternatively, you can shoot the screenshot by using Clip Now (P.124 "Clip Now").

1 (Power key) (at least 2 seconds) ▶

[Screenshot]

- Menus such as [Power off] and [Restart] are not shot.
- Also hold ①(Power key) + ①(─) down for at least 1 second to shoot the screen being displayed as an image.
- Data cannot be saved while displaying e-books, etc.
- Data may not be saved completely or partially depending on the app.

Searching information on the handset and websites

In the home screen, display "app list screen" ▶ [Google]

- If the confirmation screen is displayed, check the content, follow the instructions on the screen and operate.
- Quick search box appears.
- If you select [More] ▶ [Settings], you can set the search settings.

2 Touch the search box ▶ enter a keyword



■ Search box

- Enter the keyword to search with.
- When the keyword is entered, search candidates, apps or data on the handset, etc. whose names start with the entered characters are searched and displayed as a list.

2 Switch to Voice Search

3 Select a search candidate

- The search result appears.
- When an app is selected, the corresponding app is activated.
- If [IMAGES], etc. is displayed in the search results, you can search by selecting a genre.
- When you cannot see search candidates hidden behind the keyboard, touch [] to close the keyboard.

Character entry

You can enter characters using the keyboard displayed on the screen.

- Touching the character entry area displays the keyboard.
 To close the keyboard, touch [].
- This section describes how to enter characters using [Gboard].



- Each key may be changed depending on the settings and the condition.
- Character input key
 - Enters characters.

2 Shift key

- Switch between upper and lower case characters.
- 3 Number/symbol key
 - Switches to the number/symbol keyboard.
- 4 Delete key
 - Deletes characters.

5 Enter key

- Go to a new line.
- Touching and holding the key displays the one-hand mode icon. Release your finger to switch the keyboard to the one-hand mode.

6 Comma key

- Enters a comma.
- Touching and holding the key displays the settings menu icon and one-hand mode icon. Drag your finger left or right to select the icon, and then release your finger to switch to the keyboard setting or one-hand mode.

7 Pictograph key

Switches to the pictograph keyboard.

8 Space key

Enters a space.

9 Period key

- Enters a period.
- Touching and holding the key displays symbols other than the period. To enter a symbol, drag your finger to the symbol and then release your finger.

Initial settings

When you turn the power on for the first time, the initial settings screen is displayed. Follow the instructions on the screen and set.

- The following items can be set. However, items displayed after each selection may differ depending on the contents selected in each setting.
 - Language setting
 - Select a SIM for mobile data*
 - Select a SIM for calls*
 - Select a SIM for text messages*
 - Select a network
 - Copy apps & data
 - Google account settings (P.50 "Setting up Google account, etc.")
 - Google Services
 - Terminal lock
 - Google Assistant
 - Access your Assistant with Voice Match
 - Pay faster with Google Pay
 - Anything else?
 - The term of use of Sharp Corporation
 - * Displayed when two nanoSIM Cards are inserted.

Setting up Google account, etc.

- Google account has a Username/Password that allow you to use various Google services. By setting Google account on the handset, you can send and receive Email using Gmail, download contents such as apps and games using GooglePlay, etc.
- In the home screen, display "app list screen" ►
 [Settings] ► [Accounts] ► [Add account]
- 2 Select an account type
- 3 Set up an account
 - In the home screen, display "app list screen" ▶ [Settings] ▶
 [Accounts] to find the added account on the displayed menu.
- When activating the app that requires an account without setting one up, the account setup screen appears.
- · Keep a separate memo of the set account and password.
- Deleting your account
- In the home screen, display "app list screen" ► [Settings] ► [Accounts]
- 2 Select an account ▶ [REMOVE ACCOUNT] ▶ [REMOVE ACCOUNT]
 - Operation methods may differ depending on the account.

- Retrieving your Google account password If you forget your Google account password, retrieve it.
- In the home screen, display "app list screen" ▶ [Chrome]
- 2 Connect to the top page of Google ▶ [Sign in]
- 3 Enter mail address ▶ [Next] ▶ [Forgot password?] ▶ follow the instructions on the screen and operate
 - Operation methods may differ depending on the using conditions.

Security codes used on the handset

For convenient use of the handset, some functions require security codes.

 Entered security code for various functions and PIN code turn into [•].

Precautions about various security codes

- Do not use easily predictable numbers for security codes to be set such as "birthday," "part of a phone number," "address or room number," "1111" or "1234." Keep a separate memo of the security codes.
- Keep security codes private. If the security codes become known by a third party and are misused, Sharp shall not be liable for any damages incurred by the users.
- If you forget your security codes, contact the support phone number listed on the Warranty Card.

Screen lock PIN/password

A personal identification number to use [Screen lock] of the handset

■ PIN code

The PIN code is a four- to eight-digit security code that needs to be entered for recognizing the user of the handset every time a nanoSIM Card is inserted or when a device is turned on to prevent unauthorized use of the nanoSIM Card by a third party. Making/ Receiving calls and device operation are enabled by entering the PIN code.

- Use the previously set PIN code when inserting a nanoSIM Card that has been used in another device.
- If you enter wrong PIN codes three times continuously, it is locked and the nanoSIM Card becomes unavailable. In this case, unlock the PIN code with the "PIN Unlock Key" (PUK).

■ PUK (PIN Unlock Key)

PUK (PIN Unlock Key) is an eight-digit number used to disable the PIN code lock. You cannot change the code.

 If you enter wrong codes 10 times continuously, the nanoSIM Card is completely locked. In that case, contact a distributor of nanoSIM Cards.

Setting the PIN code

You can protect against unauthorized use by entering a PIN code when the power is turned on.

- In the home screen, display "app list screen" ► [Settings] ► [Security & location] ► [Advanced] ► [Set up SIM card lock]
- 2 Select a nanoSIM Card
 - If two nanoSIM Cards are inserted, touch the tab on the screen top and select the nanoSIM Card you wish to set.
- 3 [Lock SIM card]
- 4 Enter a PIN code ► [OK]
- The setting is saved on the nanoSIM Card.

Changing the PIN code

You can only change a nanoSIM Card for which [Lock SIM card] is set.

- ¶ In the home screen, display "app list screen" ► [Settings] ► [Security & location] ► [Advanced] ► [Set up SIM card lock]
- 2 Select a nanoSIM Card
 - If two nanoSIM Cards are inserted, touch the tab on the screen top and select the nanoSIM Card you wish to set.
- 3 [Change SIM PIN]
- 4 Enter the current PIN code ► [OK]
- 5 Enter a new PIN code ► [OK]
- 6 Enter the new PIN code again ►[OK]

Disabling PIN lock

- In the PIN locking screen, enter PUK (PIN Unlock Key)
- 2 Enter a new PIN code
- 3 Enter the new PIN code again

Incoming/Charging Lamp

The incoming/charging lamp notifies you that there is a missed call, the handset is being charged, etc. by illuminating or flashing.

State of lamp	Color	State of handset
Illuminating	Red	Charging in progress (Battery level
		is approx. 94% or less)
Illuminating	Green	Charging in progress (Battery level
		is approx. 95% or more)
Flashing	Red	Charging unavailable
Flashing	White	Call missed, new email received

- Depending on the app, you may be able to set for the incoming lamp.
- When the display is on, the incoming lamp which notifies you of missed calls and new mails does not flash. Check notification icons on a screen with the status bar appearing.
- Even when the battery is fully charged while charging, the charging lamp does not turn off.

Screen display/Icons

Icons displayed on the status bar at the top of the screen give you various kinds of information, such as the status of the handset or the presence of missed calls. You can check the detailed information by displaying the status panel.

Viewing icons

- Two kinds of icons are displayed.
- Notification icon: Notifies you of missed calls, new mails, etc.
- Status icon: Display the status of the handset such as the battery level or the signal status.

Notification icon Status icon

- If there are multiple icons to indicate notifications and handset statuses, [·] is displayed because they cannot be displayed within the display range. Check them by switching to horizontal display or displaying the status panel.
- Main notification icon list

: Missed call (P.70 "Call history")

F: New Message (₽ P.76 "Messages")

M: New Gmail (FF P.79 "Gmail™")

A: Error

Displayed when an error has occurred.

- Data communication disabled ((□ P.113 "Data usage")
 Displayed when data usage volume reaches to the limit.
- S: Alarm information (SP.104 "Alarm")
- 31: Schedule notification from Calendar

Call (PPP.65 "Call")

- (Naking a call/Receiving a call/Talking on the handset
- : Putting a call on hold
- 📆: microSD Card (🕼 P.125 "Storage")
- ②: Available space on the handset memory being run out ((☞ P.125 "Storage")

Bluetooth (FFP.142 "Bluetooth® function")

- ★ : Receiving registration/connection request from Bluetooth device

 | Receiving registration/connection request from Bluetooth device
 | Receiving registration/connection request from Bluetooth device
 | Receiving registration/connection request from Bluetooth device
 | Receiving registration/connection request from Bluetooth device
 | Receiving registration/connection request from Bluetooth device
 | Receiving registration/connection request from Bluetooth device
 | Receiving registration/connection request from Bluetooth device
 | Receiving registration/connection request from Bluetooth device
 | Receiving registration/connection request from Bluetooth device
 | Receiving registration request from Bluetooth request from Bl
- : Data reception request

Data transmission and reception

- 1 : Transmission
- : Reception

Application

: App update available

: Finished installing app

📆: Open network (🕼 P.111 "Wi-Fi settings")

Tethering (FFP.114 "Tethering")

- Ψ : [USB tethering] enabled
- ★: [Bluetooth tethering] enabled
- O: Multiple tethering enabled
- C元: VPN connected (ເເ⊛ P.152 "Adding VPN")

: System update available (FFP.160 "System update")

: [glove mode] enabled (P.119 "Display")

Main status icon list

(S): Alarm set (F) P.104 "Alarm")

Battery level (FFP.118 "Battery")

to :: Approx. 100 to 6%

: Approx. 5% or less

While charging, the battery icon appears with [**] superimposed.

 Percentage of the remaining battery level appears on the right side of the battery icon. Display/Hide the percentage with [Battery percentage] in Battery.

Signal strength

to *: Signal level (five steps)

: Outside the service area

 The signal mark is displayed with [] superimposed during data receiving and with [] superimposed during data sending.

- When 4G (LTE)/3G/GSM/HSPA can be used, [4G]/[3G]/[G]/[H] is displayed on the left side of the signal mark.
- While connecting to VoLTE, [Vo] is displayed.
- If two nanoSIM Cards are inserted, the signal status icons are displayed for the respective nanoSIM Card. The left side icon display is for SIM 1, and the right side is for SIM 2.
- A small [R] is displayed at the upper left of the signal mark during international roaming.

Wi-Fi signal strength (FFP.110 "Wi-Fi")

to *: Signal level (five steps)

While connecting to VoWiFi, [volume] is displayed.

: Airplane mode (P.110 "Network & internet")

(ISF P.114 "Tethering")

Manner mode indications (PSP.57 "Switching manner mode")

I∎I : Manner mode (Vibe)

🔌: Manner mode (Mute)

(EFP.57 "Advanced settings of manner mode")

During a call (PP.68 "Operation during a call")

: Talking with a hands-free call

: Mute set

Communicating via Bluetooth (
 P.142 "Bluetooth® function")

(Location) information via GPS (FF P.134 "Location")

* The signal strength icon appears with [M] superimposed like [M]/[M] while you connect to an access point which is not connected to the Internet.

Using the status panel

- Using the notification panel
- 1 Drag the status bar down
- 2 Use the notification panel
- Using the status panel
- Drag the status bar down with your two fingers at the same time
- 2 Use the status panel
- Notification/status panel layout



Notification panel screen

Status panel screen

II Function button

- Make settings for use of the manner mode, Wi-Fi function, location information, etc.
- Touching and holding the button may sometimes allow you to make advanced settings.
- In the status panel, you can switch pages by flicking the display area left or right.

2 Detailed information on notifications

- You can check the state of the handset or content of notifications.
- The following operations are available depending on the type of detailed information.
 - To activate or operate a corresponding app: Touch the detailed information or the function
 - To switch detailed display/simplified display: Slide the detailed information up/down with your two fingers at the same time or pinch out/in
 - To delete detailed information: Flick the detailed information to the left/right
 - To set app notifications: Touch and hold the detailed information ▶ follow the instructions on the screen

3 Manage notifications

Display the apps for which notifications are displays.
 Set whether to allow notifications for each app.

4 Clear all

 Delete the detailed information on notifications and notification icons. Depending on the content of detailed information on notification, it cannot be deleted.

5 Brightness adjust bar

• Drag it to adjust the brightness of the screen.

6 Indicator

 Indicates the number of display area pages for function buttons and present display position.

7 Network operator

Connected network operator is displayed.

B Hidden detailed information on notifications

- Hidden detailed information on notifications is indicated by icons.
- Icons are also displayed in the notification panel when there is more information than can fit in the display range.

9 Edit

You can rearrange, add and delete the function buttons.

III Settings

- Activate the "Settings" app.
- When receiving a notification, you can send or reply a message using the status panel depending on apps. Switch the detailed information on notifications to the detailed display and follow the instructions on the screen.

Switching manner mode

You can set to avoid disturbing others when in public.

Touch [Manner mode] in the status panel to select a mode

 Touch this repeatedly until the manner mode to be set appears.

Advanced settings of manner mode

Set the manner mode to match your usage situation.

In the status panel, touch and hold [Manner mode] ▶ [Do not disturb]

2 Select an item

- Sound & vibration: Set whether the sound and vibrator is activated for each of [Alarms], [Media], and [Touch sounds].
- Notifications: Set the operation for when notifications are delivered.
- Calls: Set exception operations for when calls are received.
- Messages, events & reminders: Set exception operations for when message, event, and reminder notifications are delivered.
- Duration: Set the duration until [Do not disturb] turns OFF. If [Turn on automatically] is set, the setting is in accordance with the setting of [Turn on automatically].
- Turn on automatically: Set the rules for turning [Do not disturb] ON/OFF automatically.

3 [TURN ON NOW]

 [Do not disturb] turns ON and operation is in accordance with the settings of the set items. Touch [TURN OFF NOW] to cancel.

AQUOS Home

AQUOS Home is a home app consisting of a home screen (Desktop sheet/Favorites tray) and an app list screen. On the home screen, you can register shortcuts/widgets of apps/functions in Desktop sheet, and shortcuts of apps/ functions in the Favorites tray. The app list screen displays installed apps.

AQUOS Home layout

Swiping up slightly on the home screen changes the display to a recent apps screen, and further swiping the screen changes the display to an app list screen.

While in the state where the top part of the app list screen is displayed, swiping down displays the screen that was displayed before switching to the app list screen.





App list screen

Desktop sheet

• Flick left or right to switch the pages.

2 Folder

 To change a folder name, touch the folder ▶ select the folder name.

If touching a folder displays an indicator, flicking left and right allows you to switch the page.

3 Page indicator

 When you switched the page in Desktop sheet, the current display position is displayed.

4 Favorites tray

 You can register shortcuts for your favorite apps or functions for quick access.

5 Widget

Activate a widget (Google Search)
 (ISF P.48 "Searching information on the handset and websites").

6 Apps

Search apps

Enter the name of the app you want to search for.
 If you touch [SEARCH FOR MORE APPS] or the relevant app is not installed, executing this function searches
 Google Play for the app (FSP.101 "Play Store").

Managing the home screen

- Moving app/widget/folder
- 1 Home screen/app list screen ▶ touch and hold the app/widget/folder
- 2 Drag it to the destination position and release your finger
 - Dragging to the left or right end of each Desktop sheet changes the page. In addition, dragging to the right end of the last page adds a new page.
 - Drag the app/widget/folder on the home screen to [Remove] to remove it from the home screen. To uninstall an app, select the app you want to uninstall on the home screen/app list screen and then drag it to [Uninstall].
- Removing an app from the home screen does not uninstall the app.
- To add an app to the home screen, touch and hold the app on the app list screen and drag it to [Add to home screen].

- Registering widgets
- Touch and hold an open space on the home screen ▶ [Widgets]
- 2 Touch and hold the widget you wish to add
 - The home screen appears.
- 3 Drag it to the destination position and release your finger

Using function shortcuts

- 1 Home screen/app list screen ▶ touch and hold the app, and then release your finger
- 2 Select a function shortcut
 - Available function shortcuts differ depending on the app.
 - To register a function shortcut in the home screen, touch and hold the displayed function shortcut drag it to the registration position, and release your finger.
 - Removing or moving shortcuts is performed using the same operation as for apps, widgets, and folders.

Setting wallpaper

- 1 Touch and hold an open space on the home screen ▶ [Wallpapers]
- 2 Select an app
 - If you set [Lock Photo Shuffle] to ON, an image for the lock screen of the touch panel is automatically switched every time the display is turned on.
- 3 Select the wallpaper you wish to set

Setting the home screen

- 1 Touch and hold an open space on the home screen ▶ [Home settings]
- 2 Select an item
 - Notification dots: Make settings for app notifications.
 - Add number on notification dots: Set whether to display the number of notifications when you are using notification dots.
 - Add icon to Home screen: Set whether to add the icon of an app to the home screen when a new app is downloaded.
 - Allow Home screen rotation: Set whether to use AQUOS Home in horizontal display.

Recent Apps

You can activate apps by displaying the history of recently used apps.

- 1 Swipe the navigation bar upward slightly
- 2 Use a history item



App usage history item

- Touch it to activate the app.
- Flick it up to delete the history item.
- Flick the history right and touch [CLEAR ALL] to delete all app usage history items.

2 Favorites tray

- For details on the Favorites tray P.58 "AQUOS Home layout"
- Flicking the Favorites tray up displays the app list screen.

3 App icon

- Touch to check the app information and use split screen (FF P.61 "Multi Window") and screen pinning.
- To use screen pinning, set [Screen pinning] to ON (FP.127 "Security & location").
- Touch the app icon select [Pin] to restrict the use of apps other than the selected app.
- Some apps may not be displayed in the history.
- If you delete the history item of the running app, you can end the app.
- Swiping the navigation bar to the right also displays the recent apps. Swipe left or right and release your finger to launch the displayed app.

Multi Window

You can use two apps on the screen divided into top and bottom sections at the same time.

- 1 Swipe the navigation bar upward slightly
- 2 Touch the app icon of the relevant history item [Split screen]
 - The screen is split into top and bottom sections with the selected app placed in the top section and the app usage history displayed in the bottom section.
 When you activate an app from the app usage history item or home screen, it is displayed on the bottom section of Multi Window and you can use it with an app on the top section at the same time.



Separator

- When you flick it up/down, an app on the bottom/top section is displayed in the full screen. Also, Multi Window ends
- When Display size (EFP.119 "Display") is set to [Small], you can change the display size of top/bottom section by dragging it up/down.
- Multi Window may not be used depending on the app in use.

Home applications

Switch home apps to use.

- The following home apps are registered on the handset by default.
 - AQUOS Home

A home app that has Desktop Sheet widgets/shortcuts are set, Apps Sheet apps are displayed as a list and Favorites tray shortcuts to the favorite app are registered.

■ AQUOS Kantan Home

A home app that displays icons and characters in large.

- The app has a home screen where widgets/shortcuts are set, and a app list screen where apps are displayed.
- In the bottom right of the home screen, touch and hold [Apps list] to use the menu to change wallpaper, add widgets or make the home settings.
- You can register frequently used contacts to the Rakutomo Link on the bottom of the home screen.
- In the home screen, display "app list screen" ►
 [Settings] ► [Home applications]
- 2 Select a home application

Confirmation screen at first activation of apps

When you activate each app for the first time, the confirmation screen of "First things first"/"Battery optimization" is displayed and make settings for the operations of an app.

- The type or content of the displayed confirmation screen may differ depending on the app. The followings describe two types of the confirmation screen, "First things first" and "Battery optimization".
- When you use a specific function for the first time, the confirmation screen may be displayed depending on the app.

First things first

You can allow the app to use the data of the handset, camera, etc.

 If you do not allow the app to use the functions, the app may not work properly.

Example: When OfficeSuite is activated

1 [DENY]/[ALLOW]



- In general, select [ALLOW] and allow the app to use the functions.
- If there are multiple functions to use, operate in the same way.

Setting functions to use

You can make settings for the functions to use by following steps below as well.

Setting functions to use by app

- In the home screen, display "app list screen" ► [Settings] ► [Apps & notifications]
- 2 [See all XX apps] ▶ select an app ▶ [Permissions]
- 3 Select a function

Setting apps to allow to use by function

- ¶ In the home screen, display "app list screen" ► [Settings] ► [Apps & notifications] ► [Advanced] ► [App permissions]
 - [Advanced] may not be displayed depending on the usage state.
- 2 Select a function
- 3 Select an app

Battery optimization

If you carry out Battery optimization, the apps are set not to work while the display is turned off (except while charging).

- Depending on the app, the confirmation screen of "Battery optimization" may be displayed when activating apps or setting functions. In general, do not carry out Battery optimization. If you carry out it, the app may be terminated.
- If you carry out Battery optimization, the app does not work while the display is turned off (except while charging). Some unintended phenomena such as apps/functions are unavailable to use may occur.

Setting Battery optimization

You can make settings for Battery optimization by following steps below as well.

- ¶ In the home screen, display "app list screen" ► [Settings] ► [Apps & notifications] ► [Advanced] ► [Special app access] ► [Battery optimization]
 - The list of not optimized app is displayed.
- 2 [Not optimized] ▶ [All apps]
- 3 Select an app ▶ [Optimize]/[Don't optimize] ▶ [DONE]

Call

You can use the phone and address book, and make settings for call, and operations available when calls are received, etc.

