

au

VEGA PTL21

Basic Manual

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Preface

Thank you for buying the VEGA (PTL21) (simply called 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 store it in a safe place so that you can retrieve it whenever needed. If you lose the "Basic Manual" (this manual), contact an au shop or Customer Service Center.

About operating instructions

In "Basic Manual" (this manual), handles are only basic operations for main features. For detailed descriptions of various functions, refer to the "Instruction Manual application" (Japanese) that can be used on your product or "Full Instruction Manual" (Japanese) on au website.

■ Instruction Manual application (Japanese)

You can use the "Instruction Manual application" on this product to confirm detailed operational procedures. Certain functions can be directly activated from the application screens on which their operations are described.

1 Home screen → [Apps] → [Instruction Manual]

When using the application for the first time, you must download and install it following the on-screen instructions.

■ Instruction Manual Download

You can download "Basic Manual" (this manual), "Setting Guide" and "Full Instruction Manual" (Japanese) from au website:
<http://www.au.kddi.com/torisetsu/index.html>

■ For Those Requiring an English/ Korean/Simplified Chinese/Traditional Chinese/Portuguese Instruction Manual

You can download the English/Korean/Simplified Chinese/Traditional Chinese/Portuguese version of the Simple Manual from the au website.

Download URL: <http://www.au.kddi.com/torisetsu/index.html>

English/Korean/Simplified Chinese/Traditional Chinese/Portuguese Simple Manual can be read at the end of the "Full Instruction Manual" (Japanese).

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 website:

<http://cs.kddi.com/support/komatta/kosho/index.html>

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 is sometimes not possible in poor reception areas. Communication is sometimes 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 LTE/CDMA/GSM/UMTS system has highly secure confidential communication features.)
- This product is compatible with the international roaming service. Each network service described in this manual varies depending on the area and service content.

- Since this 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.
- IMEI data is automatically sent by the cell phone that you are using to KDDI CORPORATION for "cell phone maintenance" and "monitoring operational status" of your cell phone.
- Take care not to inconvenience people around you when you use the product in a public place.
- When the product is used by a child, parents or guardians should thoroughly read the "Basic Manual" (this manual) and teach the child how to use it.
- If you are going to use the product overseas, check the laws and regulations of the countries and regions beforehand.

■ Cell phone etiquette!

- The cell phone always emits weak radio waves when power is on. Use the cell phone in an enjoyable and safe manner without forgetting to be considerate of others around you.
- Do not make calls from cinemas, theaters, museums, libraries, and other similar places. Turn power off or turn on manner mode to prevent others around you from being inconvenienced by ringtones.
- Do not use the cell phone on the street where you will be in the way of others.
- Move to areas where you will not inconvenience others, such as on bullet trains and in hotel lobbies.
- Take care to avoid talking in a loud voice.
- Obtain the permission of other people around you before you take their photos with the cell phone's camera.

■ Take care of people around you!

- Turn the product off in crowded trains or other crowded places, since there may be people with a cardiac pacemaker nearby.
- When hospitals or other institutions have 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.

■ Use of the product 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.

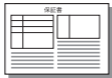
- Do not use this product while you are aboard an airplane. Use of electric devices transmitting radio waves in airplane is prohibited by law. Some airline companies, however, allow their passengers to use cell phones. For details, contact the airline company you use.

List of packaged items

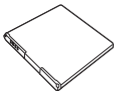
Before you start using the product, make sure that you have all the following packaged with the product.



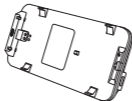
Main unit



Warranty (Japanese)



Battery pack



Desktop holder

- Instruction Manual (Japanese)
- Setting Guide (Japanese)
- VEGA Motionはじめてガイド (VEGA Motion Beginning Guide) (Japanese)

The following items are not included in the package:

- microSD memory card
- AC adapter
- Stereo earphones
- 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.

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Regarding notations used in this document

■ Key indications used in this manual

In this manual, keys are represented by simplified illustrations as shown below.



■ Indications used for the operation of selecting items/icons/keys, etc.

In this manual, the operation procedure to tap the menu item, icon, or key on the screen (▶ P.100) is indicated as [(item name, etc.)].

Also, descriptions in this manual are based on operations with a portrait screen orientation. Items, icons or the keys on the screen may look different with a landscape screen orientation.

Example: When adding a widget to the home screen

1 Home screen → [**⋮**] → [**Widget**]

The widget(s) that can be added will appear. Drag and drop the widget that you want to add to the desired location.



- Depending on applications, the basic screen such as home or menu screen will not appear when you start the application, but instead display the last screen when the application was last used. In such case, tap **↶** several times to display the basic screen such as home or menu screen. In this manual, the procedure to tap **↶** several times is omitted, and the procedure starting with the basic screen such as home or menu screen is described.
- In this manual, the keys, screens and icons are explained by using a main unit in "precious white" color as an example. However, please note that fonts and forms may vary from the actual keys and screens, or some parts may be abbreviated.

- The menu items and icons described in this manual might be different based on different functions you use or different conditions, etc. Also, icons may be intentionally added or moved for explanation purposes.
- In this manual, "microSD™ memory card", "microSDHC™ memory card" and "microSDXC™ memory card" are abbreviated as "microSD memory card".

■ Screen displays used in this manual

Screen illustrations shown in this manual may look different from the actual screens. In some cases, both top and bottom part of a screen may be omitted.

- For the default settings of the respective functions, refer to "Full Instruction Manual"(Japanese).

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 misoperation 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.
- The Company is not liable for any damages arising from failure to observe the described content of the 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
Imported by: Pantech Wireless Japan Inc.
Manufactured by: Pantech Co., Ltd.

- 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.
- Wrong page order or missing pages will be replaced.

Safety Precautions (observe strictly)

- **Before using this 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

 DANGER	This symbol indicates the potential and imminent danger of death or serious injury ⁽¹⁾ to a person.
 WARNING	This symbol indicates the possibility of death or serious injury ⁽¹⁾ to a person.
 CAUTION	This symbol indicates the possibility of personal injury ⁽²⁾ to a person or physical damage ⁽³⁾ .

- *1 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.

- *2 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.
- *3 Physical damage: This refers to extended damage to buildings, furniture, livestock, or pets.

Explanation of graphic symbols used in this manual

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

Precautions common to the main unit, au Micro IC Card (LTE), battery pack, charging equipment, peripheral devices

⚠ DANGER

Be sure to read the following hazards before use.



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



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.




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 NFC/Osaifu-Keitai® at a gas station, be sure to turn off the power in advance. (If "NFC/Osaifu-Keitai lock" has been set, cancel the lock before turning off the power.)





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




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

 Do not short-circuit the connectors. Do not allow conductive foreign objects (metal fragments, pencil leads, etc.) to come into contact with or get inside the connectors. Doing so might cause fire or a fault.


 When using metal accessories, etc., make sure not to allow the metal part come in contact with the connectors or power outlet. Doing so might cause electric shock, fire, injury or a fault.


 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.


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


 **WARNING**


Be sure to read the following warnings before use.


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


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


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


 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 Secure cell phone support center.

 Although this product model has waterproof property, stop use if liquid such as water gets inside the main unit from the external connector cover, earphone jack cover or the battery cover. Continued use of the product in this state might cause overheating, fire or a fault.

 When removing the battery cover, do not exert more than necessary force. The battery pack might jump out, for example, and cause injury or a fault.


 Do not operate the product while driving an automobile or motorized bicycle, riding a bicycle or walking. Doing so may compromise traffic safety and cause an accident.


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


 Do not leave in places within the reach of small children. Small children might swallow small parts, etc. 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.

 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, fire, deformation or a fault.

 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.

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

-
-  Do not touch the main unit or the specified AC adapter (sold separately) for a long time while power is being supplied from an external source. Doing so might cause low-temperature burns.
-
-  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.
-
-  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.
-
-  Do not use the product with the battery cover removed.
-

-
-  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.
-
-  Do not leave or store with the battery cover removed from the main unit. Doing so might allow dust or other foreign objects to get inside and cause a fault.
-



Do not use if there is smoke, abnormal odor or noise, excessive overheating, or other abnormalities. If an abnormality occurs, disconnect the specified charging equipment (sold separately) from the power outlet, make sure that the product is not overheating before turning the power off or removing the battery off, and contact an au shop or Secure cell phone support 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 Secure cell phone support center.



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.



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.



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

Main unit



WARNING

Be sure to read the following warnings before use.



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.



Do not use this product while you are aboard an airplane. Use of electric devices transmitting radio waves in airplane is prohibited by law. Some airline companies, however, allow their passengers to use cell phones. For details, contact the airline company you use.



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 affect of radio waves.)



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 22 cm away from the pacemaker or cardioverter-defibrillator.
2. Turn the product off in crowded trains or other crowded places, 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.
- 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.





Stay alert to your surroundings when calling, messaging, browsing the Internet, shooting photos, playing games, watching TV (1Seg) or listening to music. Failure to do so might cause a fall or traffic accident.


 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.

 Do not light the mobile light in front of a person's eyes. Do not gaze at the light emitting part when the mobile light is lighted. Doing so might cause impairment of eyesight, etc. Be especially careful not to shoot small children from a very close distance.

 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.

 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.

 Use of the main unit in an automobile might sometimes affect on-vehicle electronic devices, though this rarely happens. If this happens, stop use since this may impair safe travel.



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 this product are as follows.


■ Main unit


Part	Material	Surface treatment
Outer case (display panel side)	PC+GF reinforced resin	Acrylic UV cured coating
Outer case (display frame part)	PC+GF reinforced resin	Acrylic UV cured coating
Outer case (operation key side)	PC resin	Acrylic UV cured coating
Outer case (battery cover side)	PC+GF reinforced resin	Acrylic UV cured coating
Battery cover	PC+GF reinforced resin	Acrylic UV cured coating
Camera lens part	Acrylic resin	Chemically cured
Display (touch panel)	Hardened glass	Strengthening heat treatment and fingerprint resistant coating
Infrared port part	Acrylic resin	Chemically cured
Power key, Volume key	PC resin	Acrylic UV cured coating
External connector cover	PC resin	Acrylic UV cured coating
Earphone jack cover	PC resin	Acrylic UV cured coating
Charging connector	Stainless steel	Gold plating


Part	Material	Surface treatment
1Seg antenna (head part)	PC+GF reinforced resin	Acrylic UV cured coating
1Seg antenna (pipe part)	Stainless steel	Nickel plating


■ Desktop holder


Part	Material	Surface treatment
Outer case (front, rear)	ABS resin	Unfinished surface
Stand legs	ABS resin	Unfinished surface
Top/bottom clip	POM resin	Unfinished surface
Side clip	POM resin	Unfinished surface
Connector lever	POM resin	Unfinished surface
Anti-slip rubber	PU resin	Unfinished surface
Connector	Copper alloy	Gold plating
microUSB connector	Copper alloy	Gold plating


 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.


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


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


 Use the product with the covers of external connector or earphone jack, etc. closed. If the covers are open, dirt or water may get inside causing a fault.

 Stow the 1Seg antenna when not watching TV (1Seg). If you operate the product for calling, etc. with the 1Seg antenna extended, it might cause unexpected injury by hitting your face, etc.

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

 Pay attention to items becoming stuck to the main unit. The earpiece (receiver) uses magnets, and so thumbtacks and pins, craft knife blades, staples, and other metal objects sometimes become stuck to the main unit, and cause unexpected injury. Before using the product, be sure to check that there are no foreign objects on the earpiece (receiver) or other parts.

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

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

Battery pack





Li-Ion 00


(The battery pack of this product is a lithium-ion battery.)
The battery pack 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.


 Do not short-circuit the positive (+) and negative (-) contacts of the battery pack.

 Connect the battery pack to this product in the correct orientation. Connecting in an incorrect orientation might cause rupture, fire or overheating. Do not try to forcibly connect the battery pack, instead thoroughly check the connectors carefully before connection.

 Do not puncture the battery pack with a nail, hit it with a hammer or step on it. Doing so might cause fire or damage.

 Do not allow metal objects (such as necklaces and hairpins) to come in contact with the connectors when carrying or storing the battery pack. Doing so might cause fire or a fault due to a short circuit.

 Do not disassemble, modify or directly solder the battery pack. Doing so might cause spilling of the battery liquid resulting in an accident such as loss of eyesight if it gets into eyes, or cause overheating, fire or rupture.

