

◆ Shooting still images

1 From the Home screen, [Camera]

A still image shooting screen appears and  appears on the upper right of the shooting screen for a few seconds.

2 Display an object on the shooting screen →

Shutter sound is heard and a still image is shot.

- Alternatively, press the volume up or down key to shoot.

■ Main operations on the still image shooting screen

Switching lens : On the shooting screen,  / 

Zooming : Pinch-out/pinch-in the screen.

- Pinch-out/pinch-in to show the slide bar and magnification scale. You can zoom using the slide bar. Zoom function is not available for ultra wide camera or in-camera.

Switching to in-camera/out-camera : On the shooting screen, 

Switching the flash : On the shooting screen, 

- The flash can be switched to  (Auto) /  (On) /  (Light) /  (Off).

* For in-camera, the flash can be switched to  (On) /  (Off).

Switching the eye guidance (in-camera only) : On the shooting screen, 

- Switch the animation to guide the eyes to the position where the in-camera lens is located.
- When the self timer is disabled in the camera settings which appear by tapping ,  is displayed.

✓ INFORMATION

- If [SuperNightShot detection] and [AI Scene Recognition] is enabled at the same time, [SuperNightShot (Holding)] appears automatically at the scene suitable for Super Night Shot shooting in a dark place and the mode can be selected. Even if you select [SuperNightShot (Holding)], the shooting mode is kept [Still].

◆ Portrait shooting

Tap [mode] on the shooting screen to switch the shooting mode to [Portrait]. When the camera recognizes someone's face, portrait can be shot with background bokeh.

- For out-camera, background bokeh can be applied to a subject other than portraits. For in-camera, background bokeh can be applied only to portraits.

1 From the Home screen, [Camera]

2 [mode] → [Portrait]

The portrait shooting screen appears.

3 Display someone's face on the shooting screen → Use the slide bar to adjust the Background Bokeh Level →

- When someone's face is recognized, the focus frame appears on the shooting screen and the background has bokeh effect. Slide the slide bar for the Background Bokeh Level left or right to adjust the bokeh level.
- Take care about the distance from the object so that the camera can recognize a person as an object and then shoot.

- Alternatively, press the volume up or down key to shoot.

✓INFORMATION

- You can show/hide the slide bar for the background blur level by tapping / on the shooting screen. Also, Portrait shooting can be available by determining the blur level first and then hiding the slide bar.

◆ Super Night Shot shooting

Tap [mode] on the shooting screen to switch the shooting mode to [Super Night Shot]. You can take a clearer photo of a night view in a dark place.

1 From the Home screen, [Camera]

2 [mode]→[Super Night Shot]

The Super Night Shot shooting screen appears.

3 Display an object on the shooting screen→

- When the countdown ends, shooting starts.
- Be careful not to shake the terminal, as shooting takes some time.
- Alternatively, press the volume up or down key to shoot.

■ Main operations on the Super Night Shot shooting screen

Switching shooting style : On the shooting screen, (Holding) / (Tripod)

✓INFORMATION

- It is recommended to select (Tripod) if you shoot in a place where the terminal can be fixed.

◆ Shooting video

1 From the Home screen, [Camera]

2 [mode]→[Video]

3 Display an object on the shooting screen→ (Start)

Shooting start sound is heard and a shooting is started.

- Alternatively, press the volume up or down key to start shooting.
- When shooting starts, elapsed time appears on the shooting screen.
- Tap while recording to pause. Tap to resume recording.

4 (Stop)

Shooting end sound is heard and a shooting stops.

- Alternatively, press the volume up or down key to stop shooting.
- Recording stops when the saving destination capacity becomes low or when file size of recorded data reaches the limit (approx. 4 GB). Also, recording stops and the camera ends when a call is received while recording.

■ Main operations on the video shooting screen

Shooting a still image while recording : Tap shown while recording

- The shutter sound is not emitted for still image shooting while recording video.

Zooming : Pinch-out/pinch-in the screen.

- Pinch-out/pinch-in to show a slide bar. You can zoom using the slide bar. Zoom function is not available for ultra wide camera or in-camera.

- Zoom function is available while recording.
- Switching the light :** On the shooting screen,  (On) /  (Off).
- * Cannot switch for in-camera.

◆ Live Auto Zoom shooting

When you tap or encircle a target object on the shooting screen, the camera zooms in the object and sets it in the center of the screen so that you can shoot a tracking video.

- The shooting picture size of Live Auto Zoom is "Full HD" (1920×1080) only and it cannot be changed.
- When shooting with the background which is similar color to a target object, the camera may select a part of the background or tracking may drop out.
- When a target object is overlapped to the other object in similar shape, tracking may drop out.
- If a part of background is selected or tracking is dropped out, select the object again by tapping or circling it.

1 From the Home screen, [Camera]

2 [mode]→[Live Auto Zoom]

3 Tap an object to zoom (or circle it)

A white focus frame appears for the object and the object is zoomed in.

- When you tap within the white focus frame, the focus frame changes into gray color and zooming is canceled temporarily. Tap it again to resume zooming. When you tap another object out of focus frame (or circle it), the focus target is changed.
- Double-tap the shooting screen to cancel focus.
- After the object is selected, you can zoom in/out by pinching-in/out the screen.

4 (Start)

Shooting starts with the start sound.

- When the object is shifted from the center of the screen a little, the white focus frame will capture the object in the center of the screen again in zooming state.
- If a zoomed object is dropped out from the shooting screen, the focus frame changes into red and the zooming is canceled. Capture the object in the shooting screen again to track the object.
- Alternatively, press the volume up or down key to start shooting.

5 (Stop)

Shooting end sound is heard and a shooting stops and the video is saved.

- Alternatively, press the volume up or down key to stop shooting.

■ Main operations on shooting screen for Live Auto Zoom

Shooting still images :

- The shutter sound is not emitted for still image shooting while recording video.

◆ SlowMotion Recording

You can record a video to which the slow motion effect is applied. If you play back the video with [Photos], you can specify the range applying the slow motion effect.

- The shooting picture size of SlowMotion Recording is "HD" (1280×720) only and it cannot be changed.
- The sound is not recorded on the shot data (image only),

1 From the Home screen, [Camera]

2 [mode]→[SlowMotion Recording]

3 (Start)

Shooting starts with the start sound.

- Alternatively, press the volume up or down key to start shooting.

4 (Stop)

Shooting end sound is heard and a shooting stops.

- Alternatively, press the volume up or down key to stop shooting.

5 Play back the video with [Photos]

 is displayed on the upper right of the thumbnail for the video recorded with SlowMotion Recording.

6 Slide / on the bottom of the screen to specify the range applying the slow motion effect

◆ Camera settings

Tap [mode] on the shooting screen to switch the shooting mode. Also, tap  to display the Settings screen of Camera and you can change the settings for shooting still images/videos.

❖ Switching the shooting modes

When the camera is activated, the still image shooting screen appears. Tap [mode] to switch to the shooting mode other than still image.

■ Still

Shoot still images.

Tap [mode] to return from other shooting modes screen and switch.

■ Video

Record videos.

■ Photoshop Express Mode

Activate Photoshop Express to correct a still image automatically after shooting.

- The original still image and corrected one are saved.
- Logging in with your Adobe ID allows you to use services offered by Adobe or premium functions.

■ Portrait

Shoot portrait photo with background bokeh. You can adjust the bokeh level.→P106

■ Super Night Shot

Correct brightness in a dark place automatically to shoot a clearer photo.

■ Live Auto Zoom

Zoom a target object in the center of the screen and shoot. Move the camera according to the movement to shoot chasing videos. → P108

■ SlowMoiton Recording

You can record a video to which the slow motion effect is applied. → P109

■ Manual

Set the shutter speed, brightness, white balance, ISO sensitivity, and focus manually.

■ AR Size Checker

Start AR Size Checker and display a box of specified dimensions using the camera (AR display).

■ Adobe Scan

Start Adobe Scan and easily capture and convert documents, forms, business cards, and whiteboards into high-quality Adobe PDFs.

■ Google Lens

Activate Google Lens.

❖ Common settings

■ Save

Tap it to ON (●●) when the microSD card is installed to set the saving location of shot data to a microSD card.

■ Location

Set to add location information to shot images by tapping it to ON (●●).  appears while obtaining location information (not obtained) or  appears when it is obtained on the shooting screen.

■ Exposure/WB

Tap it to ON (●●) to display the icons of exposure and white balance (●) adjustment. Tap each icon to change the setting value.

- When [Exposure/WB] is set to ON, AI Scene Recognition, SuperNightShot Detection, and HDR are not available.

■ Display grid

Display grid lines on the shooting screen to determine composition of photo.

■ QR Code® reader

Set to scan the QR code automatically when QR code is displayed on the shooting screen.

- By default, it is set to ON (●●).

■ BarCode reader

Set to scan the bar code automatically when bar code is displayed on the shooting screen.

❖ Still

■ Picture Size

Select shooting size.

- Shooting sizes are different between the out-camera and in-camera.

■ Self-timer

Set it to ON (🔵) to display ⌚ (📷 for the in-camera) on the shooting screen. Set to shoot in 2 second/3 seconds/5 seconds after it is tapped. You can set self-timer for out-camera and in-camera individually.

- For in-camera, it is set to ON (🔵) in advance.

■ HDR

Set to shoot 3 images in different exposure time to compose a still image whose white out or crushed black is corrected.

- When [HDR] is set to ON, the flash, Exposure/WB, Long Press RapidPic, Image Stabilization, AI Scene Recognition, SuperNightShot Detection, and AI Auto Shot are not available. However, if setting it to Auto, AI Scene Recognition is available.
- If the scene to apply "Auto" HDR is detected when the HDR setting is set to Auto, the icon to notify "Backlight/HDR AUTO" appears on the upper left of the shooting screen. You can set HDR shooting to OFF temporarily by tapping the icon.

■ AI Scene Recognition

Setting it to ON (🔵) decides a scene mode automatically and then shoot.

Auto-detected scene is displayed with the scene name such as "People", "Night", etc.

To cancel scene recognition, tap ✕ at the side of scene name.

- When the flash is set to 📷 (Auto) and "Night" is detected, the flash does not turn on.
Tap the flash icon to 🔦 (On) / 🔦 (Light) to shoot using flash.
- When [AI Scene Recognition] is set to ON, Exposure/WB is not available.

■ AI Scene Description

When it is set to ON (🔵), explanation appears when a scene is recognized.

■ SuperNightShot Detection

SuperNightShot can be selected automatically when shooting in a dark place.

■ AI Auto shot

Save recommended photos when shooting a still image.

■ AI Auto motion

Save recommended motions when shooting a still image.

■ Image Stabilization

Reduce camera shake when shooting still images.

- When [Image Stabilization] is set to ON, Long Press RapidPic is not available.

■ Long Press RapidPic

Shoot continuously by long-touching (pressing and holding) the shutter button.

- You can shoot continuously up to 100 images.
- When [Long Press RapidPic] is set to ON, Image Stabilization and Beauty are not available.
- [Long Press RapidPic] does not support shooting with ultra wide camera/in-camera, HDR shooting, and flash or Self-timer setting.

■ Beauty

Apply effects such as face beauty, skin brightening, eye sizing, and facial contouring to the image.

- When [Beauty] is set to ON, Long Press RapidPic is not available.

■ In-camera Touch Shutter

Set to shoot by tapping the shooting screen.

❖ Video

■ Video Size

Select shooting size.

■ Video Stabilization

Reduce camera shake when shooting videos.

■ Video Encoder

Select the compression method of video from H.264 or H.265.

❖ Other

■ Restore defaults

Reset the camera settings back to the default.

◆ QR code/bar code reader

Scan QR code/bar code data on the still image shooting screen. By default, [QR Code® reader] of the camera is set to ON and [BarCode reader] is set to OFF.

- QR code/bar code cannot be scanned using ultra wide camera or in-camera.
- Scan using the camera with the distance of approximately 10 cm or more from an object (QR code/bar code).
- QR code/bar code cannot be scanned for some versions (type and size).
- Scratches, dirt, damages, low print quality and the strong reflection of light may disable code reading.
- If the QR code/bar code is not scanned well, try to change the distance between the QR code/bar code and camera, the angle or direction of camera.
- If either [QR Code® reader] or [BarCode reader] is set to ON, up to 5 QR codes or bar codes can be scanned. In addition, if [QR Code® reader] and [BarCode reader] are set to ON at the same time, up to 5 QR codes/bar codes mixed in one shooting screen can be scanned.

1 From the Home screen, [Camera]

2 Display the QR code/bar code on the shooting screen → Scan

When scanning is complete, the pop-up screen appears on the top of the shooting screen and then the scanning result screen appears by tapping [Detail].

- Tap [Copy] to copy the displayed text such as URL.
- Tap [Search barcode on the Web] to search the bar code information.
- When the scan result is phonebook data, tap [Add to phonebook] to register a contact.

- When the scan result is Wi-Fi access information, tap [Connect to Wi-Fi] and scan the QR code again to connect. →P134

✓INFORMATION

- If multiple QR codes/bar codes are detected, the yellow and pink frames appear. When you tap a pink frame, the frame turns yellow and a pop-up screen appears on the top of the shooting screen. On the pop-up screen, tap [Detail] to display the scanning result screen.
- When multiple QR codes/bar codes are detected, note that moving the terminal cancels detection frames and QR codes/bar codes may not be scanned.

Photos

Display/play still images or videos shot by the camera or downloaded to the terminal.

- For video file formats that can be played, refer to "Main specifications". →P202

◆ Viewing still image/Playing video

1 From the Home screen, [Photos]

The image list appears.

2 Select an image

- Flick the screen left and right to switch between the previous and next screen.
- Pinch-out or in the screen to zoom-out or zoom-in.
- For videos, press the volume key to adjust sound volume, or use icon or slider, which appears by tapping the screen, to play, pause, fast-rewind, fast-forward, etc.

Applications

dメニュー (dmenu)

In dmenu, you can easily access sites recommended by XXXXX or convenient applications.

- 1 From the Home screen, [dメニュー (dmenu)]**
"Chrome" activates and "dmenu" appears.

✓INFORMATION -----

- Before using dmenu, confirm that the terminal is connected to a network. → P62
- For connecting dmenu and downloading applications introduced in dmenu, packet communication charge is applied separately. Some downloaded applications automatically perform packet communications.
- Applications introduced by dmenu may include charged ones.

dmarket

Various services including selling digital contents such as music, videos, books, and shopping sites are provided.

- 1 From the Home screen, [dmarket]**

✓INFORMATION -----

- For details on dmarket, refer to the following website.
<https://dmarket.XXXXX.ne.jp/common/about/index.html> (in Japanese only)

Play Store

With Play Store, you can access Google Play to search convenient applications or fun games which you can download and install on the terminal. Also, movie contents can be rented to view.

- To use Google Play, you need to set up a Google account on the terminal. If a Google account is not yet set up, follow the on-screen instructions that are displayed when you open Play Store for the first time.
- For details on Google Play, in the Google Play screen, tap the Google account icon on the upper right of the screen → [Help & feedback] to see Help.
- Items or displays may vary depending on the version of the application.

◆ Installing application

1 From the Home screen, [Play Store]

Google Play screen appears.

2 Search an application → Select an application

3 [Install] (for free application)/[Price] (for paid application)

- Displayed items differ depending on the application.
- For details about buying charged applications, returning the product, demand for refund, in the Google Play screen, tap the Google account icon on the upper right of the screen → [Help & feedback] to see Help.
- To uninstall charged applications, the refund screen may be displayed. For details, in the Google Play screen, tap the Google account icon on the upper right of the screen → [Help & feedback] to see Help.

4 Check the download progress status

The icon for the installed application is displayed on the Home screen or the application list screen.

✓ INFORMATION

- Once you accept the installation of an application, you will be held responsible for its use. Be careful especially about applications which access many functions or large amount of data.
- Make sure the security of application, then install it at your own risk. The terminal may be infected with a virus and the data may be damaged.
- XXXXX is not liable for any malfunctions or disadvantage brought to you or any third party due to installed applications etc. provided by the third party including Google.
- For applications which you installed from Play Store and are provided by the third party including Google, contact each provider.
- Some applications connect to the Internet to automatically perform communications. Note that packet communications charge may be higher.
- Installed accessibility plug-ins can be enabled from [Accessibility]. → P150

◆ Deleting Google Play applications

1 On the Google Play screen, tap the Google account icon on the upper right of the screen → [Manage apps & device] → [Manage] → [Installed]

2 Select the application

3 [Uninstall] → [Uninstall]

- When [Refund] is not displayed for charged applications, this means that the free trial period has ended.

Osaifu-Keitai

"Osaifu-Keitai service" is a function which allows you to make payment or to use as a point card just by holding the terminal over the IC card reader in stores etc.

You can save electronic money and points to an IC card of the terminal. Also, you can check balance of electric money and point value on the screen. By locking Osaifu-Keitai functions, you can prevent the terminal from being used without your permission in case of theft or loss.

For details on Osaifu-Keitai, refer to XXXXX website.

- A setting from the dedicated website or application is required to use Osaifu-Keitai compatible services.
- Data in the IC card* may be lost or modified because of the malfunction of the terminal (when we repair your terminal etc., as we cannot repair it with data remained, you are required to erase the data yourself). For more information about reissuing and restoring data, and support for saving and transferring data, contact the Osaifu-Keitai compatible service provider. For important data, be sure to use an Osaifu-Keitai compatible service with backup service.
- If the data in the IC card is lost, modified or damaged by any means related to Osaifu-Keitai compatible service such as malfunction or model change, XXXXX assumes no responsibility for the loss of data.
- If the terminal is stolen or lost, immediately contact XXXXX and the Osaifu-Keitai compatible service provider you using for advices.

- * Data saved in IC card installed to Osaifu-Keitai compatible terminal

◆ Using "Osaifu-Keitai service"

To use Osaifu-Keitai compatible service, set the service from the "Osaifu-Keitai" application.

1 From the Home screen, → [Tools] → [Osaifu-Keitai]

- If the initial setting has not yet made, the initial setting screen appears. Follow the on-screen instructions to set.

2 Select a service

3 Set up the service

- Make required settings from the service application or website.

4 Hold mark over a card reader

✓INFORMATION -----

- You can use just by holding over an IC card reader without activating an Osaifu-Keitai-compatible application.
- Although it is available when the power of the terminal is turned OFF, in case that the terminal has been powered off for a long period of time or battery level is low, or during a given time immediately after the power is turned ON, you may not use the function.

- Note that Osaifu-Keitai compatible applications perform background communication necessary for providing the Osaifu-Keitai service regardless of the setting of Battery Saver or Data Saver of the terminal and that may incur packet communication charge.→P140, P145
- When the terminal is turned on or restarted, or after the software is updated, unlock the screen lock and then hold the terminal over an IC reader to use the Osaifu-Keitai service.
- Note that a part of Osaifu-Keitai services may not be available for a communication method other than sp-mode depending on your Osaifu-Keitai compatible service.
For ahamo, sp-mode is not available.

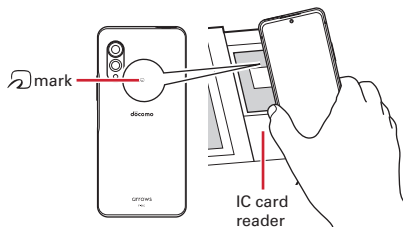
◆ Contactless payments

Enable or disable the setting of the service available by holding the terminal over the IC card reader, such as Osaifu-Keitai service.

- 1 From the Home screen, []→[Settings]→[Connected devices]→[Connection preferences]**
- 2 [NFC/Osaifu-Keitai]→[Contactless payments]**
The screen indicating application used for contactless payments appears.

◆ Notes when holding over the other device

Pay attention to the following when holding the terminal over a card reader, NFC module equipped device, etc.



- Bring  mark close to the device slowly, do not hit it strongly.
- Hold  mark over the center of the compatible device in parallel. If scanning fails even with it held over the center of the scanner, slightly lift up the terminal, or move it backward/forward or to the left/right.
- If there are metal objects between  mark and the other device, scanning may fail. Putting the terminal into a case or cover may affect communication. In that case, remove the case or cover.

◆ Locking the Osaifu-Keitai function

Lock the Osaifu-Keitai function while the screen is OFF or locked.

- Osaifu-Keitai lock is different from the screen lock or SIM card lock of the terminal.

1 From the Home screen,  → [Tools] → [Osaifu-Keitai]

2  → [NFC/Osaifu-Keitai]

3 Tap [NFC/Osaifu-Keitai lock ON/OFF] to set ON/OFF

◆ iDアプリ (iD application)

"iD" refers to electronic money offered by XXXXX. You can enjoy shopping simply and conveniently just by holding Osaifu-Keitai with "iD" set over the IC card reader in stores. You can register multiple card information and use either one according to privilege etc.

- To use iD with your Osaifu-Keitai, you need to configure settings using the iD application. For details, contact your card issuer.
- The charges required for iD service (including the annual charge) vary by card issuer.
- Setting up the iD application or checking its information overseas will incur packet communication charges that are different from those in Japan.
- For information on iD application, refer to iD website (<https://id-credit.com/> (in Japanese only)).

radiko+FM

To listen to FM radio broadcast, connect the earphone (commercially available)* to the USB Type-C jack of the terminal as an antenna.

