

AQUOS sense3

SHV45

Basic Manual

- Descriptions in this manual are based on Android™ 9 Pie.
- The company names and product names appearing in this manual are trademarks or registered trademarks of their respective holders.
- For exemptions, refer to "Notes on Usage" available on the au homepage.

October 2019, 1st Edition
Sold by: KDDI CORPORATION,
OKINAWA CELLULAR TELEPHONE COMPANY
Manufactured by: SHARP CORPORATION

For inquiries, call:

Customer Center

For general information (toll free)

Business hours: 9:00 to 20:00 (7 days a week)

From au mobile phones:

157 area code not required

From non-au mobile phones / general subscriber phones:

 0077-7-111

In case above numbers are not available, call toll-free:

 0120-977-033 (except Okinawa)

 0120-977-699 (Okinawa)

In case of theft, loss, or malfunction (toll free)

Business hours: 24 hours (7 days a week)

From au mobile phones:

113 area code not required

From non-au mobile phones / general subscriber phones:

 0077-7-113

In case above numbers are not available, call toll-free:

 0120-925-314

Repair and Delivery Support Center

For theft, loss, or malfunction (toll free)

Business hours: 9:00 to 20:00 (7 days a week)

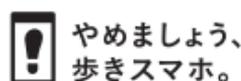
From au mobile phones / non-au mobile phones / general subscriber phones:

 0120-925-919



モバイル・リサイクル・ネットワーク
携帯電話・PHSのリサイクルにご協力を。

Cell phone and PHS operators collect and recycle unused telephones, batteries and battery chargers at stores bearing the  logo regardless of brand and manufacturer to protect the environment and reuse valuable resources.



やめましょう、
歩きスマホ。



キケン!
水ぬれ充電



あぶない!
電池への衝撃

Preface

Thank you for buying the "AQUOS sense3 SHV45" (simply called the "SHV45" or the "product" from here on).

Before using the product, be sure to read the "Basic Manual" (this manual) and "Notes on Usage"/"Setting Guide" to ensure correct use. Store in a safe place for easy reference.

List of Packaged Items

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



SHV45

- 取扱説明書 (Basic Manual) (Japanese)
- ご利用にあたっての注意事項 (Notes on Usage) (Japanese)
- 設定ガイド (Setting Guide) (Japanese)

The following items are not included in the package.

- au Nano IC Card 04
- microSD memory card
- AC adapter
- Earphone
- USB Type-C™ cable

- Purchase a specified charger (sold separately).

- The battery is built into the product.
- Illustrations of cell phones in this manual are only for reference. They may look different from the actual product.

Instruction Manual

■ “Basic Manual” (This Guide) and “Setting Guide”

The “Basic Manual” (this manual) and “Setting Guide” available on the au homepage describe basic operations of major functions.

<https://www.au.com/english/support/manual/>

■ “Online Manual” (Japanese)

You can check “Online Manual” (Japanese) that describes detailed of various functions by operating the product as follows.

On the home screen, swipe/flick up the screen and display the “App list screen” → [Support] → [ 取扱説明書] (Online Manual) (Japanese).

Also, you can check “Online Manual” (Japanese) on the au homepage.

<https://www.au.com/online-manual/shv45/> (Japanese)

■ “Full Instruction Manual” (Japanese)

You can check “取扱説明書 詳細版” (Full Instruction Manual) (Japanese) that describes detailed of various functions on the au homepage.

<https://www.au.com/support/service/mobile/guide/manual/> (Japanese)

Illustrations and Descriptions in This Manual

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

⏮(+) / ⏭(-): Volume up/down key

⏻(⏻): Power key

- In this manual, operation procedures are described as below.

Description	Explanation
On the home screen → "App list screen" → [Settings] → [System] → [About phone].	On the AQUOS Home screen, swipe/flick up the screen to switch to the App list screen, and then tap "⚙ Settings". Continue by tapping "System" and "About phone".
⏻(⏻) (hold down for at least 2 seconds).	Hold ⏻(⏻) down for at least 2 seconds.

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

- Screenshots and operations in this manual are based on attaching an au Nano IC Card 04 to the product.
- Illustrations and screenshots may differ from actual screen. Portions of the screen are sometimes omitted.
- Explanations of this manual are based on the case when the color of the main unit is "Light Copper" as an example.
- Explanations of this manual are based on the case when the product is held vertically. If you hold it horizontally, menu items/icons/on-screen keys etc. may be different.
- Descriptions in this manual are based on operation in AQUOS Home. Operations may be different if home applications have been changed (by using "Home applications", etc.).
- Menu items, layers and icons described in this manual may be different according to functions being used and conditions.
- In this manual, "au Nano IC Card 04" are abbreviated as "au IC Card".
- In this manual, "microSD™ memory card (commercially available)", "microSDHC™ memory card (commercially available)" and "microSDXC™ memory card (commercially available)" are abbreviated as "microSD memory card" or "microSD".
- All of the indicated amounts exclude tax unless otherwise specified.
- The company names and product names appearing in this manual are trademarks or registered trademarks of their respective holders. Also, ™ and ® marks are sometimes omitted.

Cell Phone Etiquette

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

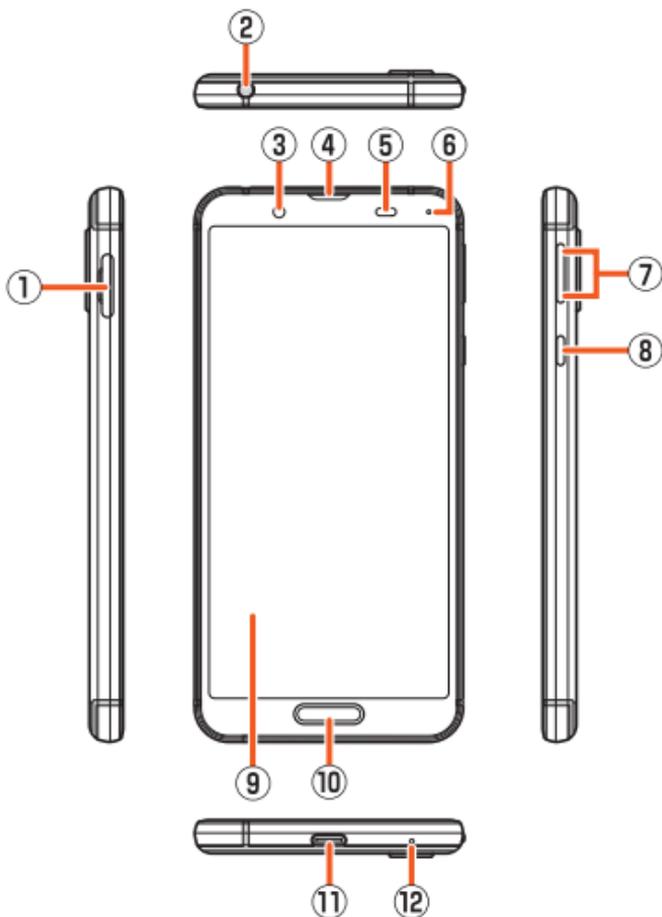
- Do not listen to music or watch videos while driving a car or riding a motorbike or bicycle. Use of a cell phone while driving a car or riding a motorbike is prohibited by law. (Use of a cell phone while riding a bicycle may be punishable by some regulations.) Be attentive to traffic around you while walking. Not being able to hear surroundings or looking only at the display may cause a traffic accident. Be careful especially at train crossings, on station platforms, and at crosswalks.
- Since using the product on airplanes is restricted, follow the instructions given by the respective airlines.