 Do not use a battery pack that has been dropped, stepped on, damaged, or leaking battery liquid. Immediately move the battery pack away from fire if you notice leakage of liquid or unusual odor. Failure to do so might cause the leaked liquid to catch fire resulting in fire or rupture.



Do not wet the battery pack with water, seawater, pet urine, etc. A wet battery pack might cause overheating, rupture or fire. If you drop the product into water by mistake, immediately turn off the power, remove the battery pack, and contact an au shop or Secure cell phone support center. Never charge the wet battery pack.



If the leaked liquid 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. If the liquid gets on a device, wipe it off without touching it.



The battery pack is a consumable item. If the performance of a battery pack does not recover (e.g. the usable time after each charge has become extremely short), the battery pack is at the end of service life, so stop use and buy a new one of the specified type. Failure to do so might cause overheating, fire, rupture or leakage. Note that the length of service life varies depending on the usage condition, etc.



Be careful not to have the battery pack bitten by your pet. It might cause leakage, overheating, rupture or ignition of the battery pack.

■ Charging equipment



WARNING

Be sure to read the following warnings before use.




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


- Desktop holder: 5.0 VDC
- Common AC adapter 01 (sold separately): 100 VAC (for home use in Japan)
Do not charge in single-phase 200 V or charge using a transformer for international travel.


- AC adapter (sold separately) other than the above for charging overseas: 100 VAC to 240 VAC
- DC adapter (sold separately): 12/24 VDC (for negative grounded vehicles only)





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


 If the fuse in the common DC adapter 01/03 (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 fire. (For information about fuse replacement, carefully read the manual for the common DC adapter 01/03 (sold separately).)

 Do not damage, modify, twist, pull or place a heavy object on the power cord of the specified charging equipment (sold separately). Do not use a damaged cord. Doing so might cause an electric shock, short circuit or fire.

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

 If you hear thunder, do not touch the power plug. Doing so might cause an electric shock as a result of a lightning strike.

 Before cleaning the specified charging equipment (sold separately), unplug its power plug from the outlet or cigarette lighter socket. If the plug remains plugged in when you clean the equipment, it might cause an electric shock or short circuit. Also, wipe off dust on the charging equipment's power plug. If the plug is left covered with dust, it might cause fire.

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



Install and position in-car devices where they do not hinder driving or safety equipment such as airbags. Failure to do so might cause a traffic accident. Install in-car devices following the instructions of their manuals.



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



Do not use in places subject to direct splashing with water, pet urine or other liquids. Doing so might result in faults resulting from overheating, fire, electric shock, or short-circuiting of electronic circuits. In the event that the product is splashed with liquid, immediately disconnect the AC adapter's power plug.



Do not use the desktop holder in an automobile. It may be dropped or interfere with driving and may cause malfunction. The desktop holder is intended for indoor use on a stable place.





CAUTION


Be sure to read the following cautions before use.




Do not use in humid places such as bath areas, or connect/disconnect the AC adapter with wet hands. Doing so might cause electric shock or a fault.


 Charge the battery in a stable place especially while the vibration mode set. If placed on an inclined surface or wobbly stand, the product might fall causing injury or damage. In addition, do not cover or wrap the product with a cloth or bedding. Doing so might cause fire or a fault.


 When unplugging the plug of the specified charging equipment (sold separately) from the power outlet or cigarette lighter socket, hold and pull the power plug. If you pull the cord, the cord might be damaged.

 Do not use the common DC adapter 01/03 (sold separately) with the car engine stopped. Doing so might result in draining of the car battery.

 Do not leave the specified charging equipment (sold separately) connected to the main unit with the battery pack removed. Doing so might cause fire or electric shock.

■ au Micro IC Card (LTE)

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

 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.



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



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.



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



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



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



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.



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



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



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



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



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



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



Store the au Micro IC Card (LTE) out of reach of small children. Failure to do so might cause injury or asphyxiation, etc. if they accidentally swallow and choke on it.

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, au Micro IC Card (LTE), battery pack, charging equipment, 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 connector or earphone 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 this product, use the product with the battery cover, external connector cover and earphone jack 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 battery pack, charging equipment or optional accessories. Do not attach/remove the battery cover or open/close the external connector cover or earphone jack 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%.)
 - Charging equipment
 - Peripheral devices
-

- 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 90%. Temporary use at 36°C to 40°C is allowed.)
 - VEGA (PTL21) main unit
 - Battery pack, au Micro IC Card (LTE) (attached to VEGA (PTL21) main unit)

- Do not use in places subject to lots of dust or vibration.

- Clean the connectors with dry cotton swabs, etc. every now and then. Soiled connectors might cause poor connection. Do not exert a strong force to clean the connectors 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 land-line phones, TVs and radios. Use nearby might affect them.

- Depending on usage conditions the main unit might get warm while you are using voice calls, camera functions or while it is being charged, but this is not abnormal. Be careful when it touches your hands and face, etc.


- When the product is used by a child, parents or guardians should thoroughly read the "Basic Manual" (this manual) and teach the child how to use it.
- Turn off the power before removing the battery pack. If you remove the battery pack with the power on, saved data might be altered or lost.

■ Main unit

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

- The touch panel is designed for operation by gently touching it with your finger. Do not press it strongly or with sharp-pointed objects (e.g. nails, ballpoint pens, pins). Doing so does not only hinder correct operation, but also may cause scratching or damage to the display.
- Protective film is applied to the display when purchased. Remove the protective film that was applied when purchased if applying film (commercially available protective films, etc.). In addition, the touch panel might not function properly depending on the kinds of sticker or film products.
- Do not operate the touch panel with fingernails. Doing so may result in split nails or injury such as jammed fingers.

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- If the display surface is dirty or wet from perspiration or water, it may not function correctly. In such case, wipe the display surface dry with a soft cloth.
 - Do not remove the stickers printed with the IMEI that can be seen when the battery pack is removed. These stickers prove that the product and the communication module you are using comply with the Wireless Telegraphy Act and Telecommunications Operations Act.
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- Never use modified au cell phones. Use of a modified device violates the Radio Law. This product has acquired the certification of conformity with technical regulations for the specified radio station based on the Radio Law, and the "Technical Conformity Mark " is printed on the nameplate of the product as a certificate. 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.
-

- 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.
- Contents saved in this 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.

- This 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 photos you took, videos 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 droplets (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 the external device to the external connector, make sure that the connector of the external device is straight with the external connector.
- Note that applying unnecessary force with the external device connected to the external connector 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, remove the battery pack 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 microphone 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 peel off the black sheet on the inner side of the battery cover. Doing so might make it impossible for FeliCa data to be read or written.
- 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 during a call.

■ Touch Panel

- The touch panel was designed to be lightly touched with your fingers. Do not strongly press down on it with your fingers, or sharply pointed objects (fingernails, ballpoint pens, pins, etc.). In addition to this causing the display to not function properly, the display might get scratched or be damaged.
- Protective film is applied to the display when purchased. Remove the protective film that was applied when purchased if applying film (commercially available protective films, etc.). In addition, the touch panel might not function properly depending on the kinds of sticker or film products.
- Do not operate the touch panel with fingernails. Doing so 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.
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- 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.

■ Battery pack

- Use in very hot or cold environments, for example, when left in an automobile with the windows closed in summer, will cause the battery capacity to drop and shorten the available battery usage time. This will also shorten the battery pack's service life. Try to use the battery pack as far as possible at room temperature.
-
- When the battery pack is not to be used for a long time, remove the battery cover and remove the battery pack from the main unit, and store it away from hot and humid places.
-
- 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 battery pack is a consumable item. If the performance of a battery pack does not recover after charge, the battery pack is at the end of service life, so buy a new one of the specified type. Note that the length of service life varies depending on the usage condition, etc.
- Do not discard battery packs together with regular trash. Please cooperate in the collection of used battery packs to protect the environment and effectively use resources. au shops and other retailers collect used battery packs.
- Battery packs sometimes swell up as they approach the end of their service life. This is due to the properties of lithium-ion batteries, and is not a problem in terms of safety.

■ Charging equipment

- When not using the specified charging equipment (sold separately), remove the plug from the power outlet or cigarette lighter socket.
- Do not wrap the cord of the specified charging equipment (sold separately) around the adapter itself. Doing so might cause electric shock, overheating or fire.
- Do not forcibly bend the charging equipment's plug or the connection between the connector and power cord. Doing so might cause electric shock, overheating or fire.

■ 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.
 - 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.
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- Do not put stickers, etc. on the au Micro IC Card (LTE).
-

- Do not use au Micro IC Card (LTE) with the card adapter. Doing so might cause a fault.

■ Camera

- When using the camera, follow common rules of etiquette regarding camera use.
 - Image data might be altered or lost due to malfunction, repair or mishandling of this 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 (1Seg)

- Do not listen to music or watch videos or TV (1Seg) 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 may not be heard clearly, and gazing at the screen might 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

- You are not allowed to copy, distribute, publish, modify or edit the data you shot, recorded or downloaded using this product 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 might infringe on rights of portrait.

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

- Be careful about the copyright and portrait right when posting photos you shot, etc. on Internet websites.

〈Backup 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, repair, mishandling, etc.

* How to make backups

- Store important data such as phonebook data, music, shot photos 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

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 website
Initial value	A four digit number chosen by the customer and noted on the application form

● Security code to unlock your cell phone

Example of usage	To set and release the screen lock
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

● Password (NFC/Osaifu-Keitai lock setting)

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

Privacy protection function

The function shown below is installed in the product to protect the privacy of the saved data.

Function	Description
Screen lock	Set pattern, PIN or password to unlock screen when turning on the phone or when screen is locked to ensure safe protection of data.
NFC/Osaifu-Keitai [®] lock	Lock the services provided by NFC/Osaifu-Keitai [®] to prevent third parties from using the services.
Text memo password lock	Securely protect data by setting a password for the text memo.

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.



memo

- "PIN code" is not reset by initializing the product.

Notes on waterproof and dustproof properties

This product has a waterproof property equivalent to IPX5^{*1} and IPX7^{*2}, as well as a dustproof property equivalent to IP5X^{*3} on the condition that the external connector cover, earphone jack cover and battery cover are securely attached (based on in-house testing).

Specifically, you can make calls holding the product with wet hands in the rain (less than 20 mm per hour) without using an umbrella, as well as use the product in a place with water such as a bathroom or kitchen.

Before using the product, thoroughly read "Important items to remember before use" and "Tips for comfortable use" 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, fire, electric shock, injury or a fault.

- *1 IPX5 equivalent means that the product will maintain its operability as a phone even if it is sprayed with water from a 6.3 mm diameter nozzle at a distance of about 3 meters for more than 3 minutes at a rate of about 12.5 liters per minute from any direction.
- *2 IPX7 equivalent means that the product will maintain its operability as a phone with no water getting inside the main unit even if it is gently submerged in a tank of still tap water at room temperature to a depth of 1 meter for about 30 minutes.

- *3 IP5X equivalent means that the product will securely maintain its operability as a phone even after it has been placed in an apparatus with grit and dust of diameters of 75 μm or less and shaken for 8 hours.

Since operation of the product on each usage scene was confirmed based on the above assumption, proper operation of the product in every possible condition during actual use is not guaranteed. Malfunctions determined to be caused by mishandling by the customer are not covered by the warranty.

Important items to remember before use

- ① **Make sure that the external connector cover and earphone jack cover are firmly closed, and the battery cover is securely attached.**



- Waterproofness and dustproofness are only effective when the covers are securely closed.

- Just a small particle (a hair, etc.) on the seals can cause water or dust to penetrate.
- Do not open/close the external connector cover, earphone jack cover or battery cover if the main unit or your hands are wet.

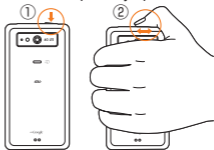
How to close the external connector cover and earphone jack cover

For example: when closing the earphone jack cover

After stowing the cover hinge, press on the earphone jack cover ① evenly with the flat part of your finger.



Then, rub your finger over the cover in the direction of arrow ② to ensure that the cover is not partially open.



