

*au*

# AQUOS PHONE *SERIE*

SHL23

Basic Manual

## Preface

Thank you for buying the “AQUOS PHONE SERIE SHL23” (simply called the “SHL23” or the “product” from here on).

Before using the product, be sure to read the “Basic Manual” (this manual) to ensure correct use. After you have finished reading this manual, be sure to keep it accessible and store the printed manuals (Accessories) in safe places so that you can refer to them whenever you need them. If you lose the printed manuals (Accessories), contact an au shop or Customer Service Center.

## Operating Instructions

### “Basic Manual” (This Manual)

This manual describes basic operations of major functions.

For detailed descriptions of various functions, refer to the “Instruction Manual application” (Japanese version) that can be used on the product or “Full Instruction Manual” (Japanese) on the au homepage:

<http://www.au.kddi.com/english/support/manual/>

### “Instruction Manual Application” (Japanese/English Version)

You can use the “Instruction Manual application” (Japanese version) on the product to check detailed operational procedures.

Also, you can activate intended functions from an explanation screen depending on the functions. On the home screen, tap [アプリ] (APPS) → [取扱説明書] (Instruction Manual).

Also, you can use the “Instruction Manual application (English version)” on the product to check operational procedures.

On the home screen, tap [APPS] → [Basic Manual] after switching the display language to English (▶P.53).

- To use the application for the first time, you need to download and install it by following on-screen instructions.

## Safety Precautions

Before you start using the product, be sure to read the “Safety Precautions” to ensure correct use.

Before you assume that the product is malfunctioning, check for possible remedies in the following au Customer Support site of au homepage:

<http://www.au.kddi.com/english/support/>

## When Using the Product

- Communication is not possible even inside the service area in places where the signal does not reach (e.g. tunnels and basements). Also, communication may not be possible in poor reception areas. Communication may be interrupted if you move into a poor reception areas during communications.
- Since this product uses radio waves, the possibility of communication intercepts by third parties cannot be eliminated. (Though the LTE/CDMA/GSM/UMTS system has highly secure confidential communication features.)
- The product is compatible with the international roaming service. Each network service varies depending on the area and service content. For details, refer to “auのネットワークサービス・海外利用” (au Network Services/International Roaming) described in “Instruction Manual application” (Japanese) or “Full Instruction Manual” (Japanese).
- Since the product is a radio station under the Radio Law, you may be asked to temporarily submit the product for inspection in accordance with the Radio Law.
- The IMEI information of your cell phone is automatically sent to KDDI CORPORATION for maintenance and monitoring operational status of your cell phone.
- Since the battery is built into the product, you cannot replace it yourself. For replacing the battery, contact an au shop or Customer Service Center.
- Take care not to inconvenience people around you when you use the product in a public place.
- If you are using the product overseas, check the relevant laws and regulations of the country/region you visit.
- When the product is used by a child, parents or guardians should thoroughly read this manual and teach the child how to use it.

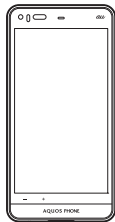
## Cell Phone Etiquette

### Use of cell phones is not allowed in the following places!

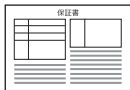
- Do not use a cell phone while driving a car or riding a motorbike or bicycle. It may cause a traffic accident. Use of a cell phone while driving a car or motorbike is prohibited by law. Use of a cell phone while riding a bicycle may be punishable by some regulations.
- Be sure to turn off the product while you are aboard an airplane. Otherwise, safety of your flight may be compromised.

## List of Packaged Items

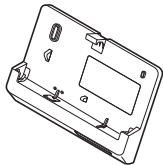
Before you start using the product, make sure that you have all the following packaged items with the product.



SHL23



Warranty  
(Japanese)



Desktop holder  
(SHL23PUA)

- Instruction Manual (Japanese)
- Setting Guide (Japanese)

The following items are not included in the package.

- |                       |                  |
|-----------------------|------------------|
| • microSD memory card | • AC adapter     |
| • Earphone            | • microUSB cable |

- Purchase a specified charger (sold separately).
- Illustrations of cell phones in this manual are only for reference. They may look different from the actual product.

### memo

- ◎ The battery is built into the product.

## Using au Disaster Countermeasure Application

au Disaster Countermeasure is an application in which you can use Disaster Message Board, Emergency Rapid Mail (Earthquake Early Warning, Disaster and Evacuation Information, and Tsunami Warning) and Disaster Voice Messaging Service.

### 1 On the home screen, [APPS] → [au災害対策] (au Disaster Countermeasure).

The au Disaster Countermeasure menu is displayed.

### ■ Using Disaster Message Board

Disaster Message Board is a service to enable customers in disaster areas to register their safety information via LTE NET when large-scale disasters, such as an earthquake whose Japan seismic scale is approximately 6-lower or more, occur. The registered safety information can be checked by customers using au phones, and also from other carriers' cell phones, PCs, etc.

For details, refer to “Disaster Message Board Service” on the au homepage.

### 1 From the au Disaster Countermeasure menu, [災害用伝言板] (Disaster Message Board).

Follow the on-screen instructions for registration/confirmation.

#### memo

- To register the safety information, an e-mail address (~ezweb.ne.jp) is required. Set the e-mail address in advance.
- Deletion of the safety information and configurations for Safety Notification Mail are not available during wireless LAN (Wi-Fi®) connection.
- The Company does not guarantee the quality of this service. The Company, regardless of the cause, shall not be liable for any problems related to registration of safety information due to the concentration of access to this service or equipment errors, any loss due to the damage, ruin, etc. of safety information or any loss arising from registered safety information.

### ■ Using Emergency Rapid Mail

Emergency Rapid Mail is a service to collectively deliver Earthquake Early Warning and Tsunami Warning provided by the Japan Meteorological Agency, and Disaster and Evacuation Information provided by the national government or the local governments to au phones in the specified areas.

- At the time of purchase, receiving setting of Emergency Rapid Mail (Earthquake Early Warning, and Disaster and Evacuation Information) is set to “受信する” (Receive). You can receive Tsunami Warning by setting 災害・避難情報 (Disaster and Evacuation Information).

When receiving Earthquake Early Warning, secure your safety and act composedly according to the surrounding situations.

When receiving Tsunami Warning, leave sea coasts immediately and evacuate to safe places such as hills and strongly-built tall buildings.

## 1 From the au Disaster Countermeasure menu, [緊急速報メール] (Emergency Rapid Mail).

The inbox is displayed.

Select a mail to check to display the details of the mail.

削除 (Delete)	Delete received mails.
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設定 (Settings)	<b>緊急地震速報 (Earthquake Early Warning)</b> Set whether to receive Earthquake Early Warning. • Tap [受信する] (Receive)/[受信しない] (Not receive) → [OK].
	<b>災害・避難情報 (Disaster and Evacuation Information)</b> Set whether to receive Disaster and Evacuation Information, and Tsunami Warning. • Tap [受信する] (Receive)/[受信しない] (Not receive) → [OK].
	<b>音量 (Volume)</b> Set the volume of the receiving sound.
	<b>バイブ (Vibrator)</b> Set whether to activate the vibrator at the time of reception.
	<b>マナー時の鳴動 (Linkage to the manner mode)</b> Set whether to notify you with the manner mode settings applied in the manner mode.
	<b>緊急地震速報 (Earthquake Early Warning)</b> Check the receiving sound and vibration of the product for Earthquake Early Warning.
	<b>災害・避難情報 (Disaster and Evacuation Information)</b> Check the receiving sound and vibration of the product for Disaster and Evacuation Information, and Tsunami Warning.

## memo

- ◎ This service is available only in Japan (Not available overseas).
- ◎ Emergency Rapid Mail is free of both information charges and communication charges.
- ◎ Emergency Rapid Mail cannot be received while the power is turned off or during a call.
- ◎ Emergency Rapid Mail may not be received during communication such as while sending and receiving e-mails/SMSs and while using the browser or when you are in a place where the signal cannot be received (e.g. tunnels and basements) or the signal is weak, even within the service area.
- ◎ Emergency Rapid Mail which failed to be received will not be able to be received again.
- ◎ When you receive Emergency Rapid Mail, the dedicated alarm tone rings. The alarm tone cannot be changed.
- ◎ Information intended for the areas of other than your present location may be received.
- ◎ As for this service, the Company shall not be liable for any damage incurred on the users resulted from failure or delay of information delivery due to communication disturbance or system failure, contents of the information or other problems that are not supposed to be blamed on the Company.
- ◎ For details on Earthquake Early Warning and Tsunami Warning provided by the Japan Meteorological Agency, refer to the agency's homepage.

<http://www.jma.go.jp/jma/indexe.html>

## Earthquake Early Warning

- ◎ Earthquake Early Warning notifies areas where a strong shaking (Japan seismic scale 4 or more) is expected when an earthquake whose maximum Japan seismic scale is predicted of 5-lower or more has been detected.
- ◎ This service detects an earthquake (P-wave, preliminary tremors) near the seismic center immediately after the earthquake occurs and automatically calculates its location, scale and predicted strength of the shaking. After that, you will be notified of the earthquake as soon as possible within a few seconds to dozens of seconds before a strong shaking from the earthquake (S-wave, principal shock) occurs.
- ◎ In the vicinity of the seismic center, a strong shaking may reach you before Earthquake Early Warning.
- ◎ The Earthquake Early Warning distribution system provided by this service is different from that provided by TV, radio and other communication media and thus the arriving time of Earthquake Early Warning may be different among those media.

## Tsunami Warning

- ◎ Tsunami Warning notifies areas including target sea coasts of Major Tsunami Warning and Tsunami Warning provided by the Japan Meteorological Agency.

## Disaster and Evacuation Information

- ◎ Disaster and Evacuation Information notifies information related to the safety of citizens, such as evacuation advisories, evacuation orders or various alarms delivered by the national government or the local governments.

## ■ Using Disaster Voice Messaging Service

Disaster Voice Messaging Service is a service to record voices with a smartphone and deliver them as a voice message to people to whom you want to deliver the information that you are safe when large-scale disasters occur.

### 1 From the au Disaster Countermeasure menu, [災害用音声お届けサービス] (Disaster Voice Messaging Service).

Follow the on-screen instructions.

#### memo

- To use this service via Wi-Fi®, making initial settings via LTE/3G networks is required.
- Voice messages can be recorded for up to 30 seconds.
- Voice messages can be exchanged among au cell phones as well as between NTT docomo and SoftBank Mobile cell phones.
- Voices may not be heard when the media sound volume is set to low.
- When no free space is left on the internal memory, voice messages may not be saved or played.
- Some cell phones cannot receive voice messages. For details, refer to the au homepage.

## ■ Using Disaster Information/Donation Website

You can check the histories of Disaster and Evacuation Information delivered by the local governments, Disaster Information portal and donation website.

### 1 From the au Disaster Countermeasure menu, [災害情報/義援金サイト] (Disaster Information/Donation website).

Select an item to check.



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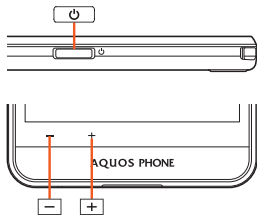
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## Safety Precautions

### Illustrations and Descriptions in This Manual

#### Note on Key Illustrations

In this manual, the key illustrations are simplified as shown below.



#### Description of Operations for Selecting Item/Icon/Key etc.

In this manual, operation procedures are described as below.

Description	Explanation
On the home screen, [APPS] → [Phone] → Enter "141" → [Call].	Tap "APPS" at the top of the 3-Line Home screen and tap "Phone". Then tap in order of "1", "4" and "1". Lastly, tap "Call".

Description	Explanation
(hold down for at least 2 seconds).	Hold  down for at least 2 seconds.

\* Tapping is to select a key or icon displayed on the screen by lightly tapping it with your finger.

#### Notes on Illustrations/Screenshots

The screenshots in this manual are simplified and may look different from the actual screens. Also, part of the screen may be omitted.

In this manual, part of the screen such as icons are omitted.



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## memo

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- Explanations of this manual are based on the case when the color of the main unit is "White" as an example.
- Explanations of this manual are based on the case when the product is held vertically. If you hold it horizontally, menu items/icons/on-screen keys etc. may be different.
- Menu items, layers and icons described in this manual may be different according to functions being used and conditions.
- "microSD™ memory card (commercially available)", "microSDHC™ memory card (commercially available)" and "microSDXC™ memory card (commercially available)" are abbreviated as "microSD memory card" or "microSD".

## Exemptions

- The Company is not liable for any damages arising from earthquakes, lightning, storms, floods or other natural disasters, as well as fires, actions by third parties, other accidents, intentional or mistaken operation by the customer, or use under other unusual conditions outside the responsibility of the Company.
- The Company is not liable for any incidental damages (change/disappearance of saved content, loss of business income, disruption of business, etc.) arising from use of or inability to use the product.  
It is recommended that you keep a copy of important phone numbers etc.

- The Company is not liable for any damages arising from failure to observe the described content of this manual.
- The Company is not liable for any damages arising, for example, from malfunction caused by combination with connected devices or software not related to the Company.
- Captured image data or downloaded data may sometimes be altered or lost due to faults, repair or other handling of the product. The Company is not liable for any damage or lost income resulting from recovery of these data.
- It is recommended you keep a copy of important data in your PC's hard disk, etc. Whatever the cause of fault or malfunction may be, the Company assumes no responsibility for alteration or loss of saved information.

- \* "The Company" as appears in this manual refers to the following companies:  
Sold by: KDDI CORPORATION,  
OKINAWA CELLULAR TELEPHONE COMPANY  
Manufactured by: SHARP CORPORATION

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- Reproduction of the content of this manual in part or in whole is prohibited.
- The content of this manual is subject to change without notice.
- Every effort has been made in the preparation of this manual. Should you notice any unclear points, omissions, etc., feel free to contact us.

## Safety Precautions (Observe Strictly)

- Before using the product, thoroughly read these safety precautions for proper use. After reading, store the precautions in a safe place.

These "Safety Precautions" describe instructions that should be observed to prevent damage to property or injury to the customer or others using the product. These instructions are divided into the following categories.







### Explanation of Indications Used in This Manual

 <b>DANGER</b>	This symbol indicates the potential and imminent danger of death or serious injury <sup>*1</sup> to a person.
 <b>WARNING</b>	This symbol indicates the possibility of death or serious injury <sup>*1</sup> to a person.
 <b>CAUTION</b>	This symbol indicates the possibility of personal injury <sup>*2</sup> to a person or physical damage <sup>*3</sup> .