■ Be considerate of people around you

- Do not make calls in theaters, museums, libraries, and other similar places. Turn power off or turn on manner mode so as not to disturb others around you with your ringtones.
- Do not use the cell phone outside in town where you might hinder other pedestrians.
- Viewing a cell phone screen while walking is a serious hazard. Do not suddenly stop to talk on/operate the cell phone or do so while walking.
- Move to areas where you will not inconvenience others on bullet trains, in hotel lobbies, etc.
- Refrain from talking in a loud voice.
- Check whether sound from earphones, etc. is audible when near others on a train.
- Obtain the permission of other people before you take their photos with the cell phone's camera.
- Keep general morals when you use the camera function.
- Some people close to you in crowded places such as packed trains may be using a cardiac pacemaker. Turn on "Airplane mode" or turn the cell phone off in such places.
- Abide by the rules of hospitals and other medical institutions where it is forbidden to use or carry cell phones.

Names and Functions of Parts

Front/Left Side/Right Side



① au IC Card/microSD memory card tray

② Earphone/Microphone jack

③ In camera lens

④ Earpiece (Receiver)/Speaker

⑤ Proximity sensor/Light sensor

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

Light sensor adjusts the brightness of display to match the ambient brightness.

⑥ Charging/Incoming indicator

While charging, it illuminates in red/green according to the battery level.

Even after charging (battery level 100%), indicator remains lit in green if a specified charger (sold separately) is connected.

While receiving a mail and new notification, it flashes according to the setting.

⑦  **Volume up/down key**

Adjust the volume.

⑧  **Power key**

Turn the screen on/off.

(The screen goes out after no operation for a certain period of time.)

Hold it down to turn on/off the power, restart the product, etc.

⑨ **Display (Touch panel)**

The display surface is covered by the protective film. Remove it when you use the commercially available one.

⑩ **Fingerprint sensor**

Use to unlock the lock screen etc. by fingerprint authentication. Also, set it to use as the home key.

⑪ **External connection jack**

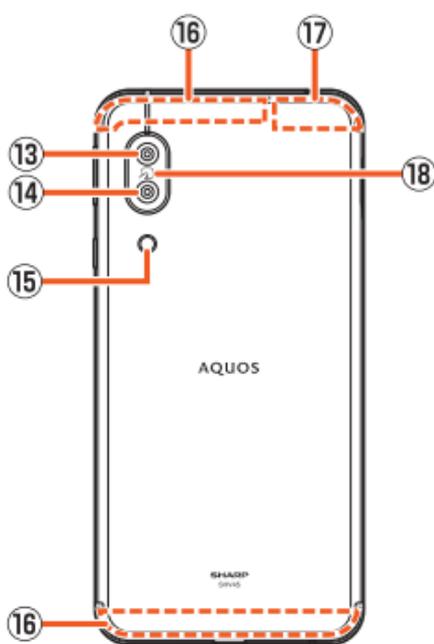
Use when connecting, TypeC Common AC Adapter 01/02 (sold separately), USB Type-C cable (commercially available), USB cable for peripherals (commercially available), etc. to the product.

When you connect, TypeC Common AC Adapter 01/02 (sold separately), USB Type-C cable (commercially available), etc. to the product, the geomagnetic sensor of the product is affected by the magnetism of connected devices and it may not function properly.

When you use functions and applications using the geomagnetic sensor, remove the cable.

⑫ **Mouthpiece (Microphone)**

■ Back/Top and Bottom



⑬ **Standard out camera lens**

⑭ **Wide-angle out camera lens**

⑮ **Mobile light/Air vent**

Serves as air vent for maintaining performance.

⑯ **Internal antennas**

⑰ **Wi-Fi®/Bluetooth®/GPS antenna**

⑱ **mark**

Hold it over a reader/writer when using Osaifu-Keitai®/NFC.

○ The outer case (back) of the product cannot be removed. Removing it forcibly may cause damage or a fault.

○ The battery is built into the product, and cannot be removed by the customer. To force the power off, refer to "Turning the Power Off Forcibly" (▶P.10)

au IC Card/microSD memory card tray

○ Note that pulling or applying excessive force on an au IC Card/microSD memory card tray may cause damage.

Proximity sensor/light sensor, earpiece (receiver)/speaker, mouthpiece (microphone), air vent (mobile light)

○ Product earpiece also serves as a speaker. Volume is set to increase gradually to prevent sound from being emitted loudly near ear when switching to hands-free talk or ending talk.

○ Placing stickers, etc. over the proximity sensor/light sensor may prevent the product from operating properly.

○ Covering the earpiece (receiver)/speaker, mouthpiece (microphone), or air vent (mobile light) with stickers, fingers, etc. may hinder product performance.

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

○ Antennas are built into the product. Do not cover with hand during calls or data communication. Doing so may affect call/communication quality.

Earphone/Microphone jack

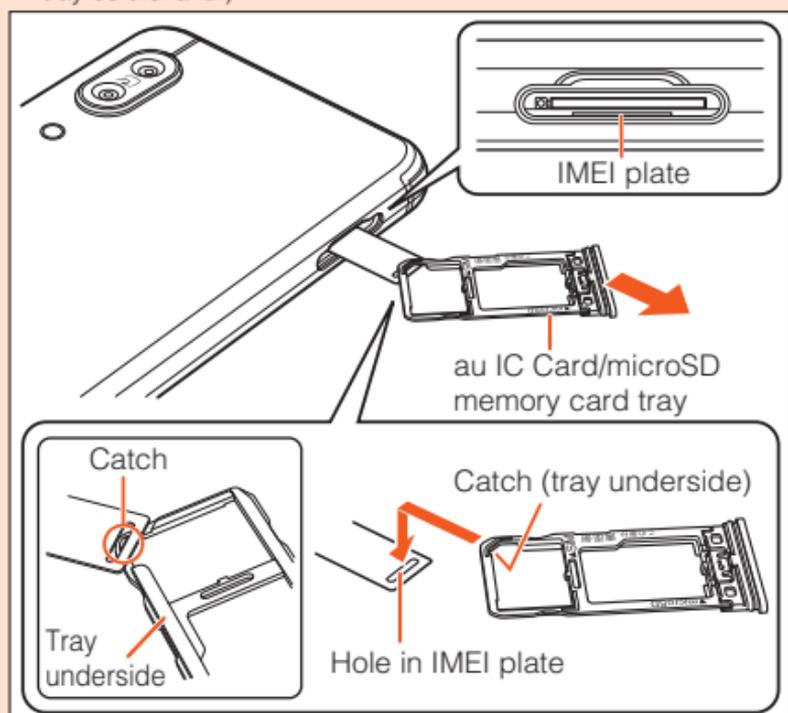
○ An earphone/microphone with the switch or depending on the type of the earphone/microphone, it may not be available with the product.

IMEI plate

○ A plate with the sticker which the IMEI number (International Mobile Equipment Identifier) is printed is stowed near the au IC Card/microSD memory card tray. Except when the IMEI number is required such as requesting servicing or repairs, do not pull out the plate or remove the sticker.

When pulling out the IMEI plate

- ① With the display side downward, pull out the au IC Card/microSD memory card tray.
(For details on pulling out the au IC Card/microSD memory card tray, refer to step 1 "Attaching the au IC Card" (▶ P.6).)
- ② Place your finger (nail) on the hole in the IMEI plate, and pull out the IMEI plate.
(Do not pull the IMEI plate all the way out.)
 - * If the IMEI plate is difficult to pull out, place the catch on the underside of the au IC Card/microSD memory card tray (side with no printing) in the hole in the IMEI plate from above, and pull out the IMEI plate.
(Be sure to remove the au IC Card and microSD memory card from the tray beforehand.)



- Note that pulling out the IMEI plate forcibly or adding forces on it may damage the plate.
- To return the IMEI plate after pulling it out, slowly push it in while taking care not to insert it too deep.
- You can also operate the product to confirm the IMEI.
On the home screen, "App list screen" → [Settings] → [System] → [About phone] → [IMEI].