- * Use the cable with a length of 0.6 m to 1.5 m. For stable FM broadcast reception, it is recommended you use the cable with a length of 1.0 m or longer.
Use an analog Type-C earphone cable (commercially available) or analog Type-C earphone conversion adapter (commercially available). Digital method is not supported for FM broadcast.

1 From the Home screen,  → [Tools] → [radiko+FM]

- For details on how to use radiko+FM, see "ラジオの楽しみ方 (How to enjoy radiko)" or Help from .

Lalasia Connect

You can manage your mental and body health with this application based on your data such as steps/speed of walking, heart rate, hours of sleep, and blood pressure (by user's entry).

1 From the Home screen, [Home] → [arrows] → [Lalasia Connect]

The initial setting screen (entry screen of birth date, height, weight, etc.) appears.

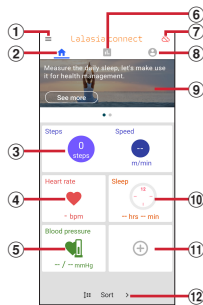
2 Enter each data → [Start]

The main screen of Lalasia Connect appears.

- Input exact figures for age, gender, height, weight, etc. Measurement is performed based on the input data.

◆ Measuring in Lalasia Connect

In the Lalasia Connect main screen, you can perform each measurement using the terminal.



Main screen

① Menu

- Display the information such as settings or help.

② Measurement menu

- Display the measurement/entry menu in the main screen.

③ Steps and walking speed

- Measure and display steps, walking speed, burned calories, burned fat, exercise counter, etc.

④ Heart rate

- Measure your heart rate by face recognition using the in-camera and display the result.

⑤ **Blood pressure record**

- Enter the maximal blood pressure/minimal blood pressure and pulse rate measured your hemomanometer to record them.
- You can also enter the value automatically by shooting the measured result on your hemomanometer using the camera.

⑥ **Ranking**

- Display your ranking based on measured/entered values among the same age users

⑦ **Data transfer**

- Synchronize the Lalasia Connect data with the cloud.

⑧ **Profile**

- Edit and display the basic data such as birthday, height, weight.

⑨ **Message**

- Display a simple message or advice according to the vital information measured/entered with the terminal.

⑩ **Sleep**

- Place the terminal by your pillow to measure your sleep time and depth of sleep while sleeping and display the result.

⑪ **Link item***

- Link Google Fit to obtain nutritional information, height, weight, etc.

⑫ **Sort**

Sort the panels of pulse rate, blood pressure management, etc.

* To use the link item, log in to Lalasia Connect.

✓ **INFORMATION** -----

- For measuring heart rate, confirm the note about measurement environment, for example, measuring in a bright room preferably, or avoiding covering forehead by front hair, before starting measurement.
 - Measurement may not work depending on ambient environment or measurement condition.
 - You cannot use this application for the purpose of medical practice.
- For other functions or operations, tap ≡ to [Help·FAQ], etc.

FAST Memo

Take memos (text or voice) or pictures quickly during operation. Also, you can set whether to always display icons on the lock screen.

1 From the Home screen, → [arrows] → [FAST Memo]

- You can also launch FAST Memo by the following procedure: From the Home screen,  → [Settings] → [arrows feature select] → [FAST Memo] → [TRY IT].

2 → [Text Memo]/[Voice Memo]/[Photo Memo]

3 Save a memo according to the on-screen instructions

- Tap the saved memo to display/play it.

✓INFORMATION

- To display icons on the lock screen, from the Home screen,  → [arrows] → [FAST Memo] →  → [Launch FAST Memo] → [Launch FAST Memo] and select the item.
- If you use [Voice Memo] during a call, the contents of the call will not be recorded.

FAST AR Size Checker

Display a box of specified dimensions using the camera (AR display) and get closer to the box or see the back of it to experience the feeling of sizes of various objects.

1 From the Home screen, → [arrows] → [FAST AR Size Checker]

- You can also launch FAST AR Size Checker by the following procedure: From the Home screen,  → [Settings] → [arrows feature select] → [FAST AR Size Checker] → [TRY IT].

2 → Enter [Width], [Height], and [Depth] → [ENTER]

3 Aim the camera at a level location, move it slowly, and then tap the position to place the box

The box with the dimension you specified is displayed on the place you aim the camera.

- Tap [cm] to change the unit.
- Tap  to shoot a still image with the box displayed.

Displaying information : Tap the box

Moving the box : Drag the circle at the bottom of the box

Changing the box orientation : Double-tap the box

Rotating the box horizontally : Twist the box with two fingers to rotate it

✓INFORMATION

- As the box seen through AR display is used to check the feeling of the size, it does not guarantee the exact size.

FAST Share

Still images/videos you shot can be shared easily and quickly without installing a specific application.

- Set the tethering function to OFF in advance.

1 From the Home screen, → [arrows] → [FAST Share]

- You can also launch FAST Share by the following procedure: From the Home screen,  → [Settings] → [arrows feature select] → [FAST Share] → [TRY IT].

2 [Start] → [1 Connecting devices]

Connection via QR code : [QR code] → Read the QR code from the device to connect → Perform connection operation with the other device

Connection via NFC : [NFC] → Put the device with [NFC/Osaifu-Keitai] set to ON on the terminal → [CONNECT] with the other device

3 [2 Display the Shared album]

Connection via QR code : [QR code] → Read the QR code from the device to connect → The browser of the other device opens

- Open the browser with the other device as necessary.

Connection via NFC : [NFC] → Put the device with [NFC/Osaifu-Keitai] set to ON on the terminal → The browser of the other device opens

4 [3 Back to Shared album]

5 [Add photos] → Tap the still image/video to share

The still image/video is displayed on the sharing album and the browser of the connected device and can be shared.

Add :  → Tap the still image/video you want to share

Save : [Select photo] on the browser of the connected device → Place a check mark on the still image/video you want to save → [Download]

Settings :  → Set required items

Add device to connect : [Connecting] → [Add] → Perform steps 2 to 4

Disconnect : [Connecting] → [Disconnect] → [Exit]

✓ INFORMATION

- You can connect up to 10 devices.
- For the browser of the device to connect, it is recommended you use Chrome for an Android OS device and Safari for an iOS device.
- If the still image/video is not displayed on the browser of the other device in Step 3 ([2 Display the Shared album]), tap [2 Display the Shared album] → Tap [When it is not displayed in the other party's browser] to check the settings.
- While [NFC/Osaifu-Keitai] is OFF, connection via NFC is not available. Unlock NFC/Osaifu-Keitai and perform operations again.

Location data/GPS

You can use the GPS function on the terminal and a compatible application to check your current location or search for routes to your destination.

- The terminal is equipped with GPS receiver using satellite signal for measuring current location. When using GPS function, a packet communication charge may be applied.

◆ Using the GPS function

- Note that XXXXX is not liable for any damages that may occur as a result of irregularities in the GPS system.
- Note that XXXXX is not liable for pure economic loss if you cannot confirm the positioning (communication) result with the terminal because of failure, malfunction or external factors such as power failure (including battery exhaustion).
- You cannot use the terminal as a navigation system for aircraft, vehicles, persons, etc. For this reason, note that XXXXX is not liable for losses incurred by navigation performed by using location information.
- You cannot use the terminal as a high-accuracy measurement GPS. Note that XXXXX shall have no liabilities whatsoever even if you suffer damage or loss due to a deviation of the location information.
- GPS is a service operated by the USA Department of Defense, so the GPS radio wave condition may be controlled (accuracy degraded, radio wave suspended, etc.) for reasons of US national security.
- Wireless communications products (mobile phones, data detectors, etc.) might interfere with satellite signals and cause signal reception to become unstable.

- The displayed map based on the acquired location information (latitude and longitude information) may be inaccurate because of the legal system in each country and area.

■ Where radio waves are difficult to receive

Note that since GPS is using radio waves for satellites, under the following conditions, radio waves might not be able to be received or might be difficult to receive. Also, do not cover the GPS antenna (→P36) with your hand.

- Inside or immediately under a building
- Inside a basement or tunnel, and in the ground or water
- Inside a bag or box
- In buildings-clustered or residential area
- Inside or under a thick covering of trees
- Near a high-voltage cable
- In a car, inside a train compartment
- Bad weather such as heavy rain or snow
- When there are obstructions (people or objects) near the terminal

◆ Precautions for using electronic compass

An electronic compass is equipped with the terminal and it senses the faint fluctuation in the magnetic field of the earth to calculate directions.

- The electronic compass calculates directions by sensing the faint fluctuation in the magnetic field of the earth. Therefore, the magnetic field may not be sensed or a direction may not be displayed correctly when the terminal is used inside or near buildings (including underground shopping area), vehicles, metal facilities (an elevator etc.), metal equipment (a guardrail, pedestrian bridge, etc.), high-tension wires, wires, rocks containing magnetism, metal (metal desk, locker, etc.), permanent magnet (a magnetic necklace, bag fastening, etc.), home appliances (a TV, computer, speaker, etc.).
- When an application such as "Maps" cannot calculate directions correctly, adjust the electronic compass.

◆ Adjusting the electronic compass

■ Operation method

While using an application such as "Maps" that uses the electronic compass, move the terminal like describing a big figure of "8", twisting your wrist for around 10 seconds.

◆ Setting Location

Allow applications to use location information.

- Items or displays may vary depending on the version of the application.

- 1** From the Home screen,  → [Settings] → [Location]
- 2** Tap the button at the upper right of the screen to turn [Use location] to On
The user agreement screen appears.
- 3** [AGREE]
- 4** [Location services] → [Google Location Accuracy]
- 5** Tap the button at the upper right of the screen to turn [Improve Location Accuracy] to ON

✓INFORMATION

- To measure highly accurate location information, use GPS in a place with sky view.
- Note that this function increases power consumption.

◆ Google Maps

The Google Maps application lets you measure your current location, find locations and calculate routes.

- To use Google Maps, a network connection via 5G/4G/3G/GSM network or Wi-Fi is required.
- To measure your current location, turn [Use location] to ON in advance. → P124
- Google Maps do not cover all countries and cities.

1 From the Home screen, [Google] → [Maps]

- For operations of Google Maps, tap the Google account icon on the upper right of the screen → [Help & feedback] to check how to use, etc.
- When the confirmation screen for changing location information settings and accuracy setting for measuring current location, follow on-screen instructions.

Schedule

You can manage your schedule.

1 From the Home screen, → [Tools] → [Schedule]

The calendar screen appears.

- If a screen for access to cloud services appears, tap [クラウドサービスを設定する (Set cloud service)] or [後で設定する (Not now)].

◆ Registering schedule

1 On the calendar screen,

2 Set required items → [Save]

Schedule is registered.

◆ When the notification date/time is reached

If you set alarm when registering schedule,  appears on the status bar when set date/time is reached.

1 Open the Notification panel → Tap the notification

Detailed screen appears.

◆ Displaying schedule

Display information of registered schedule.

1 On the calendar screen, tap a day → Tap a schedule you registered

2 Check the schedule

Editing schedule : [Edit] → Edit schedule → [Save]

Deleting schedule : [Delete one] → [DELETE]

✓INFORMATION

- From the calendar screen, tap  to perform various operations such as settings.
- From the calendar screen, tap  to perform various operations such as jumping date.

Clock

You can use the alarm, clock (world clock), timer, stopwatch, and bedtime.

- In the Alarm/Clock (world clock)/Timer/Stopwatch/Bedtime screen,  → Tap [Settings] to make Clock settings.

◆ Displaying Clock (world clock)

1 From the Home screen,  → [Tools] → [Clock]

The clock screen is displayed.

- When the clock (world clock) is not displayed, tap [Clock] in the clock screen.

✓INFORMATION

- To display the world city time in the clock (world clock) screen,  → Enter city name → Select a city.

◆ Using alarms

1 From the Home screen,  → [Tools] → [Clock]

2 [Alarm]

The alarm screen is displayed.

3  → Set a time → [OK]

4 Set required items

Add label : Enter a label.

Today/Tomorrow : The alarm sounds at the specified time of today or tomorrow if a day is not specified.

 /  : Set ON/OFF of created time of alarm.

Day : Set the day(s) to sound the alarm.

 : Set the alarm sound.

Vibrate : Set ON/OFF of Vibrate.

Google Assistant Routine : Set the Google Assistant routine functions.

Dismiss : Displayed within 2 hours until the alarm sounds to cancel the alarm.

Delete : Delete alarm while creating.

✓ INFORMATION

- To delete an alarm in the alarm list, tap  of alarm to delete → .
- To undo deleting, tap [undo] displayed at the bottom right of the screen immediately after deleting.

◆ Using timer

1 From the Home screen,  → [Tools] → [Clock]

2 [Timer]

The timer screen is displayed.

3 Enter a time → 

The countdown starts.

4 When the countdown ends, 

Pausing the countdown : During the countdown, 

- To restart the countdown, tap .

Resetting the countdown : While pausing the countdown, [Reset]

Deleting a timer : 

Adding a timer :  → Enter a time → 

- Slide up or down the timer screen to display another timer.

Adding 1 minute : During the countdown, [+1:00]

- Add 1 minute for countdown every time it is tapped.

◆ Using Stopwatch

1 From the Home screen,  → [Tools] → [Clock]

2 [Stopwatch]

The stopwatch screen is displayed.

3 

The measurement starts.

Adding a lap time : While measuring, 

Pausing the measurement : While measuring, 

- To restart the measurement, tap .

Resetting the measurement : While measuring or pausing, 

◆ Using Bedtime

Set the display brightness at bedtime and wake-up time, or set the alarm when you fall asleep or you wake up to help you sleep regularly.

1 From the Home screen,  → [Tools] → [Clock]

2 [Bedtime]

The Bedtime screen appears.

- If the explanation screen appears, follow the on-screen instructions.

3 Tap each card → Set each item

Schedule : Set the bedtime, wake-up time, notification, display, and alarm sound, etc.

See recent bedtime activity* : Check the terminal usage during the bedtime.

Listen to sleep sounds* : Set the sound when you fall asleep or time to stop it.

See your upcoming events* : Check the upcoming events.

* This displayed item may be different depending on the settings.

Calculator

1 From the Home screen,  → [Tools] → [Calculator]

2 Calculate

Deleting the input numbers and symbols : 

Deleting all mathematical expressions : 

Displaying the function pad : 

- Alternatively, tilt the terminal horizontal to display the function pad.

✓ INFORMATION

- When calculation result is displayed, you can add a mathematical expression to the result.

Search

Use "Google" application to search.

- Items or displays may vary depending on the version of the application.

◆ Google Search

You can search in the website by entering keywords. By signing in to your Google account, you can use the search history, the latest information concerning topics about your interest, etc.

1 From the Home screen, [Google]→[Google]

2 Enter a keyword

Search suggestions appear according to the character entry.

- Enter characters and tap  to display search results in the website.

3 Select from search results

◆ Voice Search

You can search in the website by entering keywords by voice.

1 From the Home screen, [Google]→[Google]→

→Say a keyword to the mouthpiece/microphone

- Tapping  displays  on the upper right of the screen for a few seconds.

2 Select a search result from the website

✓INFORMATION

- For details on Google Search, tap the account icon on the upper right of the Google Search screen →[Help & feedback] to see Help.

XXXXX Data Copy

With "XXXXX Data Copy", you can copy the data saved in the terminal to another terminal, or back up/restore the data.

Use this application for transferring the data when you change the model, or backing up your important data at regular intervals.

- Depending on the model, OS, or file format, copying, backing up or restoring may not be performed correctly.
- The phonebook data registered as XXXXX account can be copied or backed up.
- When the remaining battery gets low, copy, backup, or restoration may not be executed.
- For details of XXXXX Data Copy, refer to XXXXX website.

◆ Data transfer

You can copy your data such as phonebook, images, etc. to another terminal with one-to-one direct communication, not using the Internet.

Activate "Data Copy" of both the source terminal and the destination terminal, and line them up before use.

1 From the Home screen, →[Tools]→[Data Copy]→[Data transfer]

- Follow the on-screen instructions.
- Installing this application is required for both the source terminal and the destination terminal. Available for download from XXXXX website, if it is not installed yet.

◆ Backing up/Restoring

You can transfer or back up/restore the data such as phonebook entries or images using a microSD card.

- Do not remove the microSD card or turn off the terminal during backup or restoring. The data may be damaged.
- The phonebook data without name cannot be backed up.
- When available memory space of the terminal or microSD card is not enough, backup or restore may not be executed.
- You can back up only the data such as still images or movies stored in the terminal with this application. The data stored in a microSD card cannot be backed up.
- Periodical backup is not executed at the specified time while the screen is locked or Battery Saver is enabled and will be executed when activating the function is available next time.

❖ Backup

Back up the phonebook data, media files, etc.

1 From the Home screen, →[Tools]→[Data Copy]→[Backup & Restore]

2 [Backup]→[Start backup]→[BACKUP]

- The selected data is saved to a microSD card.

3 [Back to top]

❖ Restoring

Restore the phonebook data, media files, etc. backed up to a microSD card to the terminal.

1 From the Home screen, →[Tools]→[Data Copy]→[Backup & Restore]

2 [Restore]→[next]→[Restore]→[RESTORE]

- Selected data is restored to the terminal.

3 [Back to top]

- When the periodical backup schedule is not set, "Set a backup schedule" appears. Operate following the on-screen instructions.

❖ Copying phonebook contacts to XXXXX account

Copy phonebook data registered to your Google account or the terminal to your XXXXX account.

1 From the Home screen,  → [Tools] → [Data Copy] → [Backup & Restore]

2 [Phonebook account copy] → [Select] for contacts to copy → [OVERWRITE]/[ADD]

- Copied phonebook is saved to your XXXXX account.

3 [OK]

Easy data transfer support

You can transfer various data such as phonebook, schedule, photos, and videos to the terminal by using a microSD card.

- Make a backup of the data to transfer on the mobile phone to a microSD card in advance.
For making a backup method, refer to the operation manual of the mobile phone.

◆ Restoring

1 From the Home screen,  → [arrows] → [Easy data transfer support]

2 Place a check mark on the data to restore → [Start Copy]

- After that, follow the on-screen instructions.

✓ INFORMATION

- Depending on the model you are using or the type of data, you cannot transfer data.

Settings

Settings menu

Make various settings from the Settings menu.

1 From the Home screen, → [Settings]

The setting menu appears in a list.

- Tap [Search settings] to search the item of the Settings menu.

Category		Page
Network & internet	Wi-Fi	P133
	Mobile network	P136
	Airplane mode	P138
	Hotspot & tethering	P139
	Data Saver	P140
	VPN	P141
	Private DNS	P141
Connected devices	Pair new device	P179
	Previously connected devices	P180
	Connection preferences	P142
	Codec preferences	P142
Apps		P143
Notifications		P144
Battery and device care		P145
Storage		P146

Category		Page
Homescreen selector		P71
Display		P146
Wallpaper		P148
Sound		P149
Call settings		P88
Accessibility		P150
Security		P152
Privacy		P159
Location		P124
Safety & emergency		P159
arrows feature select		P160
XXXXXX service/cloud		P168
Passwords & accounts		P169
Digital Wellbeing & parental controls		P170
Google		P170
System	Languages & input	P171
	Gestures	P172
	Pedometer	P173
	Date & time	P174
	Backup	P174
	Reset options	P175
	System update	P197
	Hardware Feedback	P176
	Send diagnostic data	P176
About phone		P176

Wi-Fi

Connect to home network, company network, or wireless LAN access points for public wireless LAN services using Wi-Fi function of the terminal to use mail and Internet. To connect to a wireless access point, set the connection information.

■ Reception interference caused by Bluetooth function

Wireless LAN (IEEE802.11b/g/n) and Bluetooth function use the same frequency band (2.4 GHz). Therefore, if you use the wireless LAN function and Bluetooth function at the same time, reception interference may occur and the communication speed may lower, noise may occur, or connection may not be established. Do not use them simultaneously.

Also, the similar phenomenon may occur when a Bluetooth device is used nearby even if you use only the wireless LAN function of the terminal. In these cases, do the following.

- Keep the terminal approximately 10 m or more away from a Bluetooth device.
- If you use within approximately 10 m, turn off the Bluetooth device.

◆ Turning Wi-Fi to On to connect network

1 From the Home screen,  → [Settings] → [Network & internet] → [Wi-Fi]

2 Set [Use Wi-Fi] to ON

3 Select a Wi-Fi network

- When a protected Wi-Fi network is selected, enter the password and then tap [CONNECT].