Soap/
detergent/
bath salts



Seawater



Hot spring



Sand/mud

- ② **Do not immerse the product in water with soap, detergent or bath salts in it.**

- ③ **Do not immerse the product in seawater, a swimming pool or hot spring.**
- ④ **Do not immerse the product in any liquid (alcohol, etc.) other than water.**
- ⑤ **Do not place the product directly on sand at a beach, etc. Grains of sand or other small particles might get into the earpiece, microphone or speaker causing the volume to drop. And if sand gets inside the main unit, it might cause overheating or a fault.**
- ⑥ **Do not use the product underwater.**
- ⑦ **Do not leave the product in a humid place such as a bathroom or kitchen for an extended period of time.**

Tips for comfortable use

- Once the product gets wet, water may remain in gaps of the main unit. Shake the product well to drain water. Especially make sure to drain water remaining in the battery cover and key parts.
- Even after water is drained, the inner parts might be still wet. Although you can use the product, do not place it near things that must not get wet. Take care not to wet your clothes, bag or contents of the bag.
- Drain water if it becomes temporarily hard to hear the sound due to water remaining in the microphone or earpiece. (▶ P.62 "Draining water after wetting the product")
- If the display is dirty or wet from perspiration or water, the touch panel may not function correctly. In such case, wipe the display surface clean.

■ Notes on various usage scenes

In the rain: You can make calls holding the product with wet hands in the rain without using an umbrella.

- The rain in this case means a moderately-heavy rain (less than 20 mm per hour).
- Water drops on the display might cause errors in the touch panel operation.
- Never open/close the external connector cover, earphone jack cover or battery cover if the product is exposed to rain, or your hands are wet.

In the shower: You can make calls holding the product with wet hands while taking a shower.

- Avoid spraying the product with high-pressure water, as the product is not designed to withstand high water pressure.

Washing: You can wash the product under a mild flow (up to 6 liters per minute) of tap water at room temperature (5°C to 35°C) at a distance of about 10 cm from the faucet or showerhead.

- Do not spray the product with high-pressure water or submerge it in water for extended periods of time, as the product is not designed to withstand high water pressure.
- Make sure that the battery cover is tightly closed, and holding the external connector cover and earphone jack cover so that they do not open, wash the product with your hands. Do not use a brush or sponge.

- Do not wash the product in a washing machine or ultrasound bath.
- Do not splash the product with or immerse it in soap water, detergent water, etc. other than tap water.

In the bath: You can use the product in a bathroom. Although you can make calls with wet hands, do not immerse the product into a bathtub. The product is not resistant to high temperatures.

- Do not use the product in a bathroom for an extended period of time. The product is not moistureproof.
- Do not immerse the product in hot spring water, soap water, detergent water, or water with bath salts in it. Also, do not use the product underwater. Doing so may cause a fault.
- Extreme changes in temperature cause condensation. Wait until the main unit reaches room temperature before you bring the product from a cold place into a warm bathroom.

- If condensation occurs inside the display, leave the product at room temperature for a while until condensation is cleared.
- When viewing TV (1Seg), place the product on a stable surface.
- Do not splash the product with hot water. The product is not resistant to high temperatures.
- Do not bring the desktop holder into a bathroom.

In the kitchen: You can use the product in the kitchen and other places where water is used.

- Do not splash the product with or immerse it in soap water, detergent water, seasonings, juices, etc. other than tap water.
- Do not immerse the product in or splash it with boiling water. The product is not resistant to hot temperatures.
- Do not place the product where it gets extremely hot or cold such as near a stove or in a refrigerator.
- When viewing TV (1Seg), place the product on a stable surface.

■ Common precautions

- External connector cover, earphone jack cover and battery cover

Make sure that the external connector cover and earphone jack cover are firmly closed, and the battery cover is securely attached. Just a small particle (a hair, etc.) on the seals can cause water or dust to penetrate. Do not open/close the external connector cover and earphone jack cover or attach/remove the battery cover with gloved hands. Just a small particle (a hair, etc.) on the seals can cause water or dust to penetrate. Wipe off any minuscule droplets of water or dirt with a clean dry cloth before closing the covers. If the external connector cover, earphone jack cover or battery cover get degraded or damaged, the waterproof and dustproof property becomes ineffective. In such case, contact an au shop near you.

- If any liquid other than plain water gets on the product

If any liquid other than plain water (e.g. seawater, detergent, alcohol) gets on the product, immediately rinse it with plain water.

You can wash the product under a mild flow (up to 6 liters per minute) of tap water at room temperature (5°C to 35°C) at a distance of about 10 cm from the faucet or showerhead.

If the product gets dirty, wash it with your hands holding the battery cover, external connector cover and earphone jack cover so that they do not open.

- After the product gets wet

After the product gets wet, drain water, and wipe the main unit and the battery cover with a clean dry cloth without removing the battery cover.

In cold climates, water on the main unit may turn to frost. Using the product with frost may cause a fault. Do not leave the product without wiping off water. (No special measures against condensation have been implemented in this product.)

- Rubber seals

The rubber seals on the inner edges of the external connector cover or earphone jack cover, and battery cover are important to maintain waterproof and dustproof properties. Do not damage or remove the rubber seals. When closing the external connector cover, earphone jack cover or battery cover, take care not to get the rubber seals caught.



Forcibly closing the cover with the rubber seals caught may damage them resulting in loss of waterproof and dustproof properties. Just a small particle (a hair, etc.) on the seals can cause water or dust to penetrate. If any liquid other than plain water (e.g. alcohol) gets on the rubber seals, it may cause deterioration in durability. Do not insert sharp objects into gaps around the external connector cover, earphone jack cover and battery cover. Doing so might damage or deform the product or damage the rubber seals, causing water or dust to penetrate. It is recommended to replace the parts for maintaining waterproof and dustproof properties once every 2 years (for a fee) regardless of whether any abnormality is present. For information on part replacement, contact an au shop near you.

- **Charging**
Never charge the battery if the main unit is wet. The supplied and optional accessories are not waterproof nor dustproof.
- **Waterproof property**
Do not use the product in places where it may be sprayed with high-pressure water (e.g. near a faucet or showerhead) or submerge it in water for extended periods of time, as the product is not designed to withstand high water pressure. Also, do not expose the product to a water flow stronger than the specified flow rate (i.e. 6 liters per minute from a faucet or showerhead, at which you might even feel pain in the skin). Doing so might cause a fault, even though the product has a waterproof property equivalent to IPX5. Do not wash the product in a washing machine or ultrasound bath. This product does not float on water.

- Heat resistance

Do not use the product in places where boiling water may splash on it, in saunas or near hot air (e.g. hairdryer). The product is not resistant to high temperatures.

- Shock

This product is not resistant to shock. Do not drop the product or subject it to shock. Also, do not jab the earpiece, microphone or speaker with a cotton swab or any sharp object. Doing so might damage or deform the main unit causing water or dust to penetrate.

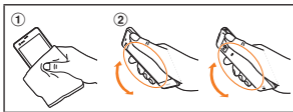
■ Draining water after wetting the product

As some parts of this product are not watertight, if you use the product after it gets wet, water remaining in those parts might wet your clothes or bag, or the sound might become hard to hear.

Follow the steps below to drain water.

- ① **Carefully wipe the moisture off the main unit with a dry towel, cloth, etc.**
- ② **Hold the product firmly and shake it about 20 times in the direction of the arrow shown in the figure until water drops no longer fly off.**

When shaking the product, confirm the safety around you and hold it firmly so as not to drop it.



- ③ Cover **○** and **□** with a towel, cloth, etc. and press each key two to three times.
- ④ Wipe the moisture coming out from inside with a dry towel, cloth, etc.
- ⑤ Place it on a dry towel, cloth, etc. and let it dry at ambient temperature. (Around one to two hours)



If it is not fully dried, the sound may become hard to hear. Let it fully dry before use.

■ Precautions on charging

The supplied and optional accessories are not waterproof nor dustproof. Be sure to check the following points before and after charging.

- Never charge the battery if the main unit is wet. Doing so might cause electric shock or short circuit resulting in fire or a fault.
- Check that the main unit is not wet. If you are charging the battery just after the product gets wet, drain water well and wipe remaining water off with a clean dry cloth before placing it in the desktop holder or opening the external connector cover.
- If you charge the battery with the external connector cover open, be sure to tightly close the cover when charging is finished.

We recommend using the desktop holder to charge the battery to prevent water or dust from entering from the external connector.

- Do not touch the specified charging equipment (sold separately) or desktop holder with wet hands. Doing so might cause electric shock.
- Do not splash water over the specified charging equipment (sold separately) and desktop holder when using them. Do not use them near water such as in a bathroom, shower room, kitchen or washroom. Doing so might cause fire, electric shock or a fault. Do not bring them into a bathroom, etc. even when you are not charging with them.

Notes on using Bluetooth®/ wireless LAN (Wi-Fi®) functions

- The Bluetooth® function and wireless LAN (Wi-Fi®) functions of this product conforms to the domestic standards of Japan and FCC/CE standards, 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, the communication speed and connectable range may be decreased, or disconnection may occur, due to interference by other devices.
- Do not use this product in places where electromagnetic waves are generated or near electric products, AV and OA equipment, or other magnetized devices.

- Subjecting this product to magnetic or electrical noise might increase noise and prevent it from performing communications. (This product is particularly susceptible to noise when it used near a microwave oven.)
 - Using this 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 to the product or the same channel is being used.
 - The wireless LAN (Wi-Fi®) function cannot be used in airplane. Be sure to turn off the power even in a Wi-Fi compliant airplane. Some airline companies, however, allow their passengers to use cell phones. For details, contact the airline company you use.
- The communication speed and connectable range vary depending on the distance between communication devices, obstacles and the Bluetooth® devices used.

2.4 GHz frequency band precautions

The frequencies used by the Bluetooth® and/or wireless LAN (Wi-Fi®) function of this product are in the 2.4 GHz band. In this frequency band, 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, amateur wireless stations (collectively called "other wireless stations" from here on) are operated in addition to home electrical appliances such as microwave ovens, devices for industrial, scientific and medical devices.

- ① Before using this 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 this product and "other wireless stations", immediately either relocate this 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.

- Connections between this 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.
- This 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 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.

Bluetooth® and wireless LAN (Wi-Fi®) functions of this product use frequencies in the 2.4 GHz band.

2.4FH1/DS4/OF4/XX8

- Bluetooth® function: 2.4FH1/XX8
This product uses the 2.4 GHz band. FH-SS is used as the modulation scheme. The interference distance is about 10 m or less. XX8 uses other schemes and the interference distance is about 80 m or less.

- Wireless LAN (Wi-Fi®) function: 2.4DS4/OF4

This 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.

This means that all bandwidths can be used, and that bands of mobile unit identification devices can be avoided.

Available channels differ depending on the country.

For use in airplane, check with the airline company in advance.

5 GHz frequency band precautions

Wireless LAN (Wi-Fi®) function of this product uses 5 GHz band. Using 5.2 GHz band and 5.3 GHz band outdoors is prohibited by the Radio Law.

The channels used on the product are as follows.

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)

IEEE802.11b/g/n		
IEEE802.11a/n		
W52	W53	W56

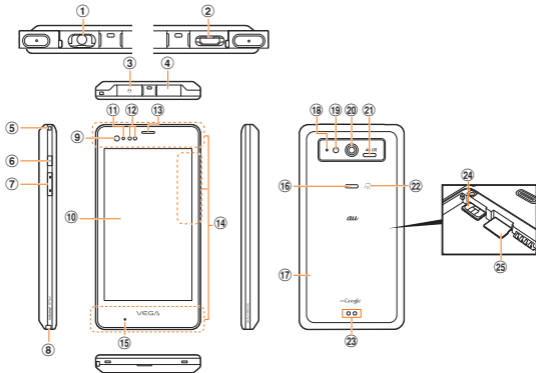
Notes on packet communication charges




- Since constant Internet connection is possible with this product, packet communications may be performed automatically by some applications, resulting in high packet communication charges. Therefore, subscription to a packet communication charge discount service or flat rate plan is recommended.
- To browse websites, 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 Wi-Fi connection.

Notes on Google Play/au Market/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 prohibit the product from entering sleep mode while they are active, or rapidly drain the battery while running in the background.
- Operation procedures and screen appearances of the applications preinstalled in this 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.