Charging/Incoming indicator

Notify you of the battery level status while charging, and a missed call, receiving a mail, etc. by illuminating/flashing the charging/incoming indicator.

State of indicator	Color	State of indicator
Illuminating	Red	Charging in progress (Battery level is approx. 94% or less)
Illuminating	Green	Charging in progress (Battery level is approx. 95% or more)
Flashing	Red	Charging unavailable
Flashing	White	New notification such as a missed call

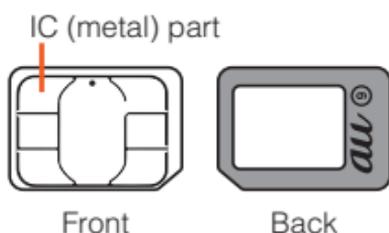
- You can set the charging/incoming indicator depending on apps.

- When the display is on, the charging/incoming indicator which notifies you of new notification such as a missed call does not flash. Check notification icons on the notification/status panel.
- While connecting a specified charger (sold separately) to the product even after charging is complete (battery level is 100%), it keeps illuminating in green.

au IC Card (SIM Card)

The au IC Card records your personal information such as phone numbers. This product supports au Nano IC Card 04.

au Nano IC Card 04



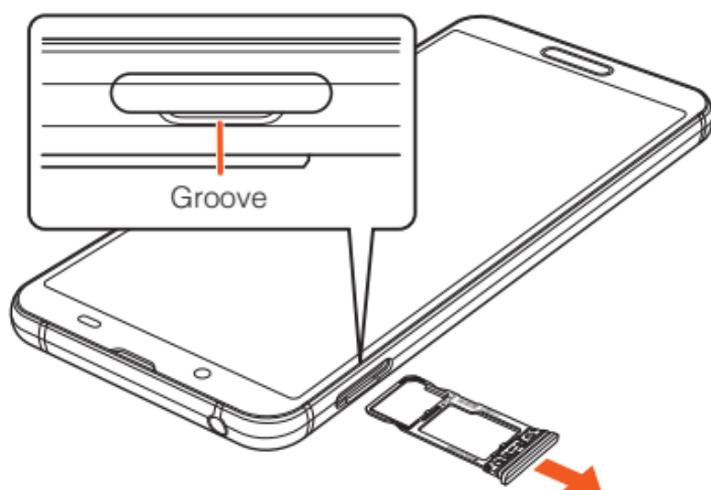
- ⊙ Note the followings since using the au IC Card may cause a fault or damage easily.
 - Do not touch the IC (metal) part of the au IC Card.
 - Confirm the orientation for inserting.
 - Do not attach or remove it forcibly.
- ⊙ When the au IC Card is not attached properly or any trouble is found, error messages are displayed.
- ⊙ Do not misplace the au IC Card once it is removed.
- ⊙ Do not insert the au IC Card attached with a conversion adapter. May cause a fault.
- ⊙ Make sure to unplug the USB Type-C plug such as TypeC Common AC Adapter 01/02 (sold separately) from the product when attaching or removing the au IC Card.

Attaching/Removing the au IC Card

Attaching the au IC Card

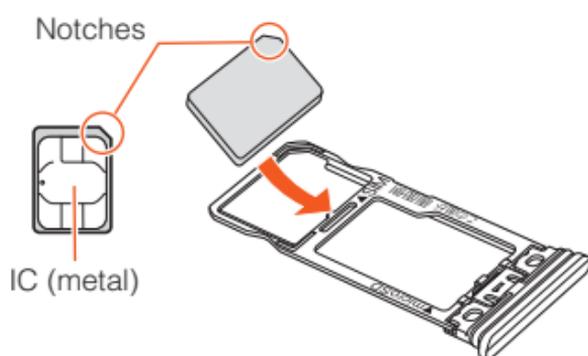
Before attaching the au IC Card, turn the product off. Also, attach it with the display side turned up.

- 1 With your finger on the groove, pull out the au IC Card/microSD memory card tray.**



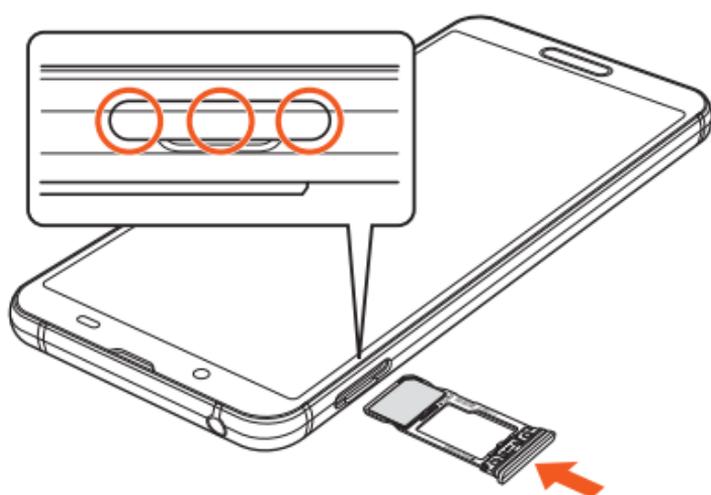
- 2 Put the au IC Card to the au IC Card/microSD memory card tray with the IC (metal) side turned down.**

Check the direction of the au IC Card and put it securely. Not to let the au IC Card lift up from the card tray. If the au IC Card does not fit the card tray, may cause a fault.



3 Insert the au IC Card/microSD memory card tray all the way to the product horizontally.

Push the ○ areas securely and make sure there is no space between the product and the card tray.



Attaching or removing the au IC Card/microSD memory card tray

- Do not insert the au IC Card/microSD memory card into the product directly. First place the card on the tray, then push the entire tray into the product.
- Take care not to lose or damage the removed au IC Card/microSD memory card tray.
- When pulling out the card tray from the product, pull it slowly and horizontally with the display side turned up.
 - Pulling out the card tray forcefully or obliquely may cause damage.
 - When pulling out the card tray with the display side turned down or the product stood upright, the au IC Card or microSD memory card being attached to the card tray may be off and cause loss.
- When attaching the card tray, insert it slowly with the display side turned up and make sure there is no space between the product and the card tray.
 - Do not insert the card tray the other way around. Failure to do so may cause damage it.
 - Inserting the card tray not deeply enough may cause impairment of the waterproof/dustproof property or prevent the product from functioning properly.
 - For details on closing the card tray, refer to "Closing the au IC Card/microSD memory card tray" on the "Notes on Usage".

Removing the au IC Card

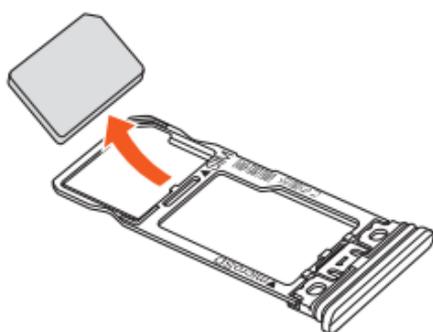
Before removing the au IC Card, make sure to turn the product off. Also, remove it with the display side turned up.

- For details on attaching or removing the au IC Card/microSD memory card tray, refer to "Attaching the au IC Card" (▶P.6).

1 With your finger on the groove, pull out the au IC Card/microSD memory card tray.

Take care not to let the au IC Card come off from the tray and be misplaced when pulling it out.

2 Removing the au IC Card from the au IC Card/microSD memory card tray.



3 Insert the au IC Card/microSD memory card tray all the way to the product horizontally.

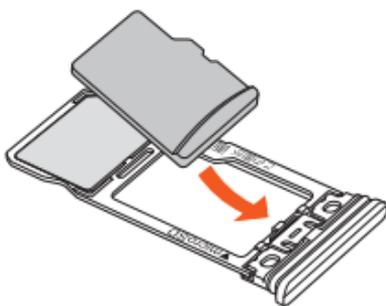
Using a microSD Memory Card

Attaching a microSD Memory Card

Before attaching a microSD memory card, make sure to turn the product off. Also, attach it with the display side turned up.