<sup>\*1</sup> Serious injury: This refers to loss of sight, 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.

- <sup>\*2</sup> Injury: This refers to injuries, burns (high- and low-temperature), electric shock, etc. that do not require hospital admission for treatment or long-term hospital attendance as an outpatient.
- <sup>\*3</sup> Physical damage: This refers to extended damage to buildings, furniture, livestock or pets.

### Explanation of Graphic Symbols Used in This Manual

 Prohibited	Indicates an action that is not allowed.	 Wetting with water prohibited	Indicates that use in a place where the product is likely to get wet or allowing the product to get wet is not allowed.
 Wet hands prohibited	Indicates that handling with wet hands is not allowed.	 Instruction	Indicates an action that must be done.
 Disassembly prohibited	Indicates that disassembly is not allowed.	 Disconnect plug from power outlet	Indicates that the power plug must be disconnected from the power outlet.

## ■ Precautions Common to the Main Unit, Charger, au Micro IC Card (LTE), Peripheral Devices



### DANGER

Be sure to read the following hazards before use.



Instruction

Be sure to use only the specified peripheral devices. Use of other peripheral devices might cause overheating, ignition, rupture, fault, or leakage of liquid.



Prohibited

Do not use, store or leave the product in hot places (e.g. by the fire, near a heater, under a kotatsu, in direct sunlight, in a car in the hot sun). Doing so might cause ignition, rupture, fault, fire or injury.



Instruction

Before entering an area where flammable gas is generated such as a gas station, be sure to turn off the product. Do not charge the battery. Failure to observe these precautions might cause the gas to catch fire. In addition, when using Osaifu-Keitai® payment function at a gas station, be sure to turn off the power in advance. (If Osaifu-Keitai® has been locked, cancel the lock before turning off the power.)



Prohibited

Do not put the product in a cooking apparatus such as microwave oven or a pressure vessel. Doing so might cause leakage of liquid, ignition, rupture, fault, fire or injury.



Prohibited

Do not throw the product into a fire or heat it. Doing so might cause ignition, rupture or fire.



Prohibited

Do not short-circuit the charger terminal, the external connection jack and the earphone/microphone jack. Do not allow conductive foreign objects (metal fragments, pencil leads, etc.) to come into contact with or get inside a terminal/jack. Doing so might cause fire or a fault.



Prohibited

When using a metal accessory etc., do not allow the metal part to come in contact with the connection jack or power outlet. Doing so might cause electric shock, ignition, injury or a fault.



Prohibited

Do not expose the camera lens to direct sunlight for an extended period. Doing so might cause ignition, rupture or fire by the light-collecting mechanism of the lens.



Disassembly prohibited

The customer is not allowed to disassemble, modify or repair the product. Doing so might cause a fault, ignition, electric shock, or injury. The Company is not liable even in the event of any nonconformities arising on the product or peripheral devices as a result of modification, etc. Modification of the product is in violation of the Radio Law.



### WARNING

Be sure to read the following warnings before use.



Prohibited

Do not drop or subject to strong impact, such as throwing. Doing so might cause rupture, overheating, ignition or a fault.



Prohibited

Do not use outside when you can hear thunder. Doing so might risk lightning strikes and electric shock.



Prohibited

Do not let your hands, fingers and other parts of the body touch the external connection jack or earphone/microphone jack. Doing so might cause electric shock, injury or a fault.



Prohibited

If the product is damaged because it is dropped or something, and its display is cracked or internal parts are exposed, do not touch the cracked display or exposed parts with your hands. Doing so might cause electric shock or injury from damaged parts. Contact an au shop or Keitai Guarantee Service Center.



Wetting with water prohibited

Never charge the product when it is wet. Doing so might cause electric shock or short circuit/corrosion causing fire or a fault.



Wetting with water prohibited

Although the product has waterproof capability, do not use if liquid such as water gets inside the product from the external connection jack cover, au Micro IC Card (LTE)/microSD memory card cover, etc. Continued use of the product in this state might cause overheating, ignition or a fault.



Instruction

If charging is not completed after the specified charging time, stop charging. Failure to do so might cause leakage of liquid, overheating, rupture or ignition.



Prohibited

Do not leave in places within the reach of small children. Small children might swallow part of the equipment by mistake and choke on them, or might drop them by mistake and cause accidents or injury.



## CAUTION

**Be sure to read the following cautions before use.**



Prohibited

Do not store the product in places subject to direct sunlight (e.g. in automobiles), places that get hot, places that get extremely cold, and in humid or dusty places. Doing so might cause overheating, ignition, deformation or a fault.



Prohibited

Do not leave on unstable places such as rocky stands or tilting surfaces especially while the vibration mode is set. Dropping the product may cause injury or damage. Also, pay sufficient attention to impact, etc.



Prohibited

Do not cover or wrap the product with cloth, bedding, etc. while using or charging the product. Doing so might cause fire, fault or injury.



Prohibited

Do not touch the product or specified chargers (sold separately) for a long time while charging. Doing so might cause low-temperature burns.



Prohibited

Do not use power outlets or wiring apparatus beyond its rating. Also, exceeding rating, for example, by connecting multiple devices to a single power strip might cause overheating and fire.



Prohibited

Do not place near corrosive chemicals or in places where corrosive gas is generated. Doing so might cause a fault or loss of internal data.



Instruction

Stop use if there is smoke, abnormal odor or noise, excessive overheating, or other abnormalities. During charging, disconnect the specified charger (sold separately) from the power outlet or the socket, make sure that the product is not overheating before turning the power off and contact an au shop or Keitai Guarantee Service Center. Also, if you have dropped or damaged the product, do not continue to use it in that state, and contact an au shop or Keitai Guarantee Service Center.



Instruction

When inserting an earphone, etc. into the product, adjust the volume to the proper level. Setting too loud a volume or using the earphone continuously for a long period of time might adversely affect your ears. Also, raising the volume too high might prevent you from hearing sounds around you, which might in turn lead to a traffic accident at a railroad crossing or pedestrian crossing.



Instruction

When adjusting the volume with an earphone, etc. inserted into the product, raise the volume a little at a time. If you raise the volume too much from the outset, sudden loud noise from the earphone, etc. might adversely affect your ears.



Instruction

When using a charger or external device, insert/remove the connector straight to/from the jack. Make sure the orientation of the connector is correct. Failure to do so might cause damage or a fault.



Instruction

When small children use the equipment, have the guardian teach them the proper handling procedures so as to avoid potential dangerous situations. In addition, check that they are using the equipment as directed during use. Failure to do so might cause injury etc.

## ■ Main Unit



### DANGER

**Be sure to read the following hazards before use.**



Prohibited

Do not puncture the product with a nail, hit it with a hammer or step on it. Doing so might cause leakage, overheating, rupture or ignition of the internal battery.



### WARNING

**Be sure to read the following warnings before use.**



Instruction

Be careful not to have the product bitten by your pet. Failure to do so might cause leakage, overheating, rupture or ignition of the internal battery.



Prohibited

Do not use a cell phone while driving a car or riding a motorbike or bicycle. Doing so may cause a traffic accident. Use of a cell phone while driving a car or motorbike is prohibited by law. Use of a cell phone while riding a bicycle may be punishable by some regulations.



Instruction

Turn off the product while you are aboard an airplane.

Otherwise, the product may affect electronic devices and safety of your flight may be compromised. If your cell phone is permitted to be used on an airplane, use it appropriately by following instructions from the airline company. Do not connect the product with a PC aboard an airplane using the microUSB cable 01 (sold separately), since the product is automatically turned on.



Instruction

The product sometimes affects high-precision electronic devices. So, turn it off near such devices. (Examples of electronic devices that might be affected by the product include cardiac pacemakers, hearing aids, other electronic medical devices, fire alarms, and automatic doors. If you are using an electronic medical device, contact the device manufacturer or retailer for information about the possible effects of radio waves.)



Instruction

When using the product near an implanted pacemaker, implanted cardioverter-defibrillator or other electronic medical device, radio waves might affect these units and devices. So, please observe the following.

1. Those with an implanted pacemaker or implanted cardioverter-defibrillator should carry or use the product at least 15 cm away from where the implant is.
2. Change to Airplane mode on the product beforehand or turn the product off before entering a place where it may not be possible to maintain a distance of 15 cm, such as where movement is restricted, since there may be people with a cardiac pacemaker or implanted cardioverter-defibrillator nearby.
3. Pay attention to the following points when using the product inside medical institutions.
  - Do not bring the product into operating theaters, intensive-care units (ICU) and coronary care units (CCU).
  - Turn the product off in hospital wards. Do not connect the product with a PC in hospital wards using the microUSB cable 01 (sold separately), since the product is automatically turned on.
  - Even if you are in a lobby, etc., be sure to turn the product off when there are electronic medical devices nearby.
  - When a medical institution has laid down designated areas where use of the product is prohibited or is not allowed to be brought in, abide by the instructions of that medical institution.
4. When using electronic medical devices other than an implanted pacemaker and implanted cardioverter-defibrillator outside a medical institution (e.g. home medical treatment), check individually with the manufacturer of the electronic medical device regarding the influence of radio waves.





Instruction

Stay alert to your surroundings when calling, messaging, browsing the Internet, shooting photos, playing games, watching TV or listening to music. Failure to do so might cause a fall or traffic accident.



Prohibited

Do not send data by infrared communication with the infrared port pointing toward eyes. Doing so might affect eyes. Also, sending data with the infrared port pointing toward some other infrared device might cause false operation, etc.



Prohibited

Do not point the illuminated light directly at someone's eyes. Be especially careful not to shoot small children from a very close distance. Do not use Mobile light near people's faces. Eyesight may be temporarily affected leading to accidents.



Prohibited

Do not light the mobile light toward a driver of a car, motorbike or bicycle. If dazzled by the light, the driver might become unable to drive and cause an accident.



Instruction

Sometimes, very rarely some people demonstrate symptoms such as temporary muscle spasms, loss of consciousness, etc. by watching repeatedly flickering screens. Those with a past history of this should consult with a physician beforehand.



## CAUTION

**Be sure to read the following cautions before use.**



Prohibited

Use of the main unit in an automobile might sometimes affect on-vehicle electronic devices, though this rarely happens. If this happens, do not use since this may impair safe travel.



Instruction

If you feel any abnormality with your skin, immediately consult a dermatologist. Itching, rashes, eczema, etc. sometimes occurs depending on your physical constitution and condition.

The materials of parts used on the product are as follows.

Part	Material	Surface treatment
Outer case (side of display)	PA resin + GF45%	Acrylic UV cured coating
Back cover	PC resin	Acrylic UV cured coating
External connection jack cover (body)	PC resin	Acrylic UV cured coating
External connection jack cover (hinge)	Elastomer resin	None
External connection jack cover (seal)	Silicon rubber	None
au Micro IC Card (LTE)/microSD memory card cover (body)	PC resin	Acrylic UV cured coating

Part	Material	Surface treatment
au Micro IC Card (LTE)/microSD memory card cover (hinge)	Elastomer resin	None
au Micro IC Card (LTE)/microSD memory card cover (seal)	Silicon rubber	None
IMEI tray	PP resin	None
Earphone/microphone jack	PA resin	None
TV antenna (tip)	PA resin	None
TV antenna (element)	SUS	None
TV antenna (attaching part)	Die-cast zinc	Nickel plating
TV antenna (attaching screw)	SUS	Nickel plating
Power key	PC resin	Acrylic UV cured coating
Display	Reinforced glass	Anti-smudge coating
Camera lens cover	PMMA resin	Anti-smudge coating/AR coating
Mobile light lens cover	PC resin	None
Charger terminal	SUS	Gold plating

The materials of parts used on the desktop holder are as follows.

Part	Material	Surface treatment
Outer case (front/rear)	ABS resin	None
Switching lever	POM resin	None
Contact lever	POM resin	None
Contact terminal (+ - pin terminals)	Red brass	Gold plating
Connection jack (microUSB)	SUS	Tin plating
Screw	Carbon steels for cold heading	Trivalent chromate
Rubber leg	Polyurethane resin	None
Locking levers	POM resin	None
Rubber for the inlet of duct	Elastomer resin	None



Prohibited

Do not bring the product close to magnetized objects such as cash cards, floppy disks, credit cards, and prepaid cards. Doing so might result in loss of recorded information.



Prohibited

Do not allow liquids, metal objects, burnable items, and other foreign matter to get inside the microSD memory card slot. Doing so might cause fire, electric shock or a fault.



Prohibited

Do not swing the product around by holding the strap, TV antenna, etc. Doing so might cause an accident or damage.



Instruction

Use the product with the external connection jack cover, au Micro IC Card (LTE)/microSD memory card cover, etc. closed. If the covers are open, dirt or water may get inside causing a fault.



Instruction

Stow the TV antenna when not watching TV. If you operate the product for calling, etc. with the TV antenna extended, it might cause unexpected injury by hitting your face, etc.



Instruction

If you have a weak heart, be careful when setting the incoming vibration and ringtone volume to prevent adverse effects on your heart.



Instruction

Pay attention to items becoming stuck to the main unit. The speaker uses magnets, and so thumbtacks, pins, craft knife blades, staples, and other metal objects sometimes become stuck to the main unit, and cause unexpected injury.



Prohibited

Do not put the product directly on sand at a beach, etc. Sand or other small particles might get inside the earpiece, mouthpiece, speaker or earphone/microphone jack causing the volume to drop. If sand gets inside the product, it might cause overheating or a fault.



Instruction

The product may become hot by prolonged use especially in high-temperature environment. Be careful when using the product touching your skin for a long time, as it might cause low-temperature burns.



Prohibited

When using the product for calling or data communication, do not keep the product in direct contact with your skin for a prolonged period, or do not cover the product with paper, cloth, bedding, etc. The product might get hot, causing fire, burns or a fault.



Prohibited

Do not swing the product around with the TV antenna extended. Doing so might cause injury or deform/damage the TV antenna.

## Internal Battery



Li-ion00

**(The internal battery of the product is a lithium-ion battery.)**

The internal battery is not fully charged at the time of purchase. Charge the battery before using the product.



**DANGER**

**Be sure to read the following hazards before use.**



Instruction

If the liquid leaking from inside gets on your skin or clothes, immediately rinse it off with water to avoid injury. If the liquid gets into your eyes, do not rub but wash your eyes with water, and immediately consult a doctor to avoid the risk of losing your eyesight.