Making a call

- This function can be used when you are using a callable nanoSIM Card.
- In the home screen, display "app list screen" ▶ [Phone]
- 2 [●] ► Enter a phone number
 - Always enter the city code, even when it is a local number.
 - You can set to notify/not to notify the other party of your phone number for each call by adding "*31#"/"#31#" to the head of the phone number.



Creating a new contact

 Newly register the entered phone number in the address book.

2 Adding to a contact

 Additionally register the entered phone number in the address book.

3 Sending SMS

 Set the entered phone number as the destination and create an SMS.

4 Menu

Adds a 2-second pause or standby.

5 Keypad

6 Call

 Make a call. Also, if there are outgoing call history items, touch it to enter the latest one when the phone number has not been entered.

7 Phone number input field



8 Delete

 Delete one digit of the last entered number. Touch and hold to delete all of the digits. When the cursor is displayed by touching the phone number input field, delete one digit of the number on the left of the cursor.

3 [9]

4 [a] to end the call

 If you talk on the handset with your hair put between the earpiece and your ear, the proximity sensor may not work properly. The screen may be kept turned on and the call may be interrupted when the screen is touched accidentally.

VolTE

- VoLTE enables you to use call with high quality.
- When you use VoLTE, the handset and the other party's device need to satisfy the following conditions.
 - They are VoLTE compatible models
 - The network operator that you are contracted with must support VoLTE*
 - You must be within the VoLTE service area*
 - Preferred network type is set to [4G (recommended)] (

 (

 P.112 "Mobile network")
 - [Enhanced 4G LTE Mode] is set to ON (

 P.112 "Mobile network")
 - * Depending on the network operator that you are contracted with, the other party to the communication must use a line from the same network operator.
 - * VoLTE cannot be used outside the VoLTE service area.

VoLTE (HD+)

- VoLTE (HD+) enables you to use call with higher quality than VoLTE.
- When you use VoLTE (HD+), it is necessary that the handset and the other party's device are VoLTE (HD+) compatible models as well as the usage conditions of VoLTE.

Entering touch-tone signals

When using services in which you are required to enter numbers additionally during a call, such as inquiry about the balance in your bank account or ticket reservation, enter pause (,)/wait (;) after entering a phone number to make a call with an additional number added to the main phone number.

- In the home screen, display "app list screen" ▶
 [Phone] ▶ [●]
- 2 Enter a phone number ▶[:]▶[Add 2-sec pause]
- 3 Enter a number to send ▶ []
- Add wait

After making a call to a main phone number, the handset automatically waits and then a screen asking whether to send an additional number is displayed. Touch [YES] to send an additional number.

- In the home screen, display "app list screen" ► [Phone] ► [①]
- 2 Enter a phone number ▶[:] ▶[Add wait]
- 3 Enter a number to send ▶ []
- 4 [YES] during the call

Emergency call

- The handset supports "Emergency call location notification." When you make a call to an emergency number such as 112 and 999, the information of your location (location information) is automatically notified to the agency that has received the emergency call (e.g. the police station). Depending on your location and the reception status of the signal, the agency that has received the emergency call may not be able to confirm the exact location.
 - If you are not sending your caller ID by calling with "#31#" added or other means, your location information and phone number are not notified. However, if the agency that has received the emergency call considers the exact location information measured via GPS and phone number necessary for important purposes, such as life saving, the agency may retrieve them regardless of your settings.
 - In addition, the area/timing to introduce "Emergency call location notification" depends on the state of preparation in each agency that receives emergency calls.
- When making an emergency call from your handset, the police or fire stations may return your call for verification purposes.
 Remain stationary to ensure that the call is not disconnected while you are on the line, and keep the handset turned on to receive calls for approximately 10 minutes afterwards.
- Depending on the region, calls to the police or fire station of the local area may not be made.
- Emergency call may not be available in some networks.

Answering a call

- This function can be used when you are using a callable nanoSIM Card.
- 1 When a call is received, the ringtone sounds
- 2 Answer the call



- Accept
 - Swipe up to answer the incoming call.
 - Swipe down to reject the incoming call.

2 Quick reply

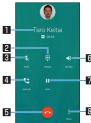
- Reject the incoming call and send a selected SMS message to the other party.
- 3 [a] to end the call
- Answering a call while display is turned on

When a call is received while a screen other than lock screen of the touch panel is displayed, the incoming notification is displayed. You can answer the call by using the notification.

- 1 When a call is received, the incoming notification is displayed at the top of the screen
- 2 [ANSWER]
 - Touch the incoming notification to display the incoming call screen. Operate each icon.
 - To reject an incoming call, touch [DECLINE].

Operation during a call

You can carry out operations such as using a hands-free call and adjusting the in-call volume according to the usage condition during a call.



- Other party's name and phone number
- 2 Keypad
 - You can enter touch-tone signals.
- 3 Mute
 - Enable or disable the mute setting on a current call.
- 4 Add call
 - Place a current call on hold and make a call to another party.
- 5 End call
 - End a call.
- 6 Speaker/Sound
 - You can talk with hands-free.
 - Set the audio output destination when the headset or Bluetooth device is connected.

7 Hold

Hold a call. To unhold a call, touch again.

8 Menu

- Displays available functions (menus).
- Note the followings to use hands-free call.
- Speak approximately 20 to 40 cm away from the mouthpiece.
 When the surroundings are noisy, the sound may break up and the call may not be satisfactory.
- When calling outdoors, in a location where surroundings are noisy or where the sound echoes loudly, use the headset.
- If the sound breaks up during a hands-free call, lower the in-call volume.
- To use [Hold] and [Add call], you must contract with your network operator. For details, contact your network operator.
 Note that some network operators may not provide those functions.
- Adjusting the in-call volume
- **1** (+)/(-) during a call

Using Clear talk

When [Clear talk] is enabled, you can measure ambient noises using the microphone and communicate by making your voices sound clear during a call.

[Menu] ► [Clear talk] during the call

- Clear talk processes voices to make conversations sound clear. Sound quality may vary depending on the surrounding noises and the tone of the voice.
- When using Clear talk, make sure not to cover the hole of the microphone and move the mouthpiece as close to your mouth as possible for speaking.
- Clear talk is not available in the case that the other party's voice is not emitted from the earpiece, such as during a hands-free call.

Using Slow talk

When [Slow talk] is enabled, the speed of the other party's voice is slowed down during a call and you can hear the voice well.

1 [Menu] ▶ [Slow talk] during the call

Call history

- This function can be used when you are using a callable nanoSIM Card.
- In the home screen, display "app list screen" ▶
 [Phone] ▶ [⑤]



Search box

- Search for a contact.

2 Quick access

• Touching the icon displays a quick access list screen.

3 The other party's name/phone number

- Touch to add the party to the address book, send SMS, or check the detailed call history.
- Touching and holding allows you to make a call by copying or editing the number.

4 Image registered to the address book

- Touch to display part of the information registered in the address book.
 - Slide upward to check the registered information or downward to return to the call history list screen.

5 Outgoing and incoming call status icons

7	Call	
∠	Incoming call	
₹ ⁄	Missed call/blocked call The SIM number used	
1/2		
	This icon is displayed when two nanoSIM	
	Cards are inserted.	

6 Contacts

- Touch to display the contact list screen.
- Date and time of outgoing/incoming call

8 Outgoing call icon

- Touch to make a call.
- 9 Dial icon
 - Display the dial screen.
- For the call history, up to 500 call log entries are saved. When that number is exceeded, the oldest log entry is automatically deleted. Depending on the available space, fewer calls may be saved.

Displaying call history details

The call history can be checked by switching between the list of all call history and the list of call history for missed calls. Also, you can delete all of the call history.

- In the home screen, display "app list screen" ▶ [Phone] ▶[:] ▶ [Call history]
- 2 [ALL]/[MISSED]
 - Select [] ▶ [Clear call history] ▶ [OK] to delete the call history.

Quick access

Display the speed dials automatically. The contacts registered as favorites are also displayed.

In the home screen, display "app list screen" ▶ [Phone] ▶ [★]



Search box

- Search for a contact.
 - Touch [J] to search by voice.

2 Image registered to the address book

- Touch to make a call.
- Touch and hold and then drag to [Remove] to cancel a favorite of the address book or hide a speed dial.

3 Dial icon

• Display the dial screen.

4 Call history

• Touch to display the call history list screen.

5 Contacts

• Touch to display the contact list screen.

6 Contacts menu

- Touch to display part of the information registered in the address book.
 - Slide upward to check the registered information or downward to return to the quick access list screen.

Deleting speed dials

Delete the speed dials.

- The contacts registered as favorites are not deleted.
- If a frequently used contact is not displayed in the quick access list screen, it cannot be deleted.
- In the home screen, display "app list screen" ►
 [Phone] ►[:] ► [Clear frequents] ► [OK]

71 Call

Call settings

You can configure settings for calls.

- In the home screen, display "app list screen" ▶ [Phone]
- 2 [i] ▶ [Settings]
- 3 Select an item
 - Display options: Make settings for display.
 - Sounds and vibration: Set the incoming call sound, vibrator, etc.
 - Quick responses: Edit the text to be used for a quick reply.
 - Calling accounts: Configure settings for calls for each inserted nanoSIM Card.
 - Call blocking: Block incoming calls or SMS from specified phone numbers.
 - Voicemail: Configure settings for voice mail for each inserted nanoSIM Card.
 - About: Displays the version of the phone app or open source license information.

Address book

You can manage contacts.

Adding contacts to address book

- ¶ In the home screen, display "app list screen" ▶ [Address Book]
- 2 [0]
 - If the confirmation screen of a contact is displayed, operate by following the screen prompts.
 - If an account has been set, the contact is registered into the account.
- 3 Set each item
 - Information which can be registered may differ depending on the account type.
 - When each item is set, [X] is displayed. Touch [X] to delete.

72 Call



III Image

 Register an image to display when making and receiving a call or checking the contact.

2 Saving to

- Set to which account to register.
- If multiple accounts have been set, touch [✓] to select the account to register to.

3 Name

- Touching [>] allows you to register the title and middle name.
- 4 Phone number
- Mail address
- 6 More fields
 - Register address, birthday and other information.

4 [SAVE]

Checking/Using address book

You can retrieve registered contacts from the phonebook to make calls and send mails.

- 1 In the home screen, display "app list screen" ▶ [Address Book]
- 2 Select a name



- Contacts
- 2 Search icon
- 3 Delete
- 4 Image
- 5 New contact icon

73 Call

3 Check/Use registered information



- Name
- 2 Registered contents
 - Check or use the registered contents.
- 3 Image
- 4 Action icon
 - : Creates an SMS addressed to the selected phone number.
 - Displays route information from the current location to the selected address.
- 5 Adding to/deleting from Favorites
- 6 Edit

Configuring contacts

You can delete, share, link contacts (consolidate the registration contents of multiple contacts into one contact), or set the incoming sound

- In the home screen, display "app list screen" ▶ [Address Book]
- 2 Select a name
- 3 [§]▶ Select a function
 - Follow the instructions on the screen after this step.

Configuring the address book

- In the home screen, display "app list screen" ► [Address Book]
- 2 [■] ► [Settings]
- 3 Select an item
 - My info: Enter your own user information.
 - Accounts: For details on accounts P.50 "Setting up Google account, etc."
 - Default account for new contacts: Set the default account for registering new contacts.
 - Contacts to display: Configure the contacts to display.
 - Sort by: Configure the contacts display order.
 - Name format: Configure display of names.
 - Import: Loads address book data.
 - Export: You can save address book data or share it with other apps (such as attaching to email).

- Blocked numbers: Blocks incoming calls or SMS from specified phone number.
- About AddressBook: Displays the version of the address book app or open source license information.

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Mail/Web Browser

You can send and receive messages using SMS, Gmail, etc., and display websites using Chrome.

Messages

You can send and receive text messages with mobile phone numbers serving as destinations.

- This function can be used when a nanoSIM Card that supports SMS is used.
- In the home screen, display "app list screen" ▶ [Messages]
- 2 [Start chat]
- 3 Select a destination
 - To send a message to a party that is not registered as a contact, directly enter the phone number.
 - In the case of a group message, select [Start group conversation] ▶ select multiple destinations ▶ [♠] ▶ enter the group name.

4 Create a message

- Select a phone number to send the message: [1]/[2] ▶ select a nanoSIM Card
- Add the recipient: [+♣] | select a recipient | [♦] | enter a group name
- Add stickers or position information, etc.: [♠] ▶ operate according to the screen prompts
- Attach images or video captured with the camera: [6] perate according to the screen prompt

5 [>]

- If destinations are devices owned by those who use network of overseas network operators, enter "+", the country code and the recipient's mobile phone number. If the phone number begins with "0", omit the first "0". Alternatively, enter "010", the country code and the phone number.
- If special symbols are used in a SMS message, it may not be displayed correctly at the recipient side.
- Messages with "*31#"/"#31#" added cannot be sent.

Displaying message

- 1 In the home screen, display "app list screen" ▶ [Messages]
- 2 Select a thread
 - Messages are grouped into threads according to their destinations/senders and displayed.



- 1 Image
 - Displayed if an image of the other party is registered in the phonebook.
- 2 Destination/Sender
- 3 Date and time of the message exchange
 - Display latest date and time of the message exchange.
 When the interval from the latest exchange is short, the elapsed time is displayed.
- 4 Search messages

3 Check the message



- Date and time of the message exchange
 - Displays the sent/received date and time. When the interval from the latest exchange is short, the elapsed time is displayed.
- 2 Message
 - Touching and holding ▶[☐] allows you to copy messages.
- 3 Destination/Sender
- 4 Phone call

Replying message

- ¶ In the home screen, display "app list screen" ► [Messages]
- 2 Select a thread
- 3 Create a message
- 4 (>)

Forwarding message

- In the home screen, display "app list screen" ► [Messages]
- 2 Select a thread
- 3 Touch and hold the message ▶[:]▶[Forward]
- 4 Select a destination
 - If the forward destination is not displayed, touch [New message] to set the recipient.
- 5 Create a message
- 6 (>)

Deleting message

- ¶ In the home screen, display "app list screen" ► [Messages]
- 2 Select a thread
- 3 Touch and hold the message ▶[i] ▶[Delete]

Deleting thread

- ¶ In the home screen, display "app list screen" ► [Messages]
- 2 Touch and hold a thread to delete
 - Touch a thread to delete when deleting multiple threads.
 - Touch the selected thread to disable it.
- 3 [**1**] ▶ [Delete]

Setting message

¶ In the home screen, display "app list screen" ► [Messages]

2 [:] ▶ [Settings]

- The number of items displayed differs depending on the number of nanoSIM Cards inserted.
- If two nanoSIM Cards are inserted, to make settings for messages, touch [General]. By selecting a nanoSIM Card, you can make detailed settings for individual nanoSIM Cards.

3 Select an item

- Default SMS app: Set the app that sends/receives SMS.
- Notification dots: Make settings from messaging app notifications.
- Hear outgoing message sounds: Set whether to make a sound when a message is sent.
- Your current country: Set the country where this handset is used.
- Smart Reply & suggestions: Set Smart Replay and recommended actions.
- Automatic previews: Set the preview function.
- Advanced: You can configure detailed settings for nanoSIM Cards.
- About, terms & privacy: Displays the messaging app version, privacy policy and terms of use.

Gmail™

You can use a mail service provided by Google or Email provided by general service providers.

- If you have not set up a Google account or Email account, follow the instructions on the screen and set.
- 1 In the home screen, display "app list screen" ▶ [Gmail]
- 2 [+]
- 3 Compose a mail



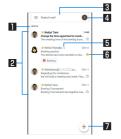
- **Account**
 - If you set up multiple accounts, you can switch accounts.
- 2 Destination
- 3 Subject
- 4 Text
- 5 File attachment
- 6 Add destinations
 - Touch to add Cc or Bcc.
- 4 [⊳]

Displaying mail

- The screen may appear different depending on the account to use.
- ¶ In the home screen, display "app list screen" ► [Gmail]

2 Select a thread

 In Gmail, mails are grouped into threads by reply and displayed. If new mails are replied ones of an existing mail, they are grouped into the same thread. A new thread is created for newly composed mails or mails whose subjects have been changed.



■ Box name/Label name being displayed Threads

- The characters of sender or subject are displayed in thin characters when all mails in thread are read.
- Touch images to checkmark the threads and you can set them to be archived/deleted/unread/read, etc. collectively.

3 Email search

Touch [≡] to switch or set displaying types.

4 Displayed account

Touch to add an account or switch accounts.

5 Number of mails in thread

6 Star icon

- Use it as a mark indicating that the thread is special or supposed to be dealt with later.
- You can check starred threads in the Starred folder.

Newly compose mail

3 Check the mail



- Subject
- 2 Grouped mails
 - Touch to display grouped mails.
- 3 Sender/Destination
 - Touch the image to display available apps. Available functions may differ depending on the content of the phonebook.
 - Touch the sender to switch detailed display/simplified display.

4 Text

- Menus to perform tasks such as displaying the email of the reply source may be displayed, and they can be used by touching them.
- 5 Attached file

6 Star icon

- Use it as a mark indicating that the thread is special or supposed to be dealt with later.
- You can check starred threads in the Starred folder.

7 Reply

8 Menu of each email

 Touch to perform operations such as replying to all, forwarding, adding/removing a star, and printing.

9 Receive information

- Touch to display/hide the details of sender, destination or date and time of reception.
- III Archive
- Delete
- 12 Set to unread

Replying/Forwarding mail

- In the home screen, display "app list screen" ▶ [Gmail]
- 2 Select a thread
- 3 [←]
- 4 Compose a mail



- Reply type
 - Touch to switch Reply/Reply all/Forward.
- 2 Destination
- 3 Message
- 4 Message of sender
 - Touch to enter the mail of the sender in the message.
- 5 Subject

5 [⊳]

Deleting thread

- ¶ In the home screen, display "app list screen" ▶ [Gmail]
 - To delete selected threads: Touch the images of threads ▶
- 2 Select a thread
- 3 🗐

Setting Gmail

- In the home screen, display "app list screen" ▶
 [Gmail]
- **2** [≡]▶[Settings]
- 3 Select an item
 - General settings: Make settings for the whole Gmail.
 - Add account: Add account.
 - Select an account to make settings for the details on the account such as Notifications and signature.

Chrome

You can display websites via packet communication or Wi-Fi function.

Displaying websites

- ¶ In the home screen, display "app list screen" ▶ [Chrome]
- Some websites may not appear properly.
- Searching websites
- 1 Touch the URL entry field



- 2 Enter a keyword ▶ select a keyword
 - Keywords that include the entered characters are displayed as a list.
 - Alternatively, enter the entire keyword and [] to search websites.
 - To reload the page: In the Chrome screen, [:]▶[C]
- Opening new tabs
- 1 In the Chrome screen, [:] ▶ [New tab]

- Switching tabs
- 1 In the Chrome screen, [2]
 - The number on the icon may differ depending on the numbers of opening tabs.
- 2 Select a tab
- Closing tabs
- 1 In the Chrome screen, [2] ▶ [3]
 - The number on the icon may differ depending on the numbers of opening tabs.
- Opening incognito tabs

You can display websites without your browsing history and search history being recorded.

- In the Chrome screen, [∶] ► [New incognito tab]
 - When you display websites on an incognito tab, the surrounding area of the URL entry field is displayed in gray.
- 2 Touch the URL entry field ▶ enter a keyword ▶
 [♠]
 - \bullet To close the incognito tab: In the Chrome screen, $[\fbox{\cite{100}}]$ \blacktriangleright

- The websites opened on incognito tabs are not recorded in history of Chrome (PF P.85 "Displaying websites from history"). Also, if you close all incognito tabs, information such as cookie is deleted. You can also download files and bookmark websites from incognito tabs.
- Searching characters in the page
- 1 In the Chrome screen, [:] ▶ [Find in page]
- 2 Search



- Keyword entry field
 - Enter the keyword to search with.
- 2 Previous
- 8 Next
- 4 End search
- Search results bar
 - Move to the search result at the touched position.

- Copying characters
- 1 In the Chrome screen, touch and hold characters to copy
- 2 Drag your finger from the start position to the end position
 - To change the copy range: Drag []/[]
- **3** [Copy]
- Convenient functions

You can display a link with a new tab or download data such as images.

In the Chrome screen, touch and hold a link/an image ▶ select a function to use

Setting Chrome

- 1 In the Chrome screen, [:] ▶ [Settings]
- 2 Select an item
 - Sign in to Chrome: Sign in to Chrome with your Google account. You can synchronize information such as tabs, bookmarks and history saved when you used Chrome with the same account.
 - Search engine: Set a search engine to use when searching in the URL entry field.
 - Passwords: Make settings for saving passwords.
 - Payment methods: Set payment methods for automatically filling in forms.
 - Addresses and more: Set addresses and other information for automatically filling in forms.
 - Notifications: Make settings for notifications from Chrome.
 - Home page: Set a home page.
 - Privacy: Make settings for the functions that use your browsing information to improve user-friendliness.
 - Accessibility: Make settings for the display such as font size and zoom.
 - Site settings: Make settings for displaying websites and the information that they can use to improve user-friendliness.
 - Languages: Make settings for the language displayed on a website. The website is displayed in the language you set if it is available one.
 - Lite mode: Set whether to suppress the data usage volume.
 - Downloads: Make settings for downloading files and recommended articles.