Names and functions of parts



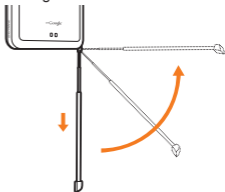
- ① **Earphone jack**
- ② **External connector**
Used when connecting with common AC adapter 04 (sold separately), microUSB cable 01 (sold separately), 18-pin microUSB conversion adapter 01 (sold separately), etc. The external connector of this product is USB Micro-B connector.
- ③ **Earphone jack cover**
- ④ **External connector cover**
- ⑤ **Hand strap hole**
- ⑥ **Power key** ()
Press to turn power on/off and set/cancel sleep mode.
- ⑦ **Volume key** ( )
Used to adjust volume.
- ⑧ **1Seg antenna**
- ⑨ **In-Camera (Camera lens)**
- ⑩ **Display**
- ⑪ **Charge light / Incoming call light**
Lights up in red when charging.
Flashes in blue during an incoming call.

- ⑫ **Proximity sensor/VEGA Motion sensor**
Prevents touch panel misoperations during calls. Is also used to recognize the motions of VEGA Motion (operations).
- ⑬ **Earpiece (Receiver)**
You can hear the other party's voice from here during a call.
- ⑭ **Built-in antenna**
Do not cover up the built-in antenna with your hands when making calls, using 3G/LTE data communications, using Wi-Fi® functions, Bluetooth® functions, or receiving GPS information.
* The antenna is built into the main unit. Quality might be affected if you cover up the proximity of the antenna with your hands.
- ⑮ **Mouthpiece (Microphone)**
Transmits your voice to the other party and also used when recording voice. While talking on the phone or recording, do not cover the microphone with your fingers, etc.
- ⑯ **Speaker**
You can hear the ringtone, alarm, music sound and reproduced sound of a video, etc.

- ⑰ **Battery cover**
- ⑱ **Filming LED**
- ⑲ **Mobile light**
- ⑳ **Out-Camera (Camera lens)**
- ㉑ **Infrared port**
Sends and receives data during infrared communication.
- ㉒ **FeliCa mark**
Hold this mark against the reader/writer when using Osaifu-Keitai® or NFC.
- ㉓ **Charging connector**
The connector for charging with a desktop holder.
- ㉔ **au Micro IC Card (LTE)**
For details on how to use an au Micro IC Card (LTE), refer to "au Micro IC Card (LTE)" (▶ P.34).
- ㉕ **microSD memory card**

How to pull out the 1Seg antenna

Direct and pull out the 1Seg antenna as per the following illustration.



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- Pull out the 1Seg antenna completely and bend it to each direction. 1Seg antenna might get damaged if you bend it without pulling it out completely.

Attaching/removing the battery pack

Use only the battery pack for this product and attach it properly.

- Before attaching or removing the battery pack and battery cover, be sure to turn the power off.



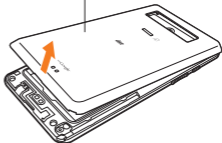
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- For detailed information about cautions on battery pack, refer to "Battery pack" (▶ P.28).

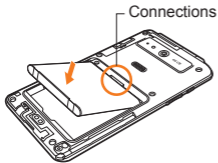
Attaching the battery pack

- 1 Put your fingertip (nail etc.) into the groove of the main unit. Lift up the battery cover in the direction of arrow and remove it**

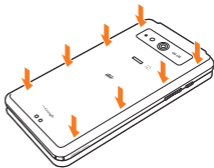
Battery cover



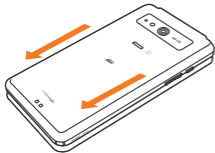
- 2** Insert the battery pack with the printed label facing up. Make sure that the connections of this product main unit and the battery pack are aligned with each other, and then insert the battery pack firmly



- 3** Press the eight tabs on the battery cover



- 4** Slide your fingers down both sides of the battery cover in the direction of the arrow to make sure that the entire cover is not loose



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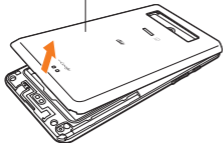
- Make sure that the au Micro IC Card (LTE) is properly attached before inserting the battery pack.
- To ensure waterproof functions, close the battery cover tightly so that it is not loose.
- Attaching it in an incorrect manner may cause damage to the battery pack and battery cover.

Removing the battery pack

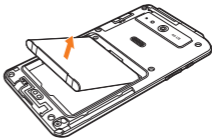
Be sure to turn the power off on the main unit before removing the battery pack.

- 1 Put your finger tip (nail etc.) into the groove of the main unit. Lift up the battery cover in the direction of arrow and remove it**

Battery cover



- 2 Lift the section printed "PULL" on the lower part of the battery pack and remove it**

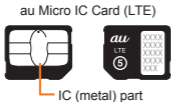


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- When removing the battery pack, trying to lift it in other directions other than "PULL" direction may damage the connection on the main unit.

Attaching/removing the au Micro IC Card (LTE)

au Micro IC Card (LTE) stores your personal information such as a phone number. The product is compliant with au Micro IC Card (LTE) only. IC Cards other than the au Micro IC Card (LTE) cannot be used.




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- Note the following points, which may cause malfunction or damage, when handling the au Micro IC Card (LTE).

- Do not touch the IC (metal) part of the au Micro IC Card (LTE) or the IC card contact inside this product main unit.
 - Insert the IC card in the correct direction.
 - Do not use force to attach or remove the IC card.
- Be sure to remove the plug of the specified AC adapter (sold separately), etc. from the product main unit before attaching/removing the au Micro IC Card (LTE).
 - An error message will appear when the au Micro IC Card (LTE) is not correctly attached or when something is wrong with the au Micro IC Card (LTE).
 - Do not lose the au Micro IC Card (LTE) after it has been removed.

When the au Micro IC Card (LTE) is not inserted or a card other than the au Micro IC Card (LTE) is inserted...

Do not use this product inserted with any card other than the au Micro IC Card (LTE). The following operations are not available when the au Micro IC Card (LTE) is not inserted or a card other than the au Micro IC Card (LTE) is inserted. Also,  is not displayed.

- Making* or receiving a call
- Sending or receiving an e-mail or an SMS
- 3G/LTE data communication
- Confirm your phone number or your e-mail address
- Set au Micro IC Card(LTE) lock

- * Emergency calls to 110 (Police), 119 (Fire department or ambulance service) and 118 (Japan Coast Guard), and calls to 157 (Customer center) are not available.

In addition to the above, you may not be able to use functions that require your phone number, etc.

Restriction settings with PIN

If you use the au Micro IC Card (LTE), you can restrict the use by third parties by changing the PIN or setting the au Micro IC Card(LTE) lock to protect your important private information.

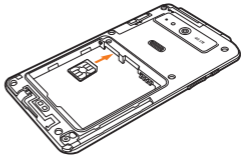
Attaching the au Micro IC Card (LTE)

Attach the au Micro IC Card (LTE) after turning off the power and removing the battery pack.

- 1 Turn off the power on the main unit and remove the battery pack**
(▶ P.77 "Removing the battery pack")

- 2 Insert the au Micro IC Card (LTE) with the IC (metal) side facing up**
Make sure that the direction of the notch on the au Micro IC Card (LTE) is the same as the description on the sticker that appears when the battery pack is removed.

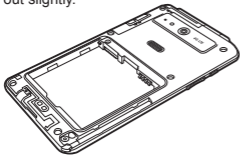
When inserted in the correct orientation, the au Micro IC Card (LTE) will touch the guide inside the slot. Continue inserting it until you hear a click.



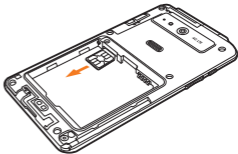
Removing the au Micro IC Card (LTE)

Remove the au Micro IC Card (LTE) after turning off the power and removing the battery pack.

- 1 Turn off the power on the main unit and remove the battery pack**
(▶ P.77 "Removing the battery pack")
- 2 Gently press the au Micro IC Card (LTE) inward with your fingertip**
The au Micro IC Card (LTE) will pop out slightly.



- 3 Slide the au Micro IC Card (LTE) straight out in the direction shown as below**



Installing/removing a microSD memory card

You can save data by installing a microSD memory card (including microSDHC memory card, microSDXC memory card) in the product main unit. Also, you can back up the data of your contacts and e-mails, etc. to a microSD memory card.



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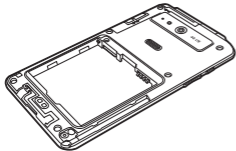
- Depending on applications, a microSD memory card is required when using the application.
- The file size for this product is up to 64 GB when using microSDXC memory card.
- The file size for this product is up to 32 GB (Up to 4 GB per file) when using microSD/microSDHC memory card.
- A microSD memory card formatted on other devices may not operate properly on this product. Please format the card on this product.

Precautions

- Do not remove the microSD memory card, remove the battery pack, or turn the power off on the main unit or device during a reading, writing, playback, saving, or transferring/copying data. Doing so may cause damage to (erase) the recorded data on the product main unit and microSD memory card.
 - Do not drop or subject the microSD memory card to strong shaking or impact when it is inserted in the main unit. Doing so may cause damage to (erase) the recorded data.
 - Do not insert any liquid, metal or flammable items other than a microSD memory card in the microSD memory card slot on the product main unit. Doing so may cause fire, electric shock or malfunction.
- This product is compatible with the microSD/microSDHC/microSDXC memory cards. For information on compatible microSD/microSDHC/microSDXC memory cards, please inquire with the respective microSD memory card distributor or visit the au Website.

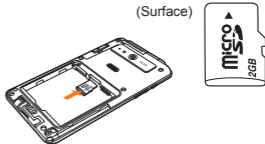
Installing a microSD memory card

- 1 Turn off the power of the main unit and remove the battery pack (▶ P.77 "Removing the battery pack")



- 2 Confirm the correct direction for inserting the microSD memory card and slowly insert it until you hear a click

When the card is inserted, make sure you hear the click and it is locked. Be careful as the micro SD memory card may pop out if it is released before locking.



- 3 Attach the battery pack and the battery cover

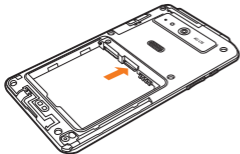
- Do not touch the connector part of the microSD memory card.
- Make sure that the top and bottom of the microSD memory card are oriented correctly.
The card may become stuck or damaged if you try to force an incorrectly oriented card into the slot.

Removing the microSD memory card

- 1 Turn off the power of the main unit and remove the battery pack**
(▶ P.77 "Removing the battery pack")

2 Slowly press the microSD memory card inward until you hear a click

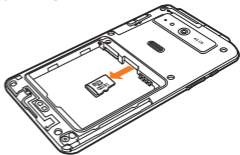
When you hear a click, place your finger against the microSD memory card as it comes out. The end of the microSD memory card will be ejected, and keep your finger against it. Be careful as the card may pop out if you press too hard and remove your finger.



3 Slowly pull out the microSD memory card

Slowly pull it straight out.

Some microSD memory cards may not unlock, and the card may not come out. In this case, gently pull the card out with your fingers.



4 Attach the battery pack and the battery cover

- Do not apply excess force to pull out the microSD memory card. Doing so may cause malfunction or data loss.
- The removed microSD memory card may be warm after prolonged use. This is not a malfunction.

Charging

When you purchase your cell phone, the battery pack is not fully charged. Please charge the battery before use.

■ Usage time

Continuous standby time ^{*1}	Approx. 400 hours (when using 3G) ^{*2} Approx. 380 hours (when using LTE) ^{*2}
Continuous call time ^{*1}	Approx. 700 mins. ^{*2}

*1 Times indicate usage times in Japan. For usage time when using the phone overseas, refer to "Main specifications" (▶P.149).

*2 When not using Wi-Fi®

Charge time

AC adapter*¹:
Approx. 90 mins.
DC adapter*²:
Approx. 370 mins.

- *1 When using the common AC adapter 04 (sold separately)
- *2 When using the common DC adapter 03 (sold separately)

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- While charging, the product main unit and battery pack may become hot. This is not a malfunction.
- For the battery pack, thoroughly read the "Safety precautions" (▶ P.12) before use.
- The charge time will take longer when you use the camera function, etc. while charging the battery.

- Operating the phone while connected with a specified charger (sold separately) may cause repeated charge/discharge in short-cycles. The life of the battery pack becomes shorter when frequent charging is done repeatedly.
- When the red charge light on the product is flashing, check to make sure that the battery pack and connections are properly attached. If the light continues to flash, stop charging and contact an au shop or Secure cell phone support center.
- For the common AC adapter 01 (sold separately), use AC100 V for home use in Japan. Do not charge in single-phase 200 V or charge using a transformer for international travel.