Instruction

The internal battery is a consumable item. If the performance of the internal battery does not recover (e.g. the usable time after each charge has become extremely short), the internal battery is at the end of service life, so stop using it. Failure to do so might cause overheating, ignition, rupture or leakage. Since the battery is built-in type, the product will be kept at an au shop etc. and charges will be incurred for repair. Also, you may not use the product in certain period of time. Note that the length of service life varies depending on the usage condition, etc.

## Charger



### WARNING

**Be sure to read the following warnings before use.**



Prohibited

Do not use at other voltages than the specified power supply voltage. Doing so might cause ignition, fire, overheating or electric shock.

- Specified AC adapter (sold separately): 100 V AC to 240 V AC  
Do not charge with voltage converter for overseas travel.
- Specified DC adapter (sold separately): 12/24 V DC (for negative grounded vehicles only)



Instruction

Firmly insert the power plug of the specified charger (sold separately) into the power outlet or cigarette lighter socket down to the base of its pins. Incomplete insertion of the power plug might result in electric shock or fire caused by overheating and ignition. Do not use damaged specified charger (sold separately) or loose power outlets or cigarette lighter sockets.



Instruction

If the fuse in the common DC adapter 03 (sold separately) blows, replace it with a fuse of the specified type (250 V, 1 A). Replacing with a different type of fuse might cause overheating or ignition. (For information about fuse replacement, carefully read the manual for the common DC adapter 03 (sold separately).)



Prohibited

Do not damage, modify, twist, pull or place a heavy object on the cable of the specified charger (sold separately). Do not use a damaged cable. Doing so might cause electric shock or short circuit causing fire or a fault.



Prohibited

Do not let your hands, fingers and other parts of the body touch the charger terminal. Doing so might cause electric shock, injury or a fault.



Prohibited

If you hear thunder, do not touch the AC adapter or desktop holder. Doing so might cause an electric shock as a result of a lightning strike.



Disconnect plug from power outlet

Before cleaning the specified charger (sold separately), unplug its power plug from the outlet or cigarette lighter socket. If the plug remains plugged in when you clean the charger, it might cause electric shock or short circuit causing fire or a fault.



Instruction

Wipe off dust on the power plug. Failure to do so might cause fire, burns or electric shock.



Instruction

Place the common DC adapter 03 (sold separately) where it does not hinder driving or safety equipment such as airbags. Failure to do so might cause a traffic accident. Place the common DC adapter 03 (sold separately) following the instructions of its manual.



Disconnect plug from power outlet

When the charger is not to be used for a long time, disconnect the charger's power plug from the power outlet or cigarette lighter socket. Failure to do so might cause electric shock, fire or a fault.



Wetting with water prohibited

The desktop holder and specified charger (sold separately) are not waterproof. Never use in places subject to direct splashing with water, pet urine, etc. or in humid places such as a bathroom. Doing so might cause overheating, fire or electric shock. In the event that a charger is splashed with liquid, immediately disconnect its power plug.



Wet hands prohibited

Do not plug in or unplug the specified charger (sold separately) with wet hands. Doing so might cause electric shock or a fault.



Prohibited

Do not use the desktop holder inside a car. The desktop holder falling or hindering driving may cause an accident. The desktop holder assumes use on a stable surface indoors.



## CAUTION

**Be sure to read the following cautions before use.**



Disconnect plug from power outlet

When unplugging the power plug of the specified charger (sold separately) from the outlet or cigarette lighter socket, hold the charger to do so. If you pull the cable, it might be damaged, causing overheating, ignition or electric shock.

## ■ au Micro IC Card (LTE)



## WARNING

**Be sure to read the following warnings before use.**



Prohibited

Do not put the au Micro IC Card (LTE) in a cooking apparatus such as a microwave oven or a pressure vessel. Doing so might cause melting, overheating, fuming, loss of data or a fault.



## CAUTION

**Be sure to read the following cautions before use.**



Instruction

Be careful not to injure your hand or finger when attaching/removing the au Micro IC Card (LTE).



Instruction

Use only the devices specified by the Company to insert the au Micro IC Card (LTE) in. Using a device not specified by the Company might cause loss of data or a fault.

For the specified devices, contact an au shop or Customer Service Center.



Disassembly prohibited

Do not disassemble or modify the au Micro IC Card (LTE). Doing so might cause loss of data or a fault.



Prohibited

Do not use or leave the au Micro IC Card (LTE) in hot places such as by a fire or a heater. Doing so might cause melting, fuming, loss of data or a fault.



Prohibited

Do not throw the au Micro IC Card (LTE) into a fire or heat it. Doing so might cause melting, fuming, loss of data or a fault.



Prohibited

Do not touch the IC (metal) part of the au Micro IC Card (LTE) or short-circuit it. Doing so might cause loss of data or a fault.



Prohibited

Do not drop the au Micro IC Card (LTE) or subject it to strong impact. Doing so might cause loss of data or a fault.



Prohibited

Do not fold, bend or place a heavy object on the au Micro IC Card (LTE). Doing so might cause loss of data or a fault.



Wetting with water prohibited

Do not wet the au Micro IC Card (LTE). Doing so might cause loss of data or a fault.



Prohibited

Do not scratch the IC (metal) part of the au Micro IC Card (LTE). Doing so might cause loss of data or a fault.



Prohibited

Do not store the au Micro IC Card (LTE) in dusty places. Doing so might cause loss of data or a fault.



Prohibited

Do not store the au Micro IC Card (LTE) in places exposed to direct sunlight or hot and humid places. Doing so might cause loss of data or a fault.



Instruction

Store the au Micro IC Card (LTE) out of reach of small children. Accidental swallow might cause asphyxiation, injury, etc.

## Handling Precautions

These precautions are provided to ensure that performance can be fully demonstrated. Thoroughly read these precautions to ensure correct use.

### ■ Precautions common to the main unit, internal battery, charger, au Micro IC Card (LTE), peripheral devices

- Do not apply excessive force to the product during use. Be sure not to put the product into a tightly packed bag or place a heavy object on the product in a bag. Sitting on the product in your pocket might damage the display or internal circuit board resulting in a malfunction.  
Keeping an external device connected to the external connection jack might damage the connector resulting in a malfunction. Such damage and malfunction are not covered by the warranty, even if there is no external damage.
- To ensure waterproof property (equivalent to IPX5 and IPX7) of the product, use the product with the external connection jack cover and au Micro IC Card (LTE)/microSD memory card cover tightly closed.  
Note that the waterproof property is not guaranteed in every usage condition. Do not allow water to get inside the product or splash water on the charger or optional accessories. Do not open/close the external connection jack cover or au Micro IC Card (LTE)/microSD memory card cover in the rain or with water drops on the surface of the product. Doing so might cause water intrusion resulting in internal corrosion. Malfunctions determined to be caused by water intrusion are not covered by the warranty.
- Do not use the product in extremely hot, cold or humid places. (Use within an ambient temperature range of 5°C to 35°C and humidity range of 35% to 85%).
  - Charger
  - Conversion cables
- Do not use the product in extremely hot, cold or humid places. (Use within an ambient temperature range of 5°C to 35°C and humidity range of 35% to 85%. Using at a temperature of 36°C to 40°C is allowed only when you use the product temporarily.)
  - SHL23
  - au Micro IC Card (LTE) (inserted into the SHL23)
- Do not use in places subject to lots of dust or vibration.
- Clean the charger terminal and external connection jack on the product, and connection jack on the desktop holder with dry cotton swabs, etc. every now and then. A soiled terminal/jack might cause poor connection. When cleaning them, do not exert a strong force to prevent deformation.
- Clean the product with a soft dry cloth (such as the type used for eyeglasses). Forceful rubbing with a dry cloth may scratch the display. The display may be stained if splash or smear is left attached to the surface. Wiping the product using alcohol, thinner, benzene, detergent, etc. might erase the printing on the outer casing or cause discoloration.
- Use as far away as possible from fixed-line phones, TVs and radios. Use nearby might affect them.

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- The product may become warm while charging or during other operations, depending on the situation, but this is not abnormal.
  - When the temperature of the product gets high during use, the product may temporarily lower the screen brightness or may stop part of its functions to protect the main unit.
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## ■ Main unit

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- Do not forcefully press, tap or intentionally subject the display to strong impact. Doing so might cause scratching or damage.
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- Do not forcefully press sharp objects or hard objects against keys or display surface. Doing so might cause scratching or damage.


The touch panel is designed to be lightly touched by fingers. Do not apply strong pressure with your fingers or sharp-pointed objects (such as ballpoint pens and pins) on the touch panel.

In the following cases, the product may not respond to touching the touch panel, or errors in operation may occur.

- Operation with gloved hands
  - Operation with fingernails
  - Operation with a foreign object placed on the touch panel
  - Operation with a protective film or sticker on the touch panel
  - Operation with water drops left or condensation formed on the surface
  - Operation with wet or sweaty fingers
  - Operation under water
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- Never use modified au cell phones. Use of a modified device violates the Radio Law.

You can perform the following operations to confirm the unique authentication and standard marks (including certification/authentication numbers) for the product. On the home screen, tap [APPS] → [Settings] → [Device info] → [Authentication].

The product has acquired the certification of conformity with technical regulations for the specified radio station based on the Radio Law and certification of conformity with technical regulations for the terminal based on the Telecommunications Business Law, and the "Technical Conformity Mark " can be confirmed in the product as a certificate. Confirm contents of electrical certificates in the product for information on certification.

If the screws of the product are removed and modifications are made to the internal components, the certification of conformity with technical regulations will become invalid. Never use the product without the valid certification. Doing so violates the Radio Law.

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- To prevent unlawful modification, the product has been designed so that it cannot be easily disassembled. Modifying the product is prohibited by the Radio Law.
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- Contents saved in the product, such as contacts, mails and bookmarks might be altered or lost by an accident, fault, repair or mishandling. Be sure to keep a copy of important contents. Note that the Company assumes no responsibility for any damages or lost profits resulting from altered or lost contents.
- 

- Note that content data (both charged or free content) saved on the product cannot be returned to the customer when the product is replaced for repair of a fault, for example.
-



- The product uses liquid crystal for its display. The display response speed may become slow when the ambient temperature is low, which is due to the property of liquid crystal and not a malfunction. The display response speed will return to normal at room temperature.
- Although the display used on the product is made using high-precision technology, some pixels (dots) might be lit or out at all times. This is not a malfunction.
- Take care not to inconvenience people around you when you use the product in a public place.
- You are recommended to store copies of individual data such as still pictures/videos you took and music in your PC by sending each file as mail attachment, etc. Note, however, that you may not be able to make copies of some copyrighted data even by the above-mentioned means.
- Take care not to place magnetized items such as magnetic cards, speakers and TV sets near the product, as it might cause malfunction. Putting strong magnetism close to the product might cause false operation.
- When you put the product in your pocket or bag, take care so that the display does not come in contact with metal objects or other hard objects, as it might cause scratching or damage. Also, be careful not to scratch or damage the display by using a strap whose metal or other hard part comes in contact with the display.

- When suddenly brought into a warm place from a cold place, or when in a humid location, or when used where temperature suddenly changes (e.g. near the air discharge port of an air conditioner), water drops (i.e. condensation) sometimes are formed inside the product. Note that when used under conditions such as this, humidity might cause corrosion or a fault.
- When wiping the display, wipe with a soft, dry cloth. Use of a moistened cloth, glass cleaner or other similar liquid might cause a fault.
- When connecting/disconnecting an external device to/from the external connection jack or earphone/microphone jack, make sure to insert/remove the connector or earphone plug of the external device straight to/from the jack.
- Note that applying unnecessary force with an external device connected to the external connection jack or earphone/microphone jack may cause damage.
- Do not discard the product together with regular trash. Please cooperate in the collection of the product when it is no longer needed to protect the environment and effectively use resources. Old products are collected at au shops and other places.
- Insert only a microSD memory card into the microSD memory card slot on the product.
- Do not exert excessive force when attaching/removing a microSD memory card. Doing so might injure your hands or fingers.
- While writing/reading data to/from a microSD memory card, do not subject the product to vibration or impact or turn off the power. Doing so might cause loss of data or a fault.

- When hearing the other party's voice, make sure that the earpiece is placed at the center of your ear. If the earpiece (audio output port) is closed by the ear lobe, it may be hard to hear the voice.
- Even if you cover the mouthpiece to make your voice inaudible to the other party, the other party can hear your voice.
- When using handsfree call, take care to keep the speaker at a safe distance from your ears, as the speaker volume may be too loud.
- Do not cover the light sensor with your finger or put a sticker on it. Doing so may hinder the light sensor from detecting the ambient brightness and functioning correctly.
- Do not put a sticker, etc. on the proximity sensor. Doing so may cause the sensor to malfunction and make the display always turned off while making a call or during a call.
- If the display gets damaged, immediately stop use and contact an au shop or Keitai Guarantee Service Center. Keeping using it may cause injury.
- Putting a sticker, etc. on the display or a key may cause malfunction or shortened usage time. Also, doing so may damage the product.

- When answering a call while the TV antenna is extended or it is kept standing (e.g. while you are watching TV), take lots of care especially to the tip of the TV antenna so that it will not do any harm on surrounding people nor touch your own eye.
- If you put magnetized objects, metal straps, etc. close to the product, the speaker section sometimes emits sounds. This is not a fault.
- Note that if you forcefully pull the external connection jack cover or au Micro IC Card (LTE)/microSD memory card cover or apply excessive force on them, they may be damaged.
- When you put the product in your pocket or bag, do not forget to replace the TV antenna to its original position. Also, do not forcefully pull or bend the TV antenna intentionally. Doing so may cause scratching or damage.
- Bright places such as under the direct sunlight sometimes make it hard to see the display. This is not a fault.

## ■ Touch panel

- Use your finger to operate the touch panel. Do not use ballpoint pens, pencils or other sharp-pointed objects. Using such objects does not only hinder correct operation of the touch panel, but also might cause scratching or damage to the display.

- Do not put stickers or sheets (e.g. commercially available protective films, peep prevention sheets) on the display. Doing so might hinder correct operation of the touch panel.
- Operating the touch panel with fingernails might result in split nails or jammed fingers.
- If the display surface is dirty or wet with sweat or water, it may not function correctly. In such case, wipe the display surface with a dry, soft cloth.
- When carrying the product in your pocket or bag, take care not to put the touch panel close to metals or other conductive materials, as it might cause false operation of the touch panel.