■ About Chrome: Check information on Chrome.

Using bookmark and history

- Saving bookmarks
- 1 In the Chrome screen, [∶]▶[☆]
- Displaying websites from bookmarks
- 1 In the Chrome screen, [∶] ▶ [Bookmarks]
- 2 Select a bookmark
- Displaying websites from history
- 1 In the Chrome screen, [:] ▶ [History]
- 2 Select a history item

Camera

Camera

You can shoot still pictures and videos. Also, you can switch settings of the camera according to the object to shoot.

 For details on effective pixels, recording file formats, maximum zoom magnification, etc. of the camera P.161 "Main specifications"

Before using camera

- If dirt such as fingerprint or fat adheres on the lens part, images may be out of focus or blur. Wipe the lens with a soft cloth before shooting images.
- Although the camera is made with high-precision technology, some pixels or lines look constantly dark or bright. Further, white lines and other noise increase in images especially when shooting images in dimly lit surroundings.
- If the camera lens part is exposed to direct sunlight for a long time, the internal color filter may discolor, creating a discoloration of shot images.
- The quality of images may deteriorate when shot or saved after the handset has been left in a warm location for a long time.
- Images shot in shooting conditions which include strong light source such as the sun or a lamp may appear dark or distorted.
- Shooting the sun directly may impair the performance of the CMOS.

- If you continue to use the camera in a state that internal temperature is high, the warning screen appears and the camera automatically ends after saving shot data.
- You cannot shoot when the battery level is low. Charge the battery sufficiently before using the camera.
- When [Focus Setting] is switched, sounds may be heard from the camera lens. This is not a malfunction.
- The color and brightness of the object in images shot with the camera may differ from the actual color and brightness.
 Make sure that your fingers, hair, etc. do not obscure the camera
- lens when shorting images.
- Because a larger picture size requires more data, movement in the image on the handset display may appear slow.
- Indoor fluorescent lighting, etc. may create flickering or streaky shading on the screen. This flickering or shading may be reduced by changing the lighting conditions and brightness of the room or adjusting the camera brightness and white balance.
- Shot still pictures are saved in DCF1.0 (ExifVer.2.2, JPEG) format.
- Depending on camera settings and the shooting condition, handset may become warm and shooting may be stopped automatically.
- When you use a microSD Card via other apps while backing up to a microSD Card, backing up may be failed.

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Copyrights and rights of portrait

Images and audio recorded with the handset are for personal use and must not be used for any other purposes without the consent of the rightful person in accordance with the Copyright Act. Please note that acts such as the use or defacement of the likeness or name of other individuals without their consent may infringe on an individual's rights of portrait. Please be aware of copyrights and rights of portrait when posting images and audio recorded with the handset on the Internet or similar media. The recording of images and audio may be restricted at stage performances, shows, exhibitions, etc. even when the images and audio are recorded for personal use, etc. Do not use the handset to send copyrighted images for uses other than those permitted under the Copyright Act.

If you cause the public any trouble using the handset, you may be punished under law or regulations (for example, nuisance prevention ordinance).

Please be considerate of the privacy of individuals around you when taking and sending photos using camera-equipped device.

Operations while using camera

 If no operations are performed for approximately 3 minutes while activating the camera, the camera automatically ends.

Picture size of camera

The following picture sizes are available.

Shoot still picture

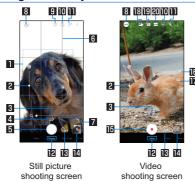
Aspect ratio	Picture size	Rear Camera	Front Camera
18:9	10.8M (4656 x 2328)	×	0
	8.1M (4032 x 2016)	0	×
16:9	12.2M (4656 x 2620)	×	0
	9.1M (4032 x 2268)	0	×
4:3	16.3M (4656 x 3492)	×	0
	12.2M (4032 x 3024)	0	×
	Memo size (1600 x 1200)	0	×
1:1	12.2M (3492 x 3492)	×	0
	9.1M (3024 x 3024)	0	×

Shoot video

Aspect ratio	Picture size	Rear Camera	Front Camera
18:9	1.8M (1920 x 960)	0	0
16:9	4K (3840 x 2160)	0	0
	FULL HD (1920 x 1080)	0	0
	FULL HD (1920 x 1080) 60fps*	0	×
	HD (1280 x 720)	0	×
4:3	1.6M (1440 x 1080)	0	0
1:1	1.2M (1080 x 1080)	0	0

^{*} This can be set when using the video rear camera.

Shooting screen layout



Focus mark

- Detects the face and displays the focus mark when the shooting menu is set to [Al Auto] or [Auto], or the Focus Setting is set to [Face AF].
- Multi AutoFocus (multiple yellow points) is displayed when subjects other than people, dogs, and cats are focused on automatically.

2 Brightness adjust

• Adjust brightness. Slide the screen up/down to display/set it.

3 Zoom

• Enlarge/Reduce the object. Pinch out/in the screen to display/ set it. You can also make adjustments by sliding the displayed adjustment bar left or right.

4 Recognition icon

- When the shooting menu is set to [Al Auto] and Al recognizes the next shot and object, its icon is displayed.
 - Person: [Ջ]
 - Dog: []
 - Cat: []
 - Food: []]
 - Flower: [] 1
 - Sunrise: [1]
 - Firework: [10]
 - Whiteboard/Blackboard: []
- Shoot with the suitable quality mode and shutter speed according to the recognized scene and objects. When shooting objects with the whiteboard/blackboard recognized, the confirmation screen is displayed and it is revised to the picture looks like when it faces you by touching [YES].

5 Shooting still pictures Shoot still pictures.

6 Guide line

• Displayed when [Guide Line] is set (FF P.95 "Settings on shooting still pictures").

7 Remaining number for shooting

- Displayed when the remaining number for shooting decreases to 99 or less
- 8 Shooting menu

Google Lens™

 Touch it to activate Google Lens. For details, refer to the content of confirmation screen at first activation.

Switching front/rear camera

Mobile Light

 This can be set to flash when shooting still pictures (light at the moment of shooting).

12 Shooting mode

 Slide it to the left/right to switch shooting modes (Mode changer).

E Self-timer

Displayed when [Self-timer Display] is set to ON (IPP.96 "Common settings on shooting still pictures/videos"). The self-timer is set to 5 seconds/10 seconds/OFF each time you touch. When shooting with the front camera, the self-timer is set to 3 seconds/5 seconds/OFF each time you touch.

Previous data

 Display the thumbnail of previous data. Touch it to check the data. If there is no previous data, the shortcut to "Photos" is displayed. A video shot with AI live story is displayed with superimposed.

I Start shooting videos

Shoot videos.

II Wind noise cut

 Set whether to cut wind noise. Slide the right edge to the left to display it.

Lens correction

- Displayed if you slide the right edge to the left when using the video rear camera.
- Touch to display the adjustment bar and then adjust the distortion correction amount.

IE Al live story

- When you set the angle switch to [weet] and shoot videos, Al will automatically create short movies by increasing the number of cuts and amount of changes from videos which were recorded for a long period of time and then applying effects and adding theme tunes.
 - When this is enabled, short movies are saved separately from the recorded videos. The saved short movies can be checked in the "Photos" app (ISP P.98 "Playing short movies").

IE Al live shutter

- When you set the angle switch to [mee] and shoot videos, Al shoots still pictures automatically.
- When this is enabled, AI recognizes people, dogs, cats, etc., determines the composition, and automatically shoots still pictures when recording videos.

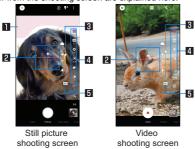
2 Angle switch

- Switch the angle for shooting.
- Switch to [weet] to set the video rear camera. Alternatively, you
 can shoot still pictures using the standard rear camera when
 recording videos.
- Switch to [sto] to set the standard rear camera.

 Icons for changing settings are displayed at the top or right edge of the screen depending on the shooting mode and menu.
 Touch the icons to change the settings.

Shooting screen (Manual)

The operating method is same as the shooting screen. Operations that differ from the shooting screen are explained here.



■ Clipped whites/Crushed shadows

 When [Clipped whites/Crushed shadows] is set to ON, stripes are displayed in the part that clipped whites or crushed shadows occur (PP.96 "Common settings on shooting still pictures/videos").

2 Water level

Check angles of the shooting screen.

3 Adjustment bar

Drag it to adjust settings.

4 Setting icon displaying area

- Slide the right edge to the left to display.
- Touch the setting icon to display the adjustment bar and adjust settings.
 - The following settings are available with displayed icons.

White Balance: [WB]

ISO Sensitivity: [ISO]

Shutter Speed: []

• Focus: []

Saturation: []

Contrast: []

• Clarity: [O**]

5 Automatic adjustment

• Touch it to switch to the automatic adjustment.

ISO Sensitivity

 If you set ISO Sensitivity to high sensitivity, the shutter speed becomes fast. Therefore, it is possible to reduce object shake and camera shake, or shoot clear images of an object in a dark place. However, the quality deteriorates.

Front Camera shooting screen

The operating method is same as the shooting screen when using the rear camera. When using the front camera, use the AQUOS beauty icon to carry out face adjustments of the subject.

- This can be used when the shooting menu is set to [Auto] during still picture shooting.
- Slide the right edge to the left to display the defocus and AQUOS beauty icons.



Selfie flash

The entire screen serves as a flash by emitting light.

2 Adjustment bar

Drag it to adjust settings.

3 DeFocus

 Shoot photos with the focus on your face and the background blurred.

4 AQUOS beauty ON/OFF

● []: ON, []: OFF

5 AQUOS beauty icon displaying area

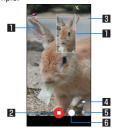
- When AQUOS beauty is set to ON, the following icons are displayed. Touch to display the adjustment bar and manually adjust settings.
 - Beautiful Skin Effect: []
 - Small Face Effect: []
 - Color Tone Correction: []
 - Brightness Correction: [O]Eye Size Correction: [O]

6 Restore initial values

 Touch to restore adjustment values that were adjusted manually to their initial values.

■ Video shooting screen

Explanations are based on the shooting screen using video rear camera as an example.



Video shooting screen (Al live shutter/ Al live story enabled)

II Shot still picture

- Displayed when shooting still pictures when recording videos.
- If Al live shutter shoots the picture automatically, [Al] is displayed on it.
- 2 Stop shooting videos
- **3** Recording time
- 4 Battery level
- 5 Confirm creation of short movie
 - This flashes when creation of a short movie is confirmed.

6 Shooting still pictures

 Displayed when the angle switch is set to [week]. Touch it to shoot still pictures using the standard rear camera.

- Switching shooting modes
- 1 In the home screen, display "app list screen" ▶ [Camera]
- 2 Slide the bottom of the screen to the left/right to switch shooting modes
 - Video: Shoot standard videos. You can switch the shooting menu to shoot with according to the shooting condition and object.
 - Picture: Shoot still pictures. You can switch the shooting menu to shoot with according to the shooting condition and object.
 - Slow Video: Shoot slow videos. The shot video can be checked in the "Photos" app (ISF P.99 "Playing slow videos").
 - Time Lapse: Time lapses at fast speed and shoot shortened videos

Switching shooting menu

When the shooting mode is [Picture]/[Video], you can switch the shooting menu to shoot with according to the shooting condition and object.

- 1 In the home screen, display "app list screen" ▶ [Camera]
- 2 Slide the bottom of the screen to the left/right to switch [Picture]/[Video]
- 3 Touch the icon of the shooting menu
- 4 Select an item
 - Al Auto: Al adjusts settings on shooting according to the object.
 - Auto: A mode to automatically adjust the camera according to the object.
 - Manual: A mode to manually adjust each settings by setting icons.
 - Portrait: Set the focus on a nearby person and shoot photos with its background blurred.
 - Clearly: Adjust clarity and contrast, and shoot pictures when you shoot a clearly one.
 - Fluffy: Adjust clarity and contrast, and shoot pictures when you shoot a fluffy one.
 - Backlight: Adjust white balance and contrast, and shoot pictures when you shoot a picture which has contrast between brightness and darkness such as backlight.
 - Afterimage: Shoot pictures look like an afterimage which light connected.
 - Closeup: Shoot impressive pictures toward an object.

■ Monochrome: A mode for monochrome shot.

Shooting still pictures

- In the home screen, display "app list screen" [Camera]
- 2 Slide the bottom of the screen to the left/right to switch the shooting mode to [Picture]
 - When the shooting mode is [Picture], you do not need to switch
- 3 Turn the camera of the rear camera (standard rear camera) to an object
 - To adjust the brightness: Slide your finger up/down
 - To zoom: Pinch out/in
 - An adjustment bar is displayed, and slide your finger to the left/right to adjust zoom.
 - To lock the focus: Touch the object
 - Touch anywhere other than focus mark to cancel the focus lock.
 - When the shooting menu is set to [Manual] and Focus Setting is set to [Separate AE/AF], drag [AE] to the part where you want to adjust the exposure.
- 4 []/(+)/(-)
 - Alternatively, you can shoot still pictures by touching the focus mark when the focus is locked by one other than [Separate AE/AF].

- Touch and hold [○] or hold [(+)/[(-) down for at least 1 second to shoot multiple still pictures in a row.
- As for the focus lock, the object's movements are detected mainly on basis of the colors. Therefore, the object may not be detected properly if its color is faint or similar to the background color

Shooting videos

- In the home screen, display "app list screen" ▶ [Camera]
- 2 Slide the bottom of the screen to the right to switch the shooting mode to [Video]
 - When the shooting mode is [Video], you do not need to switch.
- 3 [WIDE]/[STD]
 - You can switch cameras to shoot and select the angle.
- 4 Turn the rear camera of the handset to an object
 - To adjust the brightness: Slide your finger up/down
 - To zoom: Pinch out/in.
 - An adjustment bar is displayed, and slide your finger to the left/right to adjust zoom.
- **5** [•]
 - You can use following operations and functions when recording videos using the video rear camera (when the angle switch is set to [mee]).

- When you set Al live shutter to be enabled and shoot videos, still pictures are shot automatically (PP.88 "Shooting screen layout").
- Touch [] or press (](+)/(](−) to shoot still pictures.
- You can use following operations and functions when using the standard rear camera (when the angle switch is set to [sto]).
 - Focus lock (The operating method is same as shooting still pictures.)

6 [0]

- If a still picture was shot when shooting a video, they can be played back at the same time. For details, refer to "Playing videos including still pictures" (P.P.98).
- A video rear camera was designed to focus on the object in the
 wide range area including infinity. It is hard to focus on the
 object while shooting videos from a short distance.
 If you shoot videos from a short distance, switch to [Imm] to set
 the standard rear camera

Camera settings

- Some functions are not available depending on the shooting mode being used, etc.
- Settings on shooting still pictures
- In the home screen, display "app list screen" ▶ [Camera]
- 2 Slide the bottom of the screen to the left/right to switch the shooting mode to [Picture]
 - When the shooting mode is [Picture], you do not need to switch.
- 3 [8]
- 4 [PICTURE]
- 5 Select an item
 - Picture Size: Switch picture sizes of still pictures.
 - Guide Line: Display the guide on the shooting screen.
 - Intelligent Framing: Automatically compose by position and angles of the shot subject or background when shooting still pictures.
 - When composing is not needed, the function is not activated.

- Multi AutoFocus Display: Set whether to display Multi AutoFocus.
- Auto HDR: Set whether to automatically enable HDR function which reduces blown out highlights/blocked up shadows when you shoot still pictures in a high contrast scene such as when you shoot against the light.
- One Touch Shutter: Set whether to shoot still pictures by touching the finder (screen).
- QR code / Barcode Recognize: Detect a QR code/barcode and set whether to display the notification to activate corresponding apps.
- Optical Image Stabilization: Set whether to adjust the shake.

- Settings on shooting videos
- In the home screen, display "app list screen" ► [Camera]
- 2 Slide the bottom of the screen to the right to switch the shooting mode to [Video]
 - When the shooting mode is [Video], you do not need to switch.
- 3 [8]
- 4 [VIDEO]
- 5 Select an item
 - Video Size: Switch picture sizes of videos.
 - Camera Selection: Switch cameras to use and select the angle.
 - Quality and amount: Switch video compression standards. The video quality or data volume may differ depending on video compression standards.
 - This can be set to [HDR (H.265)] when the angle switch is set to [wee]. When this is set to [HDR (H.265)], [HDR] is set to ON in conjunction.
 - HDR: Set whether to enable HDR function which reduces blown out highlights/blocked up shadows when you shoot still pictures in a high contrast scene such as when you shoot against the light.
 - Video Stabilization: Set whether to adjust the shake.
 - Mic Setting: Set whether to record sound.
 - Wind Noise cut: Set whether to cut wind noise.

- Common settings on shooting still pictures/videos
- ¶ In the home screen, display "app list screen" ▶ [Camera]
- 2 [1
- 3 [COMMON]
- 4 Select an item
 - Full screen: Set whether to use the extended field of the top of the screen on the shooting screen.
 - Clipped whites/Crushed shadows: Set whether to display stripes in the part that clipped whites or crushed shadows occur
 - Water Level: Set whether to display the water level.
 - Focus Setting: Set the focus according to the object.
 - · If you set [Face AF], detect faces of people.
 - Self-timer Display: Set whether to automatically shoot with a self-timer set.

 Apti Flicker: Set to make the screen less susceptible to
 - Anti Flicker: Set to make the screen less susceptible to striped patterns when you shoot in a place with fluorescent lighting.
 - Save To: Set a save destination.
 - Add Location Information: Set whether to add location information.
 - Shutter Sound: Set whether to make a shutter sound, focus lock sound during still image shooting, or start sound/stop sound during video shooting.

- Help: Check the functions of icons displayed on the shooting screen, operations on the touch panel or how to use functions.
- Reset Settings: Reset settings.

Photos

Display, edit, and manage still pictures and videos.

1 In the home screen, display "app list screen" ▶ [Photos]

2 Select data

To move data to the trash: Touch and hold data ▶[iii]▶
[Move to trash]

3 Confirm the data

- When you play videos compatible with Dolby Vision™, the setting for the displaying mode is displayed on detailed information on notifications of status panel. Select your favorite display mode.
- The Photos app can be updated from Play Store. The operating procedures may differ with the latest version. If it has been updated, select [≡] ▶ [Help & feedback] in the Photos screen and check the information.
- Even if you move unnecessary still pictures and videos to the trash, they will not be deleted from the handset. They are deleted from the handset when you empty the trash.

In cases such as when data shot with a handset you used previously is saved in the microSD Card, the "Sort images" notification may be displayed in the detailed notification information on the status panel. If it is displayed, confirm the notification information and then organize the photos.

Select multiple data

- If you touch and hold data in the data list screen, switch to the screen of selecting data. You can select multiple data by touching other data.
- Emptying the trash
- 1 In the Photos screen [≡] ▶ [Trash]
- 2 [i] ▶ [Empty trash] ▶ [Delete]

Displaying composed still pictures

When the still picture shot by the "Camera" app is composed by [Intelligent Framing], [imit] is displayed on the thumbnail of the saved still picture. You can check and switch two pictures, original one and composed one.

1 In the Photos screen, select a still picture

- You can select a thumbnail image and then switch between the original image before correction and the recommended image after correction.
 - · You can delete and edit each still pictures.
 - Select [[[[]]]] [Set as main photo] to set the image to display for the thumbnail of the still picture/video list screen

Playing videos including still pictures

Play videos including still pictures shot during shooting and videos including still pictures shot automatically with Al live shutter.

- You can display a still picture when playing a video and manage still pictures.

In the Photos screen, select a video including still pictures ▶ [Match with image]

- The video plays and the still pictures are displayed at the timing that they were shot.
- Alternatively, select a still picture shot when recording a video [Match with movie] to play a video.
- If you touch [See photos] or swipe up the screen while playing a video, you can check still pictures.

Playing short movies

Play short movies about 15 seconds long that were created by Al live story.

- The thumbnail of a short movie is displayed in a decorated state.
 You can change the pattern of a short movie and then play the
- You can change the pattern of a short movie and then play the short movie.
- Menu items such as [The following patterns] may not be displayed if the video is not saved on the handset. To save it to the handset, select [[⊗]/₈] ▶ [Save to device] during video playback.

1 In the Photos screen, select a short movie

The short movie is played.

2 Touch the playing video ▶ [The following patterns]

- The video plays with the next pattern.
- When you touch the playing video, three patterns are displayed at the bottom of the screen. Touch a pattern to play the video with the touched pattern.
 - Also, if you touch [Save], [<], etc., you can perform operations such as saving and sharing the playing video.

Playing slow videos

The videos shot with slow video can be played smoothly or slowly. [()] is displayed in the thumbnail of the video shot by slow video.

Playing slow videos smoothly

- Play videos shot with slow video in the "Photos" app. If you play on other players, PC, etc., it may not be played properly.
- Set apps to use in [High-speed display] to ON in advance (P.119 "Display").

In the Photos screen, select a video

 When the app selection screen is displayed, select the app to use from among the players installed in the handset previously.

- Playing slow videos slowly
- 1 In the Photos screen, select a video



- Play/Pause
- 2 Slow playback range setting
 - Drag [\sqrt{]/[\sqrt{]} } to set the range for slow playback.
- 3 Playback time
- 4 Photo tools
 - Share and edit data, check the detailed information of data, and delete data in the Photos app.
- 5 Total playback time
- 6 Seek bar

Edit in Atokara Capture

You can trim a still image from the video and save it.