- For details on attaching or removing the au IC Card/microSD memory card tray, refer to "Attaching the au IC Card" (▶P.6).

- 1 With your finger on the groove, pull out the au IC Card/microSD memory card tray.**
- 2 Put the microSD memory card to the au IC Card/microSD memory card tray with the terminal (metal) side of the memory card turned down.**
Check the direction of the au IC Card and put it securely.
Not to let the microSD memory card lift up from the card tray.
If the microSD memory card does not fit the card tray, may cause a fault.



- 3 Insert the au IC Card/microSD memory card tray all the way to the product horizontally.**

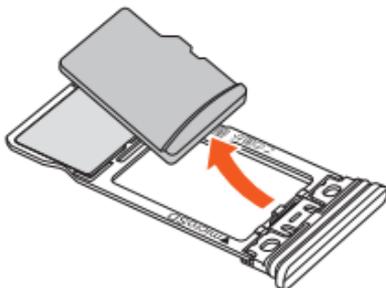
- Make sure that the top/bottom and front/rear of the microSD memory card are facing correctly.
Attaching it forcibly may cause damage.
- Do not touch the terminal part of a microSD memory card.

Removing the microSD Memory Card

Before removing a microSD memory, make sure to turn the product off. Also, remove it with the display side turned up.

- For details on attaching or removing the au IC Card/microSD memory card tray, refer to "Attaching the au IC Card" (▶P.6).

- 1 With your finger on the groove, pull out the au IC Card/microSD memory card tray.**
- 2 Removing the microSD memory card from the au IC Card/microSD memory card tray.**



- 3 Insert the au IC Card/microSD memory card tray all the way to the product horizontally.**

- The microSD memory card may become warm after a long time use, but this is not a fault.

Charging

Charging

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

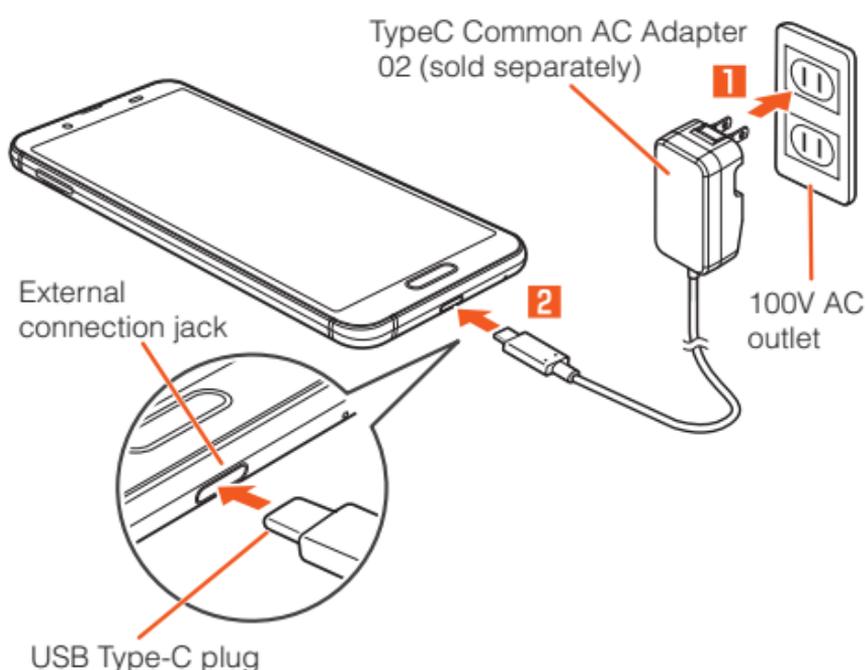
- If the performance of the battery does not recover (e.g. the usable time after each charge has become extremely short), the internal battery may be at the end of service life. On the home screen → "App list screen" → [Settings] → [System] → [About phone] → [Battery status] to check the charging performance of the internal battery.
- On the home screen → "App list screen" → [Settings] → [Battery] to check battery health.
- While charging, the battery icon is displayed with ⚡ superimposed.
- For details on the charging/incoming indicator while charging, refer to "Charging/Incoming indicator" (▶ P.5).

- The product may become warm while charging, but this is normal.
- Depending on the operation procedure and usage environment, the temperature inside the product may get high and the product may even get heated. In such case, charging may stop for security reasons.
- Charging the internal battery while using the camera function etc. may lengthen the charging time.
- If you perform various operations with a specified charger (sold separately) connected to the product, charging/discharging may take place repeatedly in a short time. Frequently charging the internal battery shortens its service life.
- If you charge the internal battery when the battery has run out, the charging/incoming indicator may not illuminate soon. However, charging is in progress.
- If the charging/incoming indicator flashes in red, force the power off (▶ P.10) and turn the product on again. If the indicator continues to flash, stop charging the internal battery and contact an au shop or the Repair and Delivery Support Center.

Charging with the Specified AC Adapter (Sold Separately)

The followings are the explanation of how to connect TypeC Common AC Adapter 02 (sold separately) to charge. For details on the specified AC adapter (sold separately), refer to "Peripheral Devices" (▶ P.20).

- 1** Insert the power plug of TypeC Common AC Adapter 02 (sold separately) into a 100V AC outlet.
- 2** Insert the USB Type-C plug of TypeC Common AC Adapter 02 (sold separately) to the external connection jack of the product in the direction of the arrow.



- 3** When charging is finished, pull out the USB Type-C plug of TypeC Common AC Adapter 02 (sold separately) straight from the external connection jack of the product.
- 4** Unplug the power plug of TypeC Common AC Adapter 02 (sold separately) from the outlet.

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

Turning the Power On/Off

Turning the Power On

- 1  (hold down for at least 3 seconds) while the product is turned off.

- The initial setting of the touch panel will be executed until "AQUOS" disappears from the screen after the power is turned on. Do not touch the screen, otherwise touch panel operations may not be performed properly.
- When you turn the power on for the first time after purchasing the product, the initial setting screen is displayed automatically. For details on the initial setting, refer to "Setting Guide" available on the au homepage.

Turning the Power Off

- 1  (hold down for at least 2 seconds).
- 2 [Power off].

Restarting the Product

You can restart the product after turning it off.

- 1  (hold down for at least 2 seconds).
- 2 [Restart].

Turning the Power Off Forcibly

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

- 1  (hold down for at least 8 seconds).
Release your finger after the product vibrates to turn the power off.

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

Booting in Safe Mode

Turn the product off then boot it in a state close to that at time of purchase. If operation of the product is unstable, it may be due to applications installed after purchasing the product. If symptoms improve when booted in safe mode, uninstalling the applications you installed may remedy symptoms.

- 1  (hold down for at least 2 seconds).
- 2 Long touch "Power off" → [OK].
"Safe mode" is displayed at the bottom of the screen.
To end safe mode, restart the product.

- When the product is turned off, you can boot it in safe mode by  (hold down for at least 3 seconds) to turn it on, and then holding down  until the lock screen is displayed after the AQUOS logo appears.
- It is recommended that you back up your data on the product before booting in safe mode.
- Widgets that you yourself created may be deleted.
- Safe mode is not a normal state for the product to be booted in. End safe mode before normal use.

Lock Screen

The lock screen is displayed if you turn the screen on.

If you register your fingerprint, you can unlock the screen just by touching the fingerprint sensor.

If you register your face, you can unlock the screen just by holding the in camera close to your face.



Swipe "" to top of screen to unlock the screen.

- If a password, etc. is set in "Screen lock", it is displayed as .