## ■ Internal battery

- Use in very hot or cold environments, for example, when left in an automobile with the windows closed in summer, will cause the internal battery capacity to drop and shorten the available battery usage time. This will also shorten the internal battery's service life. Try to use the internal battery as much as possible at room temperature.
- The internal battery gradually discharges after charging even if the product is not used. The internal battery may discharge completely after long time no use. Charge before using the product.

- Because the internal battery performance or service life will become low, do not store the product in the following conditions.
  - Battery level is full (soon after charging is complete)
  - Battery level is empty (to the extent that the product is not powered on)
  - In extremely hot or humid conditions
- Charge the battery before using the product for the first time after purchase, or if you have not used the product for a long time.
- The internal battery is a consumable item. If the performance of the internal battery does not recover after charge, the internal battery is at the end of service life, so stop using it. Since the battery is built-in type, the product will be kept at an au shop etc. and charges will be incurred for repair. Also, you may not use the product in certain period of time. Note that the length of service life varies depending on the usage condition, etc.
- Internal batteries sometimes swell up as they approach the end of their service life depending on the usage condition. This is due to the properties of lithium-ion batteries, and is not a problem in terms of safety.

## ■ Charger

- When not using the specified charger (sold separately), remove its power plug from the power outlet or the cigarette lighter socket.
- Do not wrap the power cord of the specified charger (sold separately) around the power plug or desktop holder. Doing so might cause electric shock, overheating or fire.

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- Do not forcibly bend the charger's plug or the connection between the connector and power cord. Doing so might cause electric shock, overheating or fire.
  - Do not use the common DC adapter 03 (sold separately) with the car engine stopped. Doing so might result in draining of the car battery.
- 

## ■ au Micro IC Card (LTE)

- The au Micro IC Card (LTE) is lent to you by au. In case of loss or damage, the card will be replaced at your expense. When malfunction is suspected, or in case of theft or loss, contact an au shop or PiPiit.
  - Do not forcibly remove or insert the au Micro IC Card (LTE). Be careful not to exert excessive force when inserting the card into your au cell phone.
  - You are responsible for any damage caused by inserting your au Micro IC Card (LTE) into some other IC card reader/writer, etc.
  - Keep the IC (metal) part of your au Micro IC Card (LTE) clean. Wipe the card with a dry, soft cloth (such as for cleaning eyeglasses) for cleaning.
  - Do not put stickers, etc. on the au Micro IC Card (LTE).
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## ■ Camera

- When using the camera, follow common rules of etiquette regarding camera use.
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- Image data might be altered or lost due to malfunction, repair or mishandling of the product. The Company takes no responsibility for recovery of altered or lost data, damages resulting from altered or lost data, and lost profits.
  - When photographing important occasions (such as a wedding), take a trial shot and check the shot image to make sure it is correctly shot.
  - Do not use the camera for recording commercially available books or information of which photographing is not allowed.
  - Do not leave the camera lens exposed to direct sunlight. Imaging elements might be discolored or burnt.
- 

## ■ Music, videos and TV

- Do not listen to music, watch videos or TV while driving a car or motorbike, or riding a bicycle. Use of cell phones while driving a car or motorbike is prohibited by law. (Use of cell phones while riding a bicycle may also be punishable by law.) In addition, stay alert to the traffic around you even when walking. Surrounding sounds might not be heard clearly, and gazing at the screen may distract your attention causing a traffic accident. Be especially careful at railroad crossings, station platforms and pedestrian crossings.
  - Take care not to listen at ear-splitting volume for a long time, as it might affect hearing.
  - Be careful of sound leakage from earphones in trains or other places with many people around you.
-

## ■ Copyrights and rights of portrait

- If the data you shot or recorded using the product or the data you downloaded from the Internet etc. is in part or in whole protected by the third party's copyright, you are not allowed to copy, distribute, publicly send, modify the data without consent of the copyright holder, except for personal use, under the copyright law.

In addition, do not use or modify portraits or names of other individuals without their consent, as it may infringe on rights of portrait.

Note that shooting and recording might be restricted at some live performances, shows and exhibitions even for personal use.

- Be careful about the copyright and portrait right when posting still pictures you shot, etc. on Internet homepages.

## ■ Back up content on the product

- Please back up important content recorded or downloaded to the product to an outside source. Content recorded to memory on the product sometimes disappears or is altered by unexpected factors, such as static electricity or a fault, or by repair, mishandling, etc.

\* How to make backups: Store important data such as phonebook data, music, shot still pictures and videos on microSD memory cards. You can also send files as mail attachment or transfer to your PC. Note, however, that there are some data that cannot be copied by using these means.

## Available Security Codes

### Security Codes

The product has various security codes that you can use.

The available security codes are as follows. Do not forget the various security codes that are set as they are necessary for various operations and contracts.

#### ■ Security code

Example of usage	① To do remote operation of voice mail and call forwarding services from a landline phone ② To use Customer Service Center and to do various inquiries, applications, and modifications on the au homepage
Initial value	A four digit number chosen by the customer and noted on the application form

#### ■ Security key

Example of usage	To set and release restriction on voice calls, etc.
Initial value	1234

## ■ PIN code

Example of usage	To prevent unauthorized use of the au Micro IC Card (LTE) by third parties
Initial value	1234

## ■ Lock No. (NFC/Osaifu-Keitai lock)

Example of usage	To use the NFC/Osaifu-Keitai lock
Initial value	1234

## PIN

### ■ PIN Code

To prevent unauthorized use of the au Micro IC Card (LTE) by a third party, you can set the product to require PIN code entry every time the power is turned on. You also need to enter PIN code when setting whether PIN code entry is required.

If PIN code is incorrectly entered three times consecutively, the PIN code will be locked. You can unlock the PIN code using PUK code.

- PIN code is "1234" and PIN code entry is set to not be required at the time of purchase. You can change PIN code to any four- to eight-digit number, and set PIN code entry to be required as necessary.

### ■ PUK Code

In case PIN code is locked, you can unlock it by entering PUK code.

- PUK code is an eight-digit number given at the time of purchase, which is printed on the back side of the plastic card on which your au Micro IC Card (LTE) is attached.
- After entering PUK code, you need to set a new PIN code.
- If PUK code is incorrectly entered ten times consecutively, contact an au shop, PiPit or Customer Service Center.
- "PIN code" is not reset by initializing the product.

#### memo

- © When the PIN code is locked, the product may restart for the security reasons.

## Notes on Waterproof and Dustproof Properties

Before using the product, thoroughly read the contents of “Notes on Waterproof and Dustproof Properties” to ensure correct use. Failure to follow the contents described in these sections may cause intrusion of water, sand or other foreign material, resulting in overheating, ignition, electric shock, injury or fault. Proper operations of the product are not guaranteed in every possible condition during actual use. Faults determined, after an inspection, to be caused by mishandling by the customer such as by using the product without following the contents written on “Notes on Waterproof and Dustproof Properties” are not covered by the warranty.

### ■ Waterproof and Dustproof Properties of the Product

The product has a protection rating (JIS C 0920) for waterproof property equivalent to IPX5<sup>\*1</sup> and IPX7<sup>\*2</sup> and for dustproof property equivalent to IP5X<sup>\*3</sup> on the condition that the external connection jack cover and au Micro IC Card (LTE)/microSD memory card cover are securely closed (Based on the experiments by the Company).

- \*1 IPX5 means that the cell phone continues to function as a phone after being subjected to a water jet (approximately 12.5 liters/min) discharged from a water pouring nozzle (inner diameter: 6.3 mm), from all directions and approximately 3 meters away from the cell phone for at least 3 minutes.
- \*2 IPX7 means that the cell phone continues to function as a phone after being gently lowered into a tank filled with still tap water (at room temperature) to the depth of 1 meter, immersed at the bottom for approximately 30 minutes and then taken out of the tank.
- \*3 IP5X means the level of dust protection. The cell phone continues to function as a phone in safety after it is left in a device containing dust (diameter: 75 μm or smaller) for 8 hours, agitated and then taken out.

### ■ Waterproof and dustproof properties of the product enable you

- To talk on the product in the rain without an umbrella (with a precipitation of 20 mm/hour or smaller).
- To use the product at the poolside. However, do not get it wet with water other than tap water such as water in the swimming pool or submerge it in water in the swimming pool.
- To wash the product with the low-pressure water flow of a tap water (6 liters/min or lower) at the room temperature (5°C to 35°C).

### ■ Handling the product

- Close the external connection jack cover and au Micro IC Card (LTE)/microSD memory card cover securely. Even a fine obstacle (one hair, one grain of sand, tiny fiber, etc.) put between contact surfaces may cause intrusion of water or dust.

- If liquid such as water is splashed onto the product with the external connection jack cover or au Micro IC Card (LTE)/microSD memory card cover opened, the liquid may seep inside and cause electric shock or fault. Stop using it, turn off the power and then contact an au shop near you or Keitai Guarantee Service Center.
- When the product is wet, wipe it with a dry and clean cloth.
- When your hand or the product is wet, never open/close the external connection jack cover or au Micro IC Card (LTE)/microSD memory card cover.
- The product is resistant to fresh and tap water at room temperature (5°C to 35°C) only.
- Do not use the earphone when any jack is wet or sand or dust is attached to it. Doing so may cause fault such as impairment of the waterproof/dustproof property.

#### ■ Dustproof property of the product

- The dustproof property of the product only guarantees a protection rating equivalent to IP5X and does not guarantee its performance under other using conditions such as when the product is directly put on sand such as a beach.
- If dust is attached to the product, immediately wash it away with water or otherwise clear it completely before use.

#### ■ Notes on Using the Product

- Do not let the product get wet with or submerged into the following liquids.
  - Water containing soap, detergent or bath powder
  - Seawater or water from a swimming pool
  - Hot spring, hot water, etc.
- If the product gets wet with seawater, water from a swimming pool, soft drink, etc. or dust, sand, mud, etc. is attached on the product, immediately wash it away. When it gets dry and coagulated on the product, the stains get hard to get rid of and may cause fault.
- Using the product without completely washing sand or mud away may cause fault such as scratches and damages on the product.
- Do not immerse the product in a bathtub or swimming pool. Also, do not use it under water. (including key operations.)
- The product is not designed to withstand high water pressure. Do not expose the product to a strong water flow with tap water, shower, etc. (6 liters/min or more) or submerge it under water.
- To prevent condensation, wait until the product reaches room temperature before you bring it from a cold place into a warm place. If condensation occurs, leave it in room temperature until the condensation is removed.
- Do not get the product wet with hot water, use it in saunas or expose it to hot air from hair dryer etc.



- Do not place the product where it gets extremely hot or cold such as near a stove or in a refrigerator.
  - Volumes may temporarily become lower due to water entering in the earpiece, mouthpiece and speaker. Drain water and dry the product well before use.
  - When water drops are attached on the touch panel or you perform touch operations with your hand wet, the product may not properly function.
  - The product does not float on water.
  - Do not use the product in heavy rain.
  - Do not leave the product wet. Doing so may let the liquids freeze on the product in cold places or otherwise cause fault.
  - Do not drop or otherwise subject the product to strong impact or jab the earpiece, mouthpiece, speaker, etc. with a sharp object. Doing so may cause scratching, deformation, etc. on/of the product, resulting in impairment of waterproof/dustproof property.
  - Do not place the product directly on sand at a beach, sandbox, etc. or on mud. Grains of sand may get into the earpiece, speaker, etc., causing the volume to drop.
- Packaged items (desktop holder) or optional accessories are not waterproof/dustproof. When you watch TV etc. with the product set on the packaged desktop holder, do not use them in places where water is regularly used such as a bathroom, shower room, kitchen and lavatory even if the specified AC adapter (sold separately) is not connected to the desktop holder.
  - If the external connection jack cover or au Micro IC Card (LTE)/microSD memory card cover degrades or is damaged, the waterproof and dustproof properties cannot be maintained. In such case, contact an au shop near you.

## ■ Maintaining the Waterproof and Dustproof Properties

### ■ Rubber seals

The rubber seals on the external connection jack cover and au Micro IC Card (LTE)/microSD memory card cover are important to maintain the waterproof property. Be sure to observe the following items.

- Do not remove or scratch them.
- When closing the external connection jack cover or au Micro IC Card (LTE)/microSD memory card cover, do not get the rubber seals caught. Also, do not insert sharp objects into gaps around the external connection jack cover or au Micro IC Card (LTE)/microSD memory card cover or the earphone/microphone jack section. Doing so may damage the rubber seals and cause intrusion of water or dust.
- It is recommended to replace the parts for maintaining the waterproof and dustproof properties (pay service) once every two years regardless of whether any abnormality is present. For information on part replacement, contact an au shop near you.

## ■ Precautions on Charging

The desktop holder, specified charger (sold separately) and optional accessories are not waterproof/dustproof. Be sure to check the following items before and after charging.

- Check that the product is not wet. If it is wet or after it gets wet, drain water well and wipe remaining water off with a clean dry cloth etc. before setting it on the packaged desktop holder or opening the external connection jack cover.
- If you charge the battery with the external connection jack cover open, be sure to tightly close the cover when charging is finished. It is recommended to use the packaged desktop holder to charge the battery to prevent water and dust from entering from the external connection jack cover.
- Never charge the battery if the product is wet. Doing so may cause electric shock, short circuit, etc., resulting in fire or fault.
- Do not touch the packaged desktop holder or specified charger (sold separately) with wet hands. Doing so may cause electric shock.
- Do not splash water onto the packaged desktop holder, specified charger (sold separately) or optional accessories when using the equipment. Do not use the equipment in places where water is regularly used such as a bathroom, shower room, kitchen and lavatory. Doing so may cause fire or electric shock.

## ■ Washing the Product

If any stain, dust, sand, soft drink, etc. is attached to the surface of the product, gently wipe it off with a cloth and wash the product under a mild water flow (up to 6 liters/min) of tap water at room temperature (5°C to 35°C) approximately 10 cm away from the faucet or shower head.

Hold the external connection jack cover and au Micro IC Card (LTE)/microSD memory card cover so that they do not open, and wash the product with your hands without using a brush or sponge. After washing the product, drain water off and then use the product.

- Make sure that the external connection jack cover and au Micro IC Card (LTE)/microSD memory card cover are securely closed before washing the product.
- Do not wash the product with a washing machine or an ultrasound bath.
- The earphone/microphone jack section is especially subject to stain such as dust or sand adhesion. Wash away stain carefully so as not to keep it remaining in the section. Also, after washing it away, make sure the section gets sufficiently dried off before using the product. Using the product with sand or water drops remaining in the jack sections may cause fault.

