

Data usage

Enable/disable mobile data communication or set upper limit of data communication.

- 1 From the Home screen,  → "Settings" → "Connections" → "Data usage"
 - Data usage screen appears.
 - Set "Mobile data" ON to enable Internet access via mobile networks.
 - Tap "Mobile data usage" to display mobile data communication usage (estimate) by each period or each app. Tap  to restrict of mobile data communication usage and set to alert when limit reaches on the chart. To restrict the data usage, you can set only when "Set data limit" is ON.

Restricting background data communication

On the data usage screen, tap "Data saver" →  to restrict mobile data communication automatically made by apps.

Information

- Displayed data traffic volume is an estimate. It may be different from the actual one.
 - Customers with contracts other than the ahamo plan
You can check your data traffic volume at Mydocomo.
 - Customers with ahamo plan contracts
You can check your data traffic volume at Mydocomo.
- Note that mobile data communication will suspend when data usage volume reaches to the limit. To resume mobile data communications, tap "Resume" on the popup screen or change upper limit of data communication that can be used.
- If "Data saver" sets to "ON", you cannot use tethering function.

Using tethering

Tethering is a function which uses a mobile device such as smart phone as modem to connect wireless LAN devices, USB compatible devices and Bluetooth compatible devices to Internet.

- Up to 10 devices can be connected using Wi-Fi tethering and one device can be connected using USB tethering, and up to 3 devices can be connected using Bluetooth tethering at one time.
- When using tethering, subscribing to a packet pack or packet flat-rate service is highly recommended.

■ Setting Wi-Fi tethering
You can use your terminal as an Internet access point and connect at wireless LAN devices to Internet.

- 1 From the Home screen,  → "Settings" → "Connections" → "Tethering" → "Wi-Fi tethering"

2 

■ Setting access point for Wi-Fi tethering

- 1 From the Home screen,  → "Settings" → "Connections" → "Tethering" → "Wi-Fi tethering"

2 "Configure"

3 Set each item → "Save"

■ Setting Bluetooth tethering
You can use your terminal as an Internet access point and connect at Bluetooth devices to Internet.

- 1 From the Home screen,  → "Settings" → "Connections" → "Tethering" → "Bluetooth tethering"

Information

- In order to use Bluetooth tethering, this terminal needs to be detectable. For details, refer to "Enabling the Bluetooth function and making your terminal detectable" (P.113).

■ Setting

USB

tethering

You can connect to the Internet by connecting the terminal to a PC via USB cable A to C 02 (sold separately).

- 1 Insert Type-C plug of the USB cable A to C into the USB Type-C connection terminal of the terminal
 - See "Connecting with USB cable A to C" for details on the connection method.
- 2 Insert USB plug of the USB cable A to C into a PC USB port
- 3 From the Home screen,  → "Settings" → "Connections" → "Tethering" → "USB tethering"

Information

- During USB tethering, you can't look inside this terminal from connected PC.
- Operating environments for USB tethering are as follows. DOCOMO is not liable for the operation after upgrading/adding/changing OS.
 - Windows 8.1
 - Windows 10
 - Windows 11

Connecting to VPN (Virtual Private Network)

VPN (Virtual Private Network) is a technology to connect to the information in a protected local network from another network. Generally, VPN is provided to companies, schools and other facilities. A user can access to the information in the local network from outside of the premises.

- To set up a VPN access from the terminal, you need to retrieve the information related to security from your network administrator.

■ Adding a VPN

- 1 From the Home screen,  → "Settings" → "Connections" → "More connection settings" → "VPN"
- 2  → "Add VPN profile"
- 3 Follow the instruction of the network administrator to set required items of VPN settings
- 4 "Save"

■ Connecting to a VPN

- 1 From the Home screen,  → "Settings" → "Connections" → "More connection settings" → "VPN"
- 2 Tap a VPN you want to connect to
- 3 Enter necessary authentication information and connecting to a VPN

■ Disconnecting VPN

- 1 Open the Notification panel → Tap the VPN connecting notification
 - Follow the onscreen instructions.