1 In the Photos, select a video

2 [⁸] ▶ [Edit in Atokara Capture]



■ Trimming image

- Touch it to save the frame being displayed as the still picture.
- To frame-by-frame reverse/frame-by-frame forward
 Display a previous/following frame.
- 3 Seek bar
 - Drag the seek bar to change the playback position.
- 4 Thumbnail

5 Display position

- Display the position of the present display frame.
- Drag the thumbnail to change the playback position.

6 Play/Pause

7 Share

 Touch it to carry out trimming image and you can use the saved image in other apps.

Apps

Play Store

By using Google Play, you can download and install useful apps or fun games to the handset.

- In the home screen, display "app list screen" ▶ [Play Store]
 - To display help: [≡] ▶ [Help & feedback]
- Once you agree to installation of an app, you are responsible for the results of using the app. Be very cautious about apps that access many functions or a significant amount of data.
- Be sure to check the security of app, then install it at your own risk. The handset may be infected with a virus, data may be damaged, etc.
- Note that SHARP shall not be liable for each malfunction, or any disadvantage brought to you or any third party due to the user-installed app, etc. provided by a third party including Google LLC.
- For the user-installed Play Store app provided by a third party including Google LLC, contact the respective providers.

Purchasing apps

- 1 In the Google Play screen, select an app to purchase
- 2 Touch the price
 - Follow the instructions on the screen after this step.
 - When the app is free: [Install]
 - If you make a purchase for the first time, select a payment method. You need to sign in to your Google Wallet account depending on the payment method.
 - You can ask for a refund within a specified time after purchasing an app. The app is deleted and you are not charged. In addition, note that a refund request is available for each app only once. If you requested a refund for a purchased app in the past and purchase the same app again, a second refund request is not available. In the Google Play screen, [≡] ► [Help & feedback] for details on the payment method when purchasing an app, the terms on refund requests, etc.

- Some downloaded apps automatically perform packet communication. Note that the packet communication charges may be higher.
- You need to pay for an app only once. Re-downloading apps which you previously uninstalled after first downloading will not be charged.
- If you have multiple Android™ devices that use the same Google account, you can download a purchased app to all of them at no additional cost.
- Note that SHARP provides no assistance for purchase of apps, refund, etc. from Google Play.
- Uninstalling apps
- In the Google Play screen, [≡] ►[My apps & games]
- 2 [Installed]
- 3 Select an app to uninstall
- 4 [Uninstall] ▶ [OK]

GPS/Navigation

You can display Street View and search for routes using Maps. You can also search for facilities near a location on the map being displayed by genre.

Using GPS function

- GPS is a function to retrieve location information of devices by receiving radio wave from GPS satellites. It is necessary to set [Location] to On to measure the present location (ISF P.134 "Location").
- You cannot use the handset as a navigation system for professional use of aircrafts, vehicles, person, etc. or surveying GPS of high accuracy. Note that SHARP shall not be liable for the pure economic losses such as ones caused by using the GPS for these purposes or by failing to confirm a positioning result or to communicate due to handset failure, malfunction or external factors such as power failure (including battery exhaustion).
- GPS is a service administered by the U.S. Department of Defense. Therefore, GPS radio wave condition may be controlled (accuracy degradation, radio wave abort, etc.) for US national security reasons. In addition, the same results may not be retrieved even when positioned in the same location and environment, since the radio wave conditions may change depending on the location of the GPS satellites.

- Note that GPS uses the radio waves from artificial satellites, therefore the following conditions may prevent the radio waves from being received or prevent the reception status of the radio waves from being satisfactory, resulting in an error of 300 m or more for location information.
 - In or under a dense forest, in density area with buildings or residence
 - In or under buildings
 - In a basement, tunnel, underground or underwater
 - Near high-tension line
 - Inside cars, trains, etc.
 - In bad weather with heavy rain/snow, etc.
 - In bags or boxes
 - When people or objects are blocking the handset
 - When hands are covering the GPS antenna area
- When using a GPS function, the displayed map based on the acquired location information (latitude and longitude information) may not be accurate because of the legal system, etc. in each country and the area.
- Packet communication charges may be incurred, since assisted GPS data such as satellite information is automatically retrieved when you measure present location.
- Packet communication charges are incurred when you display a map based on location information, etc.

Maps

You can measure your present location, use the navigation function to check how to get to your destination in detail, etc.

- It is necessary to set [Location] to On to measure the present location (PS P.134 "Location").
- 1 In the home screen, display "app list screen" ▶ [Maps]
- 2 Use Maps
 - To rotate the map: Keep a finger on the touch panel and turn the map to the desired direction with another finger
 - To display sterically: Slide up with your two fingers at the same time
 - To measure present location: [@]
- Street View
- 1 In the Maps screen, touch and hold any place
- 2 Touch a displayed image
 - To change a displayed direction: Slide the screen up/down or to the left/right
 - To move a displayed place: Touch the screen twice and slide along the blue line
 - To switch to the compass mode: [Ø]

- Some areas are not supported by Street View.
- When the compass mode is used, the geomagnetic compass of the handset and the direction displayed by Street View are associated with each other.

Searching for routes

You can search for a route from a start point to an end point.

- 1 In the Maps screen, [GO]
- 2 Select how to get to the end point ▶ touch the search box above
 - The present location is entered while it is being measured.
- 3 Enter a start point
- 4 Touch the search box below
- 5 Enter an end point
 - Follow the instructions on the screen after this step.

Searching for places nearby

You can search for places near a location on the map being displayed.

- 1 In the Maps screen, touch the search box
- 2 Enter a name of place to search ▶ select a search result
 - When you enter the place, the entered place are searched and displayed as a list.
- 3 Use the search result

YouTube

YouTube is a free online video streaming service. You can play, search and upload videos.

- ¶ In the home screen, display "app list screen" ► [YouTube]
- 2 Select a video
 - To display the search box: [Q]

Clock

You can use alarm, world clock, timer and stopwatch.

 Touch [] ▶ [Night mode] or touch and hold the [CLOCK] screen to display a screen saver (current time and date) suitable for a dim environment.

To end the screen saver, touch the screen or press $\[\]$ (Power key).

Alarm

Activate an alarm tone or vibrator at the specified time.

- In the home screen, display "app list screen" ► [Clock] ► [ALARM]
- 2 Touch a time of register destination
 - To add a register destination: []
- 3 Select a time ► [OK]

4 Set each item



- Repeat
 - Set the repetition of the alarm.
- 2 Alarm sound
 - Set the alarm sound.
- 3 Label
 - Enter the label
- 4 Delete
 - Delete the alarm.
- Alarm ON/OFF
 - Enable/Disable the alarm.
- 6 Vibration
 - Set whether to use the vibrator.
- Switch displays

- An alarm is not activated when the handset is turned off at the set alarm time.
- When the set alarm time arrives during a call, the other party's voice and notification sound are heard at the same time.

Stopping an alarm

Activate an alarm tone or vibrator at the set alarm time.

- Slide [] to [] while an alarm is ringing
 - To use a snooze: slide [to [Zzz]

Stopping an alarm while display is turned on

When the set alarm time arrives while a screen other than lock screen of the touch panel is displayed, the alarm notification is displayed. Stop the alarm by using the notification.

- 1 [DISMISS] while an alarm is ringing
 - To use a snooze: [SNOOZE]
- Adjusting an alarm volume
- 1 In the alarm screen, [1] ▶ [Settings]
- 2 Adjust the volume in Alarm volume field

World clock

Display clocks for cities around the world.

- ¶ In the home screen, display "app list screen" ► [Clock] ► [CLOCK]
- 2 [@]
- 3 Select a city

Timer

Activate an alarm tone after the specified length of time passes.

- In the home screen, display "app list screen" ► [Clock] ► [TIMER]
- 2 Enter the time ▶ [○]
 - To add 1 minute: [+1:00]
 - To stop the countdown: [
 - To reset the countdown: [RESET]
 - The alarm sound is activated after the specified length of time passes.
 - To stop the alarm sound: []
 - When the set time of timer arrives while the screen other than lock screen of the touch panel is displayed, the alarm notification is displayed. Stop the alarm by touching [STOP] of the notification. Also, notify with the alarm in a minute after touching [ADD 1 MIN].

- Changing a name
- In the timer screen, [Label]
- 2 Enter a name ► [OK]
- Adding a timer
- 1 In the timer screen, [ADD TIMER]
 - To switch timers: Slide the timer up/down
- Deleting a timer
- 1 In the timer screen, [DELETE]

Stopwatch

You can measure the time using stopwatch. Also, you can measure the lap time (elapsed time)/split time (total elapsed time).

- In the home screen, display "app list screen" ► [Clock] ► [STOPWATCH]
- 2 [0]
 - To measure the lap time and split time: [LAP]
- 3 [0]
 - To share the measuring result: [SHARE]
 - To reset the measuring result: [RESET]
- You can record up to 99 history items of lap time and split time.

Calendar

Use Calendar to manage your schedule.

- Set up an account in advance (PFP.50 "Setting up Google account, etc.").
- 1 In the home screen, display "app list screen" ▶ [Calendar]
 - When you start the function for the first time, an explanation screen is displayed. Follow the instructions on the screen and operate.
- 2 Check schedules



- Switching display
 - Switches the calendar display method.
- 2 Registered schedule
- 3 Display today

- Creating a schedule
- Setting items may differ depending on the account to use.
- In the calendar screen, [⊕] ► [Event]
- 2 Set each item



- 1 Title
- 2 Calendar
- Set the owner of the calendar.
- 3 All-day
 - Changes the All-day setting.
- 4 Start date and time
- 5 End date and time

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- 6 More options
 - Set schedule time zone or repeating.
- 7 Location
- 8 Notification
 - Set how long before the event start date and time to notify.
 - To add a notification setting, touch [Add another notification].
- 9 Invite people
 - Enter the email address of the person you wish to invite.
- Add conferencing
- Default color
 - Set event colors.
- Add note
- **IE** Add attachment
- 3 [Save]

Configuring the calendar

- 1 In the calendar screen, [≡] ▶ [Settings]
- 2 Select an item
 - General: Set general calendar settings.
 - Events from Gmail: Set to automatically add a schedule entry when an email related to an event is received via Gmail
 - When you select Calendar, you can set the event color, default notification, etc.

Deleting a schedule

- Select a schedule entry in the calendar screen.
- 2 [i] ▶ [Delete] ▶ [Delete]

Calculator

- 1 In the home screen, display "app list screen" ▶ [Calculator]
- 2 Calculate
 - To display the scientific calculator: Slide the right edge of operation keys to the left
 - To copy the calculation result: Touch and hold the calculation result > [Copy]
 - To display help: [:] ▶[Help]
 - To display the history of calculation: Slide the calculation result area down.
 - To delete the history of calculation: [] ▶ [Clear] ▶ [Clear]

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Handset Settings

Setting menu

In the home screen, display "app list screen" > [Settings] to display the menu and make various settings for the handset.

- In the top, recommended settings are displayed as suggestions.
- [Q] while Settings is displayed ▶enter a keyword to search with to search the setting items.
- If there are menus which are not displayed touch [Advanced] to display menus.
- The displayed items and layout may differ depending on the usage conditions.

Phone number	Check your phone number registered on the nanoSIM Card.
Network & internet	Make settings for networks such as Wi-Fi function and mobile networks.
Connected	Make settings for Bluetooth function and NFC,
devices	etc.
Apps & notifications	Make settings for apps and notifications.
Battery	Check and set the usage conditions of the
	battery and activate Battery Saver.
Display	Make settings for the screen display, etc.
Sound	You can make settings for the ringtone, notification sound, etc.

AQUOS Useful	Makes settings for convenient functions
	supplied with the handset.
Home	Switch home apps to use.
applications	
Storage	Check the used capacity/total capacity of the
	handset memory, microSD Card or USB
	memory, display the data saved on it, etc.
Security &	Make settings for the security lock and
location	location information.
Accounts	Add/Set accounts or make settings for data
	synchronization.
Accessibility	Make settings for accessibility options.
Digital Wellbeing	Confirm your handset usage habits at a
	glance and create times to spend offline.
Google	You can make settings for various Google
	services collectively.
System	Make settings for system settings such as the
	language displayed on the screen, settings for
	the date, etc.

Network & internet

Make settings for networks such as Wi-Fi function and mobile networks.

In the home screen, display "app list screen" ► [Settings] ► [Network & internet]

2 Select an item

- Wi-Fi: For details (SP P.110 "Wi-Fi"
- Mobile network: For details
 P.112 "Mobile network"
- Proxy settings: Set to connect to the network via proxy.
- Data usage: For details

 P.113 "Data usage"
- Hotspot & tethering: For details on tethering P.114 "Tethering."
- SIM cards: This item can be set when two nanoSIM Cards are inserted. You can enable/disable the inserted nanoSIM Cards and prioritize the nanoSIM Card to be used when using the mobile network, telephone, or SMS.
- Airplane mode: Restrict the use of some functions using communication such as call/mail function.
- VPN: For details ® P.152 "Adding VPN"
- Private DNS: Set a private DNS.

[Airplane mode]

 [Wi-Fi] and [Bluetooth] can be set to ON even when [Airplane mode] is ON.

Wi-Fi

If you use Wi-Fi function of the handset, you can use mail or Internet by connecting to access points of your home, corporate network or public wireless LAN service.

Radio interference with Bluetooth devices

- Wireless LANs (IEEE 802.11b/g/n) use the same frequency band (2.4 GHz) as Bluetooth devices. Therefore, using the wireless LAN device near a Bluetooth device may cause radio interference, lowering of communication speed, noise or connection failure. In this case, turn off the Bluetooth device or keep the handset and the wireless LAN device at least approximately 10 m away from the Bluetooth device.
- Packet communication is also available while [Wi-Fi] is set to On.
 Wi-Fi connection is prioritized while Wi-Fi connection is set, but
 the connection is automatically switched to that of mobile
 network once Wi-Fi connection is terminated. Note that packet
 communication charges may be incurred in this case.
- Refer to the manual of your wireless LAN base unit when using the access point at home, etc.
- Operate access point registration near the access point.

- ¶ In the home screen, display "app list screen" ► [Settings] ► [Network & internet] ► [Wi-Fi]
- 2 Set [Use Wi-Fi] to ON
- 3 Select an access point
 - If you select an access point protected by security, enter the password (security key) and select [CONNECT].
 - To register access points manually: [Add network] ▶ enter the network name ▶ set security ▶ [SAVE]
 - When you touch [Saved networks], the access point that you have accessed is displayed.
- When you connect to Wi-Fi network, [Connected] is displayed.
 When a different message is displayed, make sure the password (security key).
 - When the connection is not established even if you enter a correct password (security key), the correct IP address may not have been acquired. Check the signal status and reconnect.
- As for the manual registration of an access point, this function supports WEP, WPA/WPA2 PSK and 802.1xEAP, Enhanced Open, WPA3 as the security setting.
- If you connect to an access point which is not connected to the Internet, [] is displayed and the communication may be made by mobile networks, not Wi-Fi connection.

- Wi-Fi settings
- In the home screen, display "app list screen" ► [Settings] ► [Network & internet] ► [Wi-Fi] ► [Wi-Fi preferences]
- 2 Select an item
 - Turn on Wi-Fi automatically: Set whether to set [Wi-Fi] to ON when a saved network is detected.
 - Open network notification: Set whether to display a notification icon when an open network is detected.
 - · Set it after setting [Wi-Fi] to On.
 - Install certificates: Install certificates.
 - Network rating provider: Make settings for the network rating provider.
 - Wi-Fi Direct: Make settings for Wi-Fi Direct.
 - MAC address: Confirm the MAC address.
 - IP address: Confirm the IP address.
- Deleting access point settings
- ¶ In the home screen, display "app list screen" ► [Settings] ► [Network & internet] ► [Wi-Fi]
- 2 Select an access point already set ▶ [FORGET]

Mobile network

¶ In the home screen, display "app list screen" ► [Settings] ► [Network & internet] ► [Mobile network]

2 Select a nanoSIM Card

 If two nanoSIM Cards are inserted, touch the tab on the screen top and select the nanoSIM Card you wish to set.

3 Select an item

- Mobile data: Set whether to access data via mobile networks.
- Roaming: Set whether to connect to a data service at the time of roaming.
- App data usage: For details on app data usage P.113 "Data usage"
- Enhanced 4G LTE Mode: Set whether to use VoLTE.
- Preferred network type: Set a network to use.
- Automatically select network: Set whether to automatically detect and switch to an available network.
- Network: When [Automatically select network] is set to OFF, you select a network manually.
- Access Point Names: Set and check an access point.

Setting an access point

Set an access point* to connect to the Internet.

- Access points supported by some network operators have been pre-registered in this handset. When the power is turned ON with a nanoSIM Card inserted, access points are automatically set.
- If a supported access point is not registered in this handset, you can additionally set the access points. After that, upon power ON, the handset will connect to the access point.
- * Depending on the network operator, it is called "APN" or "Access Point Name".
- In the home screen, display "app list screen" ► [Settings] ► [Network & internet] ► [Mobile network]
- 2 Select a nanoSIM Card
 - If two nanoSIM Cards are inserted, touch the tab on the screen top and select the nanoSIM Card you wish to set.
- 3 [Advanced] ▶ [Access Point Names]
 - You can check an access point in use.
- 4 [+]
- 5 [Name] ▶ enter the name of the network profile to create ▶ [OK]
- 6 [APN] ▶ enter the access point name ▶ [OK]
- 7 Enter other items required by network operators
 ▶[:]▶[Save]

Resetting an access point

Reset the access point settings to the default state.

- ¶ In the home screen, display "app list screen" ► [Settings] ► [Network & internet] ► [Mobile network]
- 2 Select a nanoSIM Card
 - If two nanoSIM Cards are inserted, touch the tab on the screen top and select the nanoSIM Card you wish to set.
- 3 [Advanced] ▶ [Access Point Names]
- 4 [:] ▶ [Reset to default]
- If you fail to make automatic setting of an access point due to signal status such as outside the service area, you are required to set the access point again manually.

Data usage

You can check the data usage volume via mobile networks or Wi-Fi networks. Also, you can set limit.

- 1 In the home screen, display "app list screen" ▶ [Settings] ▶ [Network & internet] ▶ [Data usage]
 - The data communication volume via mobile networks is displayed.
 - When two nanoSIM Cards are inserted, the mobile network settings are displayed for the respective nanoSIM Card.

2 Select an item

- Data Saver: Suppress the data usage volume by pausing data transmission in the background of some apps.
 - For apps whose data communication is not restricted even during Data Saver, you can set it from [Unrestricted data].
- Mobile data: Set whether to use the data communication via mobile networks
- App data usage: Display the data usage volume via mobile networks on a diagram. Also, you can check apps having used data communication.

 Data warning & limit: For the data usage volume via mobile networks, set for the date of starting to measure or data communication volume for generating alert on a monthly basis.

Also, if you set [Set data limit] to ON, you can pause the data communication when the data communication volume reaches to the limit. You can set the limit in [Data limit].

- When the data usage volume reaches to the limit, the notification that mobile data is being paused is displayed.
 Touch [OK] to stop data communications until the next measurement start day. Touch [RESUME] to resume data communication.
- Wi-Fi data usage: Display the data usage volume via Wi-Fi networks on a diagram. Also, you can check apps having used data communication.
- The displayed data communication volume is an approximation.

Tethering

You can use the tethering function that connects Wi-Fi compatible devices, or PCs, etc. connected via USB cable or Bluetooth communication to the Internet by using the handset as an access point.

- You can connect up to 15 devices in total at the same time: a PC connected via USB cable, 10 Wi-Fi compatible devices and four Bluetooth devices.
- Before using Bluetooth tethering, register the other party's Bluetooth device in advance (FFP.144 "Using Bluetooth function"). As for the settings on the Bluetooth device, refer to its manual.
- Using tethering will lead to higher packet communication charges. We recommend you consult with your network operator.
- ¶ In the home screen, display "app list screen" ► [Settings] ► [Network & internet] ► [Hotspot & tethering]
- 2 Select an item
 - Wi-Fi hotspot: Set whether to use the Wi-Fi tethering. Also, you can set the network name, security, password, and other settings and set whether to turn tethering off when the handset is not connected.
 - USB tethering: Set whether to use the USB tethering.
 - Bluetooth tethering: Set whether to use the Bluetooth tethering.

[Wi-Fi hotspot]

- While the handset is functioning as an access point, it cannot access the Internet via Wi-Fi connection.
- At the time of purchase, Network name is set to [AQUOS R3] and Security is set to [WPA2 PSK] while Password is set randomly. Change the settings if necessary.
- For details on Wi-Fi tethering, refer to the following website. http://www.android.com/tether#wifi

[USB tethering]

- The tethering function is available when OS of PCs is Windows 8.1 or Windows 10.
- A microSD Card inserted in the handset cannot be mounted on a PC during USB tethering.
- For details on USB tethering, refer to the following website. http://www.android.com/tether#usb

Connected devices

Make settings for Bluetooth function and NFC, etc.

- ¶ In the home screen, display "app list screen" ► [Settings] ► [Connected devices]
- 2 Select an item

 - Previously connected devices: Set the names and use purposes of paired Bluetooth devices.
 - Connection preferences: For details on the connection preferences (P.116 "Connection preferences".

Connection preferences

1 In the home screen, display "app list screen" ▶ [Settings] ▶ [Connected devices] ▶ [Connection preferences]

2 Select an item

- Bluetooth: For details ® P.142 "Bluetooth® function"
- NFC: Set whether to use NFC communication.
 - For details on NFC communication P.146 "NFC communication"
- Android Beam: Set whether to use Android Beam.
 - For details on Android Beam P.146 "Android Beam"
- Cast: For details (P.151 "Cast"
- Printing: Install a print app (plug-in) and print with an app supporting the print function.
- Received files: Display the history of data received via Bluetooth connection.
- Chromebook: Set a connection with Chromebook™.