Switching the Display Language to English

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

- 1 On the home screen → “App list screen”
- 2 [設定] (Settings).
- 3 [システム] (System).
- 4 [言語と入力] (Languages & input).
- 5 [言語] (Languages).
- 6 [言語を追加] (Add a language).
- 7 [English] → [United States].
- 8 Long touch “English (United States)” and drag it to the top of the list.

How to use the touch panel

■ Tap/Double tap

Tap: Gently touch the screen and then immediately release your finger.

Double tap: Tap the same position twice.

- Select an item or icon displayed on the screen. If you operate double tap while a still picture being displayed or a web page being viewed, the screen is zoomed in/out.

■ Long touch

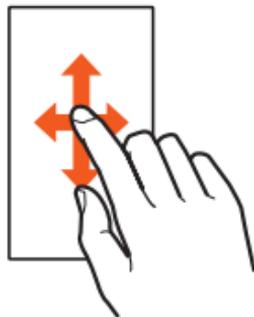
Keep touching an item etc. with your finger.

- Depending on the item, available menus are displayed.

■ Slide/Swipe/Drag

While your finger is gently touching the screen, trace it to the desired direction or position.

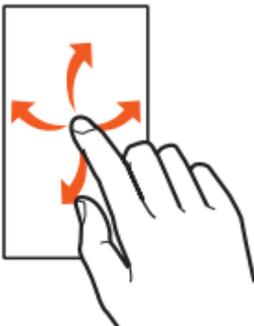
- Scroll the screen or switch pages by tracing the screen to the desired direction. Also, it can be used to operate the gauge or bar when adjusting volume or brightness (slide/swipe).
- Move an item or icon to the desired position (drag).



■ Flick

Quickly move (flick) the screen up/down or to the left/right with your finger.

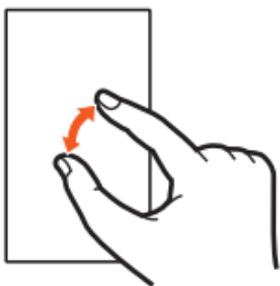
- Switch pages or input characters by flick.



■ Pinch

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

- Zoomed in/out on the web page, etc.



How to use the touch key

The following icons are displayed in the navigation bar at the bottom of the screen. Use as touch keys.

- Touch keys other than the following icons may be displayed depending on the current screen.

◀ (Back key): Tap to go back one screen.

■ (Home key): Tap to display the home screen.

Using the AQUOS Home

AQUOS Home is a home app that consists of the home screen (Desktop Sheet/Favorite Tray) and App list screen.

On the Desktop Sheet of the home screen, you can register shortcuts for applications/functions and widgets, while on the Favorite Tray of the home screen, you can register shortcuts for applications/functions. On the App list screen, installed applications are displayed.

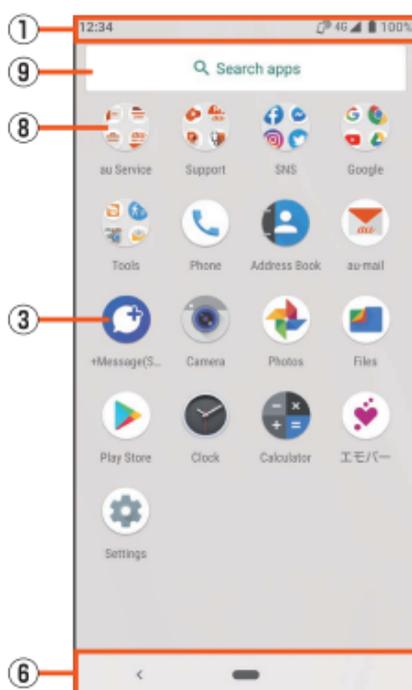
Viewing the AQUOS Home

Swipe/flick up the home screen lightly to switch to the App history screen, and swipe/flick again to switch to the App list screen.

Swipe/flick down the top of the App list screen to switch to the screen displayed before you switched to the App list screen.



《Home screen》



《App list screen》

- ① **Status bar**
- ② **Desktop Sheet**
Flick it to the left or right to switch pages.
- ③ **App**
- ④ **Page Indicator**
When switching pages on the Desktop Sheet, indicates the present display position.
- ⑤ **Favorite Tray**
You can register a shortcut for the favorite applications and functions to start quickly.
- ⑥ **Navigation Bar**
- ⑦ **Search**
Use quick search box.
- ⑧ **Folder**
Tap a folder → select a folder name to change the folder name. "Unnamed Folder" is displayed on the folder without setting the name.
When the indicator is displayed by tapping the folder, flick it to the left or right to switch pages.
- ⑨ **Search apps**
Search installed apps etc.

Seeing Product's Status

Icons

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

Main Notification Icons

Icon	Description
	Time
	Missed call
	New au-mail message
	New +メッセージ (+Message)/New SMS message
	New PC-mail message
	New Gmail™ message
	Making a call, talking, receiving a call
	Call on hold
	Answer phone information
	Available space on the internal memory being run out
	Update available
	Installation completion of application
	Software update available
	Icons collected

Main Status Icons

Icon	Description
	<p>Battery level</p> <p> ~ : Battery level display : No battery</p> <ul style="list-style-type: none"> While charging, the battery icon is displayed with superimposed. Percentage of the remaining battery level appears on the right side of the battery icon.
	Airplane mode set
	<p>Signal strength (Receiving electric field)</p> <p> ~ : Level display : Out of service area</p> <ul style="list-style-type: none"> The icon indicating network is displayed at the right. : LTE/WiMAX 2+ available* During a communication, the icon is displayed with superimposed.
	Roaming (Using overseas network)
	<p>Manner mode status</p> <p>: Manner mode (Vibe) : Manner mode (Mute)</p>
	Do not disturb set
	During a call using hands-free
	Microphone set to "Mute" during a call
	<p>Answer phone set</p> <p>: No Answer phone</p> <p>: Answer phone (one to forty-nine entries)</p> <p>: Answer phone (fifty entries)</p>

* Both "LTE" and "WiMAX 2+" networks are available. "4G" is displayed for either network. Your cell phone connects to the network deemed to be the least congested according to the network traffic.

Using the Notification/Status Panel

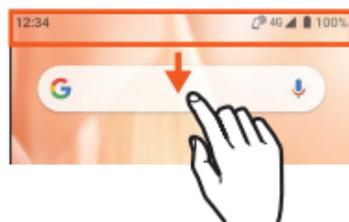
In the notification/status panel, you can check the details on notification icons and status icons or activate an application corresponding to the icon. You can also set the manner mode, Airplane mode, etc.

■ Displaying the notification panel

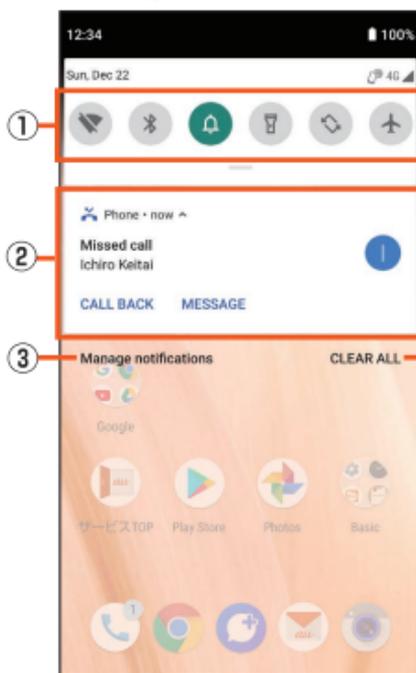
1 Slide the status bar down.

■ Displaying the status panel

1 Drag the status bar down with your two fingers.



■ Viewing the Notification/Status Panel



《Notification panel》



《Status panel》

① Function buttons

Change settings of the frequently used function. Operations are different depending on the functions.

- In the status panel, flick it to the left or right to switch pages.

② Notification

Check the status of the product and notifications. Tap notifications to activate corresponding application.