✓INFORMATION

- Even when Wi-Fi function is on, packet communication is available. However, while Wi-Fi network is connected, Wi-Fi takes precedence. When a Wi-Fi network is disconnected, connection is automatically switched to 5G/4G/3G/GSM network. Note that packet communication charge may be applied if network connection stays switched.
- To use XXXXX services via Wi-Fi, you need to set up your d ACCOUNT. To set up, from the Home screen,  [Settings] → [XXXXX service/cloud] → [d ACCOUNT setting] and operate.
- When you save multiple Wi-Fi networks, to switch the connection, select a Wi-Fi network to switch to. The current Wi-Fi network is disconnected and the selected Wi-Fi network is switched automatically.
 - * The information of disconnected network is not deleted. You can reconnect it by connecting operation.
- is displayed when the terminal connects an access point  which is not connected to the Internet and communication may be performed via mobile network, not Wi-Fi.
- To connect the terminal to an access point which is not connected to the Internet, tap the "XXXX has no internet access" (XXXX is access point name) notification and tap [YES]. To omit this operation, mark [Don't ask again for this network] and tap [YES]. In addition, as the terminal may not reconnect automatically to an access point which is not connected to the Internet, be sure to tap to connect.

◆ Adding Wi-Fi network

Enter network SSID or security information to add Wi-Fi network manually.

- Set Wi-Fi to On in advance.

1 From the Home screen,  → [Settings] → [Network & internet] → [Wi-Fi]

2 [Add network]

- Alternatively, tap  and scan the QR code to add a network.

3 Enter a network SSID of Wi-Fi network to add → Select security

- For security, [None], [Enhanced Open], [WEP], [WPA/WPA2-Personal], [WPA3-Personal], [WPA/WPA2-Enterprise], [WPA3-Enterprise], or [WPA3-Enterprise 192-bit] can be set.

4 Set additional security information and advanced options as required → [SAVE]

- For hidden Wi-Fi network whose stealth function is enabled, set [Hidden network] to [Yes].

◆ Deleting Wi-Fi network connecting information

1 From the Home screen,  → [Settings] → [Network & internet] → [Wi-Fi]

2 Select the connected Wi-Fi network → [FORGET]

- When [SHARE] is displayed, tap [SHARE] to display the QR code and share the currently connected Wi-Fi access point.
- Tap  edit the Wi-Fi network settings.
- Tapping [DISCONNECT] allows the terminal to disconnect from the network without deleting it.
- If [Auto-connect] is set to ON, the terminal connects to the specified network automatically when it is detected.

◆ Connecting other devices with Wi-Fi Direct

Connect between Wi-Fi Direct devices without routing an access point etc.

- Set Wi-Fi to On in advance.
- To exchange data such as videos or still images using Wi-Fi Direct, download an application compatible with data exchange via Wi-Fi Direct from Play Store and install it.

1 From the Home screen,  → [Settings] → [Network & internet] → [Wi-Fi]

2 [Wi-Fi preferences] → [Wi-Fi Direct]

- When a Wi-Fi Direct device does not appear, tap  → [Search for devices].

3 Tap the detected Wi-Fi Direct device

Disconnecting Wi-Fi Direct device : Tap the connected Wi-Fi Direct device → [OK]

■ When connection request is sent from the other Wi-Fi Direct device

When an invitation screen for connecting appears, tap [ACCEPT].

◆ Turning on Wi-Fi automatically

Wi-Fi function can be automatically turned on when a high-quality saved Wi-Fi network is detected.

- Turn on [Location] in advance. → P124

1 From the Home screen,  → [Settings] → [Network & internet] → [Wi-Fi]

2 [Wi-Fi preferences] → Set [Turn on Wi-Fi automatically] to ON/OFF

✓INFORMATION

- In the following cases, this function does not work.
 - [Airplane mode] is set to ON
 - Hidden Wi-Fi network whose stealth function is enabled
 - Immediately after Wi-Fi is turned off manually (it takes for a while to resume detection)
 - When [Auto-connect] is disabled for a saved network

◆ Wi-Fi preferences

1 From the Home screen,  → [Settings] → [Network & internet] → [Wi-Fi]

2 [Wi-Fi preferences]

3 Set each item

Turn on Wi-Fi automatically : Setting steps → P135

Notify for public networks : Set whether to notify when a high-quality open Wi-Fi network is available.

Install certificates : Install the certificates.

Wi-Fi Direct : Setting steps → P134

◆ Wi-Fi data usage

Wi-Fi data usage is displayed in a graph. Also, Wi-Fi data usage amount per application can be checked.

1 From the Home screen,  → [Settings] → [Network & internet] → [Wi-Fi]

2 [Wi-Fi data usage]

Mobile network

Make the settings related to the mobile data communication.

1 From the Home screen,  → [Settings] → [Network & internet] → [Mobile network]

2 Set each item

Use SIM : Set whether to use the SIM card.

Mobile data : Setting steps → P136

Data roaming : Setting steps → P185

App data usage : Mobile data usage is shown in a graph. Also, mobile data usage per application can be checked.

Data warning & limit : Setting steps → P138

4G Calling : Set whether to improve sound or other call qualities by using 4G service.

Preferred network type : Setting steps → P186

Automatically select network : Setting steps → P186

Choose network : Set a network to use.

- It cannot be set when [Automatically select network] is ON.

Access Point Names : Setting steps → P137

◆ Downloading eSIM

When you use eSIM for the first time, download SIM information required for communication and setup is required.

1 From the Home screen,  → [Settings] → [Network & internet] →  of [Mobile network]

2 [Download a SIM instead?] → [Next]
Follow the on-screen instructions.

✓INFORMATION

- By using the nano SIM card and eSIM at the same time, you can select which SIM you use for functions such as phone, internet access via mobile network (packet communication), etc.
- If you are using the nano SIM card and eSIM at the same time, displayed items or operations may differ.

◆ Mobile data

Set the Internet access (packet communication) via mobile network to ON/OFF.

1 From the Home screen,  → [Settings] → [Network & internet] → [Mobile network]

2 Tap [Mobile data] to set ON/OFF

✓INFORMATION

- Some applications automatically perform packet communications. Packet communication is kept active unless you disconnect it or the time-out error occurs. Switch ON/OFF of [Mobile data] as required.

◆ Setting access point

The access point for accessing the Internet (sp-mode) is registered by default and you can add or change it if necessary. For details of sp-mode, refer to XXXXX website. <https://www.XXXXX.ne.jp/service/spmode/> (in Japanese only)

- When the tethering function is enabled, setting access point is not available. → P139

❖ Checking the access point in use

- 1 From the Home screen,  → [Settings] → [Network & internet] → [Mobile network] → [Access Point Names]

The APN list appears.  is displayed for the access point in use.

❖ Setting an additional access point <New APN>

- Do not change the MCC/MNC to other than 440/10. The setting disappears from the screen.

- 1 From the Home screen,  → [Settings] → [Network & internet] → [Mobile network] → [Access Point Names]

2 [+]

The screen for editing the access point appears.

- 3 [Name] → Enter a network profile → [OK]

- 4 [APN] → Enter an access point name → [OK]

- 5 Enter other items required by network operator →  → [Save]

✓INFORMATION

- If you have changed MCC/MNC settings and they do not appear on the screen, initialize the access point or set the access point manually.

❖ Initializing an access point

By initializing an access point, the default state is restored.

- 1 From the Home screen,  → [Settings] → [Network & internet] → [Mobile network] → [Access Point Names]

- 2  → [Reset to default]

✓INFORMATION

- You can delete access point one by one by tapping an access point on the APN list screen → On the access point editing screen, tap  → [Delete APN].

◆ Data warning & limit

Set a cycle of data usage (measuring period), a data warning value, or upper limit of data usage.

1 From the Home screen,  → [Settings] → [Network & internet] → [Mobile network] → [Data warning & limit]

2 Set required items

✓INFORMATION

- You can also set from the Home screen,  [Settings] → [Network & internet] → [Mobile network] → [App data usage] → 
- As the displayed data usage amount is an estimation, it may be different from the actual data usage amount.
 - For customers who subscribe to a rate plan other than ahamo
Check the actual data usage amount from My XXXXX.
 - For customers who subscribe to ahamo
Check the actual data usage amount from the ahamo website. (in Japanese only)
- If the data usage reaches the specified upper limit, the notification screen indicating that the mobile data communication is paused appears. To resume the mobile data communication, tap [RESUME].

Airplane mode

Set Airplane mode to disable wireless function (call, packet communication, Wi-Fi, tethering, Bluetooth function) of the terminal. However, Wi-Fi, tethering, and Bluetooth functions can be turned ON manually in Airplane mode.

1 From the Home screen,  → [Settings] → [Network & internet]

2 Turn [Airplane mode] to ON

✓INFORMATION

- While a Bluetooth device for sound communication such as earphones is connected to the terminal, it will keep connected to the Bluetooth device even when Airplane mode is turned ON.

Hotspot & tethering

Tethering is a function that allows external devices connected via Wi-Fi, USB cable, or Bluetooth communication to connect to the Internet by using a mobile device such as smartphone as a modem.

- While tethering is enabled, for using sp-mode function other than Internet connection and mail service, authentication may not be available or sign in by d ACCOUNT may be required. When authentication is not available, disable tethering and then use the terminal.
- When you connect to Internet using tethering, Wi-Fi device applications such as web browser or game may not work properly depending on the usage environment.
- If you want to use tethering, subscription to Packet Pack/ packet flat-rate service is strongly recommended.
- Up to 15 devices (Wi-Fi hotspot : 10, USB tethering : 1, Bluetooth tethering : 4) in total can be connected at the same time. (Ethernet tethering is not included.)

◆ Wi-Fi hotspot

You can use the terminal as a Wi-Fi access point to connect Wi-Fi devices to the Internet.

- Up to 10 Wi-Fi devices can be connected at the same time.
- Only 2.4 GHz is supported for tethering.

- 1 From the Home screen,  → [Settings] → [Network & internet] → [Hotspot & tethering]

- 2 [Wi-Fi hotspot] → Tap the button at the upper right of the screen to turn [Use Wi-Fi hotspot] to ON

◆ Setting Wi-Fi hotspot

Change the settings as required.

- 1 From the Home screen,  → [Settings] → [Network & internet] → [Hotspot & tethering] → [Wi-Fi hotspot]
- 2 Enter a hotspot name → Select a security → Enter a hotspot password
 - Security can be set to [WPA3-Personal], [WPA2/WPA3-Personal], [WPA2-Personal], or [None].
 - Alternatively, tap  and scan the QR code to share the hotspot.

✓ INFORMATION

- In Step 2, if you set [Turn off hotspot automatically] to ON, Wi-Fi hotspot will turn off automatically when the terminal remains with no connection to Wi-Fi device.

◆ USB tethering

Connect the terminal to a PC using USB cable A to C 02 (optional) to use the terminal as a modem to access the Internet.

1 Connect the terminal and a PC with the USB cable A to C 02

The USB preferences screen appears.

2 [USB tethering]

✓INFORMATION

- Operations for Windows 8.1, Windows 10, and Windows 11 PCs are confirmed. Note that XXXXX does not guarantee the operations of every PC.

◆ Bluetooth tethering

You can connect Bluetooth devices to the Internet.

- Up to 4 Bluetooth devices can be connected at the same time.
- Pairing with Bluetooth devices is required in advance. → P179

1 From the Home screen, [Settings] → [Network & internet] → [Hotspot & tethering]

2 Set [Bluetooth tethering] to ON

✓INFORMATION

- For settings of the Bluetooth device, refer to the operation manual of the Bluetooth device.

◆ Ethernet tethering

You can connect an Ethernet device to the Internet by using the terminal as an access point via an Ethernet conversion adapter.

1 Connect the terminal and an Ethernet device with a USB to Ethernet conversion adapter and Ethernet cable

2 From the Home screen, [Settings] → [Network & internet] → [Hotspot & tethering]

3 Set [Ethernet tethering] to ON

Data Saver

Set whether to save the data usage.

1 From the Home screen, [Settings] → [Network & internet] → [Data Saver]

2 Set [Use Data Saver] to ON

- To set applications not to limit the data usage, tap [Unrestricted data].

VPN (Virtual Private Network)

VPN (Virtual Private Network) is a technology to connect to the information in a protected local network such as enterprises or universities from another network. To set up a VPN connection from the terminal, you need to retrieve the information related to security from your network administrator.

◆ Adding VPN

1 From the Home screen,  → [Settings] → [Network & internet] → [VPN]

2 [+]
→ Set each item → [SAVE]

◆ Connecting to VPN

1 From the Home screen,  → [Settings] → [Network & internet] → [VPN]

2 Select a VPN to connect to

3 Enter verification information as required → [CONNECT]

When you are connected to the VPN,  appears on the status bar.

◆ Disconnecting VPN

1 From the Home screen,  → [Settings] → [Network & internet] → [VPN]

2 Select a VPN to disconnect

3 [DISCONNECT]

Private DNS

Set whether to encrypt communication to compatible DNS server automatically, or register a private DNS or DNS provider.

1 From the Home screen,  → [Settings] → [Network & internet] → [Private DNS]

2 Select an item → [SAVE]

- When you tap [Private DNS provider hostname], enter a hostname of DNS provider.

Connection preferences

Configure connections to other devices such as Bluetooth devices.

- This item may not be displayed depending on your usage condition.

1 From the Home screen,  → [Settings] → [Connected devices] → [Connection preferences]

2 Select the item

Bluetooth : Setting steps → P179

NFC/Osaifu-Keitai : Setting steps → P117, P181

Cast : Setting steps → P183

Printing : Setting steps → P182

Files received via Bluetooth : Check files received by other Bluetooth devices.

Chromebook : Link the terminal to Chromebook™.

Nearby Share* : Share files with devices near this terminal.

Android Auto : Use applications on a car display.

* This displayed item may be different depending on your usage condition.

Codec preferences

Make the settings related to codec.

1 From the Home screen,  → [Settings] → [Connected devices] → [Codec preferences]

2 Set each item

Set Qualcomm® aptX™ or Qualcomm® aptX™ HD preference when available : Make settings for Qualcomm® aptX™ or Qualcomm® aptX™ HD.

Enable Qualcomm® aptX™ Adaptive 96KHz sample rate support for high resolution audio when available : Enable/disable Qualcomm® aptX™ Adaptive 96KHz sample rate support for high resolution audio.

Set audio file preference : Make settings for the audio profile.

Set application audio profile preference : Set the audio profile for each installed application.

Apps

Make settings for applications.

1 From the Home screen,  → [Settings] → [Apps]

2 Set each item

Recently opened apps : Applications which are activated recently are displayed. To show all applications, tap [See all XX apps].

Default apps : Set default applications for digital assist, browser, home, call redirecting, phone, caller ID, nuisance call, and SMS, etc.

Screen time : Open the dashboard where you can check usage time etc., or set maximum daily usage per application.

Unused apps : Display apps whose permissions or temporary files are deleted, as they have not been used for a long time.

Special app access : Change the settings for applications which access the functions or information of the terminal.

◆ App info

Manage, delete, etc. installed applications.

❖ Displaying permitted operations for applications

1 From the Home screen,  → [Settings] → [Apps] → [See all XX apps]

2 Select the application → [Permissions]

❖ Deleting app data or cache

1 From the Home screen,  → [Settings] → [Apps] → [See all XX apps]

2 Select the application → [Storage & cache] → [CLEAR STORAGE]/[CLEAR CACHE]

- When [CLEAR STORAGE] is selected, tap [OK].

❖ Deleting applications

- For applications obtained from Play Store, you are recommended to delete from the Google Play screen. → P115
- You cannot uninstall some applications pre-installed by default. And if pre-installed applications are uninstalled, you can restore them by resetting the terminal.

1 From the Home screen,  → [Settings] → [Apps] → [See all XX apps]

2 Select an application → [UNINSTALL] → [OK]

❖ Disabling an application

Disabling application is available for some applications and services that cannot be uninstalled. Disabled applications are not displayed in the applications list screen or the Home screen, or cannot be launched either. However, they are not uninstalled.

1 From the Home screen,  → [Settings] → [Apps] → [See all XX apps]

2 Select an application → [DISABLE]/[ENABLE]
• When [DISABLE] is selected, tap [DISABLE].

✓ INFORMATION -----

- When you disabled an application, some other applications linked to the disabled application may not be operated correctly. In such case, enable the application again to operate them correctly.

❖ Battery optimization

To reduce battery power for each application, disable applications when the terminal is not used or the applications are not used for several days.

1 From the Home screen,  → [Settings] → [Apps] → [See all XX apps]

2 Select the application → [Battery] → [Optimized]

Notifications

Make the settings related to the notifications of applications and functions.

1 From the Home screen,  → [Settings] → [Notifications]

2 Set each item

App settings : Control notifications from individual apps.

Notification history : Check the notification history displayed on the notification panel.

Conversations : Make settings for conversations using a message application displayed on the notification panel.

Bubbles : Set whether to notify a message reception from the specified contact by a floating icon.

Device & app notifications : Control which apps and devices can read notifications.

Notifications on lock screen : Set whether to display default, silent conversations, or notifications.

Sensitive notifications* : Set whether to display highly confidential contents on the lock screen.

Do Not Disturb : Set detail settings for notifications while Do Not Disturb function is activated.

Wireless emergency alerts : Make settings for an emergency alert.

Hide silent notifications in status bar : Set whether to display silent notifications on the status bar.

Allow notification snoozing : Set whether to allow snoozing of notification.

Notification dot on app icon : Set whether to put a dot on the icon to indicate the app notification.

Enhanced notifications : Get suggested actions or replies.

- * Not displayed when you set Security unlock preference is set to [None]/[Swipe].

Battery and device care

Check the remaining amount of battery, etc.

- This displayed item may be different depending on your usage condition.

1 From the Home screen,  → [Settings] → [Battery and device care]

2 Set each item

(Battery usage) : Battery level and estimated remaining battery usage time are displayed.

Battery Usage : Approximate elapsed time since the last full charge and battery usage for each app are displayed.

Battery monitor : Check the status of the battery charge capacity and display predicted future value. View advice to prevent the battery from deteriorating.

Charging for extending battery life : Set whether to charge the battery to 100%, or 85% so as to save the battery life.

Electricity off-peak charging : Set charging times to avoid peaks in power supply and demand.

Battery Saver : Setting steps → P145

5G Optimization : When the screen is OFF, 5G communication is optimized depending on the traffic.

Adaptive Battery : Set whether to learn your usage of applications and automatically restrict battery usage of applications whose battery usage is high.

Battery percentage : Set whether to display the battery level by percentage in the status bar.

Diagnostic support : Diagnose problems when you use the terminal and help fix them. → P164

◆ Battery Saver

Enable/disable Battery Saver.

- When Battery Saver is activated,  appears in the status bar.

1 From the Home screen,  → [Settings] → [Battery and device care] → [Battery Saver]

2 [Set a schedule] → [Based on percentage]

- You can set the battery level at when Battery Saver automatically activates by sliding the slider.
- Set [Turn off when fully charged] to ON to automatically turn Battery Saver OFF when the battery level is 90%.
- Tap [Use Battery Saver] to activate/stop Battery Saver manually.

Storage

Check the usage status of the internal storage or microSD card.

1 From the Home screen, →[Settings]→[Storage]

2 Set each item

THIS DEVICE : Used amount and total amount of memory of the terminal, used amount per data are displayed.

SD CARD : Display the data list of the microSD card. Tap →[Eject] to unmount the microSD card (release recognition) to take out safely. To recognize a microSD card, tap [SD CARD]→ →[Mount].

Storage manager : Set whether to use the storage management tool.

◆ Erasing data in microSD card (Format)

- Be aware that this operation will erase all data in the microSD card.

1 From the Home screen, →[Settings]→[Storage]→[THIS DEVICE]→[SD CARD]

2 →[Format]

3 [FORMAT SD CARD]→[Done]

✓INFORMATION

- When the screen for selecting an application appears, follow the on-screen instructions.

Display

Make the settings related to the screen display such as screen brightness.

1 From the Home screen, →[Settings]→[Display]

2 Set each item

Brightness level : Setting steps→P147

Adaptive brightness : Adjust brightness automatically according to the ambient brightness based on the brightness level specified in [Brightness level].

Lock screen : Set the notifications or message displayed on the lock screen or set to launch camera/Smart Selfy/FAST Memo. Or, you can set to display the notification screen when a notification is received.

Screen timeout : Setting steps→P147

Keep lit when held : Set whether to keep the screen ON while you hold the terminal and motions are detected.

Dark theme : Switch to the theme with a black background.

Font settings : Change the display font.

Font size : Change the font size.

Display size : Enlarge/reduce the size of the displayed icons etc.

Blue Light cut mode : Set whether to cut down blue light emitted from the screen. You can also enable Blue Light cut mode automatically.

Smooth screen display : Set to screen display becomes smooth.

Auto-rotate screen : Set whether to rotate the screen according to the terminal orientation.

- Even when you change the orientation of the terminal, the screen may not change depending on the screen displayed.

Screen saver : Setting steps→P147

Simple Home Settings : Set a sheet to be displayed in Simple Home and set the color scheme of Simple Home.

Simple mode settings : Set the following items collectively. The items that are already set as follows are not changed :

- Setting Home application to Simple Home (→P71)
- Setting Clear Font to ON (→P160)
- Setting easy text input method to ON
- Setting to show  (Back icon),  (Home icon), and  (History icon) in the navigation bar (→P172)
- Changing the screen during call to a simplified one
- You can change the setting of each item from each setting menu individually.

✓INFORMATION

- When  appears in the navigation bar even when [Auto-rotate screen] is set to OFF, you can switch the screen display by tapping.

◆ Screen brightness

Set the screen brightness.