Using a print app (plug-in)

You can make settings for the installed print app (plug-in).

- Install a print app (plug-in) supporting a printer to use in advance
- In the home screen, display "app list screen" ► [Settings] ► [Connected devices] ► [Connection preferences] ► [Printing]
- 2 Select a print service

 Follow the instructions on the screen and operate after this step.

Apps & notifications

You can make settings for app notifications.

- In the home screen, display "app list screen" ► [Settings] ► [Apps & notifications]
- 2 Select an item
 - Recently opened apps: For details on recently opened apps and app information P.117 "App info"
 - Time spent in apps: Check the usage times of apps and the maximum time that each app can be used in one day.
 - Notifications: Make settings for app notifications.
 - Default apps: Set up an app to activate in default.
 - App permissions: For details P.63 "Setting functions to use"
 - Emergency alerts: Set the emergency alert email.
 - Special app access: Make settings for the special app access such as Battery optimization and changing system settings.

Notifications on the lock screen

You can set for notifications to be displayed on the lock screen of the touch panel.

- 1 In the home screen, display "app list screen" ► [Settings] ► [Apps & notifications]
- 2 [Notifications]

3 [On lock screen] ▶ select an item to display/hide notifications

- When selecting [Hide sensitive content], you can set not to display details such as the other party's phone number or the number of notifications in the lock screen.
 - You can use this item when Screen lock is set to an item other than [None] or [Swipe].

4 []/[] of [Organize notifications on the lock screen]

 If you set it to ON, notifications you have checked already in the lock screen are hidden and allow you to see new notifications easily. However, notifications which cannot be deleted are not hidden. Alternatively, detailed information on notifications of status panel are not deleted due to this function.

■ Tap & pay

Set to use a payment app.

- In the home screen, display "app list screen" ► [Settings] ► [Apps & notifications] ► [Advanced] ► [Default apps] ► [Tap & pay]
 - Mechanism confirmation: [] ▶ [How it works]

2 Select an item

- Payment default: Set the payment app that starts by default.
- Use default: Set when the payment app is used.

App info

You can check names, memory usage, versions, etc. of apps, enable/disable apps, uninstall them, etc.

- ¶ In the home screen, display "app list screen" ► [Settings] ► [Apps & notifications]
- 2 [See all XX apps] ▶ select an app
 - If the app to be used is displayed in the [Recently opened apps] field, you can also select the app to use it.

Disabling an app

Terminate operations of an app and set it not to be displayed on the home screen without uninstalling it.

- You can disable apps which cannot be uninstalled.
- In the home screen, display "app list screen" ▶
 [Settings] ▶ [Apps & notifications]
- 2 [See all XX apps] ▶ select an app
- 3 [DISABLE] ▶ [DISABLE APP]
- If you disable an app, other apps which link up with the disabled app may not work properly. In this case, enable the app.

- Enabling an app
- In the home screen, display "app list screen" ► [Settings] ► [Apps & notifications]
- 2 [See all XX apps] ▶ select an app
- 3 [ENABLE]

Battery

Check and set the usage conditions of the battery and activate Battery Saver.

- In the home screen, display "app list screen" ► [Settings] ► [Battery]
- 2 Select an item
 - Battery Saver: For details ® P.118 "Battery Saver"
 - Adaptive Battery: Set whether to automatically adjust battery usage for apps that are used infrequently.
 - Battery percentage: Set whether to display the battery level as a percentage on the status bar.
 - Last full charge: Check the amount of time that has elapsed since the last full charge.
 - Screen usage since full charge: Check the battery usage time since a full charge.

 If Battery optimization is carried out, the apps are set not to work while the display is turned off (except while charging) because of saving the battery consumption of each app. For details on the settings of Battery optimization P.64
 "Setting Battery optimization"

Battery Saver

You can save the battery consumption by restricting the functions of the handset.

- In the home screen, display "app list screen" ► [Settings] ► [Battery] ► [Battery Saver]
- 2 Select an item
 - Turn on automatically: Set whether to automatically switch Battery Saver to ON when the battery level is less than the set battery level. The battery level setting can be set on the bar displayed when this setting is ON. Furthermore, [Battery Saver] can be set to ON or OFF regardless of the battery level by touching [TURN ON NOW] or [TURN OFF NOW].
 - Minimize display brightness: Set whether to minimize the brightness of the display when Battery Saver is ON.
 - Control display smoothness: Set whether to control the display smoothness operation when Battery Saver is ON.
- When you start charging, Battery Saver is set to OFF.

Display

You can make settings for the screen display, etc.

In the home screen, display "app list screen" ► [Settings] ► [Display]

2 Select an item

- Brightness level: Adjust brightness of the screen by dragging a brightness adjust bar.
- Adaptive brightness: Set whether to automatically adjust brightness of the backlight. When not automatically adjusting, set the brightness manually.
- Sleep: Set the light duration of the backlight.
- Wallpaper: Set an image for the home screen and the lock screen of the touch panel.
 - If you set [Lock Photo Shuffle] to ON, an image for the lock screen of the touch panel is automatically switched every time the display is turned on.
- Font size: Make settings for the text size.
- Display size: Set icons size, etc. displayed on the screen.
- Hide navigation bar: Set whether to hide the navigation bar.
 - If this is set to ON, you can display the navigation bar by swiping upward from the bottom of the screen.
- High-speed display: Set whether to display apps smoothly.
- Illumination: For details

 P.120 "Illumination"
- RelaxView: For details on RelaxView ® P.121 "RelaxView".
- VeilView: For details ® P.121 "VeilView"
- Outdoor view: Set an image quality suitable for easy viewing under bright sunlight.

- Screen saver: Set whether to use the screen saver.
- Ambient display: For details on ambient display

 P.122

 "Ambient display."
- Device theme: Set the handset theme (status panel background color, etc.).
 Basic settings: Set the basic picture quality for displaying on
- the display.
- HDR video: Set the image quality of HDR video.
- Virtual HDR: Set whether to display standard video with image quality similar to that of HDR video.
- Hakkiri View: Set whether to display the screen clearly when text and maps are difficult to see.
- Auto-rotate screen: Set whether to rotate the contents of the screen when rotating the handset.
- glove mode: Set whether to make it possible to operate by touching the screen while wearing a glove.

[Brightness level]

Note that the continuous stand-by time is shortened when increasing the brightness of the display.

[Sleep]

 Note that the continuous stand-by time is shortened when increasing the light duration.

[Font size]

 Font may not appear correctly when activating an app downloaded from Google Play, etc.

[High-speed display]

- Some apps may not obtain the effect. In this case, set it to OFF.
 Also, the effect may not be obtained depending on the battery level or handset temperature.
- If you change the setting while activating the app, it may not work properly.

In this case, end the app once.

[Auto-rotate screen]

- This function may not follow the setting depending on the app in use.
- When this function is set to OFF, the screen display does not rotate even if the handset is rotated, and [] is displayed on the navigation bar. If you touch [], the screen display rotates.

[glove mode]

- Touching operation may not be available depending on materials for the glove.
- Set [glove mode] to OFF when you are not wearing gloves or are using the handset in a bathroom.

Illumination

The light performance is displayed on the screen when receiving a call, charging starts, etc.

- In the home screen, display "app list screen" ► [Settings] ► [Display] ► [Advanced] ► [Illumination]
- 2 Set to On
- 3 Select an item
 - For incoming call: Set whether to activate Illumination when receiving a call.
 - Illumi pattern/color for incoming call: Make settings for a flashing pattern or a flashing color of Illumination for when receiving a call.
 - When start charging: Set whether to activate Illumination when charging starts.
 - When unlocking: Set whether to activate Illumination when unlocking the touch panel.
 - When ending a call: Set whether to activate Illumination when ending a call.

RelaxView

Make settings for using picture quality that is easy on the eyes.

- In the home screen, display "app list screen" ►
 [Settings] ► [Display] ► [Advanced] ►
 [RelaxView]
 - [RelaxView] can be set to ON or OFF by touching [TURN ON NOW] or [TURN OFF NOW]. When [Schedule] is set, the display is switched to match the setting of [TURN ON NOW]/ [TURN OFF NOW].

2 Select an item

- Intensity: Adjust the intensity for when [RelaxView] is ON.
- Schedule: Set whether to set [RelaxView] to ON at a custom time. When this is set to [Turns on at custom time], you can set [Start time] and [End time].
- Even if [RelaxView] is set to ON, the screen is displayed as the
 usual quality when using camera.
 However, when activating Photos or displaying previous still
 pictures/videos from the shooting screen, the screen is
 displayed as the RelaxView quality.

VeilView

You can prevent others from seeing the display.

- In the home screen, display "app list screen" ► [Settings] ► [Display] ► [Advanced] ► [VeilView]
- 2 Select an item
 - VeilView: Set whether to switch [VeilView] to ON.
 - Pattern setting: Set the display pattern.
 - Density setting: Make an adjustment for the effect (shading) to prevent others from seeing the display.

[VeilView]

[VeilView] is set to OFF if the power is turned off.

[Pattern setting]

 The effect of preventing others from seeing may differ depending on the selected patterns.

Ambient display

Set the display and operation for when the screen is off.

¶ In the home screen, display "app list screen" ► [Settings] ► [Display] ► [Advanced] ► [Ambient display]

2 Select an item

- Clock display ON: Set whether to display the time, notification icons, and other information even when the display is off.
- Double-tap to check phone: Set whether to display the time, notification icons, and other information by touching the screen twice while it is turned off.
- New notifications: Set whether to turn the screen on when a notification is delivered.

Sound

You can make settings for the ringtone, notification sound, etc.

- In the home screen, display "app list screen" ► [Settings] ► [Sound]
- 2 Select an item
 - Media volume: Set the volume of the media sound (music, video, etc.).
 - Call volume: Set the volume during calls.
 - Ring volume: Set the volume of the ringtone.
 - Alarm volume: Set the volume of the alarm.

- Also vibrate for calls: Set whether to activate the vibrator when receiving a call.
- Do not disturb: For details on Do not disturb 🖾 P.57 "Advanced settings of manner mode"
- Prevent ringing: Set the operation for when ①(Power key) and ①(+) are pressed at the same time while the ring tone is sounding.
- Phone ringtone: Set the ringtone.
- Default notification sound: Set the notification sounds.
- Default alarm sound: Set the alarm sounds.
- Advanced settings: For details P.123 "Setting Dolby Atmos®"
- Dial pad tones: Set whether or not to enable dialing sounds.
- Screen locking sounds: Set whether or not to enable operation sounds when locking/unlocking the touch panel.
- Charging sounds: Set whether to enable sounds when charging is started.
- Touch sounds: Set whether or not to enable operation sounds when touching menus, etc.
- Touch vibration: Set whether to activate the vibrator when touching the keys displayed on the navigation bar.

Setting Dolby Atmos®

When Dolby Atmos is turned on, you can enjoy 3D sound effects by the content of Dolby Atmos.

Also, for contents other than those of Dolby Atmos, it gives sound effects to the media sound, ringtone and alarm sound excluding playable high resolution sound.

- 1 In the home screen, display "app list screen" ► [Settings] ► [Sound] ► [Advanced] ► [Advanced settings]
- 2 Set each item
 - You can switch Dolby Atmos to be turned on (blue)/off (gray) every time you touch [(L)].
 - You can switch the profile to use by touching [DYNAMIC]/ [MOVIE]/[MUSIC]/[CUSTOM].
 - Touch [5] displayed on the right side of the profile name to reset each profile setting to the default status.

AQUOS Useful

Make settings for convenient functions supplied with the handset.

- In the home screen, display "app list screen" ► [Settings] ► [AQUOS Useful]
- 2 Select an item
 - High-speed display: For details

 P.119 "Display"
 - Rich color technology Mobile: A collection of functions provided to set the optimal image quality to match the intended use. For details on each function P.119 "Display".
 - Fingerprint sensor: For details P.131 "Fingerprint authentication"
 - ScrollAuto: For details ® P.124 "ScrollAuto"
 - Clip Now: For details
 P.124 "Clip Now"
 - Auto sleep Off: For details

 P.125 "Auto sleep Off"

ScrollAuto

You can automatically scroll the screen such as a website being displayed upward/downward.

- In the home screen, display "app list screen" ► [Settings] ► [AQUOS Useful] ► [ScrollAuto]
- 2 Select an item
 - ON/OFF: Set whether to use ScrollAuto.
 - Set Apps: Set apps to apply activation of ScrollAuto.
 - Notify in status bar: Set whether to notify by notification icon when the applicable app is running.
- Scrolling the screen automatically
- 1 Drag the screen in the direction to scroll ▶ put your finger on the displayed arrow and put it off
 - Put your finger off to start scrolling.
 - Operate it for approximately 5 minutes to stop scrolling.
 - To adjust the scroll speed: [+]/[-]
 - To stop scrolling: Touch the screen
- If your drag speed is too fast, the arrow is not displayed.
- Depending on the position of the screen, even if you release your finger, the screen may not be scrolled automatically.
- While the screen is scrolled automatically, [] is displayed on the left edge of the screen and indicate the movement of the scroll

Clip Now

You can shoot the screen being displayed as an image (screenshot) by tracing the edge of the screen with your finger.

- ¶ In the home screen, display "app list screen" ► [Settings] ► [AQUOS Useful] ► [Clip Now]
- 2 []/[] of [Clip Now]
- 3 Select an item
 - Clip Now: Set the tracing direction.
 - Help: Display the explanation of Clip Now.
- Data may not be saved completely or partially depending on the app.
- Shooting screenshots
- Display the screen you wish to save on the display ▶ trace the edge of the screen
 - The screen is traced in the direction set in [Clip Now].

Auto sleep Off

Make settings for the display when lifting or holding the handset with your hand.

¶ In the home screen, display "app list screen" ► [Settings] ► [AQUOS Useful] ► [Auto sleep Off]

2 Select an item

- Turn screen on by holding: Set whether to turn the display on after you lift the handset and keep it stationary while the display is turned off.
- Bright Keep: Set whether to set the display not to be turned off while holding the handset with your hand.

[Turn screen on by holding]

- This function is enabled by default.
- In the following cases, etc., the display may not be turned on.
- When you are moving with the handset held (while getting in a car)
- When you keep the handset moving before or after lifting it
 When you lift the handset vertically or horizontally

[Bright Keep]

 If you do not move or operate the handset for a certain period of time, the display may be turned off even while Bright Keep is set and you are holding the handset with your hand.

Storage

You can check the used capacity/total capacity of the handset memory, microSD Card or USB memory, display the data saved on it, etc.

- For details on managing saved data P.140 "Operation of files"
- 1 In the home screen, display "app list screen" ► [Settings] ► [Storage]
 - The used capacity/total capacity of the handset memory, microSD Card or USB memory are displayed.
 - If the microSD Card or USB memory is not inserted, the details screen of the used capacity on the handset memory is displayed.

2 Select a storage

- Select [Internal shared storage] to display the details screen
 of the used capacity on the handset memory. Select [Files]
 in the details screen to display the data list saved on the
 handset memory.
- Select [SD card] or the name of USB memory to display the data list saved on it.
- To unmount the microSD Card or USB memory: [▲] of [SD card] or the name of USB memory.
- To mount the microSD Card or USB memory: Select [SD card]/name of USB memory ▶ [MOUNT]

Formatting microSD Card/USB memory

You can format the microSD Card or USB memory.

- ¶ In the home screen, display "app list screen" ► [Settings] ► [Storage]
- 2 Select [SD card]/name of USB memory
- Flick the menu of Contents Manager to the left ► [1] ► [Storage settings] ► [Format] ► [FORMAT SD CARD]/[FORMAT USB DRIVE]
- 4 [DONE]
- Note that all the data on the microSD Card or USB memory will be deleted when formatted.

Encrypting/Decrypting microSD Card

If you encrypt the microSD Card, data on the microSD Card is not available in the devices other than the handset used for encrypting it.

You need to decrypt the microSD Card to use it as usual.

- Carry out the operations while charging the battery with its battery level still left sufficiently.
- Set Screen lock to [Lock No. (PIN)] or [Password] in advance.
 - For details on Screen lock P.127 "Security & location"

- In the home screen, display "app list screen" ► [Settings] ► [Storage]
- 2 [SD card]
- 3 Flick the menu of Contents Manager to the left ▶[計]▶[Storage settings]▶[Encrypt]/[Release encryption]▶[CONFIRM]
 - Unlock the screen by method set in Screen lock.
- 4 [START]
- When the available space on the microSD Card is insufficient, encryption/decryption is not available.
- Note that when you have carried out [Erase all data (factory reset)] with the microSD Card encrypted, you cannot use the data on the microSD Card. Decrypt it before carrying out [Erase all data (factory reset)].
- If you insert an unencrypted microSD Card into the handset that has been used for encrypting another microSD Card, the handset can only read data on it.
- The handset can write data into the read-only microSD Card after encrypting the microSD Card.
- Encrypting/Decrypting a microSD Card may take time. Do not stop charging the battery or do not remove the microSD Card while it is being encrypted. Data on it may be lost if the encryption is interrupted.

Security & location

You can make settings for the security lock and location information.

- ¶ In the home screen, display "app list screen" ► [Settings] ► [Security & location]
- 2 Select an item
 - Google Play Protect: Make settings for the scan function which detects unauthorized operations on apps and the handset.
 - Find My Device: Set whether to make it possible to detect location information of the handset, unlock the touch panel and carry out [Erase all data (factory reset)] by remote control of a Google account.
 - Security update: You can check the latest status of security system updates. For details on security updates

 P.160
 "System update"
 - Screen lock: Make settings for the unlock method of the touch panel for when the power or display is turned on or the lock operation of the touch panel.

 - Face authentication: Register your face to use for face authentication. Register your face to unlock Screen lock by face authentication as well. For details on face authentication

 ③ P.129 "Face authentication"

- Fingerprint: Register your fingerprint to use for fingerprint authentication. Register your fingerprint to unlock Screen lock by fingerprint authentication as well. For details on fingerprint authentication (ﷺ P.131 "Fingerprint authentication"
- Smart Lock: Set the to unlock the touch panel by swiping when Screen lock is set to an item other than [None] or [Swipe] and the handset confirms the trusted places, devices, etc.
- Location: For details

 P.134 "Location"
- Visible passwords: When you enter the PIN code, etc., you can display the entered characters before they turn into [·].
- Device admin apps: Set a device management function of apps. Some apps may not be available if the device management function is disabled.
- Set up SIM card lock: For details P.52 "Setting the PIN code"
- Encryption & credentials: Check the encryption state of the smartphone and make settings for credentials.
- Trust agents: Make settings for apps (agents) that unlock the touch panel.
- Screen pinning: Restrict the use of apps other than selected one. For details on the operation method PP P.60 "Recent Apps"

[Screen lock]

- The following items can be set.
 - None: The lock screen of the touch panel is not displayed.
 - Swipe: Set the touch panel to be unlocked by swiping [] up.
 - Pattern: Set a pattern which forms by linking four or more dots.
 - Lock No. (PIN): Set four- to sixteen-digit number.
 - Password: Set four to sixteen alphanumerics or half-width symbols.
 - · Some half-width symbols are not available.
- If you set Screen lock to [Pattern]/[Lock No. (PIN)]/[Password], the unlock screen may be displayed when making various settings. If the unlock screen is displayed, unlock the screen by the method you have set.
- If you have registered the fingerprint, unlock the screen by fingerprint authentication as well.
 - If you fail in fingerprint authentication five times continuously, you cannot unlock the screen by the fingerprint for a certain period of time. Try again later or unlock the screen by method set in Screen lock.

- If you enter the wrong [Pattern]/[Lock No. (PIN)]/[Password], you will not be able to unlock the screen for a certain period of time according to how many times you have entered wrong pattern, lock number, or password.
 - Five times in a row: 30 seconds
 - 10 times in a row: 30 seconds
- After you have entered wrong patterns 10 times in a row, you cannot enter the pattern for 30 seconds each time you enter wrong patterns. Once you unlock the screen, the count is reset.
- You can set the following items by touching [the settings in the settings in the settings in screen lock.
 - Make pattern visible: Display tracks of the entered pattern with line.
 - Automatically lock: Set how long it takes the touch panel to be locked.
 - Power button instantly locks: Set whether to lock the touch panel regardless of the time set in Automatically lock when you turn off the display by pressing ①(Power key).
 - Lock screen message: Set for the message to be displayed on the lock screen of the touch panel.
- If you forget the [Pattern]/[Lock No. (PIN)]/[Password], contact the support phone number listed on the Warranty Card.

[Smart Lock]

When using Smart Lock, touch the unlock icon such as [] in the lock screen of the touch panel to temporarily disable Smart Lock.

[Encryption & credentials]

- If you delete a certificate, you cannot refer to the certificate from [Trusted credentials] but it can be referred to from other functions. If you want to delete the certificate completely, carry out Clear credentials
- If you touch [Clear credentials], settings for VPN are also deleted.

Face authentication

Face authentication is an authentication function to recognize the face of the owner.

You can unlock the touch panel, etc.