- Flick notifications to the left or right to delete them. Some notifications cannot be deleted.
- Slide the displayed area up to view hidden notifications.
- Slide notifications up or down using two fingers or pinch in/pinch out to switch between detailed and simple views. In the detailed view, reply messages etc. from the displayed menu directly.
- Long touch notification to make notification settings for the application.

③ Manage notifications

An app for displaying notifications is displayed. Set notification permission for individual apps.

④ Clear all

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

⑤ Brightness adjusting bar

Slide the bar to set the brightness.

⑥ Edit

Change or rearrange the displayed function buttons.

⑦ Settings

Tap it to make various settings for the product.

© Slide the screen up/down to switch the notification panel/status panel.

Setting the Manner Mode

Set not to disturb others around you in public.
You can set the following modes.

Vibe	Ringtones and operation tones are not emitted, and the terminal vibrates for new calls, etc. Alarms and media sound at the set volumes.
Mute	Ringtones and operation tones are not emitted, and the terminal does not vibrate for new calls, etc. Alarms and media sound at the set volumes.
Do not disturb	Make settings for how notifications behave, new calls from specific contacts, and how notifications behave during set time periods.

1 Display the status panel → [Manner mode] function button.

Setting Airplane mode

Placing the terminal in Airplane mode turns all wireless functions off (calling, data communication, wireless LAN (Wi-Fi®) function, Bluetooth® function).

1 On the home screen → “App list screen” → [Settings] → [Network & Internet] → [Advanced] → [Airplane mode].

Setting App Permissions

When you activate applications/functions to access to the function or information of the product for the first time, the confirmation screen for requesting the permission of access authority is displayed.

If a confirmation screen is displayed, check the displayed contents carefully and follow the on-screen instructions.

- ⦿ The explanation screen for permissions may be displayed depending on the applications/functions. Also, multiple confirmation screens may be displayed or the displayed contents may differ. Check the displayed contents carefully and follow the on-screen instructions.
- ⦿ In this manual, some description of the confirmation screens may be omitted.

Checking Your Own Phone Number

1 On the home screen → “App list screen” → [Settings].
Your phone number appears below “Phone number”.

Character entry

Switching Input Methods

You can switch input methods for character entry.

* Following operation explanations use "Japanese S-Shoin".

1 On the character entry screen, [] → [Japanese S-Shoin].

Switching Software Keyboards

Use software keyboards to enter character.

Software keyboards appear when selecting the entry field in the character entry screen such as registering contacts or composing mails.

You can use the following software keyboards in the product.

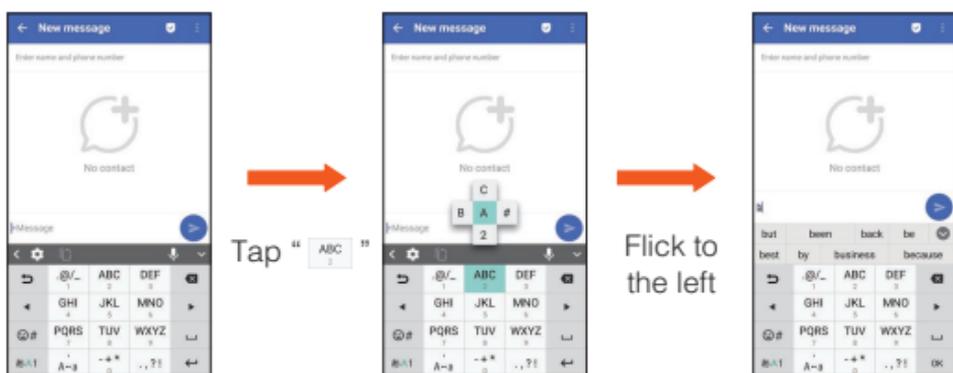
* Following operation explanations use "Japanese S-Shoin".

10-Key keyboard	Characters are assigned in the same order as general cell phones. Enter character by tapping a character entry key repeatedly and switching the character.
QWERTY keyboard	Characters are assigned in the same order as general PCs. Enter character by tapping a character entry key.

1 On the character entry screen, [] → [Input UI] → [QWERTY keyboard]/[10-Key keyboard].

Flick Input

When using the key which several characters and functions are assigned to, you can select a character and function by flicking up/down or to the left/right. When touching a key, candidates which can be selected by flick input appear. You can enter a character or select a function by flicking to the desired direction a character or function is displayed. e.g. only tap "ABC" to enter "a", and flick "ABC" to the left to enter "b".



Making Calls

Entering a Phone Number and Making a Call

1 On the home screen → [] → [].

The dial screen is displayed.

2 Enter a phone number.

When calling to a land-line phone, always enter the city code even when it is a local number.

3 [] → Call.

The call screen is displayed.

Press [](+)/[](-) during a call to adjust call volume (the other party's voice volume).

4 []

Putting a Current Call on Hold

While the call is on hold, guidance is played for the other party.

1 In the call screen → [Hold].

The call is put on hold and the guidance is played for the other party.

Tap "Hold" while putting a call on hold to disable hold.

Making Calls Using History

1 On the home screen → [] → [].

The history list screen is displayed.

Using Contacts List

1 On the home screen → [📞] → [👤].

You can make a call by selecting a contact and tapping the phone number field.

Receiving Calls

When receiving a call, followings are displayed.

- If the other party's makes a call with a notified phone number, the phone number is displayed on the screen. If the phone number is registered in the phonebook, their name and phone number are displayed.
- If the other party's makes a call with an unnotified phone number, the reason is displayed on the screen.
"Private number", "Payphone" and "Unknown"
* Call from the phone whose numbers cannot be notified.

1 Swipe "📞" up while an incoming call is arriving.

When a call arrives while the backlight is on (except when the lock screen is displayed), tap "ANSWER".

2 Call → [📞].

Product's Storage

You can save data on the internal memory and the microSD memory card.

Internal memory	Save application, data on each application, media files such as images shot by screenshot.
microSD memory card	Save media files etc.

Updating Software

The product supports the software update.

The software update function can also be used for operating system updates. An operating system update is a software update which also includes updating of the product's operating system.

1 On the home screen → "App list screen" → [Settings] → [System] → [Advanced] → [System updates].

Start to check whether software update is necessary or not. Tap "Check for update" to check it. When it is necessary, you can download and install data for software update.

- Slide the status bar down, tap the notification and follow the on-screen when [📶] appears in the status bar.

2 [Download] → [Restart now].

Notes on Software Update

- You are charged for data communication when connecting to the Internet from the product by using data communication. Large-volume data communication occurs in particular for operating system updates. Use of Wi-Fi® is recommended.
- When software update is necessary, you will be informed on au homepage, etc. For details, contact an au shop or Customer Center (call toll-free 157). In addition, users of the SHV45 will receive a notice from au, when software update is necessary to improve the functionality of the SHV45.
- It is recommended to back up your data before updating software.
- Restarting the product is needed to complete updating.
- If the software update has failed or stopped, perform the same procedures again.
- If the software update fails, it may become impossible to operate the product. If this happens, bring it to an au shop or Toyota store (not accepted by some shops).
- Charge the battery sufficiently before starting update. If the battery level is insufficient or the battery runs out during the update, the software update will fail.
- Check out the signal reception status. The software update may fail if the product is in a place with bad signal reception status.
- Various data registered on the product (address books, mails, still pictures, music data, etc.) and information of settings will not be changed even after software is updated. However, note that data may not be protected depending on the state of the product (fault, damage, getting wet with water, etc.).

- During international roaming, the software update function may not be available in some places.
- After you have updated the operating system, you cannot return it to the previous version.

Do not conduct the following operations during the software update

- Do not move during software update.

Troubleshooting

If you think the product may be malfunctioning, first check with the “quick diagnostic” and “trouble diagnostic” from the “Repair and Delivery Support” app.