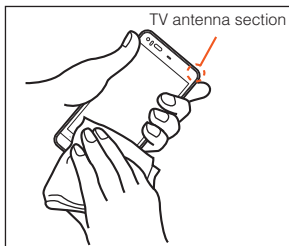
- When cleaning the earphone/microphone jack section, do not use tools such as a cotton swab or jam a cloth into the jack section. Doing so may cause fault such as impairment of waterproof/dustproof property.
- Never put the product in a microwave oven for drying it. Doing so may cause the internal battery to leak liquid, overheat, rupture or ignite. Also, doing so may cause the product to overheat, emit smoke, ignite or cause destruction of circuit components.
- Do not expose the product to hot air from a hair dryer or leave it in a high temperature environment for drying it. Doing so may cause the product to deform, discolor, get out of order, etc.

## ■ Draining Water

If the product gets wet, make sure to drain water remaining in the “earphone/microphone jack section”, “earpiece (receiver) section”, “mouthpiece (microphone) section”, “sub microphone section”, “charger terminal section”, “speaker section”, “key section”, “TV antenna section”, etc.

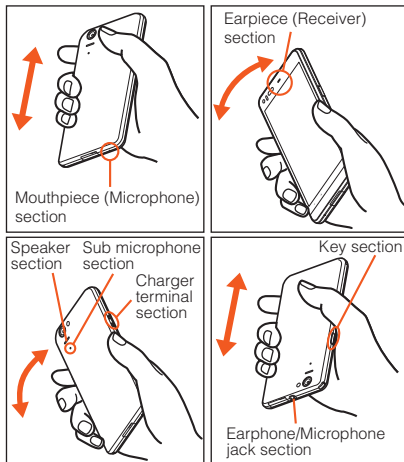
### 1 Wipe off water on the surface of the product carefully with a dry and clean cloth etc.

If a strap is attached, dry it sufficiently as well.  
If the TV antenna section is wet, extend the TV antenna, wipe off water remaining on it and stow it into the main unit.



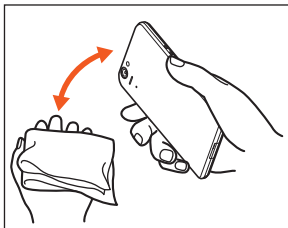
### 2 Hold the product securely and shake it approximately 20 times until there is no more water splashing.

Make sure of the safety around you and shake the product while holding it securely not to let it drop.



**3 Wipe off water remaining in the grooves of each section by gently putting the product against a dry and clean cloth etc.**

Since water is sometimes left in the grooves of each section, clear them of water by putting a cloth against their openings and gently patting them. Make sure that there is no more water or foreign objects remaining in them.



**4 Lay out a dry cloth etc. beneath and leave the product on the cloth at room temperature for approximately 2 to 3 hours to dry it.**

Water, if any, remaining in the product may ooze up after wiping off.

Do not wipe off water remaining in the grooves directly by a cotton swab etc.

**■ Precautions to be taken after water draining**

Do not use the product with water drops still left on it.

- Doing so may cause call disruption or cause clothes or bags to get wet.
- Doing so may cause earphone or other jack section to short-circuit, causing fire or a fault.
- Doing so in a cold region may cause a fault due to water drops freezing.

## Notes on Using Bluetooth®/ Wireless LAN (Wi-Fi®) Functions

### Frequency Band

Bluetooth® and wireless LAN (Wi-Fi®) functions (2.4 GHz band) of the product use frequencies in the 2.4 GHz band ranging from 2.402 GHz to 2.480 GHz. You can perform the following operations to confirm information on frequency band.

On the home screen, tap [APPS] → [Settings]

→ [Device info] → [Authentication].

- Bluetooth® function: 2.4FH1/XX4



2.4FH1/XX4

The product uses the 2.4 GHz band.

FH1 uses FH-SS as the modulation scheme. The interference distance is about 10 m or less.

XX4 uses other schemes. The interference distance is about 40 m or less.

Bands of mobile unit identification devices cannot be avoided.

- Wireless LAN (Wi-Fi®) function: 2.4DS/OF4



2.4DS/OF4

The product uses the 2.4 GHz band.

DS-SS and OFDM are used as the modulation schemes. The interference distance is about 40 m or less.

Bands of mobile unit identification devices can be avoided.

Channels available with the 2.4 GHz band wireless LAN (Wi-Fi®) of the product are between 1 to 13.

Available channels differ depending on the country. For use in airplane, check with the airline company in advance.

### Precautions about Bluetooth®

- The Bluetooth® function of the product conforms to the domestic standards of Japan and FCC standards and EC directives, and has been certified.
- The 2.4 GHz band used by wireless LAN (Wi-Fi®) and Bluetooth® devices is shared by various other devices. For this reason, Bluetooth® device use technologies for minimizing effects from other devices using the same radio frequency band. In some cases, however, the communication speed and connectable range may be decreased, or disconnection may occur, due to interference by other devices.
- The communication speed and connectable range vary depending on the distance between communication devices, obstacles and the Bluetooth® devices used.

### ■ Bluetooth® function precautions

The frequencies used by the Bluetooth® function of the product are in the 2.4 GHz band. In this frequency band, in addition to home electrical appliances such as microwave ovens and industrial, scientific and medical devices, other similar wireless stations, in-plant wireless stations for mobile unit identification that require a license for use such as factory production lines, specific small power wireless stations that do not require licenses, and amateur wireless stations (collectively called “other wireless stations” from here on) are operated.

1. Before using the product, make sure that “other wireless stations” are not in operation nearby.
2. In the event that instances of radio wave interference have occurred between the product and “other wireless stations”, immediately either relocate the product or stop operation of the device (stop emission of radio waves).
3. If you are unclear on any points or are troubled by anything, contact an au shop or Customer Service Center.

### Precautions about Wireless LAN (Wi-Fi®)

- The wireless LAN (Wi-Fi®) function of the product conforms to the domestic standards of Japan, FCC standards and EC directives, and has been certified.
- Do not use the product in places where electromagnetic waves are generated or near electric products, AV and OA equipment, or other magnetized devices.
- Subjecting the product to magnetic or electrical noise might increase noise and prevent it from performing communications. (The product is particularly susceptible to noise when it is used near a microwave oven.)
- Using the product near a TV, radio or similar appliance might cause reception interference and disrupt TV images.
- Searching might not be successful if there are multiple wireless LAN (Wi-Fi®) access points near the product and the same channel is being used.

## ■ 2.4 GHz band wireless LAN (Wi-Fi®) precautions

The frequencies used by the wireless LAN (Wi-Fi®) function of the product are in the 2.4 GHz and 5 GHz band. In the 2.4 GHz frequency band, in addition to home electrical appliances such as microwave ovens and industrial, scientific and medical devices, other similar wireless stations, in-plant wireless stations for mobile unit identification that require a license for use such as factory production lines, specific small power wireless stations that do not require licenses, and amateur wireless stations (collectively called "other wireless stations" from here on) are operated.

1. Before using the product, make sure that "other wireless stations" are not in operation nearby.
2. In the event that instances of radio wave interference have occurred between the product and "other wireless stations", immediately either relocate the product or stop operation of the device (stop emission of radio waves).
3. If you are unclear on any points or are troubled by anything, contact an au shop or Customer Service Center.

## ■ 5 GHz band wireless LAN (Wi-Fi®) function precautions

In the 5 GHz frequency band, three channels of 5.2 GHz/5.3 GHz/5.6 GHz band (W52/W53/W56) 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 ch)

Making a communication with 5.2 GHz/5.3 GHz band (W52/W53) outdoors is prohibited by the Radio Law.

### memo

- ◎ Connections between the product and all other Bluetooth® and wireless LAN (Wi-Fi®) devices have not been confirmed. Therefore, connections with all Bluetooth® and wireless LAN (Wi-Fi®) devices are not guaranteed.
- ◎ The product supports security features for wireless communications that are compliant with the Bluetooth® and wireless LAN (Wi-Fi®) standard specifications, but the security may not be sufficient depending on the usage environment and configuration. Be careful when making data communication using Bluetooth® or wireless LAN (Wi-Fi®) function.
- ◎ Wireless LAN (Wi-Fi®) has the advantage that it can be freely connected anywhere within the radio wave range, as it uses radio waves for exchanging information. At the same time, there is a risk that a malicious third party may obtain unauthorized access if security settings have not been configured. You are recommended to configure security settings before using wireless LAN (Wi-Fi®) at your decision and responsibility.



- © The Company assumes no responsibility for leakage of data or information that may occur during Bluetooth®/wireless LAN (Wi-Fi®) communication.
- © Since Bluetooth® and wireless LAN (Wi-Fi®) functions use the same frequency band, using the both functions at the same time may cause radio wave interference resulting in decreased communication speed or disconnection from the network. If connection fails, stop using either of the Bluetooth® and wireless LAN (Wi-Fi®) functions.

## Notes on Packet Communication Charge

- Since constant Internet connection is possible with the product, packet communication may be performed automatically by some applications, resulting in high packet communication charges. Therefore, subscription to the flat-rate/discount service for packet communication charges is recommended.
- To browse homepages, download applications, communicate using applications, send/receive e-mails and configure various settings, connection to the Internet is required, to which packet communication charge applies.
  - \* Packet communication charge does not apply to wireless LAN (Wi-Fi®).

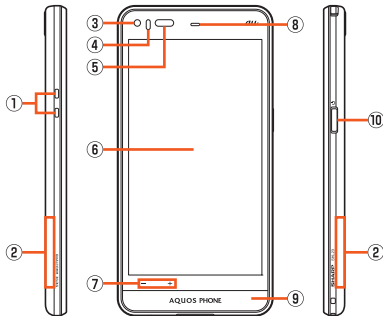
## Notes on Applications

- Be sure to check the security of the application, then install it at your own risk. Some applications might cause virus infection, damage various data, and send out your location information, usage history or personal information stored in your cell phone via the Internet.
- The Company assumes no responsibility for any problems that might be caused by applications you have installed. In such case, you may be charged a repair fee even during the warranty period.
- The Company assumes no responsibility for any disadvantage brought to you or any third party by applications you have installed.
- Insertion of a microSD memory card is necessary to use some applications.
- Some applications keep the screen turned on while they are active, or rapidly drain the battery while running in the background.
- Operation procedures and screen appearances of the applications preinstalled in the product and those installed by you are subject to change without notice as a result of version upgrade. In addition, operation procedures described in this manual may differ from the actual procedures.

## Getting Ready

### Names and Functions of Parts

#### Front/Left and Right Side



① **Charger terminal**

② **Grip sensor**

Hold the product (touch the sensor areas on both sides at the same time) to turn the screen on or minimize the volume and make the product vibrate during an incoming call or while the alarm is ringing.

- Even if you release your hand from the sensor areas, the screen is kept turned on and it is not turned off.

③ **In camera lens**

④ **Proximity sensor/Light sensor**

Proximity sensor prevents inadvertent operations of the touch panel during a call.

Light sensor detects the ambient brightness and adjusts the brightness of display.

⑤ **Infrared port**

⑥ **Display (Touch panel)**

⑦ **+ - Volume up/down key**

Adjust the volume.

Long touch “+” on the Welcome Sheet (Lock Screen) to turn on the mobile light.

Long touch “-” on the home screen or Welcome Sheet (Lock Screen) to set/disable the manner mode.

⑧ **Earpiece (Receiver)**

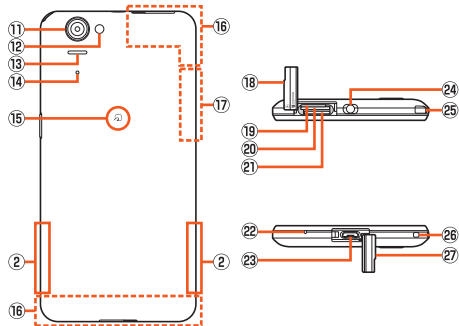
⑨ **Charging/Incoming indicator**

⑩ **Power key**

Turn the screen on/off.

Hold it down to turn on/off the power, set the manner mode, etc.

## ■ Back/Top and Bottom



11 **Out camera lens**

12 **Mobile light**

13 **Speaker**

14 **Sub microphone**

15  **mark**

Hold it over a reader/writer when using  
Osaifu-Keitai<sup>®</sup>/NFC.  
Send and receive data via IC communication.

16 **Internal antennas**

17 **Wi-Fi<sup>®</sup>/Bluetooth<sup>®</sup> antenna**

18 **au Micro IC Card (LTE)/microSD memory card cover**

19 **IMEI tray**

Allows you to confirm the product's IMEI.

20 **au Micro IC Card (LTE) slot**

21 **microSD memory card slot**

22 **Mouthpiece (Microphone)**

Transmits your voice to the other party during a call.  
It is also used for recording sounds. Take care not to cover the microphone with your fingers etc. when using it.

23 **External connection jack cover**

When you connect the common AC adapter 04 (sold separately), the microUSB cable 01 (sold separately), etc. to the product, some applications may not function properly since the geomagnetic sensor is affected by the magnetism of connected devices. Use the product after removing the cable.

24 **Earphone/Microphone jack**

25 **TV antenna**

26 **Strap eyelet**

27 **External connection jack cover**

### memo

- The back cover of the product cannot be removed. Removing it forcibly may cause damage or a fault.
- The battery is built into the product, and cannot be removed by the customer. To force the power off, refer to "Turning the Power Off Forcibly" (▶ P.51).

### Grip sensor

- ⊙ Grip sensor may not work properly in the following cases, which may cause malfunction.
- Operation with gloved hands
  - Operation while the product is equipped with a case, cover, etc.\*
  - Operation while the product is wet
  - Operation while a metallic object touches the sensor
  - \* Depending on the case or cover, you may be able to use Grip sensor with the product equipped with it. Set "Putting cover setting" to "Covered" after equipping the product with the case or cover.

### Internal antennas, Wi-Fi®/Bluetooth® antenna

- ⊙ Antennas are built into the product. Do not cover with hand during calls or data communication, or place stickers over antennas. Doing so may affect call/communication quality.