Sounds and vibration

- 1 From the Home screen,  → "Settings" → "Sounds and vibration"
- 2 Select the item and set

Item	Description
Sound mode	Select from sound, vibrate, or mute.
Vibrate while ringing	→ P.94
Ringtone	→ P.94
Notification sound	→ P.94
System Sound	Set sound theme.
Volume	→ P.93
Call vibration pattern	→ P.94
Notification vibration pattern	→ P.94
Vibration intensity	Adjust the vibration intensity of touch operation.
System Sound/vibration control	Set the vibration at the time of operation or key tap.
Sound quality and effects	Customize the sound quality to your preference.
Separate app sound	Play the media sound of selected app for the other device.

Setting manner mode

When set to manner mode (Vibrate/Mute), incoming call ringtones and notification sounds no longer ring.

- 1 From the Home screen,  → "Settings" → "Sounds and vibration"
- 2 "Vibrate"/"Mute"

Information

- If you change "Ringtone" (P.94) of "Volume" when manner mode (Vibrate, Mute) is set to "Vibrate"/"Mute", manner mode (Vibrate, Mute) turns off.
- Regardless of manner mode (Vibrate, Mute) settings, the sound (sound of playing the movie or music, shutter sound, etc.) except for ringtone or each of notification sound are not muted.
- Set "Temporary mute" to ON during mute mode to set mute duration until you return to "Sound"/"Vibrate" mode set just before.

Adjusting volumes

- 1 From the Home screen,  → "Settings" → "Sounds and vibration" → "Volume"
 - 2 Drag  of each volume left or right
- Adjusting volumes with the Volume UP key/Volume DOWN key
- 1 Press Volume UP key/Volume DOWN key on the Home screen, etc.

Information

- If you set "Use Volume keys for media" to ON, you can adjust the media volume with Volume UP key/Volume DOWN key even when you are not playing media.

Notifying incoming call/notification by sound/vibration

Setting ringtone/notification sound when receiving call or notifications.

■ Setting ringtone

1 From the Home screen,  → "Settings" → "Sounds and vibration" → "Ringtone"

2 Tap a ringtone you want to set

- When "Silent" is set, ringtone does not sound.
- Tap  to add Beep tone.

■ Setting Vibration pattern

1 From the Home screen,  → "Settings" → "Sounds and vibration" → "Call vibration pattern" / "Notification vibration pattern"

2 Tap a vibration pattern you want to set

■ Setting notification sound

1 From the Home screen,  → "Settings" → "Sounds and vibration" → "Notification sound"

2 Tap a notification sound you want to set

- When "Silent" is set, notification sound does not sound.

Information

- If "Vibrate while ringing" is set to on when manner mode (Vibrate, Mute) is not set, ringtone sounds and the terminal vibrates when receiving calls. If "Vibrate while ringing" is set to OFF, only ringtone sounds.
- In this terminal, different notification sounds can be set for SIM1 (nanoSIM card) and eSIM1 (eSIM) respectively. However, when only the eSIM is set in this terminal, the SIM1 (nanoSIM card) notification sound may sound depending on the app to be notified.

Notifications

1 From the Home screen,  → "Settings" → "Notifications"

2 Select the item and set

Item	Description
Notification pop-up style	Select notification pop-up style from "Brief", "Detailed". • When you select "Brief", you can set more details.
Recently sent	Display the recent notification ordered by time. Tap app name to set detail of notifications for each app.
Do not disturb	Mutes call and alerts except for your selected exceptions.
Advanced settings	Set details of notifications.