- When using a specified AC adapter (sold separately) overseas, other than the common AC adapter 01 (sold separately), use an appropriate conversion plug adapter for your destination. Do not charge using a transformer for international travel.
- Clean the power plug and charging connector with dry cotton swabs, etc. every now and then. Be careful not to deform the connectors when cleaning. The battery may not charge properly due to soiled connectors.
- Firmly close the external connector cover after charging. Do not pull hard on the cover or twist it.

- The continuous call time and continuous standby time are average usage times combining moving state and stationary state when radio reception is normal. The usage time may drop to less than half in the following cases, depending on the battery charging status, usage environment such as temperature, reception condition at the location where the product is used, and function settings.
 - The product is often used in places where ■ (out of service) is displayed
 - Use of Wi-Fi® function, Bluetooth® function, mail function, camera function, 1Seg function, location information, etc.
 - When applications that run in the background are used

Charging with a specified AC adapter (sold separately) and desktop holder

A specified AC adapter (sold separately) and desktop holder are required.

For information on the specified AC adapter (sold separately), refer to "Introduction of related accessories" (▶ P.132). (Please note that the illustration and shape may vary depending on the AC adapter you use.)

This section describes how to charge using a common AC adapter 04 (sold separately).

- * Charge time when connecting to the common AC adapter 04 (sold separately) is approx. 90 minutes.

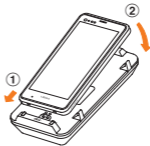


- If desktop clock is set, desktop clock screen will be displayed when inserting this product into desktop holder. It will take longer to charge when charging with the desktop clock screen displayed.
- When charging with a common AC adapter 01 (sold separately), a common AC adapter 02 (sold separately), or an AC adapter (sold separately) with common specifications as the common AC adapter 02 (sold separately), connect it with the desktop holder using an 18-pin microUSB conversion adapter 01 (sold separately).

- If you begin charging the product when the power is off, the product will automatically turn the power on and the charging screen will appear. (This is a screen display for charging only, and other operations are not possible.) When finished charging, the power will automatically turn off on the product.
- When charging with the power off and the charge is finished with a low battery level, a low charge level message may be displayed.
- Do not make a call, receive a call, or talk on the phone with the product inserted into the desktop holder.
- When using the desktop holder, place it on a stable place. Failure to do so might cause a fall, a drop or damage.

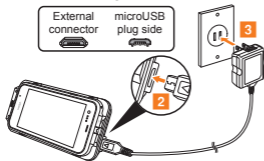
1 Insert the product into the desktop holder

- ① Position in alignment with the charging connector,
- ② align the product with the tabs and insert it.



- 2** Connect the microUSB plug of the common AC adapter 04 (sold separately) to the connector of the desktop holder

Confirm the shape of the connector end and insert it straight.



- 3** Connect the power plug of the common AC adapter 04 (sold separately) to an AC 100 V power outlet

The red charge light on the product will turn on, and the battery level icon at the upper part of the display will indicate a charging status.

The charge light will turn off when the charge is complete.

- 4** Remove the product from the desktop holder when finished charging

Press the desktop holder down, and remove the product straightforward from the holder.

- 5** Remove the power plug of the common AC adapter 04 (sold separately) from the power outlet

Charging with a specified AC adapter (sold separately) connected directly to the product

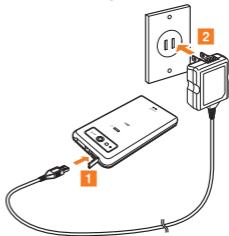
For information on specified AC adapters (sold separately), refer to "Introduction of related accessories" (▶ P.132). (Please note that the illustration and shape may vary depending on the AC adapter you use.) This section describes how to charge using a common AC adapter 04 (sold separately).



- When charging with a common AC adapter 01 (sold separately), a common AC adapter 02 (sold separately), or an AC adapter (sold separately) with common specifications as the common AC adapter 02 (sold separately), connect it with the product main unit using an 18-pin microUSB conversion adapter 01 (sold separately).
- If you begin charging the product when the power is off, the product will automatically turn the power on and the charging screen will appear. (This is a screen display for charging only, and other operations are not possible.) When finished charging, the power will automatically turn off.

- When charging with the power off and the charge is finished with a low battery level, a low charge level message may be displayed.

- 1 Connect the microUSB plug of the common AC adapter 04 (sold separately) to the product**
Open the external connector cover, confirm the shape of the connector end and insert it straight.



- 2 Connect the power plug of the common AC adapter 04 (sold separately) to an AC 100 V power outlet**

The red charge light on the product will light up, and the battery level icon at the upper part of the display will indicate a charging status.

The charge light will turn off when the charge is complete.

- 3 When finished charging, remove the microUSB plug of the common AC adapter 04 (sold separately) straight from the product**

- 4 Close the external connector cover on the product**

- 5 Remove the power plug of the common AC adapter 04 (sold separately) from the power outlet**

Charging with a PC

A separate microUSB cable (sold separately) is required. For information on specified microUSB cables (sold separately), refer to "Introduction of related accessories" (▶ P.132).

- 1 Fully start up the PC and connect the microUSB cable to the USB port on the PC**
- 2 Connect the microUSB cable to the product's external connector**

Open the external connector cover, confirm the shape of the connector end and insert it straight.

The PC will automatically detect the product.

The PC may ask to install a device driver, but please cancel this.

The red charge light on the product will light up, and the battery level icon at the upper part of the display will indicate a charging status.

The charge light will turn off when the charge is complete.




- The product can be charged with the power on, but it will take longer to charge.
- When charging with a USB, it may take longer to charge compared to a specified AC adapter (sold separately).
- When charging a battery that has run out, the charge light may not light up. In this case, please charge using a specified AC adapter (sold separately).

Turning the power on/off



Turning your phone on

1 (Press and hold down for more than 1 second)

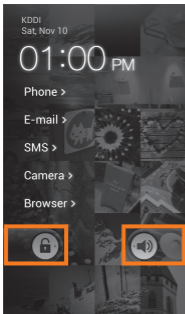
A short time after the logo is displayed, the unlock screen will appear.

Touch and hold down . Then drag it to the orange point shown on the right side to "Unlock".

If the screen lock is set, follow the instructions for each screen lock.

Touch and hold down  / . Then drag it to the orange point shown on the left side to switch to "Vibrate On" or "Vibrate Off".

Drag the "Phone", "E-mail", "SMS", "Camera" or "Browser" to the orange point on the right side to directly start each application.




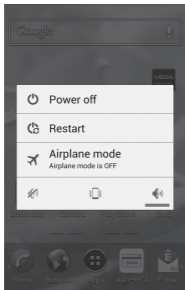
《Unlock screen》



- When you turn the power on for the first time after purchasing the product, the initial setting screen will appear. For information on initial settings, refer to the "Setting Guide" included in the package.


Turning your phone off

- 1  (Press and hold down)
- 2 [Power off] → [OK]




Sleep mode

When the product is not operated for a certain amount of time, the display will automatically turn off and switch to sleep mode.

Also, it will switch to sleep mode when  is pressed while operating the phone.

Turning off sleep mode

- 1 Press  while in sleep mode
The unlock screen will appear.

Using the touch panel

The display on the product is a touch panel operated by touching it with your finger.

- The touch panel is designed to be touched lightly with your finger. Do not exert too much pressure with your finger or press sharp-pointed objects (fingernails, ballpoint pens, pins, etc.) against it. Doing so does not only hinder correct operation, but also may cause scratching or damage to the display.
- Protective film is applied to the display when purchased. Remove the protective film that was applied when purchased if applying film (commercially available protective films, etc.). In addition, the touch panel might not function properly depending on the kinds of sticker or film products.

- Do not operate the touch panel with fingernails. Doing so may result in split nails or injury such as jammed fingers.
- If the display surface is dirty or wet from perspiration or water, it may not function correctly. In such case, wipe the display surface dry with a soft cloth.



memo

- When this product is connected to video equipment (televisions, monitors) via an HDMI cable (commercial product), the touch operations might be slow to respond with the video equipment.

■ Tap/Double tap

Tap: Gently touch the screen and then immediately release your finger. **Double tap:** Tap the same position twice.



■ Touch and hold down

Keep touching an item on the screen with your finger.



■ Slide

While your finger is gently touching the screen, trace to the desired direction to move the screen to show a hidden part.



■ Flick

Operate the screen by quickly moving (flicking) your finger up, down, right, or left.



Pinch

Touch the screen with two fingers and widen (pinch-out) or narrow (pinch-in) the fingers' distance.



Drag/Drag and drop

Keep touching an item or icon and trace it to the desired direction to move it. Drag and drop is the operation to release an item or icon at the desired location after dragging it.







Using the home screen

The home screen allows you to confirm the status of the product and current settings.













《Home screen》

- ① **Status bar**
- ② **Customize area**
- ③ **Locator**
- ④ **Quick menu**
- ⑤ : **Back icon**
Back to the previous operation.
- ⑥ : **Home icon**
Displays the home screen.
- ⑦ : **Recent apps icon**
Displays recently-used applications.
- ⑧ : **Menu icon**
Displays the options menu.










Monitoring the product's status

The status bar is located at the top of the screen on the product. Notification icons such as a new mail or missed call are displayed on the left side of the status bar. On the right side, status icons such as strength of radio wave or battery level showing the state of the product are displayed.

Notification icon examples

Icon	Overview
	Missed call
	New e-mail message
	New SMS message
	New PC mail message
	New Gmail message
 (White)	Receiving a call
	Playing a track
	USB is connected
	USB debugging is connected
	Downloading/installation of data or application

Status icon examples

Icon	Overview
	Time
	Battery level (Charging)
	Strength of radio wave (Received field)
	3G/LTE data communication status
	CDMA 1X data communication status
	Strength of Wi-Fi® signal
	Airplane mode is on
	Manner mode status
	Bluetooth® connection status

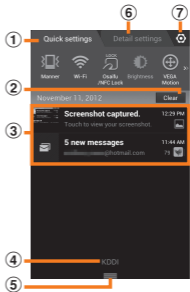
Using the notification/status panel

The notification/status panel allows you to check the details of a notification icon or status icon, or launch the respective application.

Also, tap "Quick settings" to easily switch the Manner mode or Wi-Fi® on or off.

1 Slide the status bar downwards

The notification/status panel will appear.













《Notification/status panel screen》

① Quick settings

Tap the icon to switch each function on or off.

Flick to the right or left to display hidden icons.

- : Switch Manner mode ON/OFF.
- : Switch Wi-Fi® ON/OFF.
- : Switch NFC/Osaifu-Keitai® ON/OFF.
- : Switch the degree of brightness. Battery consumption is suppressed by darkening the brightness of the display illumination.
- : Switch VEGA Motion ON/OFF.
- : Switch Auto answer ON/OFF.
- : Switch Screen rotation lock ON/OFF.
- : Switch GPS function ON/OFF.
- : Switch Bluetooth® function ON/OFF.
- : Drag and drop each Quick settings icon to change the display order.

② Clear

Tap to clear all notifications.

③ Notification area

Confirm notification details. Depending on the notification, you can tap to launch the respective application.

④ Telecommunications carrier name

The name of the carrier of the network that you are connected to is displayed.











⑤ Status bar

Drag the status bar upwards to close the notification/status panel.

⑥ Detail settings

Tap the icon to display the settings screen for each function.

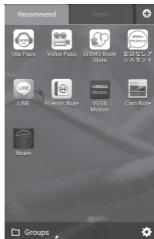
Flick to the right or left to display hidden icons.

- : Display Sound settings screen.
- : Display Wi-Fi® settings screen.
- : Display Tethering settings screen.
- : Display Power saving settings screen.
- : Display VEGA Motion settings screen.
- : Display brightness screen. Battery consumption is suppressed by darkening the display brightness, and shortening illumination times.
- : Display Screen lock settings screen.
- : Display Application manager settings screen.
- : Display Bluetooth® settings screen.
- : Drag and drop each Detail settings icon to change the display order.

- ⑦ **Display settings menu screen**
Tap to display the settings menu screen.

Using the launcher menu

The launcher menu displays icons for the installed applications. Tap an icon to launch an application.



《Launcher menu screen》

1 Home screen → [Apps]

The launcher menu will appear.

The launcher menu can display a maximum of 20 screens. Slide or flick the launcher menu screen to the right or left to switch the launcher menu screen. When at the farthest left launcher menu screen, flick to the right to move to the farthest right launcher menu screen. When at the farthest right launcher menu screen, flick to the left to move to the farthest left launcher menu screen.