## Using the au Micro IC Card (LTE)

### au Micro IC Card (LTE)

The au Micro IC Card (LTE) records your personal information such as phone numbers. The product is compatible with au Micro IC Card (LTE) only. You cannot use the product by inserting the au IC-Card, micro au IC-Card or au Nano IC Card (LTE) for au phones and smartphones instead.

au Micro IC Card (LTE)



### memo

- ⊙ Make sure to unplug the microUSB plug of the common AC adapter 04 (sold separately) etc. from the product when attaching or removing the au Micro IC Card (LTE).
- ⊙ Do not insert an au Nano IC Card (LTE) with an adapter attached. Doing so may cause a fault.

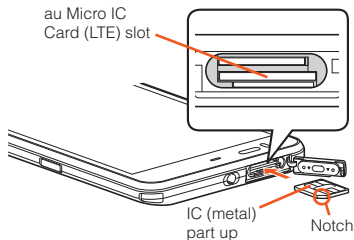
## Attaching the au Micro IC Card (LTE)

Before attaching the au Micro IC Card (LTE), turn the product off.

- 1** Open the au Micro IC Card (LTE)/microSD memory card cover.

## 2 Slowly insert the au Micro IC Card (LTE) into the au Micro IC Card (LTE) slot.

Confirm the orientation for inserting, then insert in the direction of the arrow until it clicks and is locked. Releasing the au Micro IC Card (LTE) before it is locked may cause it to pop out.



## 3 Close the au Micro IC Card (LTE)/microSD memory card cover.

### memo

© Inserting the au Micro IC Card (LTE) not deeply enough may prevent the product from functioning properly.

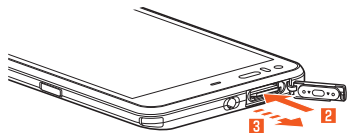
## Removing the au Micro IC Card (LTE)

Before removing the au Micro IC Card (LTE), turn the product off.

### 1 Open the au Micro IC Card (LTE)/microSD memory card cover.

### 2 Slowly push the au Micro IC Card (LTE) in all the way.

After it clicks, let the au Micro IC Card (LTE) come back out a little without releasing it. Releasing the Card when it is pushed deeply into the slot may cause it to pop out.



### 3 Slowly pull the au Micro IC Card (LTE) straight out.

### 4 Close the au Micro IC Card (LTE)/microSD memory card cover.

## Using a microSD Memory Card

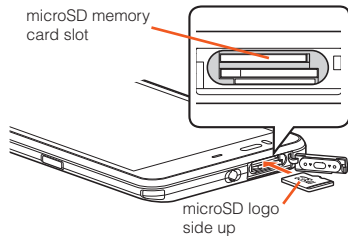
### Attaching a microSD Memory Card

Before attaching a microSD memory card, turn the product off.

**1** Open the au Micro IC Card (LTE)/microSD memory card cover.

**2** Slowly insert the microSD memory card into the microSD memory card slot.

Confirm the orientation for inserting, then insert in the direction of the arrow until it clicks and is locked. Releasing the microSD memory card before it is locked may cause it to pop out.



**3** Close the au Micro IC Card (LTE)/microSD memory card cover.

### memo

- ◎ Make sure that the top/bottom and front/rear of the microSD memory card are facing correctly. Trying to force a wrongly oriented card into the slot could make it impossible to remove the card or result in damage.
- ◎ Do not touch the terminal part of a microSD memory card.

### Removing the microSD Memory Card

Before removing the microSD memory card, turn the product off.

**1** Open the au Micro IC Card (LTE)/microSD memory card cover.

**2** Slowly push the microSD memory card in all the way.

After it clicks, let the microSD memory card come back out a little without releasing it. Releasing the card when it is pushed deeply into the slot may cause it to pop out.



**3 Slowly pull the microSD memory card straight out.**

**4 Close the au Micro IC Card (LTE)/microSD memory card cover.**

#### memo

- ⦿ Do not remove the microSD memory card forcefully. Doing so may result in damage or data loss.
- ⦿ The microSD memory card may become warm after a long time use, but this is not a fault.

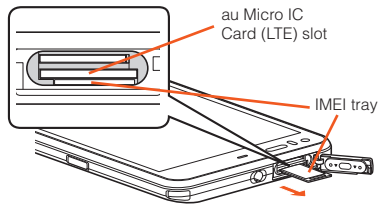
## Checking the IMEI

An IMEI (international mobile station equipment identity) is a special identification code assigned to each phone. You can pull the IMEI tray out to confirm the IMEI of the product.

**1 Turn the product off and remove the au Micro IC Card (LTE).**

For details on removing the au Micro IC Card (LTE), refer to "Removing the au Micro IC Card (LTE)" (▶P.43).

**2 Slowly pull the IMEI tray out straight.**




#### memo

- ⦿ The IMEI is information required when requesting servicing or repairs.
- ⦿ The IMEI tray cannot be removed from the main unit. Take care not to apply force when handling.
- ⦿ You can also operate the product to confirm the IMEI. On the home screen, tap [APPS] → [Settings] → [Device info] → [Status] and confirm the IMEI field.

## Charging


### Charging

When you purchase the product, the internal battery is not fully charged. Be sure to charge the internal battery before use.

- If the performance of the battery does not recover (e.g. the usable time after each charge has become extremely short), the internal battery may be at the end of service life. On the home screen, tap [APPS] → [Settings] → [Device info] → [Status] → [Battery status] to check the charging performance of the internal battery.
- While charging, the charging/incoming indicator illuminates in red, and the battery icon is displayed with  superimposed. When the battery is charged to approximately 95%, the charging/incoming indicator illuminates in green. When charging is finished, the charging/incoming indicator goes out.

#### memo

- ◎ Depending on the operation procedure and usage environment, the temperature inside the product may get high and the product may even get heated. In such case, charging may stop for security reasons.
- ◎ Charging the internal battery while using the camera function etc. may lengthen the charging time.

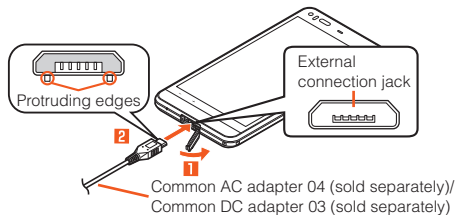
- ◎ If you perform various operations with a specified charger (sold separately) connected to the product, charging/discharging may take place repeatedly in a short time. Frequently charging the internal battery shortens its service life.
- ◎ If you charge the internal battery when the battery has run out, the charging/incoming indicator may not illuminate soon. However, charging is in progress.
- ◎ If the charging/incoming indicator flashes in red, force the power off (▶ P.51) and turn the product on again. If the indicator continues to flash, stop charging the internal battery and contact an au shop or the Keitai Guarantee Service Center.
- ◎ If you stop charging while the charging/incoming indicator still illuminates during charging, the cell phone may be left not fully charged even if  is displayed on it. In such case, the usage times shorten.

### Charging with the Specified AC Adapter (Sold Separately)/Specified DC Adapter (Sold Separately)

The followings are the explanation of how to connect the common AC adapter 04 (sold separately)/common DC adapter 03 (sold separately) to charge. For details on the specified AC adapter (sold separately)/specified DC adapter (sold separately), refer to "Introduction of Peripheral Devices" (▶ P.59).

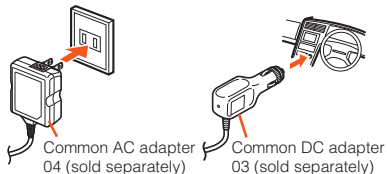


- 1** Open the external connection jack cover of the product.



- 2** Confirm the direction of the microUSB plug of the common AC adapter 04 (sold separately)/common DC adapter 03 (sold separately) and insert it in the direction of the arrow to the external connection jack of the product.

- 3** Plug the common AC adapter 04 (sold separately) power plug into a 100 V AC power outlet/Plug the common DC adapter 03 (sold separately) plug into a cigarette lighter socket.



- 4** When charging is finished, pull the microUSB plug of the common AC adapter 04 (sold separately)/common DC adapter 03 (sold separately) straight out from the external connection jack of the product.
- 5** Close the external connection jack cover of the product.

- 6** Unplug the common AC adapter 04 (sold separately) power plug from the power outlet/Unplug the common DC adapter 03 (sold separately) plug from the cigarette lighter socket.

#### memo

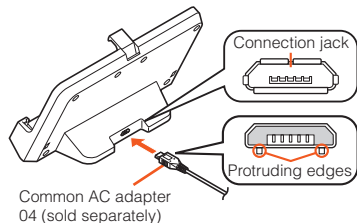
© Although you can charge the internal battery while the power is turned on, charging time lengthens.

## Charging with the Desktop Holder and the Specified AC Adapter (Sold Separately)

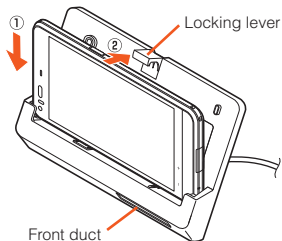
The followings are the explanation of how to connect the desktop holder and the common AC adapter 04 (sold separately) to charge. For details on the specified AC adapter (sold separately), refer to "Introduction of Peripheral Devices" (▶ P.59).

- 1** Insert the microUSB plug of the common AC adapter 04 (sold separately) to the connection jack of the desktop holder.

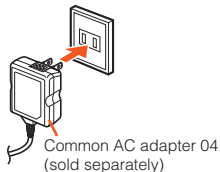
Confirm the direction of the microUSB plug and insert it in the direction of the arrow.



- 2** Place the main unit on the desktop holder as shown (①), then lay the main unit back so that it clicks into the locking levers (②).



- 3** Plug the common AC adapter 04 (sold separately) power plug into a 100 V AC power outlet.



- 4** When charging is finished, remove the main unit from the desktop holder and unplug the common AC adapter 04 (sold separately) power plug from the power outlet.

Hold the desktop holder when removing the main unit. Also, pull the microUSB plug of the common AC adapter 04 (sold separately) straight out from the desktop holder.

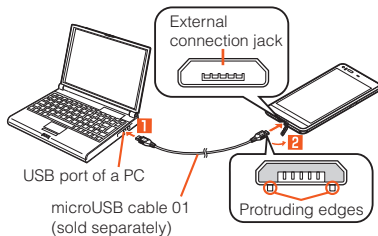
#### memo

- ⊙ When using the desktop holder, connect only the specified AC adapter (sold separately). Connecting equipment not specified such as a PC or portable charger to the desktop holder may cause fault. Do not connect such equipment to the desktop holder.

## Charging with a PC

The followings are the explanation of how to charge the internal battery by connecting the product to a USB port of a PC through which the battery can be charged.

- 1 Connect the microUSB cable 01 (sold separately) to a USB port of a PC after the PC is activated completely.**



- 2 Connect the microUSB cable 01 (sold separately) to the product after the product is activated completely.**

### memo

- If you use the microUSB cable to charge the internal battery, it may take the internal battery longer to be fully charged than if you use the specified AC adapter (sold separately).
- Turn the protruding side of the microUSB plug down and insert the microUSB plug to the external connection jack of the product straightly. Inserting the microUSB plug in the wrong direction may result in damage to the external connection jack of the product.
- The product is turned on when it is connected to a PC while the power is turned off.
- If you charge the internal battery when the battery has run out, the charging/incoming indicator may not illuminate. In such case, use the specified AC adapter (sold separately) for charging.

## Turning the Power On/Off

### Turning the Power On

- 1  (hold down for at least 2 seconds).**

### memo

- The initial setting of the touch panel will be executed until "AQUOS PHONE" disappears from the screen after the power is turned on. Do not touch the screen, otherwise touch panel operations may not be performed properly.

## ■ Turning the Power Off

1  (hold down for at least 2 seconds).

2 [Power off] → [OK].

## ■ Restarting the Product

You can restart the product after turning it off.

1  (hold down for at least 2 seconds).

2 [Reboot] → [OK].

## ■ Turning the Power Off Forcibly

You can force the product to turn off if the screen freezes or you are unable to turn the product off.

1  (hold down for at least 8 seconds).

Release your finger after the product vibrates to turn the power off.

### memo

- If the power is turned off forcibly, unsaved data will be deleted. Do not turn the power off forcibly unless you cannot operate the product.

## ■ Booting in Safe Mode

Turn the product off then boot it in a state close to that at time of purchase.

If operation of the product is unstable, it may be due to applications installed after purchasing the product. If symptoms improve when booted in safe mode, uninstalling the applications you installed may remedy symptoms.



1  (hold down for at least 2 seconds).

2 Long touch “Power off” → [OK].


“Safe mode” is displayed at the bottom of the screen when the product is booted in safe mode.

To end safe mode, reboot the product.

### memo

- When the product is turned off, you can boot it in safe mode by  (hold down for at least 2 seconds) to turn it on, and then long touching “” until the Welcome Sheet (Lock Screen) is displayed after the au logo disappears.
- It is recommended that you back up your data on the product before booting in safe mode.
- Widgets that you yourself created may be deleted.
- Safe mode is not a normal state for the product to be booted in. End safe mode before normal use.

## Turning the Screen On/Off

If you press  or no operation is made for a specified time, the screen is turned off.

### Turning the Screen On

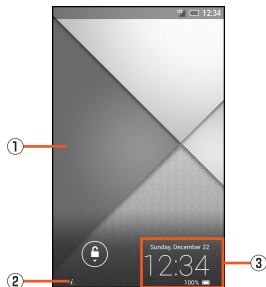
**1**  while the screen is turned off.

#### memo



- Do not touch the screen when you turn it on. Otherwise touch panel operations may not be performed properly.
- When "Operation when you hold the phone" of Grip sensor is set to "Show clock" or "Show lock screen", hold the product (touch sensor areas on both sides at the same time) to turn the screen on and display the set screen.
- When you put the product in your pocket, bag, etc., turn the screen off. Putting the product in while the screen is turned on may cause inadvertent operations.

## Welcome Sheet (Lock Screen)

The Welcome Sheet (Lock Screen) is displayed if you turn the screen on.



《Welcome Sheet (Lock Screen)》

Slide "" to the bottom of the screen to unlock. Tap, long touch or slide "" up to display "Video tutorial", "Welcome sheet setting" and shortcuts.

**① Wallpaper**

**② Owner info key**

Display texts according to items set for "Owner info" in "Lock & Security".

**③ Info Area**

Flick to the left/right to switch the weather, stock prices information, widgets, media information and date and time.

## Switching the Display Language to English

You can switch the display language for function names and other items to English.