- 1 From the Home screen, →[Settings]→[Display]→[Brightness level]
- 2 Slide the slider to adjust the brightness

◆ Screen timeout

Set a time for turning off of screen backlight.

- 1 From the Home screen, →[Settings]→[Display]→[Screen timeout]
- 2 Select the time

◆ Screen saver

Set the screen saver which is displayed when the terminal goes into the sleep mode or while charging.

- 1 From the Home screen, →[Settings]→[Display]→[Screen saver]
- 2 [Current screen saver]→Select the screen saver to set
- 3 As required, →Set each item
- 4 [When to start]→Select the item
 - Tap [Use screen saver] to activate the screen saver.

◆ Displaying lock screen

Make the settings related to displaying the lock screen.

1 From the Home screen,  → [Settings] → [Display] → [Lock screen]

2 Set each item

Privacy : Set notifications to be displayed on the lock screen.

Add text on lock screen : Enter a message to be displayed on the lock screen.

CO2 reduction/pedometer count progress display : Display CO2 reduction/pedometer progress together with the clock.

Slide to activate camera* : Set whether to activate the out-camera by swiping left the camera icon at the bottom right of the lock screen.

Activate Smart Selfy* : Set how to activate Smart Selfy. By default, [Slide down under the in-camera] is selected.

Launch FAST Memo : Set whether to launch FAST Memo by swiping the FAST Memo icon on the lock screen.

Show device controls : Set whether to display device control on the lock screen.

Always on display : Set whether to always display information on the lock screen.

Double tap to display clock : Set to check information such as time, notification, etc. by double tapping the screen.

Lift to display clock : Set to check information such as time, notification, etc. by lifting the terminal.

New notifications : Set whether to display the notification screen when a notification is received.

* Not displayed when you set Security unlock preference is set to [None].

Wallpaper

Set the wallpaper of the Home screen and lock screen.

1 From the Home screen,  → [Settings] → [Wallpaper]

2 Select the wallpaper type

3 Set according to the on-screen instructions

- Changing the wallpaper also changes the theme color according to the color of the wallpaper.

Sound

Make the settings related to sound such as sound volume, ringtone, Silent mode, etc.

1 From the Home screen,  → [Settings] → [Sound]

2 Set each item

Media volume : Setting steps → P150

Call volume : Setting steps → P150

Ring & notification volume : Setting steps → P150

Alarm volume : Setting steps → P150

Intensity of Vibrate on Ring : Set the intensity of vibration when receiving a call.

Intensity of Vibrate on Notification : Set intensity of vibration when receiving a notification.

Do Not Disturb : Set detail settings for notifications while Do Not Disturb function is activated.

Phone ringtone : Set phone ringtone.

- When ringtone is set for phonebook entry, ringtone for the phonebook entry is given priority.

Dolby Atmos : Turn on/off Dolby Atmos.

Media : Set the panel switch display or set whether to display recommended media when music playback is finished.

Vibrate on ring : Set whether to vibrate while ringtone is sounding.

- Even if it is set to OFF, the vibrator works when [Ring & notification volume] is set to 0.

Shortcut to prevent ringing : Set whether not to sound ringtone or notification sound by pressing Power key and the volume up key at the same time.

- When [Vibrate] is set, the terminal vibrates when receiving a call or notification. When [Mute] is set, the terminal does not sound or vibrate when receiving a call or notification.

Default notification sound : Set the notification sound.

Default alarm sound : Set the alarm sound.

Dial pad tones : Set whether to emit sound when operating the dialpad.

Screen locking sound : Set whether to emit sound when setting or canceling the screen lock by pressing Power key.

Charging sounds and vibration : Set whether to notify by sound and vibration when starting charging.

Touch sounds : Set whether to emit sound when tapping an item, etc.

Touch vibration : Set whether to vibrate the terminal when tapping the icon in the navigation bar, etc.

Vibrate after calling : Set whether to vibrate when a call ends.

◆ Volumes

You can adjust volume of media playback sound, call sound, phone ringtone, and alarm sound.

1 From the Home screen,  → [Settings] → [Sound]

2 Slide the slider of [Media volume]/[Call volume]/[Ring & notification volume]/[Alarm volume] to adjust the volume

✓INFORMATION

- When [Ring & notification volume] is set to 0, vibration turns on. To turn off the vibration, set Mute (→P150) etc.
- Alternatively, you can adjust [Media volume] by pressing the volume key.
- Tap the icon in the screen appeared by pressing the volume key to set Vibrate/Mute.
 - Tap  (display ): Vibration (incoming calls and notifications are notified by vibration)
 - Tap  (display ): Mute (incoming calls and notifications are not notified by vibration)
 - Tap  (display ): Notify incoming calls or notifications in sound volume specified in [Ring & notification volume]

Accessibility

Set for assistance of user operations.

1 From the Home screen,  → [Settings] → [Accessibility]

2 Set each item

Osusume hint : Set to use Osusume hint.

Select to Speak : Set whether to read out selected texts.

Talkback : Select whether to read out items on the screen.

Text and display : Set the font size or display size, and set the thickness of the text, etc.

Extra dim : Set whether to dim the screen beyond the terminal's minimum brightness.

Dark theme : Switch to the theme with a black background.

Magnification : Set whether to zoom in by using a shortcut.

Glove touch : Setting steps→P151

Timing controls : Set the time to detect touch and hold or time period until operations (Accessibility timeout), etc.

System controls : Set up the system navigation or auto rotation of the screen, etc.

Vibration & haptic strength : Set ON/OFF of vibration for incoming calls or notifications, and of feedback for tapping operation.

- For some applications, vibration may not be disabled even when it is set to OFF.

Caption preferences : Set whether to display captions or set the language of captions or font size.

Audio adjustment : Set up the monaural audio or audio balance, etc.

Accessibility shortcuts : Set up the accessibility button and shortcut from the lock screen.

Text-to-speech output : Set up text-to-speech output.

✓INFORMATION

- When the screen goes into sleep mode during a call when [Power button ends call] in [System controls] is set to ON, press Power key to cancel the sleep mode and then press Power key to end the call.

◆ Glove touch

Set whether to increase sensitivity of the touch panel so that touch operations with gloves is possible.

1 From the Home screen, → [Settings] → [Accessibility]

- You can also display the menu following the procedure:
From the Home screen,  → [Settings] → [System] → [Gestures]

2 Tap [Glove touch] to set ON/OFF

✓INFORMATION

- Depending on the material of gloves, touch operations may be difficult.
- If touch operations are difficult, lay your finger so that you touch the screen with the finger pad.
- If you touch the screen without gloves with [Glove touch] ON, an unintended operation may result depending on your touch operation.
- If you put the terminal in a pocket or bag leaving the screen turned on and with [Glove touch] ON, an unintended operation may result. When you put the terminal in a pocket, etc. enable the sleep mode.

Security

Make the settings related to security.

1 From the Home screen,  → [Settings] → [Security]

2 Set each item

One stop security settings : Setting steps → P165

Google Play Protect : Set whether to scan the terminal regularly to check security threat.

Find My Device : Set whether to identify a location of the terminal, lock the terminal, or erase the data by remote in case of loss of the terminal.

Security update : Setting steps → P197

Google Play system update*1 : Perform system update with Google Play.

Security unlock preference : Setting steps → P152

Face & Fingerprint Unlock : Setting steps → P154, P156

Smart Lock : Setting steps → P157

AppDoubleLock : Setting steps → P162

Privacy mode : Setting steps → P161

Junior mode : Setting steps → P167

arrows passport : Setting steps → P157

Device admin apps : Set whether to enable the Device admin apps.

SIM card lock*2 : Setting steps → P49

Encryption & credentials : Setting steps → P158

Trust agents : Manage the agents whose functions can be trusted such as Smart Lock.

Application pinning : Setting steps → P158

Confirm SIM deletion : Set whether to verify the identity before deleting the downloaded SIM.

*1 Appears when setting Google account.

*2 Not displayed if a nano SIM card is not inserted or [Use SIM] is OFF.

◆ Setting the security unlock preference

Set type of authentication operation to unlock the screen lock.

1 From the Home screen,  → [Settings] → [Security] → [Security unlock preference]

2 Authenticate

• To set for the first time, authentication is not required.

3 Select the item

None : Set not to display the lock screen.

Swipe : Set to unlock by swipe.

Pattern : Set to unlock by a pattern connecting at least 4 points.

Security code : Set to unlock by a security code (4- to 16-digit number).

Password : Set to unlock by a password (4- to 16-digit alphanumeric and symbols).

4  of [Security unlock preference] as required → Set required items

• The displayed items differ depending on the setting of the security unlock preference.

Make pattern visible : Set whether to display the pattern when entering the unlock pattern.

Lock after screen timeout : Set to activate the screen lock when the specified time is elapsed after the terminal goes into sleep mode when the security unlock preference that requires authentication is set.

Power button instantly locks : Set whether to activate the screen lock instantly by pressing Power key. Canceling the screen lock requires authentication.

Enable fingerprint when screen off : Set whether to enable screen unlock using a fingerprint when the screen is off.

✓INFORMATION -----

- While you use authentication storage, any of pattern, security code, password, or fingerprint authentication can be used for the security unlock preference.

❖ Locking the screen

To activate the screen lock, set the security unlock preference (→P152) and then press Power key to let the terminal in sleep mode, or when the specified time set in [Lock after screen timeout] is elapsed after the screen backlight turns off automatically.

- To unlock the screen lock, press Power key to cancel sleep mode and then unlock operation according to the security unlock preference.

✓INFORMATION -----

- When the Google account is set, you can set a lock function by the password using a PC or tablet. If the terminal is lost, access the following URL and log in with the Google account set for the terminal.
<https://www.google.com/android/find>

- Enter the new password in the terminal to unlock the screen lock.
- If you do not sign in to Google account, the operation is unavailable.

❖ When you forget unlock method

- When the security unlock preference that requires authentication is set and if you fail unlocking screen lock 5 times or more, the cancel operation cannot be performed temporarily. Retry after a certain period of time.
- If you forget the pattern/security code/password of the security unlock preference, contact a XXXXX shop.

✓INFORMATION -----

- You can make emergency calls from the lock screen without unlocking the screen lock.→P82

❖ Face authentication

Unlock the terminal by recognizing the owner's face.

❖ Precautions when using face authentication function

- The terminal may be unlocked by recognizing a face of a person who resembles you such as your twin brother or sister.
- Face authentication is less secure than other authentication methods.

❖ Precautions when registering your face

- When you register your face, check your face conditions such as glasses, cap, face mask you are wearing, beard, or makeup.
- Do not register your face in a dim environment, or when the camera lens is left dirty.
- To make face recognition more successful, make sure that the image is not blurred.

❖ Registering face

- 1** From the Home screen,  → [Settings] → [Security]
 - When you set security unlock preference requiring authentication, authenticate and then go to Step 3.
- 2** Select the unlock preference to use in combination → Set following on-screen instructions
- 3** [Face & Fingerprint Unlock]
- 4** [Face Unlock]
- 5** [Start] → Follow the on-screen instructions to register your face → [Done]

❖ Deleting face data

- 1** From the Home screen,  → [Settings] → [Security]
 - When you set security unlock preference requiring authentication, authenticate and then go to Step 3.
- 2** Select the unlock preference to use in combination → Set following on-screen instructions

3 [Face & Fingerprint Unlock]

4 [Face Unlock]

5 [Delete face data] → [DELETE]

❖ Operating face authentication

- 1** On the lock screen/face authentication screen, hold the terminal so that your face comes in front of the front camera
 - If your face is not recognized properly, swipe the screen and use an authentication method specified when registering your face to unlock the screen.

◆ Fingerprint authentication

The terminal is equipped with the fingerprint authentication with which authenticate the security with registered fingerprint information.

❖ Precautions when using fingerprint authentication function

- Since the function uses characteristics of fingerprints for authentication, the fingerprint authentication may not be available if your fingerprints are not sufficiently characteristic.
- Authentication performance (how successfully your fingerprint can be recognized when you touch the fingerprint sensor properly) varies depending on the condition of your fingers. Fingerprint registration may fail or the authentication performance may decrease if your fingers have any of the conditions listed below. Note that you may be able to improve the authentication performance by wiping or washing your hands, using a different finger for authentication, or registering a larger area of your fingerprint according to your finger condition.
 - Wrinkled after taking a bath, wet, or sweat
 - Sweaty or greasy
 - Dirty with mud, oil, etc.
 - Rough or injured (cut or inflamed)
 - Extremely dry
 - Put on or lose weight so that the fingerprint has changed
 - Worn so much that fingerprint is unclear
 - Totally different in texture than when you registered your fingerprint
- When connecting the terminal to a device which requires grounding such as a desktop PC with a USB cable, be sure

to perform a ground connection. While connecting without grounding, fingerprint authentication may fail. In that case, disconnect the terminal from the device and then perform fingerprint authentication.

- Fingerprint authentication technology does not guarantee complete identity authentication or verification. Note that XXXXX assumes no responsibility for any damage caused by using the terminal by the third party or unavailability of this terminal.
- Even when the security unlock preference is set to fingerprint authentication, unlocking the screen lock with the security unlock preference used in combination every 72 hours or when activating the terminal is required. Do not forget the security unlock preference used in combination.

❖ Precautions when using fingerprint sensor

- Although the surface of the fingerprint sensor is waterproof, water droplet or dirt on the fingerprint sensor or your finger causes a malfunction. Remove water droplet or dirt with soft cloth before using. Also, when your finger tip is wrinkled by moisture, a malfunction may be caused.
- The following conditions may cause failure or damage :
 - Strike or give a hard shock
 - Scratch or poke with a pointed object
 - By pressing a hard object such as fingernail against, the surface of the fingerprint sensor is scratched
 - The surface of the fingerprint sensor is scratched or dirty due to mud etc.
 - Cover with a sticker or paint with ink etc.
- The following conditions may make fingerprint authentication difficult or reduce the authentication

performance. Occasionally clean the surface of the fingerprint sensor.

- Dirt of dust, sebum, etc. attachment or condensation of moisture of sweat etc.
- When the following phenomenon occurs, clean the surface of the fingerprint sensor. The phenomenon may be improved.
 - Frequently registration of fingerprint or authentication fails.
- When cleaning the fingerprint sensor, remove dirt on the surface with a dry, soft cloth which does not generate static electricity easily. Even when dirt collects on the sensor while using for a long time period, do not use a pointed object to remove the dirt.
- Static electricity may cause a malfunction. Before place your finger on the fingerprint sensor, remove static electricity by touching metal etc. Be careful especially in dry season like winter.

❖ Registering fingerprint

- 1 From the Home screen, →[Settings]→[Security]**
 - When you set security unlock preference requiring authentication, authenticate and then go to Step 3.
- 2 Select the unlock preference to use in combination→Set following on-screen instructions**
- 3 [Face & Fingerprint Unlock]**
- 4 [Fingerprint settings/FAST FingerLauncher]**

5 Tap the finger to register→Follow the on-screen instructions to register your fingerprint→[Done]

- Tap [Register app] to activate the application that allows you to register your fingerprint.→P156

❖ Operating fingerprint authentication

1 On the lock screen, touch the fingerprint sensor with registered finger

- If the authentication failed, perform the authentication operations with the security unlock preference used in combination (pattern/security code/password) registered at fingerprint registration.

❖ FAST FingerLauncher

- 1 From the Home screen, →[Settings]→[Security]→[Face & Fingerprint Unlock]→Authenticate→[Fingerprint settings/FAST FingerLauncher]**
- 2 Tap the finger with a registered fingerprint**
 - Tap the finger with no fingerprint registered to add your fingerprint.
 - To remove the fingerprint, tap .
- 3 [Direct mode]/[Launcher mode]**
 - Tap the mode name to switch the mode.
- 4 Follow the on-screen instructions to register the application→[Done]**

◆ Using both face and fingerprint authentication (Double-authentication)

Set the double-authentication (face and fingerprint).

- You can use the double-authentication (face and fingerprint) when authenticating identity in the following cases.
 - AppDoubleLock
 - arrows passport
 - Privacy mode
 - Apps which requires biometrics authentication
 - When setting other setting items
- Register your face and fingerprint in advance. → P154, P156

1 From the Home screen,  → [Settings] → [Security] → [Face & Fingerprint Unlock] → Authenticate → [Double-authentication with face and fingerprint]

2 Set [Use double-authentication] to ON

◆ Smart Lock

Set the method to unlock the screen lock when connecting from an external device.

- Set a security unlock preference which requires authentication in advance. → P152

1 From the Home screen,  → [Settings] → [Security] → [Smart Lock] → Authenticate

2 Set required items

◆ arrows passport

Register and manage authentication information such as your ID (account) or password. You can enter by quoting the registered information. → P55

- Set a security unlock preference which requires authentication in advance. → P152
- Up to 100 items can be saved.
- If you use autofill input, [Settings] → [Passwords & accounts] → enable [Autofill service] for [arrows passport]. If [Use arrows passport] does not appear on the keyboard even after making the setting above, restart Chrome or other apps, which is used for entering a password, and use. Note that registered contents may not be used as Autofill service depending on a website or app login screen to use Autofill service.

1 From the Home screen,  → [Settings] → [Security] → [arrows passport] → Authenticate

2 [REGISTER] → Set each item → [DONE]

Editing : Tap the title → Edit each item → [DONE]

Deleting : Touch and hold the title → Drag it to  at the bottom of the screen → [OK]

Sorting : Touch and hold the title → Drag it to a destination

Tutorial :  → [Tutorial] → Follow the on-screen instruction

Backing up/Restoring :  → [Backup/Restore] → Select the item → Follow the on-screen instruction

- Backup contents may not be restored properly depending on the OS version.

Deleting all items :  → [Delete all] → [OK]

◆ Encryption & credentials

Check that the terminal is encrypted or manage the credentials.

1 From the Home screen, →[Settings]→[Security]→[Encryption & credentials]

2 Set each item

Encrypt phone : Check that the system data saved in the internal storage is encrypted.

- For the terminal, settings of [Encrypt phone] cannot be changed.

Trusted credentials : Display the trusted credentials and the certificates.

User credentials : Manage the user credentials saved to the terminal.

Install from storage : Install authentication information or certificates.

Clear credentials : Clear all authentication information, certificates or VPN settings from the authentication storage.

Certificate management app : Display the certificate management app to use.

◆ Application pinning

Set whether to fix the currently running application to prevent other applications from using.

1 From the Home screen, →[Settings]→[Security]→[Application pinning]

2 Tap the button in the upper right of the screen to set [Use app pinning] to ON→[OK]

3 Activate the application to pin

4 ☐→Tap an icon of application you want to pin→[Pin]→[GOT IT]

- To cancel pinning of application, touch and hold  (Back) and ☐ (History) at the same time.

✓INFORMATION

- You can set to require authentication when unpinning application by setting [Security authentication for unpinning] to On in Step 2.

Privacy

Make settings related to privacy.

1 From the Home screen,  → [Settings] → [Privacy]

2 Set each item

Privacy dashboard : Display apps for which permissions are used recently.

Permission manager : Change the setting of app permissions.

Camera access : Set whether to allow access to the camera for all apps and services.

Microphone access : Set whether to allow access to the microphone for all apps and services.

Show passwords : Set whether to show characters for a short time when entering security code/password.

Notifications on lock screen : Set whether to display private notifications on the lock screen.

Show clipboard access : Set whether to show a message when apps access text, images, etc. you copied on the clipboard.

Autofill service from Google : Set whether to automatically enter the password, etc. stored in Google account.

Google location history : Set whether to record the places where you visit holding the terminal.

Activity controls : Set whether to save the web and application activities.

Ads : Manage the settings for customizing Google advertisement.

Usage & diagnostics : Set whether to automatically send the usage and diagnosis information to Google.

Safety & emergency

Register emergency information and make settings for emergency SOS.

1 From the Home screen,  → [Settings] → [Safety & emergency]

2 Set each item

Emergency information : Register your blood type or other information which is useful for initial activity when emergency, or emergency contact.

Emergency SOS : Set whether to use emergency SOS. You can set whether to use a count down alarm before using emergency SOS or set a phone number for emergency call.

Emergency Location Service : If Emergency Location Service is supported in your region, when you call or text an emergency number, the terminal can automatically send its location to emergency response partners.

Wireless emergency alerts : Make settings related to wireless emergency alerts.

arrows feature select

Set Slide-in function, etc.

1 From the Home screen,  → [Settings] → [arrows feature select]

2 Set each item

- Clear Font** : Adjust the size of character or icon automatically so that they are always seen clearly.
- Super ATOK ULTIAS** : Setting steps → P58
- FAST App Drive** : Setting steps → P160
- FAST FingerLauncher** : Setting steps → P156
- Slide-in function** : Setting steps → P161
- Smart Selfy** : Start portrait shooting quickly from the lock screen,
- FAST Memo** : Setting steps → P121
- Privacy mode** : Setting steps → P161
- AppDoubleLock** : Setting steps → P162
- Application pinning** : Setting steps → P67
- arrows passport** : Setting steps → P157
- Nuisance call countermeasure function** : Setting steps → P163
- Emergency buzzer** : Make settings for emergency buzzer. → P164
- Battery monitor** : Check the status of the battery charge capacity and display predicted future value. View advice to prevent the battery from deteriorating.
- Charging for extending battery life** : Set whether to charge the battery to 100%, or 85% so as to save the battery life.