Icon name	Overview
Uta Pass	Streaming music channel service that enables you to listen to varieties of preset channels and you can also listen with your friends.
Video Pass*	Enjoy popular movies and dramas, animation.
LISMO Book Store*	Enjoy many e-books such as comics, novels and photo albums.
おはなしアシスタント (Ohanashi Assistant)*	This application lets you place phone calls, send E-mails, manage schedules, and set alarm etc. easily by talking. It also provides you fun conversations with the assistant character.

Icon name	Overview
LINE*	LINE is a new communication app which allows you to make free voice calls and send free messages whenever and wherever you are, 24 hours a day.
Friends Note	"Friends Note" can manage Native Address Book of your phone and multiple social networking services in just one application.
VEGA Motion	Display the usage and settings screen for VEGA Motion.
Cam Note	Process or edit images that you have taken.

Icon name	Overview
Beam	Search for the contents that are saved on devices (cell phones, PCs, Blu-ray discs, etc.) which are connected to the Internet, or to wireless networks, then play them back on the same networks that the devices are connected to.
Phone	Make calls and confirm history.
People	Register contacts in the phonebook and use the registered information.
E-mail	Use an (ezweb.ne.jp) address to send and receive mails. Compatible with emoji (emoticon) and decoration mails.

Icon name	Overview
SMS	Exchange mails with other cell phone users by sending the message to their phone number.
PC-mail	Send and receive mails with the mail account that you normally use on the PC, etc.
Browser	Browse web pages as a PC.
Settings	Set and manage functions on the settings menu. (▶P.120)
Mode change	Switch to Simple mode.
Alarm/Clock	Use the world clock, alarm, stopwatch or timer.
Maps	Display your current location and search for a different destination or route.

Icon name	Overview
LISMO Player	Plays music or checks information on the music using the LISMO Player. Moreover, try listening it and purchase the investigated music.
Osaifu-Keitai	Use services provided by Osaifu-Keitai.
IrDA	Send and receive data between this product and another device with infrared communication function.
Calculator	Use the calculator.
Calendar	Use the calendar.
Camera	Take still images and videos.
Gallery	Share and display a list of images and videos. Edit the images.
Photo Studio	Edit the images.

Icon name	Overview
au Cloud*	The application to move photos & movies of smart Phone into au Cloud either automatically or manually. Automatic movement is limited to the area covered by Wi-Fi and/or WiMax.
Photo Album*	The application to see photos & movies in au Cloud, make an album and share the album with friends and family.
TOLOT フォトブック(TOLOT PHOTOBOOK)*	The application for make a beautiful photo book easily! A photo book is a good way for save your precious tour or anniversary, or give your friends or family as a present, just by using the photos were taken by your smartphone!

Icon name	Overview
YouTube	Use YouTube.
Play Movies & TV	Rent movies from Google Play and view downloaded movies or videos taken with the camera (video recording).
1 Seg	Watch TV with the terrestrial digital broadcasting service for mobile devices.
auテレビ.Gガイド(au TV.G-GUIDE program table)	View TV program table or search programs. Functions using 1Seg or remote timer recording can be used.
Videos	View downloaded movies or videos taken with the camera (video recording).
Music	Play music data.

Icon name	Overview
LISMO WAVE*	Enjoy FM radio all over Japan and music clips.
Net Media	Share digital contents on the wireless network using Digital Living Network Alliance (DLNA) technology.
Task Manager	View applications that are running and shut them down.
Notepad	Use the Memo Pad.
Voice Recorder	Record voice.
ThinkFree Office	View Microsoft Word, Excel and PowerPoint documents.
Navigation	Search the route from your current location to a destination.
Latitude	Use Google Latitude.

Icon name	Overview
Local	Quick search of facilities and stores nearby your current location.
Barcode Reader	ICONIT - Barcode Reader Evolving Shoot barcode with ICONIT to get something more than ever. Just scan QR code or UPC/EAN code and you will get high-quality movies, music, images on your smartphone.
NFC Menu	Shows compatible applications list with the NFC service, sets NFC lock, or makes NFC settings.
NFC TagReader*	Scans/Writes NFC tag data. And acts according to the scanned data.

Icon name	Overview
Suzy's Zoo <auホームアレンジ (au Home Arrange)>*	au Home Arrange is the launcher Apps for Dress up your smartphone. The member of "au smart pass" can select theme that be introduced every month on the portal site.
GLOBAL PASSPORT*	Check whether the connected carrier applies to Overseas Double-Teigaku or confirm the method of making international calls and the call fees.
じぶん銀行(JIBUN BANK)*	You can check the statement of your account balance, search for nearest available ATMs, and so on through the screen optimized for smartphones.

Icon name	Overview
Downloads	Manages downloaded data.
Facebook	Access Facebook.
Gmail	Use Gmail.
Google+	Use Google+.
Talk	Use Google Talk.
Messenger	Use Google+ Messenger.
Skype*	Makes a call or exchanges instant messages (chat).
GREE*	This is an official application from GREE, a free social mobile gaming network with more than 25 million users.

Icon name	Overview
auスマートパス(au Smart Pass)	You can enjoy as many applications as you want from among over 500 apps by ¥390 (including tax) per month! Also coupons, presents, photo storage and security apps are available. Please enjoy your safety and comfortable smartphone life!
au Market	You can install Android-based applications offered with au Smart Pass service.
Play Store	Download/install applications from Google Play and use them.

Icon name	Overview
GREE MARKET	This application allows you to browse games and other content provided by GREE. You do not need a GREE account in order to use this application.
Chrome	Browse web pages as a PC.
Search	Search information in the phone or on the Internet.
Dolphin Browser for au*	This app is popularity rise. Internet comfortable to use. It have convenient feature. For example speed dial and gesture.
お買い物サーチ(Shopping Search)*	Helps you search various goods sold on many popular shopping sites.

Icon name	Overview
スマホカバー (Smart phone cover)*	Purchase a smartphone cover from a selection of original designs by popular fashion brands.
着メロ取り放題 for au(ringtone Unlimited)*	A free service for au-smartpass members, with 30,000 files you can download for ringtones, covered with all genre.
太鼓の達人 (Taiko no Tatsujin)*	"Taiko no Tatsujin" is a game well-known at arcade and console game. Anyone can play the drum by tapping the rhythm on the screen.

Icon name	Overview
Instruction Manual*	Check the information provided in the "Full Instruction Manual" (Japanese). Use the Contents, Index and Search function to find explanations for the function that you want to use. You can also add bookmarks to explanations that you often check to make your search easier. (▶P.1)
au Easy Setting	"au Easy Setting" assist you to set up au services and functions.
au ID Setting	For details on setting an au ID, refer to Setting Guide.

Icon name	Overview
au Wi-Fi接続 ツール(au Wi-Fi connection tool)	Connects to a Wi-Fi® network easily in an area where au Wi-Fi SPOT is available. Also, you can set Wi-Fi® easily with a wireless LAN (Wi-Fi®) access point on which "かんたん接続 (Simple connection)" is available.
au災害対策 (au Disaster Countermeasure)	This is an application in which you can use Disaster Message Board, Early warning mail (earthquake early warnings, disaster/ evacuation information and tsunami warnings) and Disaster Voice Delivery Service.

Icon name	Overview
auお客様 サポート (au Customer Support)	You can check the subscription contents or monthly usage of your au phones etc. with this application. You can change your rate plan, apply for optional services and so on at au Customer Support website.
リモートサポ ート(Remote Support)	Call for technical supports on the phone operations by sharing the screen that you are watching with au operators.
3LM	Lock the operations on the product in case it is lost or stolen.
ウイルス バスター (VirusBuster)*	Blocks improper applications and sites in order to protect young people.

Icon name	Overview
安心アクセス(Safety Access)*	This is a application which limit the access to the inappropriate application and web page so that your child can use a smartphone safely.
LAWSON*	Welcome to Lawson's All-New mobile app. Check for latest information and deals! By logging in, loyalty program "Ponta" members will have FREE access to "Lawson Wi-Fi," our in-store Wi-Fi service. Members can get exclusive limited coupons and check point balance.

* Downloading or installing the application is required before use.



- The use of some applications and functions require communication charge.
- The design of applications, etc. is subject to change without notice.

What can be done on the launcher menu

Switch the display

1 Tap the display option at the lower left corner of the launcher menu screen

2 Tap an item below

Groups	Switch to display by group.
Alphabetical	Switch to display by name.
Downloads	Switch to display downloaded applications.

Options menu

1 Tap [] on the launcher menu

2 Tap an item below

Search	Search by name.
Share	Send by Bluetooth® or mail attachment, or upload to Google+, etc.
Manage groups	Add a new group, delete a group, etc.
View hidden apps	Display a list of hidden applications.
Change Icons	Change to either "Modern icons" or "Classic icons".
Change Background	Change the wallpaper.
Play Store	Launch Play Store.
Tips	Display the operating instructions.


Hide an application

1 Tap [] on the launcher menu

2 Tap the application

The pop-up menu will be displayed.

3 [Hide]

The application icon will disappear.
To view hidden applications,
tap [] → "View hidden apps"

Uninstall an application

1 Tap [] on the launcher menu

2 Tap the application

The pop-up menu will be displayed.

3 [Uninstall] → [OK]

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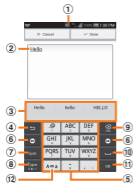
- Uninstallation may not be possible for some applications such as pre-installed applications at the time of purchase.

Entering text

Tap the character entry field on the product to display a keyboard (software keyboard) on the screen, and enter characters by tapping the keys on the screen.

The "Android keyboard", "DioPen KOR/CHN/PO IME settings", "Google voice typing", "Inspirium HandWriting IME Settings", and "iWnn IME" are available on this product.

The following explains how to input characters using "iWnn IME".



《Character input screen (10-key)》



《Character input screen (QWERTY)》

- ① Character entry mode icons
- ② Character entry area
- ③ Normal conversion candidates list/
Prediction conversion candidates list/
Relational prediction candidates list
- ④ Back key/Undo key

- ⑤ **Software keyboard**
You can enter the characters assigned to each key.
- ⑥ **Cursor key**
Moves the cursor to the right and left and changes the range of characters when converting characters.
- ⑦ **Symbol/Emoticon key**
- ⑧ **Entry mode switch key**
Switches the character entry mode.
- ⑨ **DEL key**
Deletes the selected character or the character of the left of the cursor.
- ⑩ **Handwriting IME key/Space key**
- ⑪ **Execute key/Line break key**
- ⑫ **Uppercase/Lowercase characters switch key**
- ⑬ **Shift key**

Viewing the settings menu

1 Home screen → [⋮] → [Settings]

The settings menu screen is displayed.

PANTECH SETTINGS	Mode change	Switch to "Simple Mode" or "Normal Mode".
	User settings	Settings for the screen lock, dial, and wallpaper, etc.
	Default programs	On the application selection screen, disable the programs (default programs) that have a check mark on "Use by default for this action."

WIRELESS & NETWORKS	Wi-Fi	Settings for the wireless LAN (Wi-Fi®) function.
	Bluetooth	Settings for Bluetooth®.
	Data usage	Settings for mobile data communication and confirming the communication volume, etc.
	Call settings	Settings for voice mail service, call transfer and call block, etc.
	More	Settings relating to communication such as airplane mode and mobile network setting, etc.

DEVICE	Sound	Settings relating to sound and vibration such as manner mode, call ringtone, notification ringtone, and vibration, etc.
	Display	Screen display function settings such as screen brightness, wallpaper and screen rotation, etc.

DEVICE	Storage	Confirm the memory capacity of internal memory and microSD memory card. Also, mount or unmount the microSD memory card or USB device, and erase data in the microSD memory card.
	USB connection setting	Settings for connecting a cell phone to a PC via USB.
	Battery	Settings relating to the battery level.

DEVICE	Apps	Manage applications.
	Power saver	Settings relating to saving power.
	VEGA Motion	Settings for VEGA Motion function.
PERSONAL	Accounts & sync	Settings relating to managing online service accounts or synchronizing data.
	Location services	Settings relating to location information such as turning GPS function on and off, etc.

PERSONAL	Security	Settings relating to security such as screen lock and an Micro IC Card lock setting, and authentication information management, etc.
	Language & input	Settings for the display language, keyboard/input method, voice recognition and text-to-speech, etc.
	Backup & reset	Back up data or restore the default settings in the product.