Display

1 From the Home screen,  → "Settings" → "Display"

2 Select the item and set

Item	Description
Darkmode settings	Use a dark theme that is easy on your eyes so that you can use the terminal comfortably at night as well. - This feature may not be able to use for some other apps. - You can also switch dark mode from the notification panel.
Brightness	→ P.95
Adaptive brightness	Record display brightness adjustments so that the brightness is automatically adjusted when the brightness in your surroundings are the same as when you recorded the brightness.
Eye comfort shield	Reduce the amount of blue light.
Font size and style	You can change font size and font style, etc. of the screen.
Screen zoom	You can change zoom of the screen.
Full screen apps	Select the app to use with the aspect ratio of the full screen.
Screen timeout	Set time until screen display turns off. The screen becomes a little dark before the set time comes close.
Easymode	Change to the easymode that includes of simple Home screen layout and bigger icon. If the home app is "docomo LIVE UX", only the screen zoom and character size increases.
Edge panels	Set the edge panel. → P.54
Navigation bar	→ P.34

Item	Description
Touch sensitivity	Increase the touch sensitivity of the screen when you use screen protectors.
Show charging information	Display the battery level and estimated time until the battery is fully charged when the screen is turned OFF.
Screen saver	Set ON/OFF, type for screen saver while charging.

Adjusting brightness of the display

1 From the Home screen,  → "Settings" → "Display"

2 Drag  of "Brightness" left or right

Wallpaper and style

- 1 From the Home screen,  → "Settings" → "Wallpaper and style"
- 2 "My wallpaper"/"Gallery"/"Lock screen wallpaper services"
- 3 Select the wallpaper to set
- 4 Follow the onscreen instructions

Information

- If you tap "Explore more wallpapers" in Step 2, you can download the wallpaper from Galaxy Themes.
- If you set "Apply Dark mode to Wallpaper" to ON, you can apply dark mode to the wallpaper (P.95).
- If you tap "Color palette" to change app button color, etc.

Themes

- 1 From the Home screen,  → "Settings" → "Themes"
- 2 "Themes"/"Wallpapers"/"Icons"
- 3 Select themes, etc. to set
- 4 Follow the onscreen instructions

Lock screen

1 From the Home screen,  → "Settings" → "Lock screen"

2 Select the item and set

Item	Description
Screen lock type	→ P.97
Smart Lock	Set to unlock the touch screen automatically by a trusted location or terminal that you have set up. You have to set the authentication method required to unlock the device in advance.
Secure lock settings*	Set the secure lock function such as Lock automatically, Lock instantly with Side key.
Wallpaper services	Set whether to get the new lock screen wallpaper automatically and display different content each time.
Clock style	Select the clock style and color to use on the lock screen.
Roaming clock	Set whether to show both local and home time zones when roaming on the lock screen.
Widgets	Select the Widgets to display on the lock screen.
Contact information	You can display contact information on the lock screen by inputting phone number or email address, etc.
Notifications	Set the notifications on the lock screen.
Shortcuts	Select the apps to boot from lock screen.
About Lock screen	Check the version of lock screen and open source licenses.

* Display differs depending on the "Screen lock type".

Setting unlock method for the screen lock

You can set to require entering unlock pattern in advance on the touch screen, etc. for unlocking the screen lock.

1 From the Home screen,  → "Settings" → "Lock screen" → "Screen lock type"

2 Select unlock method → Enter according to the onscreen instructions

Information

- To set the screen lock to OFF, from the Home screen,  → "Settings" → "Lock screen" → "Screen lock type" → enter the set unlocking method → "None".
- When you incorrectly enter the unlock pattern, PIN, or password a certain time, a message indicating to retry appears. For details, see the screen instructions.
- If you forget PIN or password, access from a PC to Find My Mobile web page and perform "Unlock" to unlock screen. This function can be used when the terminal connected to Wi-Fi or mobile network and set Galaxy account. For details, refer to the Find My Mobile website. → P.102
- If you forget how to unlock the screen without a Galaxy account, you cannot use this terminal until you initialize this terminal. As for our company we cannot assume responsibility so please be forewarned.