■ Quick diagnostic

On the home screen → “App list screen” → [Support] → [故障紛失サポート] (Repair and Delivery Support) → [クイック診断してみる] (Try quick diagnostic)

■ Trouble diagnostic

On the home screen → “App list screen” → [Support] → [故障紛失サポート] (Repair and Delivery Support) → [便利な機能] (Useful functions) → [トラブル診断を試す] (Try trouble diagnostic)

You can also check from the au homepage below.

<https://www.au.com/trouble-check/> (Japanese)



Also refer to “Online Manual” (Japanese), or the section “故障とお考えになる前に” in the “取扱説明書(詳細版)(Full Instruction Manual)” (Japanese) available on the au homepage.

<https://www.au.com/online-manual/shv45/> (Japanese)

<https://www.au.com/support/service/mobile/guide/manual/> (Japanese)

After-Sales Service

■ When Asking for Repair

For repair, contact Repair and Delivery Support Center.

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

* The warranty period is 1 year from the date of newly purchase.

- Before handing in the product for repair, make a backup of the contents of memory since they may disappear during repair. Note that the Company shall not be liable for any damages and loss of income should the contents of memory be altered or lost.
- Recycled parts that meet the Company's quality standards are sometimes used for repair.
- Your old au terminal collected by replacement mobile phone delivery service is serviced for reuse and recycled as a replacement terminal. Also, parts replaced through au after-sales service are collected and recycled by the Company. They are not returned to customers.
- Instances where the product has been changed, modified, or analyzed (including software modification or analysis (including rooting, etc.) reverse-engineered, reverse-compiled, or reverse-assembled) or has been repaired at a location other than an authorized repair location designated by the company may not be covered by warranty or may prevent the product from being accepted for repairs.
- The internal battery on the product is not covered by the free-of-charge repair warranty unless phenomena by defects of battery materials or manufacturing occur.

■ Performance Parts for Repair

The Company retains performance parts for repair of the SHV45 main unit and its peripheral devices for 4 years after discontinuation of production. “Performance parts for repair” refers to parts required for maintaining the functions of the product.

■ Terms of services of the free-of-charge repair warranty

1. When applying for repairs, the serial number (IMEI number) is required. You can check it on the main unit or sticker pasted on outer box.
2. If malfunctions occur even though you have properly operated following notes on the instruction manual during the warranty period, you are not charged a repair fee.
3. In the following cases, you are charged a repair fee even during the warranty period. (Or repairs may not be possible.)
 - ①When you have not properly operated following instruction manuals.
 - ②When malfunctions or damages have caused by unwarranted repairs or modifications.
 - ③When the product has been repaired at a location other than an authorized repair location designated by the company.
 - ④When you have made mistaken operation while handling or malfunctions or damages have caused by accidents. Also, the product has traces of being dropped, water intrusion, humidity, etc.
 - ⑤When malfunctions or damages have arisen from earthquakes, storms, floods or other natural disasters, as well as fires, salt damages, abnormal voltage, etc.
4. Repairs may not be possible depending on the damage state.
5. The Company does not compensate any damages/losses arising from product faults.
6. The Company assumes no responsibility for any accidents that might be caused by connecting the product to the device other than specified one.
7. Visiting repairs are not possible.
8. This warranty is valid only in Japan.

* This warranty is liable for the free-of-charge repair subject to the above-mentioned period and condition. Therefore, it does not restrict your legal authority for assurance parties and other operators.

■ Repair and Delivery Support

An after-sales service membership program on a monthly basis called "Repair and Delivery Support" is available for using your au terminal for a long time without worries. This service expands coverage for many troubles including malfunction, theft and loss. For details of monthly charges and this service, check on the au homepage.

<https://www.au.com/mobile/service/kosho-funshitsu/> (Japanese)

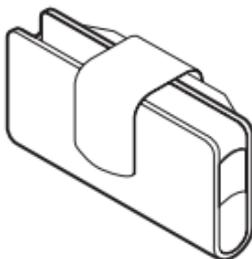
- You can apply for membership only at the time of purchasing your au terminal.
- Once you cancel the membership, you cannot reapply for it until you purchase an au terminal next time.
- Note that when changing the model or purchasing an extra terminal, this service only covers the most recently purchased au terminal.
- When an au terminal is handed over to you or someone else, the "Repair and Delivery Support" membership is also handed over to the successor of the terminal.
- When you get a new au terminal by changing the model, purchasing an extra terminal, etc., the "Repair and Delivery Support" membership for the old au terminal is automatically canceled.
- Service contents are subject to change without notice.

■ au IC Card

The au IC Card 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 Toyota store.

Peripheral Devices

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



- TypeC Common AC Adapter 01 (0601PQA) (sold separately)
TypeC Common AC Adapter 02 (0602PQA) (sold separately)
- Common AC Adapter 05 (0501PWA) (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)*
- MicroB-TypeC conversion adapter (0601PHA) (sold separately)

* MicroB-TypeC conversion adapter (sold separately) is required to use.

◎ The peripheral devices can be purchased on au Online Shop.
<https://onlineshop.au.com/> (Japanese)

Main Specifications

■ Main unit (SHV45)

Display	Approx. 5.5 inches, approx. 16.77 million colors, IGZO, 2,160×1,080 (FHD+)
Weight	Approx. 167 g (including the internal battery)
Size (W×H×D)	Approx. 70 mm×147 mm×8.9 mm (thickest point:Approx. 9.8 mm)
Memory (built-in)	RAM: Approx. 4 GB Internal Storage: Approx. 64 GB
Continuous talk time (in Japan)	Approx. 2,820 min.
Continuous talk time (overseas (GSM))	Approx. 1,120 min.
Continuous standby time (in Japan)	Approx. 910 hours
Continuous standby time (overseas (GSM))	Approx. 940 hours
Continuous tethering time	Approx. 1,410 min.
Maximum Wi-Fi® tethered connections	10 devices
Charging time	TypeC Common AC Adapter 01 (sold separately):Approx. 220 min. TypeC Common AC Adapter 02 (sold separately):Approx. 180 min.
Camera device	Standard out camera CMOS image sensor Wide-angle out camera CMOS image sensor In camera CMOS image sensor
Effective pixels	Standard out camera Approx. 12.00 million pixels Wide-angle out camera Approx. 12.00 million pixels In camera Approx. 8.00 million pixels

Bluetooth® function	Communication method: Bluetooth® Standard Ver.5.0 Output: Bluetooth® BR/EDR: Standard Power Class 1; BLE: Power Class 1.5 Communication distance*1: Within 10 m with no obstacles in the range Compatible Bluetooth® profiles*2: HSP, HFP, A2DP, AVRCP, OPP, SPP, PBAP*3, HID, PAN(PAN-NAP), PAN(PANU), HOGP*4, DUN*5, FTP Frequency bands: 2.4 GHz band
Network environment	IEEE802.11a/b/g/n (2.4 GHz/5 GHz)*6/ac*6*7 conformant
Interface	USB Type-C jack, 3.5 ϕ (quadropoles) earphone/microphone jack (supported earphones: tripolar headphone (Lch/Rch/GND) and quadropolar earphone with microphone (Lch/Rch/GND/MIC))

- *1 It changes according to objects obstructing devices and signal reception.
*2 This is the specification provided in Bluetooth® standards for making communication between Bluetooth®-compatible devices in accordance with their intended use.
*3 Some contents of address books data may not be properly displayed on the device of the other party.
*4 This profile supports Bluetooth® Standard Ver.4.0.
*5 Supported for some car navigation systems only. See the au homepage for usage.
*6 MIMO not supported.
*7 Supports MU-MIMO (Client mode).
(Refer to the respective companies' websites for information on supported products.)

⊙ 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 **[SHV45]** cell phone complies with Japanese technical regulations for exposure to radio waves and international guidelines on radio wave protection.