SYSTEM	Dock	Setting whether to display the desktop clock when the product is connected to the desktop holder.
	Date & time	Set display format for date and time or time zone, etc.
	Accessibility	Activate or deactivate user help plug-ins such as those that respond by sound or vibration to the user's operation or read text out loud.

SYSTEM	Developer options	Function settings for developer options.
	About phone	Check the statuses of the cell phone such as battery level or phone number, etc.

Using au Disaster Countermeasure application

au災害対策 (au Disaster Countermeasure) application enables you to use Disaster Message Board, Early warning mail (earthquake early warnings, disaster/evacuation information and tsunami warnings), and Disaster Voice Delivery Service.

1 Home screen → [Apps] → [au災害対策 (au Disaster Countermeasure)]

au Disaster Countermeasure menu is displayed.

Using Disaster Message Board

Disaster Message Board is a service that enables you to register information of well-being from disaster areas via LTE NET in case of a large-scale disaster such as an earthquake with a seismic intensity of over 6 lower. Registered information can be confirmed by au cell phone users as well as any cell phone or PC.

For details, refer to "災害用伝言板サービス (Disaster Message Board service)" on the au website.

2 au災害対策 (au Disaster Countermeasure) menu → [災害用伝言板 (Disaster Message Board)]

Follow the on-screen instructions to register or confirm.

- An e-mail address (XXX@ezweb.ne.jp) is required to register information of well-being. Set up e-mail address beforehand.
- While wireless LAN (Wi-Fi®) is connected, deleting or changing the settings of safety notification mail is not available.

Using Early warning mail

The Early warning mail is a service that distributes earthquake early warnings or tsunami warnings delivered from the Meteorological Agency, or disaster/evacuation information delivered from the government or local public organization to all au cell phones in specified areas simultaneously.

- * The "受信設定 (Reception settings)" of the Early warning mail (earthquake early warnings, disaster/evacuation information) is set to "受信する (Receive)" at the time of purchase.
Reception setting of tsunami warnings is available in the settings of disaster/evacuation information.

When you receive an earthquake early warning, ensure your safety and take proper action according to the situation around you.

When you receive a tsunami warning, draw away from the seacoast immediately and evacuate to a safe place such as upland or a well-built high building.

1 au災害対策 (au Disaster Countermeasure) menu → [緊急速報メール(Early warning mail)]

Inbox is displayed.

Select the mail to view detailed information.

削除(Delete)		Delete the received mail.
設定 (Settings)	受信設定 (Reception settings)	緊急地震速報 (Earthquake early warnings): Set whether to receive earthquake early warnings.

設定 (Settings)	受信設定 (Reception settings)	災害・避難情報 (Disaster/evacuation information): Set whether to receive disaster/evacuation information and tsunami warnings.
	通知設定 (Notification settings)	音量 (Volume): Set ringtone when receiving a mail. パイプ (Vibrator): Set whether to enable vibrator when receiving a mail.

設定 (Settings)	通知設定 (Notification settings)	マナー時の鳴動 (Sound during Manner mode): Set whether to notify by Manner mode when Manner mode is on.
	受信音／ バイブ 確認 (Confirm ringtone/ vibrator)	緊急地震速報 (Earthquake early warnings): Confirm performance of ringtone and vibrator for earthquake early warnings.

設定 (Settings)	受信音／ バイブ 確認 (Confirm ringtone/ vibrator)	災害・避難情報 (Disaster/evacuation information): Confirm performance of ringtone and vibrator for disaster/evacuation information and tsunami warnings.
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- Reception of Early warning mail is notified by a special warning tone. The warning tone cannot be changed.
- Earthquake early warning is sent to areas where strong quakes (over 4 degrees) are expected when an earthquake with an anticipated maximum seismic intensity 5 lower occurs.
- Immediately after an earthquake occurs, quakes (P waves and initial tremors) near the epicenter are detected and position, scale, and expected strength are automatically calculated and notification is sent as soon as possible within a few seconds to tens of seconds before the strong quakes (S waves and major tremors) caused by the earthquake start.

- Earthquake early warning may not arrive before the strong tremors in areas near the epicenter.
- Tsunami warning is a notification delivered from the Meteorological Agency (major tidal wave, seismic sea wave) to the area including the target coast.
- Disaster/evacuation information is a service that distributes bulletins concerning residents' safety including evacuation advisories, evacuation orders and other warnings issued by the national and local governments.
- The service is available only in Japan (it cannot be used overseas).
- No information fee or communication charge is required for receiving Early warning mail.

- The Company is not liable for damages suffered by customers resulting from the service's information, lack or delay in the information caused by transmission or system breakdowns, or other events that are outside the responsibility of the Company.
- Refer to the Japan Meteorological Agency website for details about distribution of earthquake early warnings. <http://www.jma.go.jp/>
- You cannot receive Early warning mail when the power is off or during a call.

- Early warning mail may not be received when your cell phone is communicating such as while sending or receiving an SMS or e-mail, or when using the browser, or if you are in a place where signal does not reach even in the service area (e.g. in a tunnel, basement) or in a place with a poor reception.
- Once the reception of an Early warning mail fails, the same mail cannot be received again.
- The reception time of earthquake early warnings may not coincide with similar emergency warnings broadcasted through TV, radio or other media since the earthquake early warnings uses a different delivery system.
- Information for someplace other than your current location may be received.

Using Disaster Voice Delivery Service

Disaster Voice Delivery Service is a service that allows you to record your voice and send a voice message to inform someone of your well-being in case of a large-scale disaster.

1 au災害対策 (au Disaster Countermeasure) menu → [災害用音声お届けサービス(Disaster Voice Delivery Service)]

■ Sending voice (send)

Select "声をお届け (Send voice)" and "①お届け先を選択 (Select a send destination)"* → "②お届けしたい声を録音 (Record your voice)".

* The send destination can be selected from the Phonebook.

■ Receiving voice (receive)

Reception of a voice message is notified on the pop-up screen or SMS. Receive (download) the voice message and play it to listen to it.

- If the recipient's device is a smartphone or an au cell phone that has not launched "au災害対策 (au Disaster Countermeasure)" application supporting Disaster Voice Delivery Service, notifications are sent by SMS.
- Notifications made by SMS cannot be saved on au Disaster Countermeasure application.

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- Sending or receiving voice messages is available only via LTE/3G network. Turn off wireless LAN (Wi-Fi®) communication before use.

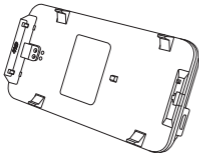
- Voice message can be recorded for up to 30 seconds.
- Voice message can be sent and received to or from au cell phones only (exchanging voice messages with cell phones of other telecommunications carriers is scheduled in spring 2013 or later).
- Voice message may be difficult to hear if the media volume is low or Manner mode is set.
- If there is not any free space in the product (memory), then voice messages might not be able to be saved or be played back.
- Some cell phones do not support receiving voice messages. For details, refer to the au website.

Introduction of related accessories

■ Battery Pack (PTL21UAA)



■ Desktop Holder (PTL21PUA)



- Common AC Adapter 01 (0202PQA) (sold separately)*
- Common AC Adapter 02 (0203PQA) (sold separately)*
- Common AC Adapter 03 (0301PQA) (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)

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

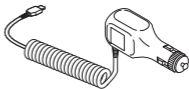


- AC Adapter MIDORI (0205PGA)
(sold separately)***
- AC Adapter AO (0204PLA) (sold
separately)***
- AC Adapter SHIRO (0204PWA)
(sold separately)***
- AC Adapter MOMO (0204PPA) (sold
separately)***

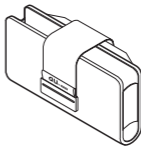
- AC Adapter CHA (0204PTA) (sold
separately)***
- AC Adapter REST (LS1P002A)
(sold separately)***
- AC Adapter RANGERS (LS1P003A)
(sold separately)***
- AC Adapter CHARGY (LS1P001A)
(sold separately)***
- AC Adapter WORLD OF ALICE
(LS1P004A) (sold separately)***
- AC Adapter KiiRoll (L01P005A)
(sold 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)**

- Please note that the illustration and shape may vary depending on the AC adapter you use.
- AC Adapters MIDORI, AO, SHIRO, MOMO, CHA, REST, RANGERS, CHARGY, WORLD OF ALICE and KiiRoll have the same specifications with the Common AC Adapter 02.
- The Common AC Adapter 01 can be used only in Japan. Use the Common AC Adapter 04, Common AC Adapter 03 or Common AC Adapter 02 for charging overseas.
- * When using with this product, connecting with an 18-pin microUSB conversion adapter 01 (sold separately) is required.

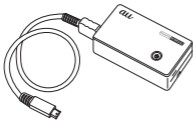
■ **Common DC adapter 03 (0301PEA)
(sold separately)**



■ **auCarrying Case F Black
(0105FCA) (sold separately)**



■ **Portable Charger 02 (0301PFA)**
(sold separately)



- **Common DC adapter 01 (0201PEA)** (sold separately)*
- **Portable Charger 01 (0201PDA)** (sold separately)*
- **18-pin microUSB conversion adapter 01 (0301QYA)** (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)



- * When using with this product, connecting with an 18-pin microUSB conversion adapter 01 (sold separately) is required.


 memo

- For the latest information about available accessories, check au website (<http://www.au.kddi.com/>) or contact Customer Service Center.
- This product does not support ASYNC/ Fax transmission.
- The above peripheral devices may be purchased from an au online shop. <http://auonlineshop.kddi.com/>

Troubleshooting


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

Symptom	Check item	Page
Cannot turn on power when pressing 	Is the battery pack charged?	▶P.87
	Is the battery pack attached properly?	▶P.74
	Is the connector on the battery pack soiled?	—
	Did you press and hold  for at least 1 second?	▶P.96
Power shuts off by itself	Is the battery dead?	▶P.87
Power shuts off when the startup screen is being displayed	Is the battery dead? * When the power is turned on with a low remaining battery level, the startup screen is displayed and then the screen shuts off after a while.	▶P.87
Cannot make calls	Is the power on?	▶P.96
	Is an au Micro IC Card (LTE) inserted?	▶P.78
	Did you enter the correct phone number? (Did you enter the phone number starting with the area code?)	—

Symptom	Check item	Page
Cannot make calls	After dialing the telephone number, did you tap []?	—
	Did you set the correct setting in "Area Settings"?	—
	Is "Airplane mode" set?	▶P.120
Cannot receive calls	Is reception good enough?	▶P.103
	Are you out of service area?	▶P.103
	Is the power on?	▶P.96
	Is an au Micro IC Card (LTE) inserted?	▶P.78
	Did you set the correct setting in "Area Settings"?	—
	Is the "Block" set?	▶P.120
	Is "Airplane mode" set?	▶P.120
	Is Call forwarding service set?	▶P.120
Out of service area icon is displayed	Are you in an out of service area or in a place with poor signal reception?	▶P.103
	Are you covering the built-in antenna area with your fingers?	▶P.71
	Did you set the correct setting in "Area Settings"?	—

Symptom	Check item	Page
Cannot connect to Wi-Fi®	Are you receiving signals from the access point?	▶P.103
	Did you set the Wi-Fi® settings?	—
Cannot hear the ringtone	Is the volume set to 0?	▶P.121
	Is the manner mode on?	▶P.121
Cannot charge the battery	Is the charging equipment correctly connected?	▶P.90 ▶P.93 ▶P.95
	Is the battery pack attached properly?	▶P.74
	Is the charging connector on the desktop holder or main unit, etc. soiled?	—
Cannot operate the keys/ touch panel	Is the power on?	▶P.96
	Is the screen unlocked?	—
	Is the sleep mode on?	▶P.98
A message that au Micro IC Card is not inserted is displayed	Is an au Micro IC Card (LTE) inserted?	▶P.78
	Is a card other than an au Micro IC Card (LTE) inserted?	▶P.79

Symptom	Check item	Page
A message to ask you to charge your phone, etc. appears and a warning tone sounds	The battery is almost dead.	▶P.87
Battery usage time is short	Is the battery pack at the end of its life?	▶P.28
	Do you often use the product in places with poor reception?	▶P.103
	Settings that use Wi-Fi®, 3G/LTE data communication, GPS function, Bluetooth®, automatic synchronization, etc. will consume battery. Making sure to turn off functions not in use will save battery. Functions can be switched on/off using the Quick settings icons.	▶P.103
	Shutting down applications not in use will save battery.	▶P.122
	If the times until the screen brightness darkens and screen timeout are set to be shortened, battery consumption is suppressed.	▶P.121

Symptom	Check item	Page
When making a call, there is a short buzzing sound from the earpiece and the call is not made	Are you in an out of service area or in a place with poor signal reception?	▶P.103
	Phone lines may be congested or the other party's line is busy. Please call again later.	—
Display light turns off too quickly	Is the "Screen timeout" time set to be shortened?	▶P.121
Cannot hear the other party	Is the earpiece volume too low?	—
	Are you covering the earpiece with your ear? Place your earhole to the earpiece.	▶P.71
Screen is frozen and none of the keys are working	If the power cannot be turned off by pressing and holding down  , remove the battery pack, wait a few seconds and re-insert the battery pack. In such case, all data that you were editing is lost.	—
Cannot recognize a microSD memory card	Is a microSD memory card inserted properly?	▶P.84
	Is the microSD memory card unmounted?	▶P.121
Camera does not work	Is the remaining battery level low?	—
	Is the temperature of the main unit high or extremely low?	—


For more details, contact the Customer Service Center.