Cautions when using face authentication function

- To enable face authentication to be implemented in the optimal manner, be careful with regard to the following points when registering your face.
 - Register your face in a bright location. However, do not register your face in a backlit location.
 - Ensure that your face is not covered by clothing, hair, sunglasses, mask, etc.
 - Shoot a picture of your face while your entire face is inside the frame of the registration area and while making sure you do not move your head or close your eyes.
- When performing face authentication in the lock screen, be careful with regard to the following points.
 - The face authentication success rate may decrease in extremely dark or bright locations or in backlit locations.
 - If your entire face or a part of your face is covered with clothing, hair, sunglasses, mask, etc., the face authentication success rate may decrease.
 - Unlocking may also be possible using a person or object that resembles you.

Registration of face

Register your face data to use for face authentication.

- You can only register one face.
- Set Screen lock to an item other than [None] or [Swipe] in advance (FP.127 "Security & location").
- 1 In the home screen, display "app list screen" ▶ [Settings] ▶ [Security & location] ▶ [Face authentication]
 - Unlock the screen by method set in Screen lock.

2 [NEXT]

- You can add a check to [Make the function available to light up the screen by lifting up.] and enable [Turn screen on by holding] (PP.125 "Auto sleep Off").
- 3 Check the information ▶ [OK]
- 4 Display the face to register in the screen
- 5 Select the timing of face authentication ▶ [OK]
 - If you select [As soon as you see], face authentication is performed in the lock screen of the touch panel or in the screen after swiping [<a>[] up in the lock screen of the touch panel, whereas if you select [After you see what is displayed on the screen], face authentication is performed in the screen after swiping [] up in the lock screen of the touch panel.
 - Note that if Screen lock is set to [None] or [Swipe], registered face is deleted.

Managing face authentication

When a face is registered, you can perform operations such as deleting the face data.

- In the home screen, display "app list screen" ► [Settings] ► [Security & location] ► [Face authentication]
 - Unlock the screen by method set in Screen lock.
- 2 Managing face authentication
 - Deleting registered face data: [Deletion of face data] ▶ [YES]
 - Touch [Registration of face data] after deletion to register face data
 - Changing the timing of face authentication: Select the timing of face authentication
 - Checking details on face authentication: [:] ▶ [Face authentication]
- Using face authentication function
- 1 Look at the display in the screen at the timing set for face authentication

Fingerprint authentication

Fingerprint authentication is an authentication function that is operated by touching the fingerprint sensor with a finger. You can unlock the touch panel, etc.

Cautions when using fingerprint authentication function

- Fingerprint authentication is carried out using characteristics information of a fingerprint image. If your fingerprint image has only a few characteristics information, you may not be able to use fingerprint authentication.
- Authentication performance (performance for authenticating your fingerprint when you touch the fingerprint sensor with your finger properly) depends on your usage of the handset. If your finger is in any of the following conditions, registration of a fingerprint may be difficult or authentication performance may degrade. You may be able to improve authentication performance when you deal with the situations according to the conditions of your finger such as by washing or drying your hands or putting another finger.
 - Your finger gets wrinkled after taking a bath, etc.
 - Your finger is dry
 - The grooves of your fingerprint are filled up with sweat or fat on your finger
 - Your finger is dirty with mud or grease
 - Your finger is wet with sweat, etc.
 - Your finger is rough or injured (cut, inflammation, etc.)
 - Your fingerprint is faint by attrition
 - The shape of your fingerprint has changed because you get fat or thin

- The surface condition of your finger is extremely different from when you have registered your fingerprint
- Personal authentication and identification are not completely guaranteed by fingerprint authentication technology. Note that SHARP shall not be liable for any damage incurred due to a misuse by a third party and what you have not been able to use the handset

Cautions when using fingerprint sensor

- Do not let the handset hit or subject to strong impacts. May cause a malfunction or damage. Do not scratch the surface of the sensor or poke it with a pointed object such as a ballpoint pen or pin.
- Do not put a sticker, etc. on the surface of the fingerprint sensor or daub it with ink, etc.
- If dust such as dirt or fat adheres to the sensor, reading of a fingerprint may be difficult or authentication performance may degrade. Occasionally clean the surface of the fingerprint sensor.
- Your fingerprint cannot be authenticated properly if it is too fast to release your finger. Release the finger after the fingerprint is authenticated.
- If you start registration or authentication of your fingerprint while touching the fingerprint sensor with your finger, you may not be able to activate the function. Release your finger and try again.

Registration of fingerprint

You can register your fingerprint used for fingerprint authentication.

You can register up to five fingerprints.

- If fingerprint sensor fails to read your fingerprint, you may be able to improve the authentication performance by using another finger.
- Set Screen lock to an item other than [None] or [Swipe] in advance (PS P.127 "Security & location").
- ¶ In the home screen, display "app list screen" ► [Settings] ► [Security & location] ► [Fingerprint]
 - Alternatively, in the home screen, display "app list screen" ▶
 [Settings] ▶ [AQUOS Useful] ▶ [Fingerprint sensor] ▶
 [Register] to set Fingerprint.

2 [NEXT]

Unlock the screen by method set in Screen lock.

3 [NEXT]

- 4 Touch the fingerprint sensor with your finger ball
 - For registering the wide range of the fingerprint, touch it repeatedly while shifting the touching position gradually.
 - Register your fingerprint to unlock Screen lock by fingerprint authentication as well
 - If fingerprint authentication is not available, unlock the screen by method set in Screen lock.

5 [DONE]

- If you continue to register another fingerprint, select [Add fingerprint].
- Note that if Screen lock is set to [None] or [Swipe], registered fingerprints are deleted.

Managing fingerprints

You can add and delete fingerprints, or change registered names.

- In the home screen, display "app list screen" ► [Settings] ► [Security & location] ► [Fingerprint]
 - Alternatively, in the home screen, display "app list screen" ▶
 [Settings] ▶ [AQUOS Useful] ▶ [Fingerprint sensor] ▶
 [Register] to set Fingerprint.
 - Unlock the screen by method set in Screen lock.

2 Manage fingerprints

- To add a fingerprint: [Add fingerprint] ▶ follow the instructions on the screen and operate.
- To change a registered name: Touch the registered fingerprint ▶ enter the name ▶ [OK]
- To delete a registered fingerprint: [iii] of the registered fingerprint ▶ [YES, REMOVE]
- Using fingerprint authentication function
- While the display is turned off/In the lock screen of the touch panel/In the fingerprint authentication screen, touch the fingerprint sensor with your finger ball
 - When you operate it while the display is turned off, the touch panel is unlocked and the display is turned on.
 - If your fingerprint cannot be authenticated properly, release it from the fingerprint sensor and try again.

Using as Home key

You can use the fingerprint sensor as Home key. Alternatively, you can turn the display on by touching the fingerprint sensor while the display is turned off.

- Even if you have not registered the fingerprint or you touch with a finger different from the registered one, you can use it as Home key.
- When you have not registered the fingerprint, the display is turned on by touching the fingerprint sensor while the display is turned off.

When you have registered the fingerprint and touch the fingerprint sensor with a finger different from the registered one, the display is not turned on.

In the home screen, display "app list screen" ► [Settings] ► [AQUOS Useful] ► [Fingerprint sensor] ► [Use as Home Key]

Using Back key/Recent apps key

Tracing the fingerprint sensor allows you to use it as a Back key or Recent apps key.

- Set [Use as Home Key] to ON in advance.
- In the home screen, display "app list screen" ► [Settings] ► [AQUOS Useful] ► [Fingerprint sensor] ► [Use Back key/Recent apps key] ► []/[]
 - Touch [Use Back key/Recent apps key] to change the tracing direction.

Hiding the navigation bar

Set whether to hide the navigation bar.

- If this is set to ON, you can display the navigation bar by swiping upward from the bottom of the screen.
- ¶ In the home screen, display "app list screen" ► [Settings] ► [AQUOS Useful] ► [Fingerprint sensor] ► [Hide navigation bar]

Location

Make settings for measuring location information.

- In the home screen, display "app list screen" ► [Settings] ► [Security & location] ► [Location]
- 2 Set [Use location] to ON
- 3 Select an item
 - App-level permissions: Make settings for apps that the use of location information is permitted.
 - Scanning: Set whether the location information services or apps scan Wi-Fi networks or Bluetooth devices to improve the location information.
 - Set it to ON to scan them even if [Wi-Fi] or [Bluetooth] is Off.
 - You can use Google's location information service if you have registered your Google account on the handset.
 - If there are recent location requests, touch one of them to check the information on the app.
- It is necessary to set [Location] to On to measure the present location. Some apps require that settings be made for location information using the app.

Accounts

For details on setting your Google and other accounts P.50 "Setting up Google account, etc."

Synchronizing data

You can synchronize data between the handset and online services. You can access the same personal information as those stored in online services from the handset and PC, and you can use and update data by synchronizing them.

When synchronizing automatically

Set whether to automatically synchronize items set in each account.

- In the home screen, display "app list screen" ► [Settings] ► [Accounts]
 - To set items to synchronize: Select an account type ▶
 [Account sync] ▶ select an item
- 2 [Automatically sync data] ▶ [OK]
- Register a Google account in advance when you synchronize the phonebook of the handset memory with contacts on the online services even if you synchronize with an account other than Google account.

When synchronizing manually

- When [Automatically sync data] is set to OFF, you can synchronize selected items manually.
- In the home screen, display "app list screen" ► [Settings] ► [Accounts]
- 2 Select an account type ▶ [Account sync]
- 3 Select items to be synchronized

Accessibility

You can make settings for accessibility options.

- In the home screen, display "app list screen" ► [Settings] ► [Accessibility]
- 2 Select an item
 - Volume key shortcut: Set whether the accessibility functions can be enabled quickly.
 - Text-to-speech output: Make settings for the voice for reading the characters displayed on the handset.
 - Font size: Set the font size
 - Display size: Set the icon size displayed on the screen, etc.
 - Magnification: Set whether to zoom in/out the screen by touching the display three times or [].
 - Color correction: Make settings for the adjustment of colors displayed on the screen.
 - Color inversion: Set whether to invert colors displayed on the screen.

- Large mouse pointer: Set whether to display the pointer in large size.
- Remove animations: Set whether to omit animations in the display.
- Dwell timing: Set the operation when the pointer is stopped.
- Power button ends call: Set whether to end a call by pressing ((Power key).
- Auto-rotate screen: Set whether to rotate the contents of the screen when rotating the handset.
- Touch & hold delay: Set how long you need to keep touching.
- Vibration: Set whether the vibrator operates when a call or notification is received or a touch operation is performed.
- Mono audio: Set whether to integrate channels when playing audio.
- Captions: Make settings for captions to display.
 - High contrast text: Set whether to display text colors on the handset in high contrast.
 - For details on using other accessibility services, follow the instructions on the screen.

[Power button ends call]

 If the display is turned off according to the setting of [Sleep], press (Power key) to turn it on. Press (Power key) while the display is turned on to end the call.

Google™

You can make settings for various Google services collectively.

- In the home screen, display "app list screen" ► [Settings] ► [Google]
- 2 Select an item
 - Follow the instructions on the screen after this step.

System

You can make settings for system settings such as the language displayed on the screen, settings for the date, etc.

- 1 In the home screen, display "app list screen" ► [Settings] ► [System]
- 2 Select an item
 - About phone: For details ® P.137 "About phone"
 - Languages & input: For details P.137 "Languages & input"
 - Gestures: For details on gestures

 P.138 "Gestures"
 - Date & time: For details ® P.138 "Date & time"
 - Backup: Set whether to automatically back up app data, Wi-Fi passwords, etc. using a Google account.
 - Reset options: For details on the reset options

 P.139

 "Reset options"
 - System Update: For details ® P.160 "System update"
 - Authentication: Check information such as the certification of conformity with technical regulations.

About phone

Check the information about the handset.

¶ In the home screen, display "app list screen" ► [Settings] ► [System] ► [About phone]

2 Select an item

- Device name: Change the handset's name.
- Phone number (sim slot 1)/(sim slot 2): Check your phone number.
- Emergency information: Set the emergency information.
- Legal information: Check copyright notice, terms of service, etc.
- Adjust sensitivity of sensor: Adjust the accuracy of retrieval by the motion sensor and geomagnetic sensor.
- Battery status: Check the battery status.
- Battery serial number: Check the battery serial number.
- SIM status (sim slot 1)/(sim slot 2): Check the nanoSIM Card information
- Model & hardware: Check the model name and serial number.
- IMEI (sim slot 1)/(sim slot 2): Check the IMEI information.
- Android version: Check the Android version.
- IP address: Confirm the IP address.
- Wi-Fi MAC address: Confirm the MAC address.
- Bluetooth address: Confirm the Bluetooth address.
- Build number: Check the build number.

[Adjust sensitivity of sensor]

 Make the adjustment approximately 10 seconds after the adjustment screen appears. Adjustment may be failed depending on surroundings or other simultaneously running apps. Change the place where you make adjustment, end running apps, etc.

Languages & input

Make settings for the language displayed on the screen, character entry, text-to-speech, etc.

- In the home screen, display "app list screen" ▶
 [Settings] ▶ [System] ▶ [Languages & input]
- 2 Select an item
 - Languages: Select displayed languages.
 - Virtual keyboard: Set the software keyboard.
 - Physical keyboard: Set the keyboard connected via Bluetooth.
 - Spell checker: Make settings for Spell checker.
 - Autofill service: Set Autofill service.
 - Touch [*] to make settings for filling out automatically using a Google account.
 - Personal dictionary: Register any words into Personal dictionary.
 - Pointer speed: Set the speed of the pointer.
 - Text-to-speech output: Make settings for the voice for reading the characters displayed on the handset.

Gestures

Set the operations to perform for actions such as pressing (Power key).

- In the home screen, display "app list screen" ► [Settings] ► [System] ► [Gestures]
- 2 Select an item
 - Assistant key: Set the action to perform when ()(Assistant key) is pressed.
 - You can also set your favorite function for each of a short press, long press, and two presses. Select the function you wish to launch when the key is pressed from the functions displayed in the list.
 - * Some applications may not show in the list.
 - Jump to camera: Set whether to activate "Camera" app by pressing ∩(Power key) twice.
 - Swipe up on Home button: Set whether to display the recent apps if you swipe up on the navigation bar.
 - When this is set to OFF, [] is displayed and the recent apps are displayed if you touch it.
 - Double-tap to check phone: Set whether to display the time, notification icons, and other information by touching the screen twice while it is turned off.
 - Prevent ringing: Set the operation for when ①(Power key) and ①(+) are pressed at the same time while the ring tone is sounding.

Date & time

Make settings for the date and time and their format.

- ¶ In the home screen, display "app list screen" ▶ [Settings] ▶ [System] ▶ [Date & time]
- 2 Select an item
 - Automatic date & time: Set whether to automatically adjust the date and time.
 - Set date: Set the date manually.
 - Set time: Set the time manually.
- Auto timezone: Set whether to use the time zone provided via a network.
 - Select time zone: Set the time zone manually.
 - Automatic 24-hour format: Set whether to switch to 24-hour format time display and correct the time automatically to match the standard for the language/region of the user.
 - Use 24-hour format: Manually switch 12-hour format/24-hour format.

When [Automatic date & time] is set to ON

- If the handset does not adjust the time for a while after the power is turned on, turn off the power and restart it.
- Time may not be adjusted depending on the signal status.
- The clock may gain or lose a few seconds.

Reset options

- ¶ In the home screen, display "app list screen" ► [Settings] ► [System] ► [Advanced] ► [Reset options]
- 2 Select an item
 - Reset Wi-Fi, mobile & Bluetooth: Reset all settings related to Wi-Fi, mobile data, and Bluetooth.
 - Reset app preferences: Reset all contents set in each app.
 - Erase all data (factory reset): Reset all data in the handset memory.

[Erase all data (factory reset)]

- If you enable [Delete data in SD card as well.], data on a microSD Card are also erased at the same time
- The following data are erased.
 - Data that are created, saved or registered
 - Contents that are set in the "Settings" app
 - Downloaded apps
 - Some pre-installed apps

File Management

Storage structure

Handset memory (internal storage)

You can save data to the handset.

- The followings are the name of the handset memory storage and path.
 - · Storage name: Internal shared storage
 - · Path: /storage/emulated/0
- The followings are the folder structure, types of data to be saved in each folder, etc. of the default handset memory.
 - Displayed folder may differ depending on the operating conditions.

Alarms	Alarm tones, etc. are saved.
Android	Temporary files, etc. of installed apps are
	saved.
DCIM	Still pictures and videos shot with the
	handset are saved.
Download	Files downloaded on Chrome are saved.
Movies	Videos, etc. are saved.
Music	Music data, etc. is saved.
Notifications	Notification sounds, etc. are saved.
Pictures	Still pictures, etc. are saved.
Podcasts	Music data, etc. transferred from a podcast
	is saved.

PRIVATE	Still pictures, videos, music data, etc. are saved.
Ringtones	Ringtones, etc. are saved.

microSD Card (external storage)

You can save data on the handset to microSD Card or import data on microSD Card to the handset.

• For details on microSD Card P.38 "microSD Card"

Operation of files

You can manage data stored to the handset memory or the microSD Card (creating folders, or renaming, deleting, moving, copying, etc. folders/files). Also, the available space on the handset memory increases by deleting data.

In the home screen, display "app list screen" ► [Settings] ► [Storage]

 If the microSD Card is not inserted, the details screen of the used capacity on the handset memory is displayed.

2 Select a storage

- Select [Internal shared storage] to display the details screen
 of the used capacity on the handset memory. Select [Files]
 in the details screen to display the data list saved on the
 handset memory.
- Select the microSD Card to display the saved data list.

- Creating folders
- 1 In the data list screen, [] ▶ [New folder]
- 2 Enter the folder name ► [OK]
- Renaming folders/files
- In the data list screen, touch and hold a folder/ file
- **2** [**:**] ▶ [Rename]
- 3 Enter the folder/file name ▶ [OK]
- Deleting folders/files
- In the data list screen, touch and hold a folder/ file
- 2 [**1**] ▶[0K]
- Moving/Copying folders/files
- In the data list screen, touch and hold a folder/ file
- 2 [:] ► [Move to...]/[Copy to...]
- 3 [MOVE]/[COPY] at the move/copy destination

- Searching files
- 1 In the data list screen, [Q]
- 2 Enter the keyword to search with ▶ [◎]
- Increasing the available space on the handset memory

You can increase the available space on the handset memory by deleting downloaded data, apps which are rarely used, etc.

- In the home screen, display "app list screen" ► [Settings] ► [Storage] ► [Internal shared storage] ► [FREE UP SPACE]
 - If a microSD Card is not inserted, in the home screen, display "app list screen" ▶ [Settings] ▶ [Storage] ▶ [FREE UP SPACE] to perform the operation.
- 2 Select data to delete
 - $\bullet\,$ Follow the instructions on the screen after this step.

Data Communication

Bluetooth® function

You can connect the handset to Bluetooth devices wirelessly.

- Wireless communications with all the Bluetooth devices are not completely guaranteed.
- For details on the supported versions and output PF P.161 "Main specifications"

Supported profiles (Supported services)

- The profile standardizes the communication procedures of Bluetooth device by feature. The handset supports the following profiles.
 - HSP: Headset Profile*1
 - HFP: Hands Free Profile*2
 - A2DP: Advanced Audio Distribution Profile*3
 - AVBCP: Audio/Video Remote Control Profile*3
 - HID: Human Interface Device Profile*4
 - OPP: Object Push Profile*5
 - SPP Serial Port Profile*6
 - FTP: File Transfer Profile*7
 - PBAP: Phone Book Access Profile*8
 - PAN: Personal Area Networking Profile*9
 - HOGP: HID Over GATT Profile*10
- *1 Connect a commercially available Bluetooth compatible headset to the handset to talk wirelessly.

- *2 Connect a commercially available Bluetooth compatible hands-free device such as a car navigation system to the handset to talk during hands-free operation using the car navigation system, etc.
- *3 Connect a commercially available Bluetooth compatible audio device to the handset to play music, etc. wirelessly. Also, remote control operation may be available from Bluetooth devices. However, compatible devices may be limited depending on the data type.
- *4 Connect a commercially available Bluetooth compatible input device such as a keyboard and mouse to the handset to operate the handset from the device.
- *5 Connect a Bluetooth device to the handset with the file transfer service to send and receive data between them.
- *6 Set the virtual connection with a serial cable and interconnect between devices.
- *7 Send and receive data to and from Bluetooth devices.
- *8 Transfer phonebook data on the handset memory to a Bluetooth device. Data may not be displayed correctly on the other party's device depending on the contents of the transferred phonebook data.
- *9 Join a PC network, etc. and share the Internet connection. Also, connect a PC, etc. to the handset via Bluetooth to use the Bluetooth tethering.
- *10 Connect a Bluetooth Smart device such as a keyboard and mouse to the handset to operate the handset from the device.
- Refer to manuals of Bluetooth devices as well.
- Audio may not be output with Bluetooth devices which are not compatible with SCMS-T.

Precautions about handling Bluetooth devices

Note the followings when using Bluetooth devices.

- Note the followings to make good connection.
 - Keep the distance between the handset and another Bluetooth device within approximately 10 m with no obstructions in sight. The distance within which you can make connection may be shorter when there are obstructions between them or depending on the conditions of the surroundings (such as walls or furniture) and the structure of a building. Especially when there is a wall, floor or ceiling of reinforced concrete between them, they may be unable to connect with each other. Note the above mentioned distance is not guaranteed.
 - Move the handset and another Bluetooth device as far away as possible from home electric appliances, AV devices, OA devices, etc. before connection. Bluetooth devices are liable to be adversely affected by a microwave oven, so move them as far away as possible from the microwave oven while using them. Otherwise, normal connection cannot be performed when other electric devices are powered on or Bluetooth devices may cause noises or reception failure on a TV or radio set.
 - Move the other party's Bluetooth device to a place where connection is possible when there is a broadcast station, radio, etc. near the Bluetooth device and the handset cannot be connected to the device. Strong radio waves may prevent connection between Bluetooth devices.