- 1 On the home screen, [アプリ] (APPS).
- 2 [設定] (Settings).
- 3 [言語と文字入力] (Language & input).
- 4 [言語(Language)を選択] (Select language).
- 5 [English].

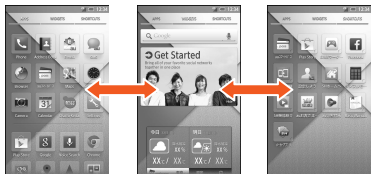
## Basic Operations

### Using the 3-Line Home

The 3-Line Home is a home screen which consists of the Apps Sheet, the Widgets Sheet and the Shortcuts Sheet. You can use the function by tapping an icon/a widget/shortcut on each sheet.

- You can switch each sheet by tapping “APPS”, “WIDGETS” or “SHORTCUTS” on the Sheet Switcher, or sliding/flicking the home screen to the left/right.

#### Switching sheets



《Apps Sheet》 《Widgets Sheet》 《Shortcuts Sheet》

### Viewing the 3-Line Home



① **Status bar**

② **Sheet Switcher**

Long touch Sheet Switcher, drag it to the destination and release your finger to move it.

③ **Apps Sheet/Widgets Sheet/Shortcuts Sheet**

④ **Navigation Bar**

⑤ **Scroller**

Displayed when the screen is scrolled. You can scroll the screen by sliding the displayed scroller up/down.



## ⑥ Separator

Pinch out vertically on the home screen to add the separator. You can delete the separator by pinching in vertically.

## ⑦ Social Board

Confirm information for registered SNS.

### memo

◎ A separator cannot be added if there are no applications, etc. between separators.

## ■ Arranging the Home Screen

### 1 When the top of any sheet of the home screen is displayed, slide the sheet down.

Alternatively, tap “☰” on any sheet.














### 2 [Home settings].

## Using the Status Bar

### Icons

The notification icons to notify you of a missed call, a new mail message, a running operation, etc. are displayed on the left side of the status bar, while the status icons to show the status of the product are on the right side.

### ■ Main Notification Icons

Icon	Description
	Missed call
	New mail message (E-mail)
	New mail message (SMS)
	New mail message (PC-mail)
	New mail message (Gmail)
	Making a call, talking, receiving a call
	Call on hold
	Answering memo
	Space on the internal memory available less than approx. 275 MB
	Reading the internal memory/a microSD memory card
	Installation of application completed, update available
	Software update available
	Icons collected

## memo

© Some icons are displayed with their number superimposed on them.

## Main Status Icons

Icon	Description
	Time
	Battery level ~  : Battery level display  : No battery <ul style="list-style-type: none"><li>• While charging, the battery icon is displayed with  superimposed.</li></ul>
	Airplane mode set
	Signal strength (Receiving electric field) ~  : Level display  : Out of service area <ul style="list-style-type: none"><li>• The icon indicating network is displayed at the upper left.</li><li>• During a communication, the icon is displayed with  superimposed.</li></ul>

Icon	Description
	Manner mode status : Standard manner mode  : Drive manner mode  : Silent manner mode
	During a call using hands-free
	Microphone set to "Mute" during a call
	Answering memo set : No Answering memo : Answering memo (one to nine entries)  : Answering memo (ten entries)

## Using the Notification/Status Panel

In the notification/status panel, you can check the details on notification icons and status icons or activate an application corresponding to the icon.

You can also set the manner mode, VeilView, etc.

### 1 Slide the status bar down.



《Notification/Status panel》

#### ① Function buttons

Switch settings of the frequently used function by one touch.

#### ② Function button displaying/hiding bar

Tap it to display/hide function buttons on the second and subsequent row.

#### ③ Music controller

Play music with LISMO.

#### ④ Notification area

Check the status of the product and contents of notifications. Depending on the information, you can pinch out/pinch in to enlarge/shrink notifications or tap notifications/functions to activate a corresponding application.

- Flick a notification to the left/right to delete it. You may not be able to delete a notification depending on the notification.

#### ⑤ Settings key

Tap it to make various settings for the product.

#### ⑥ Rearrange key

Sort function buttons.

#### ⑦ Clear

Tap it to clear all the notifications. You may not be able to delete a notification depending on the notification.

#### ⑧ Close bar

Slide it up to hide the notification/status panel.


## Switching Input Methods

You can switch input methods for character entry.

- Following operation explanations use “Japanese - iWnn IME - SH edition”.

- 1 While the keyboard is displayed, open the notification panel.**
- 2 [Choose input method] → [English (US)]/[Japanese].**

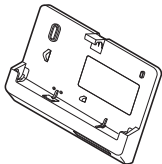
## Switching Software Keyboards

- 1 On the character entry screen, [  ] → [Change input UI] → [Set QWERTY keyboard]/[Set 12 keyboard].**

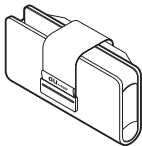
## Appendix

### Introduction of Peripheral Devices

#### ■ Desktop Holder (SHL23PUA)



- au Carrying Case F Black (0105FCA) (sold separately)
- au Carrying Case G Black (0106FCA) (sold separately)



au Carrying Case F Black

- Common AC Adapter 03 (0301PQA) (sold separately)

Common AC Adapter 04 (0401PWA) (sold separately)

Common AC Adapter 03 Navy (0301PBA) (sold separately)

Common AC Adapter 03 Green (0301PGA) (sold separately)

Common AC Adapter 03 Pink (0301PPA) (sold separately)

Common AC Adapter 03 Blue (0301PLA) (sold separately)

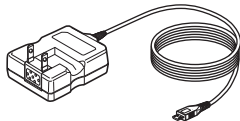
AC Adapter JUPITRIS (White) (L02P001W) (sold separately)

AC Adapter JUPITRIS (Red) (L02P001R) (sold separately)

AC Adapter JUPITRIS (Blue) (L02P001L) (sold separately)

AC Adapter JUPITRIS (Pink) (L02P001P) (sold separately)

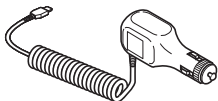
AC Adapter JUPITRIS (Champagne) (L02P001N) (sold separately)



Common AC adapter 04

- Illustrations and forms may not match depending on the AC adapter you use.

- **Common DC adapter 03 (0301PEA) (sold separately)**




- **Portable charger 02 (0301PFA) (sold separately)**
- **microUSB cable 01 (0301HVA) (sold separately)**
- **microUSB cable 01 Navy (0301HBA) (sold separately)**
- **microUSB cable 01 Green (0301HGA) (sold separately)**
- **microUSB cable 01 Pink (0301HPA) (sold separately)**
- **microUSB cable 01 Blue (0301HLA) (sold separately)**
- **SHARP microUSB conversion cable 01 for TV antenna input (SHL23HKA) (sold separately)**



#### memo


- For the latest information about available peripheral devices, check the au homepage (<http://www.au.kddi.com/english/>) or contact Customer Service Center.
- The product does not support ASYNC/Fax transmission.
- The above-mentioned peripheral devices can be purchased from au Online Shop. <http://auonlineshop.kddi.com/>

## Troubleshooting

Before you assume that the product is malfunctioning, check the following:

Trouble	Detail
Battery usage time is short.	<ul style="list-style-type: none"> <li>• Make sure you do not often use the product in places where  (out of service area) is displayed. (▶ P.56)</li> <li>• Make sure the internal battery does not approach the end of its service life. Check the battery status. (▶ P.46)</li> <li>• Is the internal battery charged enough? (▶ P.46)</li> <li>• Suspend the functions not being used. (▶ P.57)</li> </ul>
Cannot make calls.	<ul style="list-style-type: none"> <li>• Is an au Micro IC Card (LTE) inserted? (▶ P.42)</li> <li>• Is the power turned on? (▶ P.50)</li> </ul>
Cannot receive calls.	<ul style="list-style-type: none"> <li>• Is reception good enough? (▶ P.56)</li> <li>• Is the product within the service area? (▶ P.56)</li> <li>• Is the power turned on? (▶ P.50)</li> <li>• Is an au Micro IC Card (LTE) inserted? (▶ P.42)</li> </ul>
Cannot hear the other party.	<ul style="list-style-type: none"> <li>• Make sure you are not covering the earpiece with your ear. Place the earpiece over your earhole.</li> </ul>

Trouble	Detail
Cannot recognize a microSD memory card/Cannot find target data.	<ul style="list-style-type: none"> <li>Is a microSD memory card inserted properly? (▶ P.44)</li> <li>Make sure data is not saved on the internal memory. Data can be saved on the internal memory besides a microSD memory card.</li> </ul>
Cannot operate the keys/touch panel.	<ul style="list-style-type: none"> <li>Turn off the power and then turn it on.</li> <li>Is the power turned on? (▶ P.50)</li> </ul>
Cannot charge the battery.	<ul style="list-style-type: none"> <li>Is the power plug of the specified charger (sold separately) securely plugged into an outlet or a cigarette lighter socket? (▶ P.46)</li> <li>Are the desktop holder, charger terminal, etc. clean? (▶ P.21)</li> </ul>
Cannot turn on the power.	<ul style="list-style-type: none"> <li>Is the internal battery charged? (▶ P.46)</li> <li>Did you hold  down? (▶ P.50)</li> </ul>
Cannot operate/The screen does not respond/Cannot turn off the power.	<ul style="list-style-type: none"> <li>You can force the power off by holding down  for at least 8 seconds and releasing your finger after the product vibrates. Turn the product on again after a while. (▶ P.51)</li> </ul>
Cannot operate the touch panel as intended.	<ul style="list-style-type: none"> <li>Make sure you are not operating with hands wearing gloves etc.</li> <li>Make sure you are not operating with the tip of a fingernail or with foreign object between the screen and your fingers.</li> <li>Restart the product. (▶ P.51)</li> </ul>

Trouble	Detail
Screen response is slow when you tap on the screen/press the keys.	<ul style="list-style-type: none"> <li>Screen response may be slowed down when a large amount of data is stored in the product or being transmitted between the internal memory and a microSD memory card.</li> </ul>
Grip sensor does not respond.	<ul style="list-style-type: none"> <li>Make sure the product is not wet. (▶ P.34)</li> <li>Set Grip sensor to "OFF" and set it to "ON" again.</li> </ul>
auIC card(UIM) error. is displayed.	<ul style="list-style-type: none"> <li>Is an au Micro IC Card (LTE) inserted? (▶ P.42)</li> </ul>
The power is turned off automatically.	<ul style="list-style-type: none"> <li>Make sure the battery has not run out. (▶ P.46)</li> </ul>
The power is turned off while the wake-up logo is displayed.	<ul style="list-style-type: none"> <li>Make sure the battery has not run out. (▶ P.46)</li> </ul>
 (out of service area icon) is displayed.	<ul style="list-style-type: none"> <li>Is reception good enough? (▶ P.56)</li> <li>Is the product within the service area? (▶ P.56)</li> <li>Is your hand off the area around the internal antenna? (▶ P.41)</li> </ul>
A message indicating that charging is necessary is displayed.	<ul style="list-style-type: none"> <li>The battery is almost empty. (▶ P.46)</li> </ul>

Trouble	Detail
When making a call, a beeping sound is heard from the earpiece and a connection cannot be established.	<ul style="list-style-type: none"> <li>• Is reception good enough? (▶ P.56)</li> <li>• Is the product within the service area? (▶ P.56)</li> <li>• The wireless line is busy or the other party is on another line. Try again later.</li> </ul>

If symptoms do not improve after checking each of the above, information is provided through au Customer Support on the au homepage below.

<http://www.au.kddi.com/english/support/>

## Updating Software

The product supports the software update.

**1** On the home screen, [APPS] → [Settings] → [Device info] → [Software update].

<b>2</b> Software update	Check whether software update is necessary or not. The confirmation starts when you tap "Yes". When it is necessary, you can download data for software update.
Auto-check settings	Set whether to regularly check presence of data for software update available.

### Notes on Software Update

- You are charged for data communication when connecting to the Internet from the product by using packet communication.
- When software update is necessary, you will be informed on au homepage, etc. For details, contact an au shop or Customer Service Center (call toll-free 157). In addition, users of the SHL23 will receive a notice from au, when software update is necessary to improve the functionality of the SHL23.
- It is recommended to back up your data before updating software.
- If the software update is performed, the product will restart before and after the update.



- If the software update has failed or stopped, perform the same procedures again.
- If the software update fails, it may become impossible to operate the product. If this happens, bring it to an au shop or PiPit (not accepted by some shops).
- Charge the battery sufficiently before starting update. If the battery level is insufficient or the battery runs out during the update, the software update will fail.
- Check out the signal reception status. The software update may fail if the product is in a place with bad signal reception status.
- Various data registered on the product (address books, mails, still pictures, music data, etc.) and information of settings will not be changed even after software is updated. However, note that data may not be protected depending on the state of the product (fault, damage, getting wet with water, etc.).
- After software is updated, the download of next update software may automatically start (consecutive update).
- The software update is not available during international roaming.

### **Do not conduct the following operations during the software update**

- Do not move during software update.

### **The following operations are not available during the software update**

- Operations are not available during software update. Making a call to 110 (Police), 119 (Fire and Ambulance), 118 (Regional Coast Guard Headquarters) or 157 (Customer Service Center) is not available either. Also, the alarm etc. does not function.

## After-Sales Service

### When Asking for Repair

For repair, contact Keitai Guarantee Service Center.

During the warranty period	Repairs will be done based on the <<terms of services of the free-of-charge repair warranty>> described on the warranty card.
Outside the warranty period	We shall repair the product for a charge as requested by the customer if repair renders it usable.

#### memo

- Before handing in the product for repair, make a backup of the contents of memory since they may disappear during repair. Note that the Company shall not be liable for any damages and loss of income should the contents of memory be altered or lost.
- Recycled parts that meet the Company's quality standards are sometimes used for repair.
- au cell phones collected by Replacement cell phone delivery service which you used before are recycled to cell phones for replacement after repairs. Also parts replaced by au after-sales service are collected and recycled by the Company. They are not returned to customers.

### Performance Parts for Repair

The Company retains performance parts for repair of the SHL23 main unit and its peripheral devices for 4 years after discontinuation of production. "Performance parts for repair" refers to parts required for maintaining the functions of the product.

### Warranty Card

At the store of purchase, thoroughly check and read the name of the retailer, date of purchase and other necessary details filled in on the warranty card, and be sure to keep it in a safe place.

### Keitai Guarantee Service Plus LTE

An after-sales service membership program on a monthly basis called "Keitai Guarantee Service Plus LTE" (monthly fee: 399 yen including tax) is available for using your au cell phone for a long time without worries.