From a land-line phone, ☎ 0077-7-111 (toll free)

From an au cell phone, 157 without area code (toll free)

Updating software

■ Notes on software update

- Enable "Check for Updates" (default setting) to automatically confirm every 25 hours when using Wi-Fi® or 3G/LTE data communication whether a software update is required. If an update is required,  will appear on the status bar on the upper part of the display.
- Secure 500 MB of free space on the microSD memory card installed in the product before updating.
 - ① **External memory cannot be used with this product.**

- ② **An update may not be possible if the internal storage is encrypted. The internal storage is used when the update data exceeds 300 MB. In such case, a message indicating memory shortage will appear if there is insufficient free space on the internal storage. Secure necessary space and perform the update again.**
- You are charged for data communications when connecting to the Internet from the product for using packet communications.
 - When software update is necessary, you will be informed via an au website, etc. For details, contact an au shop or Customer Service Center (call toll-free 157). In addition, in order that the use of this product might be made better, au may send notifications to you for required software updates.

- Make sure to charge your phone before software update. If battery level is low or becomes insufficient during the update, software update may fail.
- Check the signal reception. Software update may fail if you are in a place with poor signal reception.
- Data registered on the product 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 (malfunction, damage, getting wet, etc.). In addition you are recommended to back up your data before updating software.
- If software update has failed or was terminated, redo the "Start Update".

Do not conduct the following while software is being updated

- Do not remove the battery pack during software update. Doing so may cause software update failure.
- Do not move during software update. Also, make sure that the wireless LAN (Wi-Fi®) signal is not interrupted.

The following operations are not available while software is being updated

- Operations are not available during software update. Calls to 110 (Police), 119 (Fire department or ambulance service) and 118 (Japan Coast Guard) are also not available. Also, alarm, etc. cannot be used.

When software update is not available, etc.

- If you fail to update software, it may become impossible to operate the product. If this happens, bring it to an au shop or PiPit (not accepted by some shops).

■ Performing "Software Update"

- 1 **Home screen** → [] → **[Settings]**
→ **[About phone]**
→ **[Software Update]**

- 2 **[Start Update]**

The update data will be confirmed, and the current and latest version numbers will appear.

If the latest version number does not appear, an update is not required.

Tap [] and exit software update.

- 3 **[Start]** → **[OK]** → **[OK]**

It will automatically reboot itself.

After-sales service

■ When asking for repairs

For repairs, contact a Secure cell phone support 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.

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

■ Performance parts for repair

The Company retains performance parts for repair of the VEGA (PTL21) main unit and its peripherals for six 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.

■ Secure cell phone support plus

An after-sales service membership program on a monthly basis called "Secure cell phone support plus" (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, refer to au website or contact Secure cell phone support center.

- You can apply for membership only at the time you purchase your au cell phone.
- Once you cancel the membership, you cannot reapply for it until you next purchase an au cell phone.
- 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 Secure cell phone support plus membership is also handed over to the successor of the cell phone.
- When you get a new au cell phone by changing the model or purchasing an extra cell phone, the "Secure cell phone support plus" 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 contact.

Customer Service Center

(for service canceling procedure or operation in case of loss or theft)

From a land-line phone,

 0077-7-113 (toll free)


From an au cell phone,

113 without area code (toll free)

Secure cell phone support center

(for loss, theft, damage)

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

 0120-925-919 (toll free)

Business hours 9:00 – 21:00

(7 days a week)

au after-sales service information

Service details			Secure cell phone support plus	
			Member	Non-member
Replacement cell phone delivery service	Spontaneous failure	1st year	Free of charge	Not covered
		2nd year or later	Customer charge 1st time: 5,250 yen 2nd time: 8,400 yen	
	Partial damage, water soak, irreparable damage, theft or loss			
Holding over and repair	Spontaneous failure	1st year	Free of charge	Free of charge
		2nd year or later	Free of charge (3-year warranty)	Actual cost is charged to the customer
	Partial damage		Customer charge Upper limit: 5,250 yen	
	Water soak or irreparable damage		Not covered	Not covered (model change)
	Theft or loss			

* Charge amounts are all tax-included.

Replacement cell phone delivery service

- When you have trouble with your au cell phone, replacement cell phone (same model, same color, including new battery) is delivered by calling to. Return your damaged cell phone within 14 days after replacement cell phone is delivered.
 - Available up to twice in a year from the day you use this service as a start day. If you do not use this service in the past year at the subscription to this service, it will be 1st and if you use, it will be 2nd.
- * For details, refer to au homepage.

Holding over and repair

- Repairs due to water soak and irreparable damage are not covered by this service.
- Damages and malfunctions intentionally caused by the customer as well as those due to modifications (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. 4.3 inches, Max. Approx. 16.77 million colors, TFT, Capacitive touch panel
		1280×720 dots (HD)
Weight		Approx. 134 g (with battery pack attached)
Size (W×H×D)		Approx. 65 mm×129 mm×10.8 mm (11.0 mm at thickest point)
Main unit internal memory		ROM 16 GB, RAM 1 GB
User memory		Approx. 11 GB
External memory		microSD™/microSDHC™ memory card (Max. 32 GB) microSDXC™ memory card (Max. 64 GB)
Continuous talk time	Japan	Approx. 700 mins.
	Overseas (GSM)	Approx. 640 mins.
	Overseas (CDMA)^{*1}	Approx. 750 mins.: U.S. Mainland, Hawaii, China Mainland

Continuous standby time^{*2}	Japan	Approx. 400 hours (when using 3G) Approx. 380 hours (when using LTE)
	Overseas (GSM)	Approx. 550 hours
	Overseas (CDMA)^{*1}	Approx. 510 hours: U.S. Mainland, China Mainland Approx. 670 hours: Hawaii
Continuous tethering time		Approx. 400 mins. (WAN 3G) Approx. 290 mins. (WAN LTE)
External connector		micro USB B type connector (USB 2.0 compatible), Earphone jack (3.5 ϕ)
Charging time		When using the common AC adapter 04 (sold separately): approx. 90 mins. When using the common DC adapter 03 (sold separately): approx. 370 mins.

Camera	<ul style="list-style-type: none"> • Out-camera: CMOS image sensor, approx. 8.0 million pixels (recording pixels 3264×2448), still image size (3264×2448, 3200×1920, 2560×1920, 2000×1200, 1600×1200, 1280×960, 800×480, 640×480), recording size (1280×720, 800×480, 640×480, 320×240) Digital zoom method, 10 cm close-up, software processing • In-camera: CMOS image sensor, approx. 2.0 million pixels (recording pixels 1600×1200), still image size (1600×1200, 1280×960, 800×480, 640×480), recording size (800×480, 640×480, 320×240)
1Seg (continuous watching time)	Approx. 4 hours 20 mins.
Wireless LAN	IEEE802.11 a/b/g/n compliant
Bluetooth®	4.0LE + EDR
Infrared	IrMC ver.1.1

*1 Compatible countries as of September 2012

*2 Continuous standby time is measured when in stationary standby state

- 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 VEGA (PTL21) 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 0.464 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) recommended by KDDI^{*2}.

In case you are not using the au Carrying Case F Black (0105FCA) (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 present scientific information does not indicate that use of mobile devices has any harmful effects on the human body.

They recommend that if you are still worried about your exposure then you can limit your talk time or use a handsfree kit to keep the mobile phone away from your head and body. 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)

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> (in Japanese only)

○au homepage:

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

- *1 Technical regulations are defined by the Ministerial Ordinance Related to 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, the international standard IEC62209-2 was set in March 2010. On the other hand, Japanese technical regulation is currently under deliberation by the Committee for Radio Wave Utilization Environment set up in the Information

Safety Information

CE Declaration of Conformity



In some countries/regions, there are restrictions on the use of Wi-Fi®. If you intend to use Wi-Fi® on the handset abroad, check the local laws and regulations beforehand.

■ Operating Temperature

0–45°C (without adapter), 0–45°C (with adapter)

■ Battery

RISK OF EXPLOSION IF BATTERY IS
REPLACED BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERY
ACCORDING TO THE INSTRUCTIONS.

■ Sound pressure- CAUTION

Excessive sound pressure from earphones can cause hearing loss.

■ AC Adapter

The mains plug is used as the disconnect device which shall remain readily operable. 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.

■ USB

The USB port has to be connected to USB interfaces, such as USB 2.0 version or higher.

FCC Notice

■ SAFETY INFORMATION FOR FIXED WIRELESS TERMINALS

POTENTIALLY EXPLOSIVE ATMOSPHERES

Turn OFF your mobile phone when in any area with a potentially explosive atmosphere. It is rare, but your phone or its accessories could generate sparks. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

INTERFERENCE TO MEDICAL DEVICES

Most modern electronic equipment, for example equipment in hospitals and cars, is shielded from RF signal of your wireless phone.

However, certain electronic equipment (Pacemakers, Hearing Aids, and so on) is not therefore:

Do not use your mobile phone near medical equipment without requesting permission. RF signal may affect some electronic

systems in motor vehicles such as car stereo, safety equipment etc.

EXPOSURE TO RF ENERGY

Use only the supplied or an approved replacement antenna. Do not hold any component containing the radio so that the antenna is very close or touching any exposed parts of the body, especially the face or eyes, when making a call.

SAFETY INFORMATION FOR RF EXPOSURE

■ Body worm operation

This device was tested for typical body-worn operations with the back of the phone kept 1 cm. from the body. To maintain compliance requirements, use only belt-clips, holsters or similar accessories that maintain a separation distance of 1 cm. between the user's Body and the back of the phone, including the antenna. 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.

For more information about RF exposure, please visit the FCC website at www.fcc.gov.

SAR INFORMATION

THIS PHONE MODEL MEETS THE GOVERNMENT'S REQUIREMENTS FOR EXPOSURE TO RADIO WAVES.

Your wireless phone 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. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. 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 mobile phones 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. *

Tests for SAR are conducted with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output. Before a phone model is available

for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this model phone when tested for use at the ear is 0.388 W/Kg and when worn on the body, as described in this user guide, is 1.02 W/Kg. (Body-worn measurements differ among phone models, depending upon available accessories and FCC requirements). While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement for safe exposure. The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC

and can be found under the Display Grant section of <http://www.fcc.gov/oet/fccid> after searching on FCC ID: JYCCDMAPTL21. Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications Industry Association (CTIA) web-site at <http://www.wow-com.com>.

* In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.

U.S.FEDERAL COMMUNICATIONS COMMISSION RADIO FREQUENCY INTERFERENCE STATEMENT

■ INFORMATION TO THE USER

Note: This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful Interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful Interference to radio communications. However, there is no guarantee that interference will not occur in a particular Installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- * Reorient or relocate the receiving antenna.
- * Increase the separation between the equipment and receiver.
- * Connect the equipment into an outlet of a circuit different from that to which the receiver is connected.
- * Consult the dealer or an experienced radio/TV technician for help and for additional suggestions.

Changes or modification not expressly approved by the party responsible for Compliance could void the user's authority to operate the equipment. Connecting of peripherals requires the use of grounded shielded signal cables.

FCC Compliance Information

This device complies with part 15 of 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.

Export Administration Regulations

This 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 this product and its accessories. To export and re-export this 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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