- Wireless connection is available with Bluetooth devices put in a bag or pocket. However, lowering of communication speed or noise may result when you are in between the Bluetooth device and the handset.
- Electromagnetic signals from Bluetooth devices may affect the operation of electronic medical equipment, etc. As some cases may result in accident, turn off the handset and other Bluetooth devices in the following places.
 - On trains
 - On airplanes
 - In hospitals
 - Near automatic doors or fire alarms
 - In places such as gas stations where flammable gas is generated

Radio interference with Wi-Fi compatible devices

• The Bluetooth devices use the same frequency band (2.4 GHz) as wireless LANs (IEEE 802.11b/g/n). Therefore, using a Bluetooth device near a wireless LAN device may cause the radio interference, lowering of communication speed, noise or connection failure. In this case, turn off the wireless LAN device or keep the handset and the other party's Bluetooth device at least approximately 10 m away from the wireless LAN.

Using Bluetooth function

- To register/connect a Bluetooth device, the Bluetooth passkey may need to be entered. Before you start registration, decide on a one- to sixteen-digit number. Enter the same number on the handset and the other party's Bluetooth device.
- Set the other party's Bluetooth device to the registration stand-by status in advance.
- In the home screen, display "app list screen" ► [Settings] ► [Connected devices] ► [Connection preferences] ► [Bluetooth]
- 2 Set to On
- 3 [Pair new device]
- 4 Select a Bluetooth device ▶ [PAIR]
 - The confirmation screen for connection may be displayed.
 - Entering the Bluetooth passkey may be necessary depending on the other party's Bluetooth device. Also, some Bluetooth devices may start establishing a connection after registration is completed.
 - Touch [\$\frac{1}{4}\$] of a paired Bluetooth device to set name and intended purpose of the other party's Bluetooth device.

- You can connect up to seven Bluetooth devices at the same time. Bluetooth devices may not work properly or the number of Bluetooth devices that can be connected at the same time may differ depending on the profile.
- If you fail to connect a Bluetooth device, connection may become available after re-registering it.
- When [Bluetooth] is set to On, the handset is set to receive registration requests/connection requests from other Bluetooth devices. Display the Bluetooth screen when searching for the handset from other Bluetooth devices.
- While in connection stand-by, even if a connection request from a Bluetooth device is received, connection may not be made depending on the signal status, etc.
- For details on the operations of the other party's Bluetooth device, refer to the manuals of the Bluetooth device to be used.

- When receiving registration request from Bluetooth device or connection request from unregistered Bluetooth device
- Registration request/Connection request from Bluetooth device
- 2 In the pairing screen, [PAIR]
 - When [素] is displayed on the status bar, drag the status bar down ▶ [PAIR & CONNECT] ▶ [PAIR]
 - Entering the Bluetooth passkey may be necessary depending on the other party's Bluetooth device.
 - The confirmation screen for connection may be displayed.
- Unregistering Bluetooth device
- ¶ In the home screen, display "app list screen" ► [Settings] ► [Connected devices] ► [Previously connected devices]
- 2 [♣] of the Bluetooth device to unregister ► [FORGET]
- 3 [FORGET DEVICE]

- Disconnecting Bluetooth device
- ¶ In the home screen, display "app list screen" ► [Settings] ► [Connected devices]
- 2 Select the Bluetooth device to disconnect ► [DISCONNECT]
 - [♣] may appear depending on the Bluetooth device. If it is displayed, select [♣] ► [DISCONNECT]

Renaming the handset

You can change the handset name displayed on the other party's Bluetooth device.

- Set after setting [Bluetooth] to On.
- ¶ In the home screen, display "app list screen" ► [Settings] ► [Connected devices] ► [Connection preferences] ► [Bluetooth]
- 2 [Device name]
- 3 Enter a name ► [RENAME]

Sending and receiving by Bluetooth

Sending data

Example: Still picture

- ¶ In the home screen, display "app list screen" ▶ [Photos]
- 2 Touch and hold a still picture to send
- 3 [<]▶[Bluetooth]
 - Set the receiver's Bluetooth device to the reception stand-by status.
- 4 Select a Bluetooth device to connect to
- Receiving data
- 1 Data is sent from the sender's Bluetooth device
- 2 Drag the status bar down ▶ [ACCEPT] on incoming notification
- 3 Drag the status bar down ▶ select the received data
- Receiving all data may not be available depending on the data type.
- When available space in the save destination becomes insufficient while receiving data, the data being received to that point are saved and receiving ends.

NFC communication

NFC stands for Near Field Communication and is a near field wireless communication system which conforms to the international standards set by ISO (International Organization for Standardization). You can use the contactless IC card function, Reader/Writer function, P2P function, etc. on the handset.

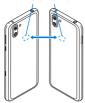
Android Beam

You can send and receive data to and from devices which support Reader/Writer, P2P function.

- Set [Android Beam] to On in advance (FF P.116 "Connection preferences").
- Android Beam is not available in Airplane mode.
- You can send and receive phonebooks, still pictures, videos, etc.
- Android Beam may not be available depending on the app.
- Communication with all devices which support Reader/Writer, P2P function is not completely guaranteed.

When using Android Beam

NFC antenna



- Use while placing the NFC antenna of the receiver's device over that of the sender's device as shown.
- Do not move the devices until sending and receiving of data are completed.
- There may be some cases in which data are poorly sent and received or the display is turned off by positioning a device near depending on the other party's device.

 In this case, move the NEC antenna further apart or closer.
 - In this case, move the NFC antenna further apart or closer together or move them up/down or to the left/right.
- Pay attention to the following points when holding the NFC antenna over the other device such as a scanning device or device into which an NFC module is built.
 - Do not let the handset strongly clashed with the other device but slowly bring the handset close to the other device when holding the NFC antenna over it.

- Hold the NFC antenna over the center of the other device and in parallel with it. If the other device does not recognize the built-in IC card even when you do so, slightly move the handset away from the other device or move the handset around.
- The other device may not recognize the built-in IC card if there are metallic objects between the NFC antenna and the other device. Remove the handset from its cover or case if the other device does not recognize the built-in IC card, since equipping the handset with it may influence the communication performance.
- Sending data

Example: Address Book

- In the home screen, display "app list screen" ▶ [Address Book]
- 2 Select a name
- 3 Place the NFC antenna over that of the other party's device
 - [Tap to beam] appears.
- 4 Touch the screen
- Receiving data
- Place the NFC antenna over that of the other party's device

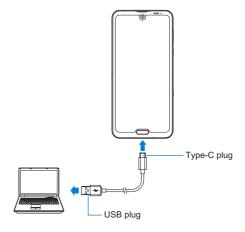
External Device Connection

Connecting to PC and other device

Connecting the handset and a PC or other device allows you to charge the handset or other device and transfer the data of the handset memory or microSD Card.

When connecting the handset to a PC using the supplied USB cable, operate the following steps.

- Insert the Type-C plug of USB cable horizontally into the USB Type-C Connector on the handset
- 2 Insert the USB plug of USB cable horizontally into the USB connector on a PC
 - The USB settings screen appears on the handset. If it is not displayed, drag the status bar down and select the notification for the use of it.



When connecting to a PC

3 Select the device side in [USB controlled by]

- Connected device: The connected other device becomes the device.
- This device: This handset becomes the device.
- Switching from [This device] to [Connected device] may not be possible depending on the other device to be connected. In this case, the device side is set to this handset.
 - The devices for which you can select [Connected device] to swap the device side are role swap compatible devices (example: connection between two handsets which are this model). Role swap compatible devices can be swapped when connected with a commercially available USB cable for which both plugs are Type C. In this case, you can set the other device as the host and this handset as the device to operate the data in the storage (handset memory or microSD Card) of the handset from the other device or set the handset as the host and the other device as the device to operate the data in the storage of the other device.

4 Select the usage method of the USB connection in [Use USB for]

- File Transfer: Transfer data between another device compatible with MTP and the handset memory/microSD Card.
- USB tethering: For details on USB tethering ® P.114 "Tethering"
- MIDI: Use the handset for MIDI input.
- PTP: Transfer still pictures between another PTP compatible device and the handset memory.
- No data transfer: Allow only charging of the handset.
- This can be set when [This device] (the handset is the device) is set in [USB controlled by].
 When [Connected device] is set, perform the operation on the other device (set [This device] on the other device side).

5 When use is finished, disconnect the USB cable

- Use the USB cable compatible with the handset. The cable whose plug shape is different is not available.
- Using a USB HUB or converter plug may prevent the equipment from working normally.
- When you transfer a great deal of data at once, the transference may be interrupted. In this case, split the data into several files and send them separately.
- Do not remove the USB cable while exchanging data. Data may be damaged.
- Windows 8.1 and Windows 10 are available OS of PCs for the connection.

Charging when role swap compatible devices (example: connection between two handsets which are this model) are connected

- The other device can be charged if you set [Charge connected device] to ON on the USB settings screen.
- If a device that is not role swap compatible is connected, [Charge connected device] cannot be set to ON. This handset will be charged.

Connection with the USB cable compatible with USB 3.1

 At the time of purchase, the handset complies with USB 2.0 standard.

When you enable [Connect using USB3.1] on the USB settings screen, the speed of USB data communication gets faster. However, connections of data communication may become unstable depending on the usage environment.

Printing/Saving by print service

You can print images using a print app (plug-in) or save images in Google Drive, etc.

Example: When using Photos

- 1 In the image display screen of Photos, [⁸] ▶ [Print]
- 2 Set each item
 - Follow the instructions on the screen after this step.

USB host function

The USB host function is installed on the handset. You can use USB devices such as mice by connecting a commercially available USB cable for peripheral device connection to the USB Type-C Connector.

- For details on the USB host function, refer to the manuals of the USB cable for peripheral device connection and USB devices.
- Connection with all USB devices is not completely guaranteed.
- Connection with the USB device is disabled when the battery level decreases or the handset temperature lowers.
- When you use the USB host function, the handset operations may slow down.
- When you connect USB devices which consume large amount
 of electric power, the handset may be automatically turned off
 depending on the operating state or battery level of the
 handset, or surrounding temperature.

Removing USB memory

 Unmount the USB memory before removing it (FFP.125 "Storage"). Data may be damaged or it may not work properly.

Cast

You can have the screen and voice of the handset output to a TV, etc. compatible with cast.

- You can also connect the handset to other Miracast compatible devices such as a Miracast compatible TV or adapter.
- As for the operation of the connector device, refer to its manual.
- In the home screen, display "app list screen" ► [Settings] ► [Connected devices] ► [Connection preferences] ► [Cast]
- 2 [i] ▶ [Enable wireless display]
 - When [Enable wireless display] is enabled, [Wi-Fi] is set to On, and devices compatible with connection with the handset or you have connected to are displayed as a list.
- 3 Select a device to connect to
 - The confirmation screen is displayed depending on the device to connect to. Check the content, follow the instructions on the screen and operate.
 - To disconnect: Touch the connecting device IDISCONNECT
 - To change the displaying name of the device: [♣] of the device to change the name ▶ enter the name ▶ [DONE]
 - To delete the device from the list: [**] of the device to delete
 [FORGET]
- When the device using Cast functions is set, the Cast icon (such as []) may be displayed in the corresponding app.

- Output may not be available depending on the running app or the displayed content item.
- Output may be terminated during its use depending on the running app.
- During the wireless output, you may not be able to play copyrighted content items.
- Output automatically stops when the battery level becomes insufficient.
- The handset may be subjected to radio interference and image distortion or jumpiness may occur depending on the conditions of the surroundings. Also, connection may fail or output may be terminated. Use this function in a condition with no obstructions or other wireless devices put between the handset and a TV, etc.

VPN (Virtual Private Network)

Adding VPN

VPN (Virtual Private Network) is a connection method to prepare and connect safely to a virtual dedicated line on the network of a household PC or in an office from outside, etc.

- Acquire information about the security from network administrators to set VPN connection from the handset.
- Set Screen lock to an item other than [None] or [Swipe] in advance (FF P.127 "Security & location").
- In the home screen, display "app list screen" ► [Settings] ► [Network & internet] ► [Advanced] ► [VPN] ► [+]
- 2 Set each item ▶ [SAVE]

Connecting VPN

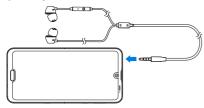
- ¶ In the home screen, display "app list screen" ► [Settings] ► [Network & internet] ► [Advanced] ► [VPN]
- 2 Select a VPN to connect to
- 3 Enter connecting information of the VPN ► [CONNECT]

Disconnecting VPN

¶ In the home screen, display "app list screen" ► [Settings] ► [Network & internet] ► [Advanced] ► [VPN] ► follow the instructions on the screen and operate

Connecting to the headset

Insert the plug of the headset into the 3.5mm earphone jack on the handset



- Insert the plug properly all the way in. If it is inserted only halfway, you may not hear sounds.
- Dirty terminals can cause poor contact. Use a dry cotton swab or the like to clean the terminals. Be careful not to damage to terminals while cleaning them.
- Do not deform the headset plug or 3.5mm earphone jack. May cause a malfunction
- If a strong load is applied on 3.5mm earphone jack when connecting the headset, the waterproof and dustproof performance could be compromised.

Appendix

Troubleshooting (FAQ)

Troubleshooting

- Check whether system update is required. If so, perform system update (PSP P.160 "System update").
- If there is no improvement on the problems even after checking the following items, contact the support phone number listed on the Warranty Card.

Power

- The handset is not turned on
- The screen does not respond or the handset cannot be turned off
 - You can turn the power off forcibly by pressing (Power key) for at least 8 seconds.
 - Release your finger after the vibrator is activated to turn the power off.
 - Note that data, contents you have set, etc. may be deleted since the power is turned off forcibly.

Charging

- Cannot charge the battery
 - The charging lamp does not illuminate or it flashes
 - · Is the charger inserted into the outlet properly?
 - When using a charger, are the charger, USB cable, and the handset securely connected? P.41 "Charging with charger"
 - When using USB cable, is the power of PC turned on?
 - When the wireless charger is used, is the wireless charge position of the handset aligned with the position on the wireless charger correctly? For details on the wireless charge position [\$\mathbb{E}\$] Part names and functions"
 If a cover (commercially available), etc. is attached to the
 - If a cover (commercially available), etc. is attached to the handset, remove it. Also, if a metal or other foreign object is trapped between the handset and wireless charger, remove the object and then reposition the handset by aligning it with the charge position correctly. PSP-42 "Cautions while wirelessly charging"
 - If a call, communication or another function is performed for a long time while charging, the handset may become warm and charging may stop. Charge again after the handset temperature lowers. PR40 "Cautions while charging"

Handset operation

- Becomes hot while operating/charging
 - The handset, internal battery, charger or USB cable may become warm while you are operating or charging the handset, when you use watch video, etc. for a long time while charging, etc. There is no operational problem. P.40 "Cautions while charging"

- Battery life is short
 - Make sure the handset is not left for a long time outside the service area. Outside the service area, since radio waves are searched to make communication available, more electric power than usual is used.

When the handset keeps out of service, turn power off or set Airplane mode. [37] P.43 "Turning power off", P.110 "Network & internet"

- The battery life depends on the usage environment and deterioration level. P.161 "Main specifications"
- The internal battery is a consumable product. Battery life per charge is gradually reduced every time the battery is charged. Contact the support phone number listed on the Warranty Card if the battery life becomes extremely shorter than at the time of purchase even after fully charged. (FSP P.24 "Replacing the built-in battery"
- · End apps which are not in use.
- Set wireless functions which are not in use to OFF. P.110 "Wi-Fi", P.144 "Using Bluetooth function"
- Conserve the battery power by using Battery Saver.
 P.118 "Battery Saver"
- Not activated by touching or pressing keys
 - Make sure the handset is not turned off. P.43 "Turning power on"
- Screen response is slow when touching or pressing keys
 - This may happen when a great deal of data is saved on the handset, when a large amount of data is being transferred between the handset and the microSD Card, etc. FP.125 "Storace"

- nanoSIM Card is not recognized
 - Is the nanoSIM Card inserted facing right direction?
 P.36 "nanoSIM Card"
- Clock is incorrect
 - Clock may become incorrect if the power is left turned on for a long time. Make sure [Automatic date & time] is set to ON and turn the power on again in a location with good signal conditions. (\$\subseteq P.138\text{ "Date & time"}\)
- Handset operation is unstable
 - The apps installed on the handset after purchase may become a cause. If you can improve the symptoms by activating the handset with the safe mode set, you may be able to improve the symptoms by uninstalling the installed apps.
 - * Safe mode is a function to start up the handset in a state close to that at the time of purchase.
 - For activating the safe mode
 Turn the power on again when the power is turned off, then keep pressing ((-) on the screen during activation until the lock screen of the touch panel is displayed.
 - * Alternatively, ((Power key)) while the power is turned on (for at least 2 seconds) ▶ touch and hold [Power off] ▶ [OK] to activate the safe mode
 - * When the safe mode is activated, [Safe mode] is displayed at the bottom left of the screen.
 - * To deactivate the safe mode, turn the power on again.
 - Back up the necessary data in advance before using the safe mode.
 - Depending on the widget, it may disappear.

- The safe mode is not an ordinary activating state and thus deactivate the safe mode if you want to use in an ordinary way.
- Apps do not work properly (e.g. inability to activate them, frequent errors)
 - Make sure there is no disabled app. Try again after enabling a disabled app. if any. P.118 "Enabling an app"
 - Is the use of requiring function for operating the app allowed?
 P.63 "First things first"
 - Make sure Battery optimization is not carried out.

 P.64

 Battery optimization"

Calling

- Calls cannot be made
- Ringtone does not sound
 - Make sure the ringtone volume is not set to "0". P.122 "Sound"
 - Make sure the manner mode or Airplane mode is not set.
 P.57 "Switching manner mode", P.110 "Network & internet"
 - Make sure the call restriction such as call blocking is not set.
 F.72 "Call settings"

- Calls are not available ([]] does not disappear even after moving to another place or calls cannot be made/received even though signal status is not bad)
 - Turn the power on again or attach the nanoSIM Card again.
 P.36 "nanoSIM Card", P.43 "Turning power on/off"
 - Depending on the signal type, even though status is "inside the service area" or "[
] (indicating signal status) appears", making/receiving a call may not be available. Move to another place and call again.
 - Make sure the call restriction such as call blocking is not set.

 FP.72 "Call settings"
 - In a crowded place, heavy telephone/mail traffic may make it difficult to get a connection depending on how congested the radio waves are. In this case, a busy tone is played. Move to another place or call again later.

Screen

- Display is dark
 - Make sure the light duration of the backlight is not set to be short. P.119 "Display"
 - Make sure brightness of the display is not changed.
 P.119 "Display"
 - Make sure [Adaptive brightness] is not set. The brightness of the screen varies depending on the surrounding light if the setting is not set. P.119 "Display"
 - Make sure [VeilView] is not set. P.121 "VeilView"

Sound

- The other party's voice is not heard well or is too loud during a call
 - Make sure you have not changed the in-call volume.
 P.69 "Adjusting the in-call volume"

Mail

- Mail is not automatically received
 - Make sure Sync Gmail in the account settings of Gmail is not set to OFF. P.82 "Setting Gmail"

Camera

- Still picture or video shot by the camera is blurred

 - Make sure the camera lens is neither misted up nor exposed to dirt. PP.86 "Before using camera"
- Still pictures and videos shot while the mobile light is turned on go white
 - If there is a case, cover, finger, etc. near the camera lens, lights of the mobile light may reflect on it and shot still pictures and videos may be adversely affected.

NFC

- Cannot use NFC
 - Is the NFC antenna of the handset held over the scanning device? P.147 "When using Android Beam"

International Roaming

- Cannot use the handset overseas ([] appears)
 - · Contact a distributor of nanoSIM Cards.
 - Change the network setting or network operator setting. Set Preferred network type to [4G (recommended)]. Set [Automatically select network] to ON. ISP P.112 "Mobile network"
 - Turn the power on again. The handset may recover. PP P.43 "Turning power on/off"
- Cannot use data communication overseas
 - Set [Roaming] to ON. P.112 "Mobile network"
- The other party's phone number is not notified/A different phone number from that of the other party is notified/Functions to use details saved in the phonebook or Caller ID notification are not activated
 - The caller ID is not displayed on the handset even though the other party makes a call with the caller ID set to be notified if the used network or network operator does not notify. In addition, a different phone number from that of the other party may be notified depending on the used network or network operator.

Data management

- Data is not transferred
 - Make sure a USB HUB is not used. If used, the transference may not be carried out normally. P.148 "Connecting to PC and other device"
 - Make sure the use of the USB connection is set correctly.
 P.148 "Connecting to PC and other device"

- Data saved on the microSD Card is not displayed
- Images are not displayed correctly
 - An entire image goes black when the image data is damaged.