Diagnostic support : Diagnose problems when you use the terminal and help fix them. → P164

One stop security settings : Setting steps → P165

How to wash and maintain : Check how to wash the terminal and maintenance.

FAST Wallet : You can make payments at a shop or use an application smoothly. → P165

FAST Shopping : Check how to use FAST Shopping.

FAST AR size checker : Setting steps → P121

FAST Share : Setting steps → P122

Game Zone : Setting steps → P166

Online communication manager : Make settings to use the online communication comfortably. → P166

Simple mode settings : The home application is set to "Simple Home", Clear Font and easy text input method are set to ON, and Slide-in function is set to OFF.  (Back),  (Home), and  (History) are displayed on the navigation bar. Also, the design of the screen during call is simplified.

Junior mode settings : Setting steps → P167

◆ FAST App Drive

Applications can be activated quickly by registering frequently used ones.

1 From the Home screen,  → [Settings] → [arrows feature select] → [FAST App Drive] → [SET UP]

2  → Select the application to register

- Tap the application to exit, cancel registration, or change the application.
- You can change the application priority by dragging  = on the right of each application to change the order.

◆ Slide-in function

Configure settings so that you can slide your finger from the edge of the screen to bring up the launcher, from which you can launch applications, or to capture a screen shot, or so that you can slide your finger along lines of text to copy them.

1 From the Home screen, →[Settings]→[arrows feature select]→[Slide-in function]→[SET UP]

2 Set [Slide-in function] to ON

3 Set required items

- Tap [Function Description] to show how to use Slide-in launcher, Capture & Draw, Highlight & Copy, FAST Shopping, and FAST AR size checker.

✓INFORMATION

- When applications registered to the launcher are updated, the registration may be canceled.

◆ Privacy mode

By setting the specified apps or notifications to hide in a batch, you can switch display/hide them easily.

- Setting the security lock in advance is required. Specify the security lock method other than [None] or [Swipe].→P152

1 From the Home screen, →[Settings]→[arrows feature select]→[Privacy mode]

2 [SET UP]→Operate according to the on-screen instructions→[Try using]→[OK]

3 Authenticate

4 Set [Using Privacy mode] to ON

5 Set each item

Apps : Set to hide specified apps and widgets from the Home screen and app list.

Notifications : Set to hide notifications on specified apps from the notification panel.

Incoming calls : When an incoming call comes from the registered number, the fixed SMS message is returned to the number instead of receiving the call.

Choose your fingerprint to switch : Set to enable Privacy mode from the lock screen by fingerprint authentication.

Create a shortcut on your home screen : Create a shortcut for Privacy mode on the Home screen.

Wallpaper : Change the wallpaper to display according to the status of Privacy mode (ON or OFF).

Clock display : Set whether to switch the clock display when Privacy mode is switched to ON. When this setting is set to ON, the clock is displayed as **12:34** while Privacy mode is ON.

Privacy mode auto-turn on : Set whether to enable Privacy mode automatically.

✓INFORMATION

- You can check how to use Privacy mode by tapping [ABOUT PRIVACY MODE].
- While the notification panel is displayed, swiping right or left from the clock display switches between Privacy mode ON and OFF. If you turn Privacy mode to OFF, swipe right or left, and then authenticate.
- When [Notifications] is set to ON, the clock is displayed in italic if any notifications are hidden.
- When the Home screen is set to arrows Home or Simple Home, the layout of icons on the Home screen is memorized for each status (Privacy mode ON or OFF) and either layout is applied according to Privacy mode status. (Some widgets or shortcut icons cannot be memorized when they are set to hide.)

◆ AppDoubleLock

Protect your data securely by setting double-biometrics authentication (face and fingerprint) to specified apps.

- Set a security unlock preference in advance. → P152
In addition, it is recommended to make the following setting items.
 - Registering your face and fingerprint → P154, P156
 - Setting the double-authentication (face and fingerprint) → P157

1 From the Home screen,  → [Settings] → [arrows feature select] → [AppDoubleLock] → [SET UP]

2 Authenticate

3 Set [App Double Lock function] to ON

4 [Select apps to lock] → Select apps

- Set [Unlock all the apps] to ON to unlock selected apps at once.

✓INFORMATION

- If you turn the screen off leaving apps selected for AppDoubleLock activated, AppDoubleLock authentication for apps is skipped and you can use them immediately after you turn the screen on and unlock it.

◆ Nuisance call countermeasure function

You can record a call automatically when you receive a call from an unlisted number in the phonebook. A special ringtone sounds for a call from an unlisted number and a voice message that the call will be recorded is played for the other party.

- Nuisance memo is recorded for up to 60 minutes per one call, and recorded up to 50 memos. Unprotected Nuisance memo is overwritten in order from the older memo with the new one if there are more than 50 memos. Protect the Nuisance memo that you want to save.
- When Call waiting is used, this function operates as follows.
 - If you make a call or receive a call while you are calling, this function does not operate.
 - Recording of Nuisance memo may be interrupted if you start calling another party.
- Depending on the conditions of the call, some nuisance calls may not be detected as such, or a call that is not actually a nuisance call may be detected as a nuisance call.

❖ Setting ON/OFF of Nuisance call countermeasure function

1 From the Home screen,  → [Settings] → [arrows feature select] → [Nuisance call countermeasure function] → [SET UP]

2 [Nuisance call countermeasure]

❖ Playing recorded conversations

1 From the Home screen,  → [Settings] → [arrows feature select] → [Nuisance call countermeasure function] → [SET UP]

2 [Nuisance memo list]

3 Select the Nuisance memo → 

❖ Checking the function description

1 From the Home screen,  → [Settings] → [arrows feature select] → [Nuisance call countermeasure function] → [SET UP]

2 [Function description]

✓INFORMATION -----

- You cannot use Nuisance call countermeasure function overseas.

◆ Emergency buzzer

You can sound a buzzer at a loud volume in case of emergency with easy operations. (→P69)

1 From the Home screen, →[Settings]→[arrows feature select]→[Emergency buzzer]→[SET UP]

2 Set each item

Automatic Voice Calls : Make a call to the specified number automatically when you sound the emergency buzzer.

Automatic SMS sending : Send an SMS to the specified number automatically when you sound the emergency buzzer.

- Note that sending an SMS will be charged according to your rate plan.

Registration of calling number : Register up to 3 telephone numbers to make a call or send an SMS automatically.

- You cannot register the emergency call numbers or SIP phone numbers.

Buzzer search settings : Launch the buzzer search of "imadoco search" by the GPS function when you sound the emergency buzzer.

- To notify where you are by the GPS function, you need to be set as an object for "imadoco search". For details on "imadoco search", refer to XXXXX website.

◆ Diagnostic support

Diagnose problems when you use the terminal and help fix them.

1 From the Home screen, →[Settings]→[arrows feature select]→[Diagnostic support]→[TRY IT]

2 [START DIAGNOSTICS]

3 Select your problem from the list

If your problem is not found, tap [OTHER RESULTS].

4 [DIAGNOSIS]

The diagnosis results are displayed.

5 Check the result→[FINISH]

If the results do not improve the state, tap [FAQ] to see the FAQ site.

✓INFORMATION -----

- You can check the problems and diagnosis results in the past by tapping [VIEW PAST DIAGNOSIS].

◆ One stop security settings

Advise each individual on the optimal security settings and functions by answering 5 questions.

1 From the Home screen, →[Settings]→[arrows feature select]→[One stop security settings]→[TRY IT]

2 [TRY USING]→[ANSWER AND USE]

3 Answer questions following the on-screen instructions

Diagnosis result appears.

✓INFORMATION -----

- If you tap [Collapsed list]→[Show all], setting items related to security appear. Tap the item to set to make settings as necessary.

◆ FAST Wallet

By displaying the application icons on those used for a shop, you can make payments smoothly at the shop where you use multiple applications.

1 From the Home screen, →[Settings]→[arrows feature select]→[FAST Wallet]→[SET UP]→[Try using]→[OK]

- By default, "よく使うお店 (Frequently used shop)" is displayed.

2 [+Add]→Create or select the shop to register

✓INFORMATION -----

- You can add the shops from [+Add]. Note that you may not use this app at some shops due to circumstances.
- You can also activate the application from the Home screen, →[arrows]→[FAST Wallet].
- If you tap the application icon on the registered shop, one application you use at the shop will be activated and the application icon you use next appears on the activated application.
 - You can minimize the application icon by swiping it in the direction of the screen edge that is closer to the icon.
 - Tapping the minimized icon turns it to the original size.
- To set the shop names or registered information back to the default, tap [CLEAR STORAGE] on "Deleting app data or cache".→P143

◆ Game Zone

Perform settings for playing games comfortably and use the launcher/gallery function.

1 From the Home screen,  → [Settings] → [arrows feature select] → [Game Zone] → [SET UP]

2 [Game tuning]

3 Set each item as required

Quick Settings : Tap each icon to enable/disable notifications while playing a game* and lock the navigation bar quickly.

Game Tuning : Set communication latency reduction when connecting to Wi-Fi and memory release when starting a game.

Focus settings : Set the refresh rate (up to 120 Hz), incoming calls or notifications* while playing a game, disabling slide-in launcher, or set the navigation bar lock.

* The notification function may not work when the terminal receives a message from Phone memo or third party's application such as LINE.

✓INFORMATION

- Tap  to switch ON/OFF of Game tuning.
- After Step 1, tap [Game management] to add your favorite games to the launcher.

◆ Online communication manager

Make settings for comfortable online communication.

1 From the Home screen,  → [Settings] → [arrows feature select] → [Online communication manager] → [SET UP]

2 Set [Online communication manager] to ON

3 Set each item

Notification suppression : Suppress the notification display and sound.

Answer incoming calls with SMS : Answer incoming calls with a specified message by SMS instead of receiving them.

Reply message : Set the SMS message to reply to incoming calls.

Power saving : Reduce display brightness and performance to save the battery consumption.

Screen shooting timer : Set whether to use the timer to capture the screen.

Initial display position : Set the position of Online communication manager when it activates.

Indicates color : Set the indication color of Online communication manager.

Register apps : Register the application for which you use Online communication manager. By default, "Meet" is registered.

◆ Junior mode settings

Set the limit of application usage or usage time.

If Junior mode is set to ON, by default setting, the following applications are unavailable (unmarked) on "SELECT APPS THAT CAN BE USED".

- Elementary school student : Amazon Shopping, Camera, Chrome, Disney DX, dphoto, Drive, d払い (d payment), Facebook, FAST Memo, FAST Share, FAST Wallet, Google TV, iDアプリ (iD application), Kindle, Meet, my daiz, News Suite, Photos, Photoshop Express, radiko+FM, YouTube, YouTube Music
- Junior high school student : Amazon Shopping, Chrome, Disney DX, Drive, d払い (d payment), Facebook, FAST Share, FAST Wallet, Google TV, iDアプリ (iD application), Kindle, Meet, my daiz, News Suite, Photos, YouTube
- High school student : Chrome, Meet, News Suite, Photos, YouTube

1 From the Home screen,  → [Settings] → [arrows feature select]

2 [Junior mode settings] → [SET UP]

3 Enter the password → Enter the password again

- 4 to 16 alphanumeric characters or symbols can be used for the password.

4 Register the secret question and answer

5 Enter the parent's phone number → enter the parent's phone number again

6 [Elementary school student]/[Junior high school student]/[High school student] → [OK]

- Tap  to set the available applications, unavailable time period, and the maximum time of use in a day.
- Tap  to change the password and to check parent's phone number has been changed.

✓ INFORMATION

- To restrict use of applications, enable the restriction of application installation provided by あんしんフィルター for XXXXX (Anshin Filter for XXXXX) in advance. The setting to disable the use of applications may be canceled.
- The arrangement of the applications on the Home screen will change when Junior mode is set.
- Rearrange the application after Junior mode is set to OFF.
- If you perform erasing all data (factory reset) while Junior mode is enabled, the terminal is initialized and Junior mode is also canceled.
- Applications that run in the background remain active even after the time limit.

❖ Resetting password

If you cannot remember the password or secret question, you can reset the password by sending SMS with a specific number entered to the terminal from the phone number you registered at the password registration.

- 1 From the Home screen,  → [Settings] → [arrows feature select] → [Junior mode settings] → [Forgot password?] → [Forgot password?]

A specific number to be entered in the SMS message is displayed in the text.

- 2 From the phone number you registered at the password registration, send an SMS message with the number you confirmed in step 1 entered

- The password can be reset only by using SMS. To use +Message, set  → [Switch to SMS] on the upper right of the message entry screen to ON, and then send the message.

XXXXX service/cloud

Make settings for XXXXX service or cloud.

- 1 From the Home screen,  [Settings] → [XXXXX service/cloud]

- 2 Set each item
d ACCOUNT setting : Set up d ACCOUNT setting used for XXXXX applications. You can also use your biological information (Fingerprint authentication) registered on the terminal to set up your d ACCOUNT.

XXXXX Application Data Backup : Set backup/restoration of each application, or check the list of applications whose data is backed up.

XXXXX apps management : Update the applications provided by XXXXX, or set the periodical update notification, or automatic update, etc.

Osusume Apps : Set for Osusume Apps or check the history of notifications.

Osusume hint : Set Osusume hint or check the history of hint.

SuguApp : Perform settings for "SuguApp", which enables you to start the application quickly by shaking the smartphone. → F68

XXXXX location information : Set location information functions for imadoco search, Keitai-Osagashi Service.

Send device information : Set for sending device information to the server managed by XXXXX. **Member/profile settings** : Check/change the membership/profile information used for various XXXXX services.

XXXXX initial settings : Set XXXXX service settings to use this terminal all at once.

Switch USB debugging : Set to use the dedicated terminal at a sales outlet such as a XXXXX Shop.

Open source licenses : Show open source licenses.

✓INFORMATION

- You can disable some applications displayed in XXXXX service/cloud. Disabled applications may not be displayed in the list of XXXXX service. Also, if you newly download an application provided by XXXXX, an item may be added in the list of XXXXX service/cloud.

Passwords & accounts

Add accounts. Also, you can register your profile etc.

1 From the Home screen,  → [Settings] → [Passwords & accounts]

2 Set each item

Passwords : Show registered passwords.

Autofill service : Show apps using autofill service.

Accounts for owner : Show registered accounts.

Add account : Setting steps → P169

Automatically sync app data : Set whether to sync account data automatically.

My profile : Setting steps → P92

Phone number (sim slot 1)/Phone number (sim slot 2) :

You can check the phone number of the terminal.

My physical profile : Set basic information to use for health care applications or widgets.

◆ Adding an account

1 From the Home screen,  → [Settings] → [Passwords & accounts]

2 [Add account] → Select an account type → Follow the on screen instructions

Setting account : Select the account → Set each item

❖ Deleting an account

- 1 From the Home screen,  → [Settings] → [Passwords & accounts]
- 2 Select the account → [REMOVE ACCOUNT] → [REMOVE ACCOUNT]

✓ INFORMATION

- You cannot remove the XXXXX account.

❖ Starting synchronization manually

- 1 From the Home screen,  → [Settings] → [Passwords & accounts]
 - 2 Select the account → [Account sync] → ⋮ → [Sync now]
- To cancel sync
- 1 While sync, ⋮ → [Cancel sync]

Digital Wellbeing & parental controls

Reduce overuse of the terminal by checking usage time etc. or setting maximum available time per one day by application. In addition, parental control can be specified.

- 1 From the Home screen,  → [Settings] → [Digital Wellbeing & parental controls]
- 2 Set required items

Google

Check, change, or delete information or settings related to your Google account and the services.

- For details on Google settings, on the Google setting screen, tap  and see Help.

- 1 From the Home screen,  → [Settings] → [Google]
Google setting screen is displayed.
- 2 Set required items

Languages & input

Change the language used for the terminal or make settings regarding character entry.

1 From the Home screen, →[Settings]→[System]→[Languages & input]

2 Set each item

Languages : Setting steps→P171

On-screen keyboard : Setting steps→P58, P172

- Tap [Manage on-screen keyboards] to set the keyboard displayed in the keyboard options screen.

Physical keyboard : Set the option when a keyboard is connected to the terminal.→P60

Spell checker : Set whether to run the spell checker.

Personal dictionary : Add words for using a spell checker application etc.

Pointer speed : Set pointer speed when a mouse or trackpad is used.

Text-to-speech output : Make settings for Text-to-speech output.

◆ Switching to English display

Change the language from Japanese to English.

In this section, changing languages when Japanese is set in the initial settings of the terminal is explained.

1 From the Home screen, →[設定 (Settings)]→[システム (System)]→[言語と入力 (Languages & input)]→[言語 (Languages)]

2 [言語を追加 (Add a language)]→Drag  of [English (United States)] to the top layer (position of [1])→[OK]

The terminal restarts and the displayed language is changed to English.

✓INFORMATION

- Some applications are not displayed in English.
- To change to the Japanese display, operate as follows.
From the Home screen, →[Settings]→[System]→[Languages & input]→[Languages]→Drag  of [日本語 (日本) (Japanese (Japan))] to the top layer (position of [1])→[OK]
The terminal restarts and the displayed language is changed to Japanese.
When [日本語 (日本) (Japanese (Japan))] is not displayed, tap [Add a language] to display [English (United States)].

◆ Setting Voice Search

Set Google Voice Search functions.

1 From the Home screen,  → [Settings] → [System] → [Languages & input] → [On-screen keyboard] → [Google Voice Typing]/[Google Voice Typing [Legacy]]

2 Set required items

Gestures

Set to allow the terminal to be operated by gestures.

1 From the Home screen,  → [Settings] → [System] → [Gestures]

2 Set each item

Quickly open camera : Set to activate the camera by pressing Power key twice. When it is set to ON, you can activate Camera from every screen.

Slide-in function : Setting steps → P65

System navigation : Select "Gesture navigation" that allows you to perform various operations by swiping the screen, or select "3-button navigation" that allows you to use the back, home, and history icon displayed on the navigation bar.

One-handed mode : Make settings when using One-handed mode.

Prevent ringing : Set whether not to emit ringtone or notification sound by pressing Power key and the volume up key at the same time.

- When [Vibrate] is set, the terminal vibrates when receiving a call or notification. When [Mute] is set, the terminal does not sound or vibrate when receiving a call or notification.

Glove touch : Setting steps → P151

Pedometer

Set whether to start counting your steps.

- When [Pedometer use] is set to ON, you can use applications or widgets that use steps data.
- To obtain more accurate step information, set your height and weight in [My physical profile].→P169

1 From the Home screen, →[Settings]→[System]→[Pedometer]

2 Set [Pedometer use] to ON

Deleting all logs : [To remove history]→[EXECUTION]→[YES]

- All logs are deleted including steps being counted.

◆ Precautions on using Pedometer

- To count steps accurately, it is recommended that you wear the pedometer correctly (place it in a carrying case and attach the case to the waist belt etc. or when putting the terminal in a bag, put it in a pocket or between partitions), and walk at the speed of 100 - 120 steps per minute.
- Even when you wear Pedometer correctly, if your walking or movement does not reach to the terminal like when moving part of body such as only hands or feet, your steps amount may not be counted accurately.
- Steps may not be counted accurately in the following cases.
 - When the terminal moves randomly as the bag you put the terminal in hits your legs or hip, or when hanging the terminal down from your hip or bag

- When shuffling, walking randomly wearing sandals, geta (wooden clogs) or Japanese sandals, or when your walking pace was slowed down because of walking in the crowded area etc.
 - When you had a lot of up-and-down motions, shaking or horizontal movements such as repeating standing and sitting, climbing up and down stairs or steep slope, or getting on a vehicle (bicycle, car, train, bus, etc.)
 - When you jogged or did some sports other than walking, or walked extremely slowly
- When shaking or swinging the terminal, counting steps may not be performed accurately.

✓INFORMATION

- At the beginning of walking, the figure is not changed because the Pedometer is judging to prevent miscount whether you started walking. As a guide, when you walked for about 4 seconds, the steps to there are added at a time.
- Counted number of steps is saved approximately every 60 minutes. However, the steps that are not counted on the day will be corrected on the next day.
- When pedometer count is not updated, redisplay the screen to update.
- By malfunction, repair or other treatments of the terminal, the information of steps may be lost. Note that, even if the information of steps is lost, XXXXX assumes no responsibility for the loss of any data.

Date & time

Set for date and time.

- When [Set time automatically]/[Use network-provided time zone]/[Use locale default] is set to OFF, you can set date & time, time zone, 24-hour format manually.

1 From the Home screen,  → [Settings] → [System] → [Date & time]

2 Set each item

Set time automatically : Set whether to correct date and time automatically by using network-provided information.

Date : Set date manually.

Time : Set time manually.

Use network-provided time zone : Set whether to correct time zone automatically by using network-provided information.

Use location to set time zone : Set whether to use location information to set time zone.

Time zone : Set time zone manually.

Use locale default : Set whether to automatically switch 24-hour format according to the setting of [Languages].