This service expands coverage for many troubles including malfunction, theft and loss. For details of this service, check on the au homepage or contact Keitai Guarantee Service Center.

#### memo

- You can apply for membership only at the time of purchasing your au cell phone.
- Once you cancel the membership, you cannot reapply for it until you purchase an au cell phone next time.

- ◎ Note that when changing the model or purchasing an extra cell phone, this service only covers the most recently purchased au cell phone.
- ◎ When an au cell phone is handed over to you or someone else, the "Keitai Guarantee Service Plus LTE" membership is also handed over to the successor of the cell phone.
- ◎ When you get a new au cell phone by changing the model, purchasing an extra cell phone, etc., the "Keitai Guarantee Service Plus" or "Keitai Guarantee Service Plus LTE" membership for the old au cell phone is automatically canceled.
- ◎ Service contents are subject to change without notice.

### ■ au Micro IC Card (LTE)

The au Micro IC Card (LTE) is lent to you by au. In case of loss or damage, the card will be replaced at your expense. When malfunction is suspected, or in case of theft or loss, contact an au shop or PiPit.

### ■ After-Sales Service

If you are unsure about anything regarding after-sales service, contact the following service counter.

#### Customer Service Center (for service canceling procedure or operation in case of loss or theft)

From a fixed-line phone, ☎ **0077-7-113** (toll free)  
 From an au cell phone, **113** without area code (toll free)

### Keitai Guarantee Service Center (for loss, theft or damage)

From a fixed-line phone/an au cell phone,

☎ **0120-925-919** (toll free)

Business hours 9:00 to 21:00 (7 days a week)

### ■ au After-Sales Service Information

Service contents	Keitai Guarantee Service Plus LTE member	Non-Keitai Guarantee Service Plus LTE member
Replacement cell phone delivery service (spontaneous failure: 1st year)	Free	N/A
Replacement cell phone delivery service (spontaneous failure: 2nd year and later)	Customer charge 1st: 5,250 yen 2nd: 8,400 yen	N/A
Replacement cell phone delivery service (partial damage, water soak, irreparable damage, theft and loss)	Customer charge 1st: 5,250 yen 2nd: 8,400 yen	N/A
Holding over and repair (spontaneous failure: 1st year)	Free	Free
Holding over and repair (spontaneous failure: 2nd year and later)	Free (three-year warranty)	Actual cost

Service contents	Keitai Guarantee Service Plus LTE member	Non-Keitai Guarantee Service Plus LTE member
Holding over and repair (partial damage)	Customer charge Upper limit: 5,250 yen	Actual cost
Holding over and repair (water soak and irreparable damage)	Customer charge 10,500 yen	Actual cost
Holding over and repair (theft and loss)	N/A	N/A (By model replacement)

\* All the prices written above include tax.

## memo

### Replacement cell phone delivery service

- ◎ When you have trouble with your au cell phone, you can have a cell phone for replacement (same model and color as your old one) delivered to any destination that you specify by calling us. Please return your old faulty au cell phone within 14 days after the cell phone for replacement is delivered to you.
- ◎ You can use this service up to twice within one year starting from the day when you first use this service. If you have not used this service over the past one year at the time of your application for this service, the application will be regarded as your first time. If you have, the application will be regarded as your second time.

\* For details, check on the au homepage.

### Holding over and repair

- ◎ Damages and malfunctions intentionally caused by the customer as well as those due to modification (e.g. disassembly, change of parts, painting, etc.) by the customer are not covered by this service.
- ◎ You cannot receive a refund for replacement of the outer casing due to stains, scratches, paint removal, etc. on the outer casing.

## Main Specifications

Display	Approx. 4.8 inches, approx. 16.77 million colors, IGZO, 1,080×1,920 (FHD)
Weight	Approx. 145 g (including the internal battery)
Size (W×H×D)	Approx. 70 mm×140 mm×9.2 mm (thickest part approx. 9.6 mm)
Memory (built-in)	ROM: Approx. 16 GB RAM: Approx. 2 GB
Continuous talk time (in Japan)	Approx. 1,380 min.
Continuous talk time (overseas (GSM))	Approx. 840 min.
Continuous standby time (in Japan)	Approx. 660 hours (while LTE is used) Approx. 720 hours (while 3G is used)
Continuous tethering time	Approx. 620 min. (LTE on WAN) Approx. 880 min. (3G on WAN)
Maximum Wi-Fi® tethered connections	10 devices

Continuous standby time (overseas (GSM))	Approx. 650 hours
Charging time	Desktop holder: Approx. 170 min. Common AC adapter 04 (sold separately): Approx. 160 min. Common DC adapter 03 (sold separately): Approx. 400 min.
Full-Seg continuous watching time* <sup>1</sup>	Approx. 6 hours and 10 min. (earphone) Approx. 5 hours and 45 min. (speaker)
1Seg continuous watching time* <sup>1</sup>	Approx. 10 hours and 00 min. (earphone) Approx. 8 hours and 45 min. (speaker)
Camera device	<b>Out camera</b> CMOS image sensor <b>In camera</b> CMOS image sensor
Effective pixels	<b>Out camera</b> Approx. 16.30 million pixels <b>In camera</b> Approx. 2.10 million pixels

Bluetooth® function	Communication method: Bluetooth® Standard Ver. 4.0 Output: Bluetooth® Standard Power Class 2 Communication distance* <sup>2</sup> : Within 10 m with no obstacles in the range Compatible Bluetooth® profiles* <sup>3</sup> : HSP (Headset Profile), HFP (Hands-Free Profile), A2DP (Advanced Audio Distribution Profile), AVRCP (Audio/Video Remote Control Profile) Ver. 1.3, OPP (Object Push Profile), SPP (Serial Port Profile), PBAP (Phone Book Access Profile)* <sup>4</sup> , HID (Human Interface Device Profile), HDP (Health Device Profile), PAN (Personal Area Networking Profile), PXP (Proximity Profile)* <sup>5</sup> , FMP (Find Me Profile)* <sup>5</sup> , ANP (Alert Notification Profile)* <sup>5</sup> , PASP (Phone Alert Status Profile)* <sup>5</sup> , TIP (Time Profile)* <sup>5</sup> , DUN (Dial-up Networking Profile)* <sup>6</sup> Frequency bands: 2.4 GHz band
Network environment	Wireless LAN (Wi-Fi®) function: IEEE 802.11a/b/g/n (2.4 GHz/5 GHz)/ac* <sup>7</sup> conformant
Interface	microUSB jack, 3.5 $\phi$ (quadrupoles) earphone/microphone jack (supported earphones: tripolar headphone (Lch/Rch/GND) and quadrupolar earphone with microphone (Lch/Rch/GND/MIC))

\*1 The Full-Seg/1Seg continuous watching time varies depending on the usage.

\*2 It changes according to objects obstructing devices and signal reception.

\*3 This is the specification provided in Bluetooth® standards for making communication between Bluetooth®-compatible devices in accordance with their intended use.

- \*4 Some contents of address books data may not be properly displayed on the device of the other party.
- \*5 This profile supports Bluetooth® Standard Ver.4.0.
- \*6 Supported for some car navigation systems only. See the au homepage for usage.
- \*7 Supported for IEEE 802.11ac draft specification. May not be able to communicate with future products supporting official specifications or other-brand products of draft specifications. Refer to the respective companies' websites for information on supported products.

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### memo

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- © The continuous talk time and continuous standby time may drop to less than half depending on the battery charging status, usage environment such as temperature, reception condition at the location where the product is used, and the function settings.

## Specific Absorption Rate (SAR) of Cell Phones

This model **[SHL23]** mobile phone complies with Japanese technical regulations and international guidelines regarding exposure to radio waves. This mobile phone has been designed in observance of the Japanese technical regulations regarding exposure to radio waves (\*1) and limits to exposure to radio waves recommended by equivalent international guidelines. These international guidelines were set out by the International Commission on Non-Ionizing Radiation Protection (ICNIRP), which is in collaboration with the World Health Organization (WHO), and the permissible limits include a substantial safety margin designed to assure the safety of all persons, regardless of age and health condition. The Japanese technical regulations and international guidelines define the limits using a unit of measurement known as the Specific Absorption Rate (SAR), which represents the average amount of radio frequency energy absorbed by the human head.

The SAR limit for mobile phones is 2.0 W/kg. The highest SAR value for this mobile phone when tested for use at the ear is 0.375 W/kg. There may be slight differences in SAR levels among individual products, but they all satisfy the limit. The actual SAR of this mobile phone while talking on the phone can be well below that indicated above. This is due to automatic changes in the power level of the mobile phone to ensure it only outputs the minimum power required to communicate with a base station. Therefore in general, the closer you are to a base station, the lower the power output of the mobile phone.

This mobile phone can be used in positions other than against your ear. This mobile phone satisfies the international guidelines when used with au Carrying Case F Black (0105FCA) (sold separately)/au Carrying Case G Black (0106FCA) (sold separately) recommended by KDDI (\*2).

In case you are not using the au Carrying Case F Black (0105FCA) (sold separately)/au Carrying Case G Black (0106FCA) (sold separately), use a product that contains no metal parts, and one that can hold the mobile phone at least 1.5 cm away from your body.

The World Health Organization has stated that "a large number of studies have been performed over the last two decades to assess whether mobile phones pose a potential health risk. To date, no adverse health effects have been established as being caused by mobile phone use". If you would like to know more detailed information, please refer to the WHO website.

([http://www.who.int/docstore/peh-emf/publications/facts\\_press/fact\\_english.htm](http://www.who.int/docstore/peh-emf/publications/facts_press/fact_english.htm))

Please refer to the websites listed below if you would like to know more detailed information regarding SAR.

- 
- Ministry of Internal Affairs and Communications website:  
<http://www.tele.soumu.go.jp/e/sys/ele/index.htm>
  - Association of Radio Industries and Businesses website:  
<http://www.arib-emf.org/index02.html>
  - au homepage:  
<http://www.au.kddi.com/english/>
  - SHARP homepage:  
<http://www.sharp.co.jp/products/menu/phone/cellular/sar/index.html>

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\*1 Technical regulations are defined by the Ministerial Ordinance Related to the Radio Law (Article 14-2 of Radio Equipment Regulations).

\*2 Regarding the method of measuring SAR when using mobile phones in positions other than against the ear, international standards (IEC62209-2) were set in March of 2010.

On the other hand, regarding the technical standards of Japan, ministerial ordinance to revise part of the Ministerial Ordinance related to Radio Law (Article 14-2 of Radio Equipment Regulations) has been issued in August 2013, and will be enforced on April 1, 2014.

## CE Declaration of Conformity



**In some countries/regions including Europe, there are restrictions on the use of 5GHz WLAN that may limit the use to indoors only. If you intend to use 5GHz WLAN on the device, check the local laws and regulations beforehand.**

Hereby, Sharp Telecommunications of Europe Ltd, declares that this SHL23 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. A copy of the original declaration of conformity can be found at the following Internet address:  
<http://www.sharp.co.jp/k-tai>

## Mobile Light

**Do not point the illuminated light directly at someone's eyes.**

Be especially careful not to shoot small children from a very close distance.

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

## AC Adapter

Any AC adapter used with this handset must be suitably approved with a 5Vdc SELV output which meets limited power source requirements as specified in EN/IEC 60950-1 clause 2.5.

## Battery - CAUTION

**Use specified Charger only.**

Non-specified equipment use may cause malfunctions, electric shock or fire due to battery leakage, overheating or bursting.

The battery is embedded inside the product. Avoid removing the embedded battery since this may cause overheating or bursting.

Do not dispose of the product with ordinary refuse. Take the product to an au Shop, or follow the local disposal regulations.

Charge battery in ambient temperatures between 5°C and 35°C; outside this range, battery may leak/overheat and performance may deteriorate.

## Volume Level Caution



To prevent possible hearing damage, do not listen at high volume levels for long periods.

## Headphone Signal Level

The maximum output voltage for the music player function, measured in accordance with EN 50332-2, is 140 mV.



## ■ 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 was 0.442 W/kg\*.

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 World Health Organization has stated that present scientific information does not indicate the need for any special precautions for the use of mobile devices. They note that if you want to reduce your exposure then you can do so by limiting the length of calls or using a hands-free device to keep the mobile phone away from the head.

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\* The tests are carried out in accordance with international guidelines for testing.

## 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:

1. Reorient/relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

4. Consult the dealer or an experienced radio/TV technician for help.

## ■ 5 GHz WLAN Operation in USA

Within the 5.15-5.25 GHz band, UNII devices are restricted to indoor operations to reduce any potential for harmful interference to co-channel Mobile Satellite Services (MSS) operations.

## ■ 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.

### Highest SAR value:

Model	SHL23
FCC ID	APYHRO00196
At the Ear	0.63 W/kg
On the Body	0.72 W/kg

This device was tested for typical body-worn operations with the back of the handset kept 1.0 cm from the body. To maintain compliance with FCC RF exposure requirements, use accessories that maintain a 1.0 cm separation distance between the user's body and the back of the handset. The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly.

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 at <http://www.fcc.gov/oet/fccid/> under the Display Grant section after searching on the corresponding FCC ID (see table above).

Additional information on Specific Absorption Rates (SAR) can be found on the FCC website at <http://www.fcc.gov/>.

## Export Administration Regulations

The product and its accessories may be subject to the Japan Export Administration Regulations ("Foreign Exchange and Foreign Trade Law" and its related laws). In addition, U.S. Re-export Regulations (Export Administration Regulations) may apply to the product and its accessories. To export and re-export the product and its accessories, take the required measures on your responsibility and at your expenses. For details on the procedures, contact the Ministry of Economy, Trade and Industry or the U.S. Department of Commerce.

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The names of operating systems (Japanese versions) used in this manual are as follows.

- Windows 8 is the abbreviation for Microsoft® Windows® 8, Microsoft® Windows® 8 Pro and Microsoft® Windows® 8 Enterprise.
- Windows 7 is the abbreviation for Microsoft® Windows® 7 (Starter, Home Basic, Home Premium, Professional, Enterprise, Ultimate).
- Windows Vista is the abbreviation for Microsoft® Windows Vista® (Home Basic, Home Premium, Business, Enterprise, Ultimate).
- Windows XP is the abbreviation for Microsoft® Windows® XP Professional operating system and Microsoft® Windows® XP Home Edition operating system.

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