Bluetooth function

- Cannot connect with Bluetooth connection compatible device/ Cannot find it even if searching
 - Set the Bluetooth connection compatible device (commercially available) side to the registration stand-by status and register it from the handset side. To delete the registered device once and register it again, both the Bluetooth connection compatible device (commercially available) and the handset are required to be deleted on each side. ** P.144 "Using Bluetooth function"
- Calls cannot be made from the handset with an external device such as a car navigation system or hands-free device connected
 - Making a call to a phone number may become unavailable if you make multiple calls to the phone number in the condition that the other party does not answer or outside the service area. In this case, turn off the handset power and turn it on again. P.43 "Turning power on/off"

Warranty and After-Sales Service

Warranty

A Warranty Card is provided for this handset.

- For details, refer to the Warranty Card provided with the handset.
- Check the date of purchase and the name of the store where you purchased the handset.
 Please store the Warranty Card carefully after thoroughly reading
- the contents.

 Please read carefully the Warranty Card as you may be charged
- for repair even during the Warranty Period.
- Please be advised that we are not liable for any damages incurred by you or a third party due to loss of opportunity to make/receive calls or other reasons due to failure, malfunction or problems with the product.
- Since information registered or settings set by the customer may be lost or altered due to failure or repair, we recommend that you keep a copy of important information such as the address book. Please be advised that in event of a failure or during repair we are not liable for any damages caused by loss or modification of data created by the customer, data read from outside or downloaded data.
 - * The handset allows you to save address book data, etc. to microSD Cards.

After-Sales Services

When requesting repair

Refer to "Troubleshooting".

If a problem persists, stop using the product and contact the support phone number listed on the Warranty Card.

During the warranty period

Charged repairs will be carried out upon request.

After the warranty period

If the function can be maintained by repair, we will repair the product for a fee per your request.

IMPORTANT!

- Never attempt to modify the handset.
 - May cause fire, bodily injury or malfunction.
 - If your device has been modified previously, it will only be accepted for the repair as long as you agree that we restore the device to its original state. However, repairs may be refused depending on the extent of the modification.

The following cases may be considered as a modification.

- · Stickers, etc. are applied to the display or keys
- Decorations are made to the handset with adhesive agent, etc.
- Exterior parts, etc. are replaced with those which are not genuine products
- Repairs for any malfunction or damage caused by such modifications will incur fees, even during the warranty period.

- Do not remove the model nameplate attached to the handset.
 Note that if the contents of the nameplate cannot be confirmed such as when it is removed or replaced on purpose, repairs may be refused.
- Information stored in your handset, such as the settings of various functions, may be cleared or reset if your handset is damaged, repaired or mishandled. If this occurs, please re-enter the information or re-specify the settings. At that time, packet communication charges may be incurred depending on the settings.
- When the handset is repaired, MAC address for Wi-Fi and Bluetooth address may be changed regardless of the faulty part.
- Keep cash cards and other objects likely to be affected by magnetic waves away from the handset. They may become unusable.
- This handset is waterproof, however, if the inside of the handset gets wet or damp, immediately turn off the power and contact the support phone number listed on the Warranty Card. The handset may not be repaired depending on its condition.

System update

This is a function that updates the system by connecting to the network to check if a SH-R10 system update is necessary and downloading the update file if necessary.

- If a system update is required, that effect will be announced on the handset.
- System update can be performed with the address book registered in the handset, camera images, emails, download data, etc. in the handset remaining as is. However, the data may not be protected depending on the state of the handset (failure, damage, water, etc.). It is recommended that important data be backed up. However, please be advised that some downloaded data may not be backed up.
- During system update, a large volume of packet communication may occur. If Wi-Fi communication is available, we recommend that Wi-Fi be used for update.

Things to keep in mind

- If the battery level is insufficient, system update may not be able to be performed. Before updating the system, fully charge the battery. We recommend that system update be performed while charging the battery.
- It may take time to update the system (downloading, overwriting).
- During system update, you cannot make or receive calls and use communication functions and other functions. However, calls can be received during downloading.
- We recommend that system update be performed in a location with good signal reception and without moving. System update may be interrupted if signal is weak.
- SMS received during system update are stored in the SMS center.
- During system update, the information unique to your SH-R10 (model, serial number, etc.) is sent to our system update server.
 Sent information is only used for system update.
- In the case of system update failure, there is a possibility that the handset can no longer be used. If the handset becomes unusable, contact the support phone number listed on the Warranty Card.
- When PIN code is set, the PIN code entry screen appears during restart after rewriting and you are required to enter PIN code.
- Do not start other applications during system update.

System update

In the home screen, display "app list screen" ► [Settings] ► [System] ► [Advanced] ► [System update]

- If system update becomes necessary, you can download the data for system update. Follow the instructions on the screen after this step.
- If [] is displayed in the status bar, you can access system update from the notification panel.
- When system update is not necessary, your handset indicates that it is up to date.
- All key operations are disabled during system update.
 Therefore, you cannot abort system update either.
- If system update failed or was stopped partway through, execute system update again.

Main specifications

Handset

Product name		SH-R10
Size		Approx. 156 (H) x Approx. 74 (W) x Approx. 8.9 (D) mm (Approx. 10.4 mm at thickest point)
Weight		Approx. 185 g
	Туре	TFT (Pro IGZO)
	Size	Approx. 6.2 inch
Display	No. of colors	1,073,741,824 colors
	Resolution	Horizontal 1,440 x vertical 3,120 pixels (Quad HD+)
Internal memo	ry	ROM: 128 GB*1 RAM: 6 GB
	Battery	Lithium-ion
Internal battery	Nominal voltage	DC3.85V
Dallel y	Nominal capacity	3200mAh

	LTE	At rest: Approx. 520 hr (Preferred network type: 4G (recommended))
Continuous stand-by time*2, 3, 4	3G	At rest: Approx. 550 hr (Preferred network type: 4G (recommended))
	GSM	At rest: Approx. 470 hr (Preferred network type: 4G (recommended))
	LTE (VoLTE)	Approx. 1890 min
Continuous talk time*4,5	LTE (VoLTE (HD+))	Approx. 1630 min
taik time 4,3	3G	Approx. 1290 min
	GSM	Approx. 890 min
Charge time		Supplied charger: Approx. 150 min
Wireless LAN	Supported standards	Meets IEEE 802.11a/b/g/n*6/ ac*6, *7 (IEEE 802.11n-compatible frequency band: 2.4 GHz/5 GHz)

	Version	5.0
	Output	Bluetooth standard BR/EDR: Power Class1, LE: Power Class1.5
Bluetooth*8, 9	Distance with no obstructions in sight*10	Approx. 10 m
	Supported profiles*11/ codec	HSP (1.2), HFP (1.7)*12, A2DP (1.3)*13, AVRCP (1.6), HID (1.0), OPP (1.2), SPP (1.2), PBAP (1.2), FTP (1.1), PAN (PAN-NAP) (1.0), PAN (PANU) (1.0), HOGP (1.0)
3.5mm	Size	3.5 mm stereo mini plug
Earphone Jack	Type of pole	Quadrupoles
Image pickup device		Standard rear camera: Backside illumination stacked CMOS* ¹⁴ Video rear camera: Backside illumination stacked CMOS* ¹⁴ Front Camera: Backside illumination stacked CMOS* ¹⁴
	Size	Standard rear camera: 1/2.5 inch Video rear camera: 1/2.7 inch Front Camera: 1/3.0 inch

Camera effective pixels		Standard rear camera: Approx. 12.2 million pixels Video rear camera: Approx. 20.1 million pixels Front Camera: Approx. 16.3 million pixels
Camera recorded pixels (Max.)		Standard rear camera: Approx. 12.2 million pixels Video rear camera: Approx. 8.3 million pixels Front Camera: Approx. 16.3 million pixels
Recorded file	Video	MP4
format*15	Still picture	JPEG
Zoom (Digital)	Video	Standard rear camera: Up to approx. 8.0 x Video rear camera: Up to approx. 8.0 x Front Camera: Up to approx. 8.0 x
	Still picture	Standard rear camera: Up to approx. 8.0 x Front Camera: Up to approx. 8.0 x
Video recording time		No limit*16
Video playback	Supported codec	H.263, H.264, H.265, MPEG-2, MPEG-4, VP8, VP9

Music playback*17*18	Supported codec	AAC LC, AAC+, enhanced AAC+, enhanced low delay AAC, AMR-NB, AMR-WB, FLAC, MP3, MIDI, Vorbis, PCM/ WAVE, Opus
Supported	Displayed languages	® P.164 "Displayed language"
languages Input languages (for typing)		English
No. of call history records that can be displayed		Up to 500

- *1 The memory capacity is not all available for saving data such as recorded videos and still pictures and downloaded apps and data. For available space, refer to "Storage" (ISF P.125).
- *2 Continuous stand-by time is the average usage time during which the handset is not carried with you and in a status where signals are received normally.
- *3 Continuous stand-by time varies significantly depending on the setting state and usage environment as well as the usage frequency of call, mail, camera, and other functions.
- *4 If various functions are used frequently, the actual time may become less than half.
- *5 Continuous talk time varies significantly depending on the setting state and usage environment as well as the usage frequency of call, mail, camera, and other functions.

*6 MIMO is supported.

- *7 MU-MIMO (Client) is supported. (For details on the supported products, refer to the website of each company.)
- *8 All Bluetooth function-installed devices including this handset have ensured that they conform to the Bluetooth specification according to the rules that the Bluetooth SIG defines, and are all authenticated.
- *9 However, operating methods might differ or data might not be exchanged depending on the features or specifications of the Bluetooth device
- *10 Differs depending on the obstacles between the communication devices and the signal status.
- *11 Specifications for the purpose of enabling use between two Bluetooth compatible devices that are defined in the Bluetooth standard specification.
- *12 Sound codec, mSBC (16 kHz) and CVSD are supported.
- *13 Sound codec, aptX, aptX HD, SBC and AAC are supported.
- *14 CMOS (Complementary metal-oxide semiconductor) is an image device equivalent to the film of silver salt cameras.
- *15 This is the specifications when using "Camera" (PF P.86 "Camera").
- *16 The video recording time differs depending on the amount of free space in the memory of the handset.
- *17 The handset supports playback with high resolution audio.
- *18 The handset supports Qualcomm[®] aptX[™] HD audio and Qualcomm aptX Adaptive Audio.

Displayed language

Spanish, German, French, Italian, Dutch, Polish, Portuguese, Czech, Ukrainian, Russian, Slovak, Lithuanian, Turkish, Norwegian (Bokmål), Finnish, Danish, Serbian (Latin), Bulgarian, Slovenian, Romanian, Latvian, Croatian, Greek, Hungarian, Estonian, Swedish, Catalan, Indonesian, Vietnamese, Thai, Traditional Chinese

Charger (A type)

Power	100 to 240V AC, 50/60 Hz
Output voltage/output	5 V DC/2 A
current	
Charging temperature	5° C to 35° C
range	
Size (width x height x	Approx. 51.5 mm x Approx. 38.7 mm x
depth)	Approx. 23.7 mm
	(excluding the power plug and protrusion)

Charger (C type)

	Power	100 to 240V AC, 50/60 Hz
	Output voltage/output	5 V DC/2 A
1	current	
	Charging temperature	5° C to 35° C
	range	
	Size (width x height x	Approx. 69.6 mm x Approx. 39.0 mm x
1	depth)	Approx. 24.0 mm
l		(excluding the power plug and protrusion)

USB cable

Cable length	Approx. 1,000 mm

Headset

Microphone

Directivity	Omni-directional
Sensitive	-42±3 dBV/Pa (1 Pa at 1 kHz)

Earphone

	Impedance	32 Ω ±15 % (0.179 V at 1 kHz)
Γ	Sensitivity	105±3 dB at 0.179 V/1 kHz with IEC711
		coupler

SIM Eject Pin

Length	Approx. 35 mm
Weight	Approx. 1.4 g

Specific Absorption Rate (SAR) of Mobile Phones

European RF Exposure Information

Your mobile device is a radio transmitter and receiver. It is designed not to exceed the limits for exposure to radio waves recommended by international guidelines. These guidelines were developed by the independent scientific organization ICNIRP and include safety margins designed to assure the protection of all persons, regardless of age and health.

The guidelines use a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit for mobile devices is 2 W/kg and the highest SAR value for this device when tested at the ear is 0.15 W/kg* and when worn on the body is 0.81 W/kg*.

For body-worn operation, this mobile device has been tested and meets the RF exposure guidelines when used with an accessory containing no metal and positioning the handset a minimum of 5 mm from the body. Use of other accessories may not ensure compliance with RF exposure guidelines.

As SAR is measured utilizing the devices highest transmitting power the actual SAR of this device while operating is typically below that indicated above. This is due to automatic changes to the power level of the device to ensure it only uses the minimum level required to reach the network.

 The tests are carried out in accordance with international guidelines for testing.

Regulatory information

In some countries/regions including Europe*, there are restrictions on the use of 5 GHz WLAN that may limit the use to indoors only. Please check the local laws and regulations beforehand.

* The following EU and EFTA member countries: Belgium (BE), Bulgaria (BG), Czech Republic (CZ), Denmark (DK), Germany (DE), Estonia (EE), Ireland (IE), Greece (EL), Spain (ES), France (FR), Croatia (HR), Italy (IT), Cyprus (CY), Latvia (LV), Lithuania (LT), Luxembourg (LU), Hungary (HU), Malta (MT), Netherlands (NL), Austria (AT), Poland (PL), Portugal (PT), Romania (RO), Slovenia (SI), Slovakia (SK), Finland (FI), Sweden (SE) and United Kingdom (UK), Switzerland (CH), Liechtenstein (LI), Iceland (IS), Norway (NO).

Norway: Use of this radio equipment is not allowed in the geographical area within a radius of 20 km from the centre of Ny-Alesund, Svalbard.

Hereby, SHARP CORPORATION declares that the radio equipment type SH-R10 is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

http://www.sharp-world.com/

Manufacturer: SHARP Corporation Importer: UMC Poland sp. z o.o

Importer Address: Ostaszewo 57B, 87-148 Łysomice, Poland

Description of accessories

Charger	For charging
Headset	3.5mm Earphone Jack
USB cable	For charging, peripherals, etc.
microSD Card	microSD/microSDHC/microSDXC
nanoSIM Card	The card provided by the Carrier. The handset is "Unlocked" Smartphone.

• Frequency range of supported bands in EU

GSM 900	Tx 880.2 to 914.8 MHz
	Rx 925.2 to 959.8 MHz
DCS 1800	Tx 1710.2 to 1784.8 MHz
	Rx 1805.2 to 1879.8 MHz
WCDMA FDD I	Tx 1922.4 to 1977.6 MHz
	Rx 2112.4 to 2167.6 MHz
WCDMA FDD VIII	Tx 882.4 to 912.6 MHz
	Rx 927.4 to 957.6 MHz
LTE Band 1	Tx 1922.5 to 1977.5 MHz
	Rx 2112.5 to 2167.5 MHz
LTE Band 3	Tx 1710.7 to 1784.3 MHz
	Rx 1805.7 to 1879.3 MHz
LTE Band 7	Tx 2502.5 to 2567.5 MHz
	Rx 2622.5 to 2687.5 MHz
LTE Band 8	Tx 880.7 to 914.3 MHz
	Rx 925.7 to 959.3 MHz

LTE Band 20	Tx 834.5 to 859.5 MHz
	Rx 793.5 to 818.5 MHz
LTE Band 28	Tx 704.5 to 746.5 MHz
	Rx 759.5 to 801.5 MHz
LTE Band 38	Tx 2572.5 to 2617.5 MHz
	Rx 2572.5 to 2617.5 MHz
Bluetooth	Tx 2402 to 2480 MHz
	Rx 2402 to 2480 MHz
WLAN 2.4 GHz	Tx/Rx 2412 to 2472 MHz (BW: 20 MHz
	only)
	W52(U-NII 1):
	Tx/Rx 5180 to 5240 MHz
	(BW: 20 MHz)
	Tx/Rx 5190 to 5230 MHz
	(BW: 40 MHz)
	Tx/Rx 5210 MHz (BW: 80 MHz)
	W53(U-NII 2A):
WLAN 5 GHz	Tx/Rx 5260 to 5320 MHz
	(BW: 20 MHz)
	Tx/Rx 5270 to 5310 MHz
	(BW: 40 MHz)
	Tx/Rx 5290 MHz (BW: 80 MHz)
	W56(U-NII 2C):
	Tx/Rx 5500 to 5700 MHz
	(BW: 20 MHz)
	Tx/Rx 5510 to 5670 MHz
	(BW: 40 MHz)
	Tx/Rx 5530 to 5610 MHz
	(BW: 80 MHz)

NFC	Tx/Rx 13.56 MHz
GNSS	GPS: Rx L1 (1575.42 MHz)
	GLONASS: Rx G1 (1598.0625 to
	1605.375 MHz)
	Galileo: Rx E1 (1575.42 MHz)
	BeiDou: Rx B1 (1561.098 MHz)

Maximum transmit power

GSM 900	+33 dBm (Power Class4)
DCS 1800	+30 dBm (Power Class1)
WCDMA FDD I	+24 dBm (Power Class3)
WCDMA FDD VIII	+24 dBm (Power Class3)
LTE Band 1	+23 dBm (Power Class3)
LTE Band 3	+23 dBm (Power Class3)
LTE Band 7	+23 dBm (Power Class3)
LTE Band 8	+23 dBm (Power Class3)
LTE Band 20	+23 dBm (Power Class3)
LTE Band 28	+23 dBm (Power Class3)
LTE Band 38	+23 dBm (Power Class3)
Bluetooth	+14.3 dBm (Power Class1)
WLAN 2.4 GHz	+17.0 dBm (ANT0 + ANT1)
WLAN 5 GHz	+17.0 dBm (ANT0 + ANT1)
NFC	0 dBµA/m at 10 m

Volume level caution



To prevent possible hearing damage, do not listen at high volume levels for long periods.

Earphone Signal Level

The maximum output voltage for the music player function, measured in accordance with EN 50332-2, is 120.0 mV.

FCC Notice

- This device complies with part 15 of the FCC Rules.
 Operation is subject to the following two conditions:
 - (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

Information to User

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation; if this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient/relocate the receiving antenna.
- 2. Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC RF Exposure Information

Your handset is a radio transmitter and receiver.

It is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for wireless handsets employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg.

The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this model handset when tested for use at the ear is 0.60 W/kg and when worn on the body, as described in this user quide, is 0.60 W/kg.

For body worn operation, this phone has been tested and meets the FCC RF exposure guidelines. Please use an accessory designated for this product or an accessory which contains no metal and which positions the handset a minimum of 1.0 cm from the body. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.

The FCC has granted an Equipment Authorization for this model handset with all reported SAR levels evaluated as in compliance with the FCC RF emission guidelines. SAR information on this model handset is on file with the FCC and can be found under the Display Grant section of https://www.fcc.gov/oet/ea/fccid on FCC ID APYHRO00273.

Additional information on Specific Absorption Rates (SAR) can be found on the FCC website at https://www.fcc.gov/general/radio-frequency-safety-0.

FCC ID Location

The device is electronically labeled and the FCC ID can be displayed via the System, the Advanced & the Authentication under the Settings menu.

Export Administration Regulations

The Export Administration Regulations may be applied to this product and its accessories under certain conditions. To export or reexport the handset and its accessories, conduct all legally required procedures at your own risk and expense. For details on the procedures, contact the US Department of Commerce.

Intellectual Property Right

Copyrights and rights of portrait

 Data with third party copyrights such as text, images, music and software that is downloaded via Internet websites, acquired by TV, video, etc. or shot by the handset cannot be duplicated, altered or publicly transmitted without rightful party's consent. Only duplicating, quoting, etc. for personal use are permitted under the Copyright Act.

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- WPA2™, WPA3™, and Wi-Fi Enhanced Open™ are trademarks of Wi-Fi Alliance.
- This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (https://www.openssl.org)
- This product includes cryptographic software written by Eric Young (eay@cryptsoft.com)

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Others

- Under the MPEG-4 Visual Patent Portfolio License, customers have licensed permission for the following use of this product to engage in non-profit personal use. Other uses are not permitted.
 Encoding MPEG-4 standard video (henceforth referred to as
- MPEG-4 video).

 Decoding an MPEG-4 video that a customer not engaged in
- personal commercial activities has encoded.

 Decoding an MPEG-4 video obtained from a licensed provider
- Decoding an MPEG-4 video obtained from a licensed provider. For details on other intended uses, contact MPEG LA, LLC.
- This product is licensed under the AVC patent portfolio license for the personal and noncommercial use of a consumer to (i) encode video in compliance with the AVC standard (henceforth referred to as AVC video) and/or (ii) decode AVC video that was encoded by a consumer engaged in a personal and noncommercial activity and/or was obtained from a video provider licensed to provide AVC video. No license is granted or shall be implied for any other use. Additional information may be obtained from MPEG LA, L.L.C.
 See https://www.mpegla.com
- The abbreviations of operating systems below are used in this manual.
 - Windows 10 stands for Microsoft® Windows® 10 (Home, Pro, Enterprise and Education).
 - Windows 8.1 stands for Microsoft® Windows® 8.1, Microsoft® Windows® 8.1 Pro and Microsoft® Windows® 8.1 Enterprise.

Open source software

- This product includes software based on GNU General Public License (GPL), GNU Lesser General Public License (LGPL) and other licenses.
 For details on licenses of related software, in the home screen, display "app list screen" ▶ [Settings] ▶ [System] ▶ [About phone] ▶ [Legal information] ▶ [Third-party licenses].
- Source codes of software based on GPL, LGPL and Mozilla Public License (MPL) can be referred to on the following website for free. For details, refer to the following website. http://k-tai.sharp.co.jp/support/developers/oss/ (in Japanese only)

Manufacturer: SHARP Corporation