Use 24-hour format : Set 24-hour format manually.

Backup

Set to back up the data of application, settings of the terminal, etc. to **Google One**.

- To use Google One backup, you need to set up a Google account on the terminal. If a Google account is not yet set up, follow the on-screen instructions.

1 From the Home screen,  → [Settings] → [System] → [Backup]

2 [Turn on] on the displayed screen

3 [Account storage] → Select the account to back up to

4 [Back up now]

- When you set security unlock preference requiring authentication, perform the authentication operations.

Reset options

Reset the network setting or application settings of the terminal, or initialize the terminal.

1 From the Home screen, →[Settings]→[System]→[Reset options]

2 Set each item

Reset Wi-Fi, mobile & Bluetooth : Reset the settings of Wi-Fi, mobile data communication, Bluetooth.

Reset app preferences : Reset disabled apps, default applications, app permissions, etc.

Erase downloaded SIMs : Erase downloaded eSIM.

Erase all data (factory reset) : Setting steps→P175

◆ Initializing the terminal

All installed applications and saved data to the terminal, for the most part, are deleted when you reset the terminal.

- For erasing data in microSD card, see "Erasing data in microSD card (Format)".→P146

1 From the Home screen, →[Settings]→[System]→[Reset options]

2 [Erase all data (factory reset)]→[Erase all data]

- If you are using eSIM, Placing a check mark on [Erase downloaded SIMs] erases eSIM.
- When you set security unlock preference requiring authentication, authentication is needed.

3 [Erase all data]

A short while after the reset is completed, the terminal will be restarted.

- Do not turn off the terminal while resetting tablet.

✓INFORMATION

- If the touch operations cannot be performed correctly after resetting, turn off and on the power.

Hardware Feedback

Support hardware improvement.

- 1 From the Home screen, →[Settings]→[System]→[Hardware Feedback]
- 2 On the displayed screen, place a check mark on the checkbox

Send diagnostic data

Detailed diagnostic data is provided to improve the quality of the terminal.

- 1 From the Home screen, →[Settings]→[System]→[Send diagnostic data]
- 2 Set [Send diagnostic data] to ON→Check the contents, [AGREE]
 - Setting [Battery monitor] to ON sends information related to the battery.

About phone

Display various information about the terminal such as phone number and Android™ version.

- 1 From the Home screen, →[Settings]→[About phone]
- 2 Confirm each item
 - Device name** : Set a name of the terminal.
 - Phone number (sim slot 1)/Phone number (sim slot 2)** : Display your own phone number.
 - Regulatory labels** : Display detailed information on the rules such as Technical Compliance Mark or Wi-Fi frequency band.
 - Legal information** : Display the details of third-party licenses, Google legal, etc.
 - SIM status (sim slot 1)/SIM status (sim slot 2)** : Display the information (network name, phone number, etc.) stored in the SIM card.
 - Model/IMEI (sim slot 1)/IMEI (sim slot 2)/Android version/IP address/Wi-Fi MAC address/Device Wi-Fi MAC address/Bluetooth address/Up time/Build number** : Display each version, number, etc.

File management

Storage (Internal storage)

Folders in the terminal memory (/storage/emulated/0/) and the data saved in each folder by default are as follows.

Alarms	Alarm sound
Android	Temporary files of installed applications
Audiobooks	Audiobook files
DCIM	Still images/videos taken with the camera
Documents	Various document files
Download	Files downloaded by browser etc.
Movies	Videos (except those taken with the camera)
Music	Music files
Notifications	Notification sound
Pictures	Still images (except those taken with the camera)
Podcasts	Files from Podcast (e.g. programs delivered via the Internet)
Recordings	Recorded audio files
Ringtones	Phone ringtone

microSD card (External storage)

Save the data of the terminal to a microSD card or import the data of a microSD card to the terminal.

- For microSD cards, refer to "microSD card". →P40

File operations

You can manage data saved in the internal storage and microSD card (rename/delete/copy/move etc. folders and files).

- 1 From the Home screen, [Google]→[Files]**
- 2 [Browse]→Tap a folder/file of the category or storage device.**
 - Tap ≡ to change settings or check Help.
 - Tap [Clean] to delete unused applications and increase available memory space.
 - Tap [Share] to share the file with your friends.
- 3 Perform an operation**
 - Tap a file to display/play.
 - Tap each category or a storage device→Touch and hold a thumbnail of a file or tap  on the right of a file (in case of list display) to share, delete, move, copy, or rename the file, etc.

Data communication

Bluetooth® communication

◆ Using Bluetooth function

You can connect the terminal and a Bluetooth device to perform wireless communication or play voice sound or music.

- Note that using Bluetooth connection makes battery consumption faster.
- Wireless communication is not guaranteed for all Bluetooth devices.

✓INFORMATION

- For information on compatible Bluetooth version, profiles, etc., see "Main specifications". →P202
- For operations of the Bluetooth device, refer to the operation manual of your Bluetooth device.

❖ Handling precautions when using Bluetooth function

- Connect with another Bluetooth device keeping the line-of-sight distance to 10 m or shorter. Distance available for connection may be shorter if any obstacle exists between the terminal and the Bluetooth device, or depending on surrounding environment (wall, furniture, etc.) or structure of building.

- Place a Bluetooth device as far as possible from other electric appliances, audio visual devices and office appliances. A microwave oven strongly affects the connection when it is operated. Connection may not be established correctly when other devices are powered on, or the connection may cause noises on TV or radio or reception difficulty.
- Under strong ambient signals, connection may not be established.
- Radio waves emitted by a Bluetooth device may affect electronic medical equipment. Turn off the terminal and other Bluetooth devices in a train, aircraft or hospital, near an automatic door or fire alarm, and at a place where flammable gases could be generated such as a gas station.

❖ Radio wave interference with wireless LAN

Because a Bluetooth device and wireless LAN (IEEE802.11b/g/n) use the same frequency band (2.4 GHz), if the device is used near a device with wireless LAN capability, radio wave interference may occur, and communication speed may be reduced, noise may occur, or connection may not be established. In this case, turn the wireless LAN device power off, or move the terminal and the Bluetooth device away at least 10 m from the wireless LAN device.

◆ Bluetooth ON/OFF

Set Bluetooth to ON to use Bluetooth function. When you do not use Bluetooth, set it to OFF in order to reduce the battery power consumption.

- Turning the power OFF does not change Bluetooth ON/OFF setting.

1 From the Home screen,  → [Settings] → [Connected devices] → [Connection preferences] → [Bluetooth]

2 Tap the button at the upper right of the screen to set ON/OFF

◆ Connecting with Bluetooth devices

Connect Bluetooth device. You can talk or play back sounds or music using a Bluetooth device, or exchange data to or from a Bluetooth device. And you can enter characters on the terminal with Bluetooth compatible keyboard.

- Set a Bluetooth device to be detectable in advance.
- When connected,  appears on the status bar.
- For profile HFP/A2DP, 5 Bluetooth devices can be connected simultaneously.
- Bluetooth devices with  Qualcomm[®] aptX[™] audio and aptX Adaptive enable you to play music using aptX/ aptX Adaptive audio codec.

1 From the Home screen,  → [Settings] → [Connected devices]

2 [Pair new device]

3 Tap a detected Bluetooth device name → Enter a passcode (PIN) as required and tap [OK]/ [PAIR]

■ When connection is requested from another Bluetooth device

If a Bluetooth pair setting request screen appears, enter a pass code (PIN) if necessary and tap [OK]/[PAIR].

◆ Sending or receiving data to or from Bluetooth device

You can send data of "Photos" application (→ P113), contacts, etc. or receive data from a Bluetooth device.

- Set a Bluetooth device to be connected or detectable in advance.

<Example> Sending a file from "Photos" application

1 Open "Photos" application and tap an image

2  → [Bluetooth] → [OK]

3 Tap a Bluetooth device name

Open the Notification panel to check if transmission is completed.

<Example> Receiving files from a Bluetooth device

- 1 Send files from a Bluetooth device
- 2 After the file arrival is notified, open the Notification panel→[ACCEPT] of "Incoming file"
 - To check the received files, open the Notification panel and tap the notification of "Bluetooth Share: Received files", or operate from the Home screen, →[Settings]→[Connected devices]→[Connection preferences]→[Files received via Bluetooth].

◆ Canceling connection with a Bluetooth device

When a Bluetooth device such as an earphone microphone or keyboard is connected, cancel it by the following operation.

- 1 From the Home screen, →[Settings]→[Connected devices]
- 2 Tap the connected Bluetooth device name/ on the right→[DISCONNECT]
 - To reconnect the device, tap a Bluetooth device to connect on [Previously connected devices].

◆ Unpairing from Bluetooth device

- 1 From the Home screen, →[Settings]→[Connected devices]
- 2 Bluetooth device name/ on the right→[FORGET]→[FORGET DEVICE]
 - When the Bluetooth device is disconnected,  in the right of Bluetooth device name on [Previously connected devices]→[FORGET]→[FORGET DEVICE] to unpair.

◆ Renaming a Bluetooth device

- 1 From the Home screen, →[Settings]→[Connected devices]
- 2 Bluetooth device name/ on the right→→Enter a device name→[RENAME]
 - When the Bluetooth device is disconnected,  in the right of Bluetooth device name on [Previously connected devices]→→Enter a device name→[RENAME] to rename.

NFC communication

NFC is an abbreviation for Near Field Communication and a short range wireless communication method of international standard defined by ISO (International Organization for Standardization). You can use a contactless IC card function, Reader/Writer function, P2P function, etc.

You can send/receive data to/from another NFC compatible device using NFC function.

- For notes when holding over the other device, refer to "Notes when holding over the other device". → P117

◆ NFC

Transfer data between the terminal and an NFC equipped terminal.

- To use NFC, set to allow data transfer beforehand.
- When [NFC/Osaifu-Keitai lock ON/OFF] is set to ON, NFC is not available while the screen is OFF or locked.
- NFC cannot be used on some applications. Available data varies by applications.
- Data transfer is not guaranteed for all NFC equipped terminals.
- NFC is not available while listening to FM radio.

1 From the Home screen,  → [Settings] → [Connected devices] → [Connection preferences] → [NFC/Osaifu-Keitai] → Set [NFC/Osaifu-Keitai] to ON

External device connection

Connecting with a PC

◆ Operating data on the terminal from a PC

Connect the terminal and a PC using USB cable A to C 02 (optional) to operate the data in the internal storage or microSD card of the terminal.

- The PCs of Windows 8.1, Windows 10 and Windows 11 are supported. Note that XXXXX does not guarantee the operations of every PC.

1 Insert the Type-C plug of the USB cable A to C 02 into the USB Type-C jack of the terminal and insert the USB plug of the USB cable A to C 02 into a USB connector of a PC

2 Select the option of USB connection

File Transfer : Transfer music or videos via the MTP compatible file-managing software.

USB tethering : Setting steps → P140

MIDI : Use the terminal for MIDI input.

PTP : Transfer still images or videos to a PC etc. which does not support MTP.

No data transfer : Perform only charging.

3 Perform an operation

✓INFORMATION

- When a microSD card is not mounted on the terminal, the microSD card cannot be recognized on a PC. In such case, from the Home screen,  → [Settings] → [Storage] → [THIS DEVICE] → [SD CARD] →  → [Mount] and then connect to a PC.

Connecting with a printer

◆ Connecting a printer by Default Print Service

With Default Print Service, you can print from the terminal without installing the printer driver.

1 From the Home screen,  → [Settings] → [Connected devices] → [Connection preferences] → [Printing] → [Default Print Service]

2 Tap the button in the upper right on the screen to enable [Use print service]

Compatible printers are detected automatically.

- When your printer is not detected,  → Tap [Add printer] and add a printer manually.

◆ Printing

<Example> Printing a web page displayed with "Chrome" application

- 1 While a web page is displayed, slide down the screen to display the top part of the web page
→ ⋮ → [Share...] → [Print]

Print setting screen for the connected printer appears.

- 2 Set required items

- Set printer, paper size, etc.

- 3 Start printing

- Follow the on-screen instructions.

✓INFORMATION

- Printable data varies depending on the status of support for printing function of used application.

Connecting with other devices

◆ Displaying on Wi-Fi Miracast device via Wi-Fi connection

Show videos, images, etc. on TV screen or displays by connecting the terminal to a Wi-Fi Miracast device through Wi-Fi connection.

- 1 From the Home screen,  → [Settings] → [Connected devices] → [Connection preferences] → [Cast]

- 2 ⋮ → Mark [Enable wireless display]

- 3 Tap a detected Wi-Fi Miracast device

Disconnecting Wi-Fi Miracast device : Tap a connected device → [DISCONNECT]

✓INFORMATION

- When connecting to a device which does not support HDCP, images/audio may not be output correctly depending on application. Also, output of some contents may be restricted by the content provider or restrained due to problem on performance.
- When you receive a call during connection, incoming call screen also appears on the connected device.
- With some applications, content appears on the connected device, and operations such as playback can be performed from the terminal.

Overseas use

Outline of international roaming (WORLD WING)

With the international roaming (WORLD WING), you can use the terminal without changing phone number or mail address in the service area of the overseas network operator affiliated with XXXXX. You can use Phone and SMS without changing settings.

For details on the international roaming (WORLD WING), refer to XXXXX website.
<https://www.XXXXX.ne.jp/english/service/world/roaming/>

Available networks

You can use the terminal within the service area of LTE network, 3G network and GSM/GPRS network. Also, you can use the terminal in countries/regions where 3G850MHz/GSM850MHz is supported.

✓INFORMATION

- For the country codes/international call access number/ Universal number international prefix/compatible countries and regions and overseas network operators, refer to XXXX website.

Available services for overseas

Main communication services	LTE	3G	3G850	GSM (GPRS)
Phone	○	○	○	○
SMS	○	○	○	○
Packet communication*	○	○	○	○

* To use packet communication during roaming, set Data roaming setting to ON, →P185

✓INFORMATION

- Some services may not be available depending on the network operator or network overseas.
- The name of connected network operator is displayed at the top in the Panel switch (→P64).

Before using the terminal overseas

◆ Before leaving Japan

To use the terminal overseas, check the following in Japan before departure.

■ Subscription

Check if you subscribe to WORLD WING. For details, contact "General Inquiries" on the last page of this manual.

- If you subscribe to ahamo, you need not apply for WORLD WING and cannot cancel it.

■ Charging

For details on charging, refer to XXXXX website.

■ Usage charge

- Overseas usage charges (call and packet communication) differ from those in Japan. For details, refer to XXXXX website. If you subscribe to ahamo, be sure to confirm the details on the ahamo website. (in Japanese only)
- Since some applications automatically perform communications, packet communication charges may become high. For operation of applications, contact the application providers.

◆ Advance preparation

■ About setting network service

If you subscribe to network services, you can use network services such as Voice Mail Service, Call Forwarding Service, Caller ID request service, etc., even overseas. Some network services are not available.

- To use network services overseas, you need to set "Remote operation settings" to activate. You can set "Remote operation settings" in the country you visit. From Japan (→ P88), from overseas (→ P189)
- Even if the setting/canceling operation is available, some network services cannot be used depending on overseas network operators.

◆ After arriving overseas

When you arrive overseas and turn the terminal ON, a connection to the available network operator/network is established automatically.

■ Connectivity

To select the most suitable network automatically, from the Home screen,  → [Settings] → [Network & internet] → [Mobile network] and then tap [Automatically select network] to turn on.

◆ Settings for overseas use

- If you use a SIM by the other carrier to perform data communication, set an access point (APN) before use. → P137

❖ Setting Data roaming

To perform packet communications overseas, set Data roaming settings to "ON".

- 1 From the Home screen,  → [Settings] → [Network & internet] → [Mobile network]
- 2 [Data roaming] → Check the contents on the Attention screen, [OK]

❖ Setting Network operators

By default, the terminal is set to automatically search and switch to an available network. To switch network manually, perform the following operations.

1 From the Home screen,  → [Settings] → [Network & internet] → [Mobile network]

2 Turn off [Automatically select network]

- Available networks are searched for and displayed
- When an error occurs in network search, turn off [Mobile data] (Packet communication) and then retry. → P136

3 Select a network of the network operator

✓INFORMATION -----

- To switch network manually, in Step 2, turn on [Automatically select network].

❖ Setting the preferred network type

1 From the Home screen,  → [Settings] → [Network & internet] → [Mobile network] → [Preferred network type]

2 [5G/4G/3G/GSM]/[4G/3G/GSM]/[3G/GSM]/[GSM]

✓INFORMATION -----

- To set the preferred network type automatically, in Step 2, tap [5G/4G/3G/GSM].

❖ Date & time

When [Set time automatically]/[Use network-provided time zone] in [Date & time] is set to ON, the date, time and time differences of the terminal are corrected by receiving information related to time and time differences from the network of overseas telecommunications carrier you connect to.

- Correction of the time or time differences may not be performed correctly depending on the network of overseas network operator. In that case, set time zone manually.
- Timing of correction varies by the overseas network operator.
- "Date & time" → P174

❖ About inquiries

- For loss or theft of the terminal or nano SIM card, immediately contact XXXXX from the spot to take the necessary steps for suspending the use. For inquiries, see the last page of this manual. Also, you can take the steps for suspending the use from My XXXXX. Note that you are still liable for the call and communication charge incurred after the loss or theft occurred.
- For using from land-line phone, entering "International call access number" or "Universal number international prefix" for the country is needed.
- If you subscribe to ahamo, contact us from the ahamo website. (in Japanese only)

Making/Receiving a call in the country you stay

◆ Making a call to outside country you stay (including Japan)

By utilizing an international roaming service, you can make a call to the other party's land-line phone or mobile phone in other countries/regions in the same way you do in Japan.

- To easily make an international call to Japan or other countries/regions from the country you stay, add "+" before Country code and phone number.
- For available countries and network operators, refer to XXXXX website.

1 From the Home screen, → [arrows] → [かんたん電話 (Easy phone)]

- When the call history appears, tap [ダイヤル (Dial)].

2 + (Touch and hold "0") → Enter Country code, Area code (City code), and then phone number

- Omit leading "0" of the Area code (City code) if the code starts with "0". In some countries and areas such as Italy, "0" is required.
- To call an overseas WORLD WING user, enter "81" (Japan) for the country code.

3 [電話をかける (Make a call)]

4 When a call is ended,

◆ Making a call using International dial assist

To make a call to Japan from the country you stay, use International dial assist for making an international call in simple operation.

- Set the automatic conversion function in international dial assist to ON in advance. → P190

1 From the Home screen, → [arrows] → [かんたん電話 (Easy phone)]

2 Enter Area code (City code), and then phone number

3 [電話をかける (Make a call)]

- When the "International dial assist" screen appears, tap [Phone Call to Japan(+81)].

4 When a call is ended,

◆ Making a call inside the country you stay

You can make a call to the other party's land-line phone or mobile phone just by entering the phone number in the same way you do in Japan.

1 From the Home screen,  → [arrows] → [かんたん電話 (Easy phone)]

2 Enter a phone number

- To make a call to a land-line phone, enter Area code (City code), and then phone number.

3 [電話をかける (Make a call)]

- When the "International dial assist" screen appears, tap [Use original number].

4 When a call is ended, 

◆ Making a call to overseas WORLD WING users

If you make a call to the party using international roaming, make a call as an international call to Japan even when making a call in the country you stay.

- As this communication is made via Japan regardless of the country you stay, enter the phone number as you make an international call to Japan.
+ (Touch and hold "0") - "81 (Country code for Japan)"
- "phone number with leading "0" omitted"

◆ Receiving a call inside the country you stay

You can receive a call when you are overseas in the same way as you do in Japan.

✓INFORMATION

- An incoming call during international roaming is forwarded internationally from Japan regardless of which country/region the call is from. A caller is charged for a communication fee to Japan, and the receiver is charged for a reception fee.

❖ Making a call to your terminal

■ To have the other party in Japan call you overseas

To have the other party in Japan call you using a land-line phone or mobile phone, the other party can call you just by dialing your phone number in the same way as the other party does in Japan.

■ To have the other party outside Japan call you in the country you stay

You have to receive a call through Japan no matter where you are; therefore, the other party needs to enter the international call access number of the country of the caller and "81" (Country code for Japan).

International call access number of the country of the caller
-81-90 (or 80, 70) - XXXX - XXXX

Setting international roaming

Make settings to use the international roaming service.

- The settings may not be made depending on overseas network operator.

1 From the Home screen, →[arrows]→[Call Settings]→[Settings for network services/roaming/Extension Line service]→[Roaming settings]

2 Set required items

Incoming call restriction while roaming : Restrict incoming calls during international roaming.

Incoming call notification while roaming : Notify you of missed calls when you are out of service area etc. during international roaming via SMS.

Roaming guidance : Notify a caller of international roaming with a guidance indicating it is a call during international roaming.

Network service : Setting steps→P189

◆ Setting the network service (overseas)

Set the network services such as the voicemail service to use overseas.

- Activate [Remote operation settings] in advance.→P88
- If you make the settings overseas, you are charged a call fee to Japan from the country you stay.
- The settings may not be made depending on overseas network operator.