This cell 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 body. The SAR limit for cell phones is 2.0 W/kg. The highest SAR value for this cell phone when tested for use near the head is 1.490 W/kg (*2), and when worn on the body, is 0.330 W/kg (*2). There may be slight differences in SAR levels among individual products, but they all satisfy the limit.

The actual SAR of this cell phone while operating can be well below that indicated above. This is due to the cell phone being designed to only output 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 cell phone.

This cell phone can be used in positions other than against your head. Use a carrying case or similar accessory that holds the phone at least 1.5 cm separated from the body and ensure no metal parts are located between you and the cell phone. Under these conditions, this cell phone satisfies Japanese technical regulations and international guidelines for radio wave protection. The World Health Organization has stated that "a large number of studies have been performed over the last two decades to assess whether mobile phones pose a potential health risk. To date, no adverse health effects have been established as being caused by mobile phone use".

If you would like to know more detailed information, please refer to the WHO website.

<https://www.who.int/emf>

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:
<https://www.tele.soumu.go.jp/e/sys/ele/index.htm>
- Association of Radio Industries and Businesses website:
<https://www.arib-emf.org/01denpa/denpa02-02.html> (Japanese)
- SHARP homepage:
<http://k-tai.sharp.co.jp/support/sar/> (Japanese)
- au homepage:
<https://www.au.com/english/>

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

*2 The value is including other radio systems that can be simultaneously used.

Regulatory information

In some countries/regions including Europe*¹, there are restrictions on the use of 5GHz WLAN that may limit the use to indoors only.

Please check the local laws and regulations beforehand.

*1 The following EU and EFTA member countries:

Belgium (BE), Bulgaria (BG), Czech Republic (CZ), Denmark (DK), Germany (DE), Estonia (EE), Ireland (IE), Greece (EL), Spain (ES), France (FR), Croatia (HR), Italy (IT), Cyprus (CY), Latvia (LV), Lithuania (LT), Luxembourg (LU), Hungary (HU), Malta (MT), Netherlands (NL), Austria (AT), Poland (PL), Portugal (PT), Romania (RO), Slovenia (SI), Slovakia (SK), Finland (FI), Sweden (SE) and United Kingdom (UK), Switzerland (CH), Liechtenstein (LI), Iceland (IS), Norway (NO).

Norway: Use of this radio equipment is not allowed in the geographical area within a radius of 20 km from the centre of Ny-Alesund, Svalbard.

Hereby, SHARP CORPORATION declares that the radio equipment type SHV45 is in compliance with Directive 2014/53/EU.
The full text of the EU declaration of conformity is available at the following internet address:
<https://jp.sharp/k-tai/> (Japanese)

Manufacturer's Address:

SHARP CORPORATION,

1 Takumi-cho, Sakai-ku, Sakai-shi, Osaka 590-8522, Japan

• Description of accessories

Headset, Handsfree	φ3.5 audio jack, Bluetooth
USB cable	For charging, peripherals, etc.
microSD memory card	microSD/microSDHC/microSDXC
nano IC card	au Nano IC Card 04/non-au Nano IC Cards non-au Nano IC Cards can be used after SIM-unlocking the handset.

• Frequency range of supported bands in EU

GSM 900	Tx 880.2 to 914.8 MHz Rx 925.2 to 959.8 MHz
DCS 1800	Tx 1710.2 to 1784.8 MHz Rx 1805.2 to 1879.8 MHz
WCDMA FDD I	Tx 1922.4 to 1977.6 MHz Rx 2112.4 to 2167.6 MHz
WCDMA FDD VIII	Tx 882.4 to 912.6 MHz Rx 927.4 to 957.6 MHz
LTE Band 1	Tx 1922.5 to 1977.5 MHz Rx 2112.5 to 2167.5 MHz
LTE Band 3	Tx 1710.7 to 1784.3 MHz Rx 1805.7 to 1879.3 MHz
LTE Band 8	Tx 880.7 to 914.3 MHz Rx 925.7 to 959.3 MHz
Bluetooth	Tx 2402 to 2480 MHz Rx 2402 to 2480 MHz
WLAN 2.4 GHz	Tx/Rx 2412 to 2472 MHz (BW:20 MHz only)

WLAN 5GHz	W52(U-NII 1): Tx/Rx 5180 to 5240 MHz (BW:20 MHz) Tx/Rx 5190 to 5230 MHz (BW:40 MHz) Tx/Rx 5210 MHz (BW:80 MHz) W53(U-NII 2A): Tx/Rx 5260 to 5320 MHz (BW:20 MHz) Tx/Rx 5270 to 5310 MHz (BW:40 MHz) Tx/Rx 5290 MHz (BW:80 MHz) W56(U-NII 2C): Tx/Rx 5500 to 5700 MHz (BW:20 MHz) Tx/Rx 5510 to 5670 MHz (BW:40 MHz) Tx/Rx 5530 to 5610 MHz (BW:80 MHz)
NFC	Tx/Rx 13.56 MHz
GNSS	GPS: Rx L1 (1575.42 MHz) GLONASS: Rx G1 (1598.0625 to 1605.375 MHz) Galileo:Rx E1(1575.42MHz) BeiDou: Rx B1(1561.098 MHz)

• Maximum transmit power

GSM 900	+33 dBm (Power Class4)
DCS 1800	+30 dBm (Power Class1)
WCDMA FDD I	+24 dBm (Power Class3)
WCDMA FDD VIII	+24 dBm (Power Class3)
LTE Band 1	+23 dBm (Power Class3)
LTE Band 3	+23 dBm (Power Class3)
LTE Band 8	+23 dBm (Power Class3)
Bluetooth	+11.5 dBm (Power Class1)
WLAN 2.4 GHz	+14.0 dBm
WLAN 5GHz	+12.0 dBm
NFC	0 dBμA/m at 10 m

■ Mobile Light

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

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

■ Battery - CAUTION

Use specified Charger only.

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

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

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

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

■ Volume Level Caution



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

■ Headphone Signal Level

The maximum output voltage for the music player function, measured in accordance with EN 50332-2, is 128.0 mV.

■ European RF Exposure Information

Your mobile device is a radio transmitter and receiver. It is designed not to exceed the limits for exposure to radio waves recommended by international guidelines. These guidelines were developed by the independent scientific organization ICNIRP and include safety margins designed to assure the protection of all persons, regardless of age and health.

The guidelines use a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit for mobile devices is 2 W/kg and the highest SAR value for this device when tested at the ear is 0.775 W/kg² and when worn on the body is 1.215 W/kg².

For body-worn operation, this mobile device has been tested and meets the RF exposure guidelines when used with an accessory containing no metal and positioning the handset a minimum of 5 mm from the body. Use of other accessories may not ensure compliance with RF exposure guidelines.

As SAR is measured utilizing the device's highest transmitting power the actual SAR of this device while operating is typically below that indicated above. This is due to automatic changes to the power level of the device to ensure it only uses the minimum level required to reach the network.

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

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

FCC Notice

- This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.
- The device is electronically labeled and the FCC ID can be displayed via the System, the Advanced & the Authentication under the Settings menu.

■ Information to User

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation; if this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

Warning

The user is cautioned that changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

■ FCC RF Exposure Information

Your handset is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for wireless handsets employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg.

Highest SAR value:

Model	SHV45
FCC ID	APYHRO00275
At the Ear	0.92 W/kg
On the Body	0.33 W/kg

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

The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.

The FCC has granted an Equipment Authorization for this model handset with all reported SAR levels evaluated as in compliance with the FCC RF emission guidelines. SAR information on this model handset is on file with the FCC and can be found at <https://www.fcc.gov/oet/ea/fccid> under the Display Grant section after searching on the corresponding FCC ID (see table above).

Additional information on Specific Absorption Rates (SAR) can be found on the FCC website at <https://www.fcc.gov/general/radio-frequency-safety-0>.