1 From the Home screen, →[arrows]→[Call Settings]→[Settings for network services/roaming/Extension Line service]→[Roaming settings]→[Network service]

2 Select the intended service

Remote operation (charges apply) : Set whether to activate the remote operation.

Caller ID notification request service (charges apply) : Plays the guidance of requesting a caller ID notification when receiving a call with an unknown number.

Incoming call notification while roaming (charges apply) : Setting steps→P189

Roaming guidance (charges apply) : Setting steps→P189

Voicemail service (charges apply) : Takes a message from a caller while you are outside of the service area or when the terminal is turned off. (Subscription is required)

Call forwarding service (charges apply) : Forwards a call to another terminal registered in advance. (Subscription is required)

3 Operate according to the on-screen instructions

4 Operate according to the voice guidance

◆ Setting International dial assist

- 1** From the Home screen, →[arrows]→[Call settings]→[International dial assist]
- 2** Place a check mark on [Automatic conversion]
 - +81 is added automatically when making a call from overseas.

After returning to Japan

After returning to Japan, restore to the settings which are made before you traveled.

■ When you used packet communication overseas

Set [Data roaming] in [Mobile network] to OFF.→P185

■ When you cannot connect XXXXX network automatically after returning to Japan

- Set [Preferred network type] in [Mobile network] to [5G/4G/3G/GSM].→P186
- Turn on [Automatically select network] in [Mobile network].→P186

Appendix

Troubleshooting (FAQ)

◆ Troubleshooting

- If you suspect the terminal does not operate correctly, you can check with diagnostics by yourself.
For details, refer to XXXXX website.
- Check for the necessity of software update first, and update the software if necessary.→P97
- If checking the following items does not improve the state, feel free to contact us. For inquiries, see the last page of this manual.

■ Power supply and charging

● The terminal cannot be turned ON

Check if the battery is not run out.→P42

● The screen freezes/The terminal cannot be turned OFF

- If the screen does not respond or the power cannot be turned off, press and hold Power key and the volume down key for 8 seconds or more and release the fingers after the screen is turned off to shut down the power forcibly.
- Press and hold Power key and the volume down key for 32 seconds or more and release the fingers after the start screen appears to restart the terminal forcibly.

* Note that data and settings may be erased since that is an operation for shutting down of the power or restarting forcibly.

● Cannot charge the battery

- Is the adapter's power plug inserted to the outlet or accessory socket correctly?
- Are the adapter and the terminal set correctly?→P43
- When using an AC adapter (optional), check if the Type-C plug of the AC adapter is connected to the terminal securely.→P43
- Is the PC turned on when you connect the terminal with the PC via USB connection?
- If you perform call, communication, or operate functions for a long time while charging, temperature of the terminal may be raised. In high temperature status, the terminal stops charging for safety. Wait a while until the temperature is lowered and retry to charge.

● Software update is failed (the screen freezes or the terminal restarts repeatedly)

- If the Home screen does not appear after a software update, the terminal may be recovered by reverting the software to the previous version.→P199

■ Operations/Display

● No operations are performed even by tapping or pressing keys

- Is the terminal turned off?→P44
- Is the terminal in sleep mode? Press Power key to unlock.→P45

● The operation time provided by the battery is short

- Running multiple applications increases battery consumption and usage time may become short. Exit from applications which you are not using as follows.
 - Exiting running application→P67
 - Exiting applications with  (Back)
- To see support information about arrows such as setting of saving the battery power or how to use the terminal conveniently, refer to arrowsポータル (arrows portal: in Japanese only).
- Is the terminal left for a long time under the state of out of service area? Out of service area, a lot of power is consumed to search available radio waves. If you are out of service area for a long time, set [Airplane mode] to ON or turn off the terminal.→P44, P138
- The operation time provided by the internal battery varies by the operating environment and battery deterioration.
- The battery indicator of the internal battery may fluctuate between values depending on the battery deterioration, usage environment, or usage condition.
- The internal battery is a consumable part. Each time the internal battery is recharged, the battery usage time per one charge gradually decreases. Replace the internal battery if the terminal has extremely shorter operation time than that at the time of purchase even on a full charge. Upon request, XXXXX will replace the internal battery for a fee. We will take repairs at the repair reception. See "Warranty and After-Sales Service" (→P200).
- You can save the battery life by limiting the battery charging to approximately 85%.→P160
- Set the Wi-Fi or Bluetooth to Off when you do not use the function.→P33, P179

● The nano SIM card is not recognized.

Is the nano SIM card installed in the right direction?→P38

● The screen reacts slowly when the touch panel is tapped/the key is pressed.

When large amount of data is saved in the terminal or when transferring large-size data between the terminal and microSD card, the reactions on the screen may be delayed.

● The terminal etc. becomes hot while operating/charging

While operating or charging, or if you call or watch videos, etc. for a long time while charging the battery, the terminal, internal battery and adapter may become hot. There is no problem and you can continue to use them.

● The terminal becomes hot while operating/charging

If high temperature of the terminal continues, charging or some functions may not be available.

● The terminal becomes hot and the power turns OFF

If you activate several applications, use camera, connect to the Internet for a long time while charging the battery, etc., temperature of the terminal may rise. When the terminal is in high temperature state for a long time, charging or the functions may stop or the screen brightness may be adjusted. And the power of the terminal may shut down to prevent you from burns.

● The display is dim

- Have you changed any of the following settings?
 - Brightness→P147
 - Screen timeout→P147
 - Battery Saver→P145
- When the terminal is in high temperature state for a long time, the display may become dim.

● **Display flickers**

If [Adaptive brightness] is ON, the display may be looked like flickered because backlight automatically changes according to the ambient brightness.→P146

● **Mails are not received automatically**

Is the frequency of checking the inbox set to "Check manually" with the mail account setting?

● **The display has afterimages**

If the same screen is displayed for a while, afterimages of that screen may remain even after the screen is changed for a certain operation.

● **The clock is not on time**

The clock time may become wrong when the power is turned on for a long time. Check if [Set time automatically]/[Use network-provided time zone] in [Date & time] are ON and turn the power off and on in a place with strong radio wave conditions.→P174

● **Terminal operation is unstable**

- Instability may be caused by applications that you installed after you purchased the terminal. If the symptom is improved when you boot the terminal in safe mode (near default state), uninstalling the installed application may improve the symptom.

- Safe mode is a function to let the terminal start in a near default state.

Boot the terminal in safe mode with one of the following procedures.

- With the terminal powered on, press Power key (1 sec. or more)→Touch and hold [Power off]/[Restart]→[OK]
- With the terminal powered off, press and hold Power key for 2 seconds or more. Immediately after the XXXXX logo disappears, press and hold the volume down key

When safe mode is booted, "Safe mode" is displayed at the lower left of the screen. To exit the safe mode, turn the power OFF and ON.

- * Back up the necessary data before using in safe mode.
- * As the terminal does not start normally in the safe mode, exit the safe mode to use ordinarily.
- * Some applications or widgets may be hidden.

● **Operations are not possible when tapping the screen**

- Do you operate with your fingernail or put a foreign object on the screen?
- Do you put a protective sheet or sticker on the display? Depending on the protective sheet, you cannot operate the terminal correctly.
- Do you operate with the touch panel wet or with your finger wet with sweat or water?
- Do you operate under water?
- Touch the touch panel with your finger directly to operate the terminal.

● **Operations are slower/Application operation is unstable/Some applications are not activated**

Operation is unstable when the terminal memory is low. When a message indicating low on memory appears, uninstall unnecessary applications. →P115, P143

● **Applications cannot be operated properly (applications cannot be activated/errors occur frequently)**

Are there any applications being disabled? Enable disabled applications, then retry.→P144

● **Data is not displayed normally/Normal touch panel operations are not possible**

Turn the terminal OFF and ON.→P44

■ Phone/Voice call

- **Cannot dial by tapping [電話をかける (Make a call)]/ **
Do you set Airplane mode?→P138
- **During a voice call, the distant party's voice is hard to listen to or too loud**
 - Adjust the listening volume.→P86
- **Calls are not connected (Even when moving,  does not disappear or although radio waves are enough, making/receiving calls is unavailable)**
 - Turn the power OFF and ON, or reattach the nano SIM card.→P38, P44
 - Due to the nature of radio waves, making/receiving calls may be unavailable even when "not out of service area" or " appears on the display for the radio wave condition". Move to call again.
 - Do you set call restriction such as Call Blocking?→P89
 - Have you changed network type (5G/4G/3G/GSM) of [Preferred network type]?→P186
 - Due to the crossing of radio waves, at the crowded public places, calls/emails are crossed and the connection status may not be good. Move to the other place or call again at other time.
- **The ringtone does not sound**
 - Is [Ring & notification volume] set to 0?→P150
 - Have you activated any of the following functions?
 - Airplane mode →P138
 - Do you set call restriction such as Call Blocking?→P89
 - The followings are set to 0 seconds?
 - [Set answer time] in the Phone memo→P88
 - [Ring time settings] in Voicemail service→P88
 - [Ring time] in Call forwarding service→P88

● Calls cannot be made

- Is the nano SIM card installed in the right direction?→P38
- Do you enter a phone number from City code?
- Do you set Airplane mode?→P138

■ Camera

● Photos and videos taken with the camera are blurred

Check if clouds or dirt attach to the lens of camera.

■ Osaifu-Keitai

● Osaifu-Keitai function is unavailable

- Is [NFC/Osaifu-Keitai] set to OFF?→P181
- Is Lock NFC/Osaifu-Keitai set?→P118
- Do you place  mark of the terminal over IC card reader? →P116, P117
- When Omakase Lock is set,  appears on the status bar and Osaifu-Keitai functions are unavailable regardless of the NFC/Osaifu-Keitai lock settings.

■ Overseas use

● Cannot use the terminal even when displayed overseas

Do you subscribe to WORLD WING? Check if you subscribe to WORLD WING.

- ** displayed, and you cannot use the terminal overseas**
 - Are you at a location that is outside of the international roaming service area, or where the signal is weak? See XXXXX website to check if it is the available service area or the available overseas network operator.
 - Change network type of [Preferred network type] to [5G/4G/3G/GSM].→P86

- Set [Automatically select network] in [Mobile network] to ON.→P186
 - It may be recovered by turning the terminal OFF and ON.→P44
- **Cannot use the terminal suddenly while using overseas**
Check if usage amount exceeds the limit of maximum charges for use. For use of International roaming service (WORLD WING), the limit of maximum charges for use is set in advance. If exceeding the limit of maximum charges for use is exceeded, pay the charges.
- **There is no incoming call overseas**
Is Incoming call restriction while roaming set to [Activate restriction]?→P189
- **No caller ID is notified/A notified caller ID is different from that of the caller/Functions for using contents saved in the phonebook or those using Caller ID notification do not operate**
Even when a caller notifies its caller ID, it is not displayed on the terminal unless notified from the network or the network operator in use. And, a notified caller ID may be different from that of the caller by some networks or network operators you use.
- **Cannot perform data communication overseas**
Check the data roaming settings.→P185
- **Data management**
- **Data saved in microSD card is not displayed**
Reattach the microSD card.→P41
- **Data transfer is not performed**
Do you use USB HUB? If you use USB HUB, operations may not be performed correctly.

● **Images cannot be viewed**

If image data is broken, image cannot be viewed. When you open the file with "Files" application, etc., a black image may be displayed.

■ **Bluetooth**

● **The terminal cannot be connected to a Bluetooth device/A Bluetooth communication device cannot be found from the terminal**

Make Bluetooth communication device (commercially available) detectable and then register the device on the terminal. When you delete a registered device and then register the device again, delete the registrations on both Bluetooth device (commercially available) and the terminal, and then perform registration of the device.→P179, P180

● **Calls cannot be made from the terminal connected to an external device such as car navigation or handsfree device**

If calls are made several times when the other party does not answer or is out of service, the call to this number may be disabled. In this case, turn the terminal OFF and ON.

■ **Others**

● **Data saved in USB mass storage is not displayed**

Reattach the USB mass storage.

● **Commercially available external devices (USB mouse, keyboard, etc.) are not recognized.**

- When you use Type-C conversion adapter (commercially available), connect Type-C conversion adapter to the external device and then connect to the terminal.

* Note that XXXXX does not guarantee all of commercially products. Use a product compatible with HOST function (OTG function).

◆ Error messages

● Memory space is full

The terminal is low on memory. If you keep using, some functions and applications may not be operated.

Open setting screen to select unnecessary apps, then press "Uninstall" to uninstall them.

It is displayed when the available memory of the terminal is low. Tap [Setting screen] to delete unnecessary applications. Alternatively, end running applications or clear cache of applications to increase memory space. → P67, P143

● Fingerprint hardware not available.

Displayed when the fingerprint sensor does not work normally. When the fingerprint sensor cannot be used even if you turn the power off and on, contact a nearest sales outlet such as XXXXX Shop.

● No voice service or emergency calling/No voice service/ Emergency calling unavailable/No mobile data service

Phone line or packet communication facilities are broken down or line or packet communication network is very busy. Wait a while and then operate again.

● SIM is unusable. Contact your carrier.

Displayed when you failed to enter PUK of nano SIM card 10 times consecutively. Please contact a sales outlet such as a XXXXX Shop. → P49

● No SIM card

Check if the nano SIM card is installed to the terminal correctly. → P38

● SIM card is locked

Displayed when you power on the terminal with PIN enabled. Enter correct PIN code. → P49

● SIM card is PUK-locked

Displayed when nano SIM card is locked by PUK code. Enter correct PUK code. → P49

● An error occurred during download processing.

If the error message appears several times, restart the terminal and perform the update again.

● Charging stopped due to charging error. Remove connected device or cable from terminal.

The voltage may be low due to defect of AC adapter, etc. Disconnect the cables of connected AC adapter or device.

Software Update

◆ About Software Update

Software update* is a function which updates the software so as to use the terminal safer and more comfortable. The followings are included. Be sure to update the software to the latest one.

There are the following 4 types¹ updates for Software update.

* Indicated as System update on the terminal.

■ Android OS upgrade

Upgrade Android OS and update the version of the pre-installed applications to improve the function/operability/quality resulting in using the terminal more comfortable and safer.

■ Adding to new functions

Update the pre-installed applications or functions of the terminal to improve the function/operability resulting in using the terminal more comfortable.

■ Improving quality

Update the pre-installed applications or functions of the terminal to improve the quality resulting in using the terminal more comfortable.

■ Security patch update

Perform security patch update to apply the software that manages the vulnerability. Apply the software so that you can use the terminal safer.

For detail of the updates which provided to the terminal and the period, refer to XXXXX website.

❖ Terms of use

- No fee is incurred if the access point (APN) is set to XXXXX and you set priority to XXXXX for mobile data communication.
- To perform software update overseas, Wi-Fi connection is required.
- When the software is modified, update is not available.

◆ Performing the software update

❖ Start of update

To start updating, perform the either operation in the following.

■ From the update notification

From the status bar of the terminal, tap the notification and then start updating.

■ From the screen which appears on a regular basis

When updating the terminal is available, a confirmation screen may appear. Select the operation in the confirmation screen to proceed with the update.

■ From the Settings menu of the terminal

From the Home screen, [Home] → [Settings] → [System] → [System update], and then start the update.

* When software update is not necessary, "Your system is up to date" appears.

❖ Flow of updating

Updating can be executed as follows.

For detail operation steps, follow the on-screen instructions on the terminal.

1 Downloading an update file and installing

- Depending on update type, downloading an update file and installing will be executed automatically.
- A notification or confirmation screen may appear before downloading and installing the update file. When a notification or confirmation screen appears, proceed the system update by following the indicated procedure.
- * Though a notification or confirmation screen appears when a communication fee is incurred, no fee is incurred if the access point (APN) is set to XXXXX and you set priority to XXXXX for mobile data communication.

2 Restart

As soon as update preparation is completed, a notification or confirmation screen appears.

Tap [Restart now] to restart the terminal.

Tap [Restart after 2:00 AM] to restart the terminal at night automatically.

- * The confirmation screen appears just before the terminal restarts. If you want to cancel restarting the terminal, tap [Not now] within the certain period of time.

3 Notification of update completion

- When the update is complete, an update completion screen appears on the terminal.
- After the Android OS version upgrade, check if there are updates of the applications that you have installed personally. Operations may become unstable or function may not work properly without updating.

❖ Cautions

- Once updating is complete, restoring the previous software is not possible.
- While updating, the private information concerning the terminal (model, serial number, etc.) is sent to the server of XXXXX does not use the sent information for purposes except software update.
- Software update includes restarting the terminal and no functions including making/receiving a call are available while software update is in progress.
- When software update is performed, some settings may be initialized. Make the settings again.
- When PIN code is set, the PIN code entry screen appears in the reboot step after rewriting and you need to enter PIN code.
- If a software update is failed and the Home screen does not appear because the screen freezes or the terminal restarts repeatedly, the terminal may be recovered by reverting the software to the previous version.
<Operating procedure>
 - ① Press and hold Power key and volume down key for 8 seconds or more at the same time (The terminal turns off)
 - ② When the terminal turns off, release your fingers from Power key and volume down key

- ③ Press and hold Power key and volume up key for 3 seconds or more at the same time
- ④ When the terminal vibrates, release your fingers from Power key and volume up key
 - * The terminal starts with the previous software and the Home screen appears.
 - * If the terminal is not recovered after the operating procedures above, please contact XXXXX-specified repair office or Online Repair Acceptance Service.

- Software update can be done even when data saved to the terminal is remaining; note that data may not be always secured depending on the conditions of your terminal (such as malfunction, damage, or water leak). You are recommended to back up necessary data beforehand. Availability of data backup for each application varies by application. For procedure of backup with each application, contact the developer of application.
- Software update is unavailable in the following cases. Solve the phenomenon and then retry.
 - During a call
 - When date or time is not set correctly
 - When the remaining battery is not sufficient
 - When the internal storage is low on available memory
 - During international roaming
- Do not turn off the terminal during software update.

Warranty and After-Sales Service

❖ Warranty

- The warranty is valid for a period of one year from the date of purchase.
- The specifications and the outer appearance of the terminal are subject to change for improvement without prior notice.
- Troubles, repair or other handling of the terminal may cause contents in the phonebook etc. to be altered or deleted. XXXXX recommends making a copy of the Phonebook data etc., in case.
- * You can save the phonebook data in a microSD card inserted to the terminal.
- * Data such as phonebook entries can be backed up by using XXXXX cloud.
- * Some applications or services are not available depending on your contract detail. For details, refer to XXXXX website.

■ Free repair service provisions

- ① In case the product has a malfunction under normal-use conditions in line with the directions given in the instruction manual etc., it will be repaired free of charge on the condition that the warranty period has not expired. (In some cases, the product may be replaced with the substitute.)
- ② Even if the warranty period has not expired, a fee may be charged for repair under the following circumstances.
 1. The malfunction or damage is due to modification (including alteration of software) of the product.

2. The malfunction or damage is due to damage of the terminal body, display, external connection jack, etc. caused by being dropped or subjected to an external pressure, or the malfunction or damage is due to breakdown or deformation of the internal circuit board of the terminal.
 3. The malfunction or damage is due to fire, pollution, abnormal voltage, earthquake, thunder, wind and flood damage or other natural disaster, etc.
 4. The malfunction or damage is due to connected devices other than specified or consumable items.
 5. The malfunction or damage is due to water infiltration, wetting is detected by wetting detectable sticker of the terminal, signs of submergence or water stain is found, or corrosion by condensation is found.
 6. The product has been repaired by other than a repair office specified by XXXXX.
- ③ This warranty is valid only in Japan.
 - ④ This warranty guarantees repair free of charge during the period and under the conditions specified on this warranty card. Thus this warranty does not limit the legal rights of the owner.
 - ⑤ If several malfunctions are detected on the terminal, all of malfunctions will be repaired because the quality of the product cannot be guaranteed by a partial repair. In that case, repair may be out of the warranty of free charge repair.
 - ⑥ The software of the terminal may be updated to the latest one when operation confirmation test is performed without regard to repair.
 - ⑦ Please find repaired part and repair date on the repair report that is handed over upon completion of repair.

<Sales>

XXXXX, INC.

11-1, Nagata-cho 2-chome, Chiyoda-ku, Tokyo

❖ After Sales Services

■ When problems occur

Before asking repair, see "Troubleshooting" in this manual to check the problem (→P191).

■ If a repair is required

We will take repairs at the XXXXX-specified repair office (our repair office or XXXXX website).

See the last page of this manual for the contacts.

Note that repair may take some days depending on the problem.

■ After expiration of the warranty

All repairs that are requested are charged.

■ Replacement parts

Replacement parts (parts required to maintain functions) will in principle be kept in stock for 4 years after termination of production.

For details about technical inquiries and repairs, see XXXXX website.

However, depending on the defective portion, repair may not be possible because of a shortage of repair parts. For details, contact XXXXX-specified repair office. See the last page of this manual for the contacts.

■ Notes

- Never modify this terminal or included accessories.
 - May cause fire, injuries, or malfunction.
 - The modified terminal may be repaired only if the owner agrees on that all the modified parts are restored to the original conditions. However, repairs may be refused depending on the modifications.
- The following cases may be regarded as modifications.
 - A sticker etc. is put on the display or button part
 - The terminal is embellished with adhesive material etc.
 - Exteriors are replaced with other than XXXXX's genuine parts
- Repair of failures or damage caused by modification is charged even during the warranty period.
- Function settings and information may be cleared (reset) by malfunctions, repair or other handling of the terminal. Should that happen, perform the setup again. Depending on the setting, a packet communication charge may be applied.
- If repair is executed, MAC address for Wi-Fi and Bluetooth address may be changed regardless of malfunction part.
- Take care not to bring an object that is easily affected by magnetism such as a cash card near to the terminal because the card may become unavailable.
- This terminal is waterproof. However, if inside of the terminal gets wet or moist, turn the power off immediately, and it is recommended that you have terminal repaired at a XXXXX specified repair office as soon as possible. Note that repair may not be possible depending on the condition of the terminal

Data you created and downloaded data

Note that data you created or data you retrieved or downloaded from sources other than your terminal may be changed, lost, etc. when you change the model or have repairs done to the terminal. XXXXX shall have no liability for any change or loss of any kind. Note that XXXXX is not liable for a packet communication charge of re-downloading data. Under some circumstances, XXXXX may replace your terminal with its equivalent instead of repairing it. In that case, we cannot transfer these data to replaced products except for some data.

Main specifications

Changes may occur due to software update, etc. For the latest information, refer to XXXXX website.

■ Phone

Product name			F-52E
Size			Approx. 155 mm (H)×72 mm (W)×8.6 mm (T)
Weight			Approx. 171 g
Display	Size		Approx. 6.24 inches
	Type		Organic EL
	Resolution (Number of pixels, horizontal × vertical)		Full HD+ (1080×2400)
Internal memory			RAM : 8 GB ROM : 128 GB*1
Battery capacity	Battery capacity		4600 mAh
	Wattage rating value		17.49 Wh
Continuous stand-by time (at rest)*2, 3		4G (LTE)	Approx. 550 hours
Continuous call time*3, 4	4G (LTE)	LTE (VoLTE)	Approx. 1,900 min.
		LTE (VoLTE (HD+))	Approx. 1,830 min.

Charging time		AC Adapter 08 : Approx. 160 min.
Wireless LAN	Supported standards	IEEE802.11a/b/g/n/ ac compliant (IEEE802.11n supported frequency band : 2.4 GHz/5 GHz)
	MIMO support	-
	MU-MIMO (client) support	Supported
	MIMO supported standards	-
	MU-MIMO (client) supported standards	IEEE802.11ac
Bluetooth	Version	5.2 ^{*5}
	Output	Power Class 1
	Supported profile*6/ Codec	HFP (1.8) ^{*7} , HSP (1.2), OPP (1.2), SPP (1.2), HID (1.0), A2DP (1.3) ^{*8} , AVRCP (1.6), PBAP (1.2), PAN (1.0) ^{*9} , HOGP (1.0)

Camera	Image pickup device	Type	Out-camera (wide) : Backside-illuminated stacked CMOS Out-camera (ultra wide) : Backside-illuminated stacked CMOS In-camera : Backside- illuminated stacked CMOS
		Size	Out-camera (wide) : 1/1.5 inches Out-camera (ultra wide) : 1/4.0 inches In-camera : 1/3.0 inches
	Number of effective pixels		Out-camera (wide) : Approx. 50.3 million pixels Out-camera (ultra wide) : Approx. 8.1 million pixels In-camera : Approx. 12.4 million pixels
	Recording file format	Videos	MP4
		Still images	JPEG
	Maximum recording time per one video		Approx. 36 min.* ¹⁰
	Zoom (Digital)	Still images	Out-camera : Up to x8.0 In-camera : —
		Videos	Out-camera : Up to x8.0 ^{*11} In-camera : —

Video playback	Codec	H.263, H.264, H.265, MPEG-4, VP8, VP9, AV1
Music playback	Codec	AAC, HE-AAC v1, HE-AAC v2, AAC ELD, xHE-AAC, AMR-NB, AMR-WB, FLAC, MP3, MIDI, Vorbis, PCM, Opus, AIFF
Multilingual function	Display language	Japanese/English
	Input language	Japanese/English
Phone memo	Savable numbers	Up to 10
	Maximum recording time per one item	Up to 1 minute

- *1 You cannot use all of the space of memory for saving data such as shot videos and still images, downloaded applications or data, etc. For available memory, see "Storage"→P146
- *2 Continuous standby time indicates the estimated average operation time when radio signal reception is normal. It varies greatly according to the terminal settings, usage environment, use frequency of calling/mail/camera, etc.
- *3 When the use frequency of each function is high, actual usage time may be less than half.

- *4 Continuous call time varies greatly according to the terminal settings, usage environment, use frequency of calling/mail/camera, etc.
- *5 It is confirmed that the terminal and all Bluetooth devices are compliant with Bluetooth standards designated by Bluetooth SIG, and they are authenticated. However, procedures may differ or data transfer may not be possible depending on the device's characteristics or specifications.
- *6 Bluetooth compatible devices with specifications according to the intended use, Bluetooth standards.
- *7 It supports mSBC (16 kHz) and CVSD.
- *8 The terminal supports AAC, aptX, aptX HD, aptX Adaptive, LDAC™, and SBC audio codecs.
- *9 The terminal supports PAN-NAP and PANU.
- *10 It is a recording time when the Picture size is Full HD (1920×1080).
- *11 Up to x5.0 when Image Stabilization is ON, and up to x8.0 when Image Stabilization is OFF.

Specific Absorption Rate (SAR) Information of Mobile Phones

This model F-52E mobile phone complies with the Japanese technical regulations and the international guidelines regarding human exposure to radio waves. This mobile phone was designed in observance of the Japanese technical regulations regarding exposure to radio waves*1 and the limits of exposure recommended in the international guidelines, which are equivalent to each other. The 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 substantial safety margins designed to assure the safety of all persons, regardless of age and health conditions.

The technical regulations and the international guidelines set out the limits of exposure to radio waves as the Specific Absorption Rate, or SAR, which is the value of absorbed energy in any 10 grams of human tissue over a 6-minute period. The SAR limit for mobile phones is 2.0 W/kg.

The highest SAR value for this mobile phone when tested for use near the head is $X.XXX \text{ W/kg}^*2$, and that when worn on the body is $X.XXX \text{ W/kg}^*3$. There may be slight differences of the SAR values in individual product, but they all satisfy the limit. The actual value of SAR of this mobile phone while operating can be well below the indicated above. This is due to automatic changes in the power level of the device to ensure it only uses the minimum power required to access the network.

This mobile phone can be used in positions other than against your head. By using accessories such as a belt clip holster that maintains a 1.5cm separation with no metal (parts) between it and the body, this mobile phone is certified the compliance with the Japanese technical regulations and the international guidelines.

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."

Please refer to the WHO website if you would like more detailed information.

<https://www.who.int/news-room/fact-sheets/detail/electromagnetic-fields-and-public-health-mobile-phones>

Please refer to the websites listed below if you would like 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 (in Japanese only)

XXXXX, INC. Website:
<https://www.xxxxx.co.jp/english/product/sar/FCNT>
LLC Product Information Website:
<https://www.fcnt.com/support/sar/> (in Japanese only)

- *1 The technical regulations are provided in Article 14-2 of Radio Equipment Regulations, a Ministerial Ordinance of the Radio Act.
- *2 Including other radio systems that can be simultaneously used with 5G/LTE.
- *3 Including other radio systems that can be simultaneously used with 5G/LTE.

◆ Declaration of Conformity

Trade Mark: FCNT

Model Name: F-52E

Hereby, FCNT LLC declares that the RE product of "F-52E" is in compliance with RED 2014/53/EU. The full text of the EU DoC is available at the following internet address:
<https://www.fcnt.com/support/ce/> (in Japanese only)

This mobile phone complies with the EU requirements for exposure to radio waves. Your mobile phone is a radio transceiver, designed and manufactured not to exceed the SAR^{*1} limits^{*2} for exposure to radio-frequency (RF) energy, which SAR^{*1} value, when tested for compliance against the standard was **X.XX W/kg^{*3}** for HEAD and **X.XX W/kg^{*3}** for BODY. While there may be differences between the SAR^{*1} levels of various phones and at various positions, they all meet^{*4} the EU requirements for RF exposure.

*1 The exposure standard for mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR.

*2 The SAR limit for mobile phones used by the public is 2.0 watts/kilogram (W/kg) averaged over ten grams of tissue, recommended by The Council of the European Union. The limit incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.

*3 Including other radio systems that can be simultaneously used with cellular radio wave.

- *4 Tests for SAR have been conducted using standard operation positions 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 base station antenna, the lower the power output.

Radio type/Description		Transmitter Frequency	Maximum Power
GSM	GSM900	880-915MHz	33.0dBm
	DCS1800	1710-1785MHz	30.5dBm
UMTS	FDD I	1920-1980MHz	25.0dBm
LTE	FDD 1	1920-1980MHz	25.0dBm
	FDD 3	1710-1785MHz	25.0dBm
	FDD 8	880-915MHz	24.5dBm
	FDD 28	703-748MHz	24.5dBm
	TDD 41	2496-2690MHz	24.0dBm
	TDD 42	3400-3600MHz	24.5dBm
NR	n1	1920-1980MHz	24.5dBm
	n28	703-748MHz	24.5dBm
	n77(78)	3300-4200MHz	25.0dBm
WLAN 2.4GHz	IEEE 802.11b	2400-2483.5MHz	13.0dBm
	IEEE 802.11g	2400-2483.5MHz	13.0dBm
	IEEE 802.11n	2400-2483.5MHz	13.0dBm

Radio type/Description		Transmitter Frequency	Maximum Power
WLAN 5GHz	IEEE 802.11a	5150-5350MHz	12.5dBm
		5470-5725MHz	12.5dBm
		5725-5850MHz	12.5dBm
	IEEE 802.11n	5150-5350MHz	12.5dBm
		5470-5725MHz	12.5dBm
		5725-5850MHz	12.5dBm
	IEEE 802.11ac	5150-5350MHz	12.5dBm
		5470-5725MHz	12.5dBm
		5725-5850MHz	12.5dBm
Bluetooth	Bluetooth	2400-2483.5MHz	14.0dBm
RFID	NFC	13.56MHz	-18.91dBμA/m 10m

The manufacturer of this product is FCNT LLC with its registered place of business at 7-10-1 Chuurinkan, Yamato-shi, Kanagawa 242-0007, Japan.

◆ Federal Communications Commission (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 made in or to the radio phone, not expressly approved by the manufacturer, will void the user's authority to operate the equipment.

◆ FCC RF Exposure Information

This model phone meets the U.S. Government's requirements for exposure to radio waves. This model phone contains a radio transmitter and receiver. This model phone is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy as set by the FCC 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 exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate (SAR). The SAR limit set by the FCC is 1.6 W/kg. Tests for SAR are conducted using standard operating positions as accepted by the FCC 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 level of the phone.

Before a phone model is available for sale to the public, it must be tested and certified to prove to the FCC that it does not exceed the limit established by the U.S. government-adopted requirement for safe exposure. The tests are performed on position and locations (for example, at the ear and worn on the body) as required by FCC for each model. The highest SAR value for this model phone as reported to the FCC, when tested for use at the ear, is 0.36 W/kg*, and when worn on the body, is 0.94 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 U.S. government requirements. 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 Equipment Authorization Search section at <https://www.fcc.gov/oet/ea/fccid/> (please search on FCC ID **2BEPUFMP195**).

For body worn operation, this phone has been tested and meets the FCC RF exposure guidelines.

Please use an accessory designated for this product or an accessory which contains no metal and which positions the handset a minimum of 0.5 cm from the body.

- In the United States, the SAR limit for wireless mobile phones used by the general public is 1.6 Watts/kg (W/kg), averaged over one gram of tissue. SAR values may vary depending upon national reporting requirements and the network band.

* Including other radio systems that can be simultaneously used with cellular radio wave.

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 on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

◆ Important Safety Information

AIRCRAFT

Switch off your wireless device when boarding an aircraft or whenever you are instructed to do so by airline staff. If your device offers flight mode or similar feature consult airline staff as to whether it can be used on board.

DRIVING

Full attention should be given to driving at all times and local laws and regulations restricting the use of wireless devices while driving must be observed.

HOSPITALS

Mobile phones should be switched off wherever you are requested to do so in hospitals, clinics or health care facilities. These requests are designed to prevent possible interference with sensitive medical equipment.

PETROL STATIONS

Obey all posted signs with respect to the use of wireless devices or other radio equipment in locations with flammable material and chemicals. Switch off your wireless device whenever you are instructed to do so by authorized staff.

INTERFERENCE

Care must be taken when using the phone in close proximity to personal medical devices, such as pacemakers and hearing aids.

Pacemakers

Pacemaker manufacturers recommend that a minimum separation of 15 cm be maintained between a mobile phone and a pace maker to avoid potential interference with the pacemaker. To achieve this use the phone on the opposite ear to your pacemaker and does not carry it in a breast pocket.

For other Medical Devices :

Please consult your physician and the device manufacturer to determine if operation of your phone may interfere with the operation of your medical device.

Battery :

- Do not remove the battery from yourself. If you encounter a problem, contact Crosscall Customer Services.
- Use the charger included in your original phone box.
- Do not expose it to temperatures above 55°C/131°F.
- Do not tamper with your phone using sharp metal objects because this may puncture the battery.
- If your phone has been crushed or severely damaged and the battery is affected, do not touch your phone and contact Customer Services who will tell you the procedure to follow.
- If you detect signs of overheating (abnormal smell, suspicious marks), do not touch your mobile and contact Customer Services immediately who will tell you what procedure to follow.
- Do not short-circuit.
- Recycle the battery according to standards in force.
- Do not throw into fire.
- Do not charge your phone during an electrical storm.
- Do not use your charger in a humid environment, this could cause short-circuits, fires, or damage the charger.
- Leaving a battery in an extremely high-temperature environment can result in an explosion or the leakage of flammable liquid or gas.
- A battery subjected to extremely low air pressure may result in an explosion or the leakage of flammable liquid or gas.
- Risk of explosion if battery replaced by an incorrect type.
- Dispose of used batteries according to the instructions.

* Temperature range (5°C to 35°C)

Warning

This device have been tested to comply with the Sound Pressure Level requirement laid down in the applicable EN 50332-1 and/or EN 50332-2 standards. Permanent hearing loss may occur if earphones or headphones are used at high volume for prolonged periods of time.
<Prevention of Hearing Loss>



High sound pressure

Warning: In order to prevent possible hearing damage, do not listen to high volume levels for long periods.

Temperature range (5°C to 35°C)

Export Administration Regulations

This product and its accessories may be under coverage of the Export Administration Regulations of Japan ("Foreign Exchange and Foreign Trade Control Laws" and the related laws and regulations). And, they may be also under coverage of Export Administration Regulations of the U.S. When exporting and reexporting this product and its accessories, take necessary procedures on your responsibility and expense. For details, contact Ministry of Economy, Trade and Industry of Japan or US Department of Commerce.

Intellectual Property Right

◆ Copyrights and portrait rights

Except for the case protected by copyright laws such as personal use, use of terminal to reproduce, alter, or publicly transmit recorded pictures or sounds, or copyrighted text, images, music or software downloaded from websites without the copyright holder's authorization is prohibited.

Note that taking photos or recordings at some demonstrations, performances or exhibitions may be prohibited even when only for personal use.

Avoid taking pictures of others with the terminal without their consent or disclosing recorded pictures of others without their consent to general public through Internet websites etc., because they may infringe on portrait rights.

◆ Trademarks

- "FOMA", "WORLD CALL", "WORLD WING", "sp-mode", "dmenu", "Caboneu", logo of "Osaifu-Keitai", logo of "iD", logo of "dmenu", logo of "dmarket", logo of "dphoto", logo of "dcard", logo of "Jspeak", logo of "XXXXX Data Copy", logo of "XXXXX voicemail", logo of "XXXXX phonebook", logo of "Data storage BOX", and logo of "Caboneu" are trademarks or registered trademarks of XXXXX, INC.
- "Catch Phone (Call waiting service)" is a registered trademark of Nippon Telegraph and Telephone Corporation.

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- This product contains open source software complying with GNU General Public License (GPL), GNU Lesser General Public License (LGPL), etc.
For details on the software license, from the Home screen, →[Settings]→[About phone]→[Legal information]→Third-party licenses].
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For details, refer the website below.
<https://www.fcnt.com/support/develop/> (in Japanese only)

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Use mobile phone with your manners!

Remember to be courteous to others when you use your terminal.

Always turn OFF your terminal in cases below

- In a place where use of mobile phone is prohibited
Follow the instructions of each airline or medical facility for the use of mobile phones on their premises. Power off the terminal in a place where the use is prohibited.

Always set Public mode in cases below

- While driving
Be careful when you use the terminal while driving a car etc. Unless otherwise specified by law, there is a penalty for gazing at the screen of the terminal or holding the terminal while driving.
- In public places such as a theater, movie theater, art museum, or library
Using the terminal in quiet public places will likely bother other people.

Match the volume of voice and ring alert to your location

- In a quiet place like a restaurant or hotel lobby, pay attention to the volume of your voice etc. when using the terminal.
- In town areas, use the terminal in a place where you do not disturb traffic.

Consider privacy

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

Do not use smartphone while walking

- It is very dangerous to walk while looking at a display of smartphone or mobile phone. That extremely narrows your field of view, and may lead an accident possibly involving surrounding people.
- Stop and stay in a safe place and then use smartphone.

Functions designed for public use

Your terminal has a number of useful functions designed for public use, such as a setting that instructs your terminal not to answer incoming calls and the ability to set the terminal for silent operation.

- **Public mode (Power OFF)→P88**

The caller hears an announcement notifying that the receiver is in a place requiring power-off of mobile phone, and the call is disconnected.

- **Vibration→P149**

Vibrates when there is an incoming call.

- **Mute→P150**

Eliminates all sounds the terminal makes, such as ringtone and keypad/touch sound (Shutter sound cannot be eliminated).

And you can use optional services such as Voice Mail Service and Call Forwarding Service.→P88

Online Procedures, Confirmation of Subscription, etc.

From the terminal dメニュー (dmenu)→"My XXXXX" (in Japanese only)

From PCs My XXXXX (<https://www.XXXXX.ne.jp/xxxxx/>) (in Japanese only)

- There are cases where the site may not be available depending on system maintenance or subscription, etc.
- You need "Network security code" and "ID/Password of d ACCOUNT" to use "My XXXXX".

For inquiries while overseas (for loss, theft, malfunction, etc.)

■ From XXXXX mobile phones

Display "+" -81-3-6832-6600 (toll free)

(To enter "+", touch and hold the "0" key)

- * You can use international call access numbers instead of "+" to call.

■ From land-line phones

International call access number for the country you stay -81-3-6832-6600 (charges apply)

- * You are charged a call fee to Japan.
- * For international call access numbers, refer to XXXXX website.

Business hours: 24 hours (open all year round)

- Please confirm the phone number before you dial.
- If you lose your terminal or have it stolen, immediately take the steps necessary for suspending the use of the terminal.
- If the terminal you purchased is damaged, bring your terminal to a repair counter specified by XXXXX after returning to Japan.



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モバイルリサイクルネットワーク
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We collect old phones, etc. regardless of brands and manufacturers.
Bring them to your nearest XXXXX Shop.

* Items to be collected: mobile phones, PHS, battery packs, chargers,
desktop holders (regardless of brands and manufacturers)

General Inquiries

Contact Us ►



XXXXX website:

<https://www.XXXXX.ne.jp/support/inquiry/> (In Japanese only)

General Inquiries <XXXXX Information Center>

Business hours: 9:00 a.m. to 8:00 p.m. (open all year round)
Service available in: English, Portuguese, Chinese, Spanish.

■ From XXXXX mobile phones

 No prefix) **15770** (toll free)

* Only from a XXXXX mobile phone or Smartphone.

■ From land-line Phones

 **0120-005-250** (toll free)

* May not be accessible from some IP phones.

■ From XXXXX mobile phones

 No prefix) **151** (toll free, in Japanese only)

* Only from a XXXXX mobile phone or Smartphone.

■ From land-line Phones

 **0120-800-000** (toll free, in Japanese only)

* May not be accessible from some IP phones.

ahamo Subscribers

■ For Inquiries about Repair

ahamo website:

<https://ahamo.com/> (In Japanese only)



Repairs

Business hours: 24 hours (open all year round)
Service available in: English, Portuguese, Chinese, Spanish.

■ From XXXXX mobile phones

 No prefix) **113** (toll free, in Japanese only)

* Only from a XXXXX mobile phone or Smartphone.

■ From land-line Phones

 **0120-800-000** (toll free, in Japanese only)

* May not be accessible from some IP phones.

- Please confirm the phone number before you dial.
- For Applications or Repairs and After-Sales Service, please contact the above-mentioned information center or check the XXXXX Shop etc. near you on the XXXXX website and contact.
- For online repair acceptance service, refer to XXXXX website.
XXXXX website
<https://www.XXXXX.ne.jp/support/inquiry/repair/>
(In Japanese only)