Biometrics and security

1 From the Home screen,  → "Settings" → "Biometrics and security"

2 Select the item and set

Item	Description
Facerecognition	→ P.99
Fingerprints	→ P.100
More biometrics settings	Set about show unlock transition effect.
Google Play Protect	Set Google Play Protect.
Security update	You can check the update status of security and security update.
Google Play system update ¹	You can check the update status of Google Play system and Google Play system update.
Find My Mobile	→ P.102
Galaxy Pass	→ P.101
Secure Folder ²	Lock your private contents, etc. safe and reinforce security.
Private Share	You can set an expiration date to share files in a secure way that prevents recipients from re-sharing files.
Install unknown apps	Permit to install the unknown apps.
Encrypt SD card	Tap "Delete all data and encrypt SD card" to encrypt data saved on a microSD card is set so that it cannot be used on another terminal or a PC. - You need to initialize the microSD card before encryption. You need to back up the important data before encryption. - When the microSD card is encrypted and do "Factory data reset", you can't use the data in the microSD card.

Item		Description
Other security settings		
	Set up SIM card lock	→ P.32
	Make passwords visible	Set whether to display temporarily the entered characters on the password entry screen.
	Device admin apps	Set whether to enable device admin apps.
	View security certificates	Show security certificates.
	User certificates	Show user certificates.
	Install from device storage ³	Install certificates from the system memory (terminal).
	Clear credentials	Clear all credentials.
	Certificate management app	Set certificate management app.
	Trust agent ⁴	Perform selected actions when trusted devices are connected.
	Pin windows	Set whether to pin certain apps to the terminal screen.
	Security policy updates	Update security policy and improve the security of the terminal.

*1 Appears only when Google account is set.

*2 If you forget unlock method of secure Folder, you can reset the lock using Galaxy account.

*3 To clear installed certificate, tap "Clear credentials" to clear it from credential storage. Operation of "Clear credentials" clears all certificate in the credential storage.

*4 Display differs depending on the "Screen lock type" (P.97).

Face recognition

You can unlock the terminal by recognizing the face.

■ Precautions for using face recognition

- Your device could be unlocked by someone or something that looks like your image like twins.
- Face recognition is less secure than other recognition method.

■ Precautions for registering face

- Consider the conditions when registering, such as wearing glasses, hat, mask, beard, or heavy makeup.
- Ensure that you are in a well-lit area and that the camera lens is clean when registering.
- Ensure your image is not blurry for better match results.

Setting face recognition

■ Registering the face

- 1 From the Home screen, tap  → "Settings" → "Biometrics and security" → "Face recognition"
 - When a security unlock preference which requires authentication is selected, proceed to step 3 after authentication operation.
- 2 "Continue" → Set the unlock screen method
 - For unlocking method of screen lock, see "Setting unlock method for the screen lock" (P.97).
- 3 "Continue" → Follow the onscreen instruction to register your face → "Done"

■ Removing face data

- 1 From the Home screen, tap  → "Settings" → "Biometrics and security" → "Face recognition"
 - Cancel the security to protect face recognition.
- 2 "Remove face data" → "Remove"

Operating face recognition

- 1 Hold the terminal so that the face is in front of the front camera on the lock screen/face recognition screen
 - If face authentication failed, you can cancel the screen lock by swiping the screen and using the method of unlock when you registered the face.

Information

- If you do not want to use face recognition to unlock the terminal, from the Home screen, tap  → "Settings" → "Biometrics and security" → "Face recognition" and set "Face unlock" to OFF.

Fingerprints

Fingerprint authentication is an authentication putting your finger over the fingerprint sensor.

■ Precautions for using fingerprint authentication

- This function is designed to authenticate using the characteristics information of fingerprint image. For this reason, user with fingerprint that does not provide enough characteristics information may not be able to use the fingerprint authentication.
- Scanning several times with the same finger is needed to register your fingerprint. Do not use different fingers to register.
- Authentication performance (the probability of successful fingerprint authentication for correctly holding down your finger) depends on usage conditions. Fingerprint registration may be difficult or the authentication performance may decrease depending on conditions such as the hand is dry. Taking measures according to the condition of your finger including washing hands, wiping hands, using a different finger for fingerprint authentication, etc. may improve the authentication performance.
- When registering or authenticating your fingerprint, put your fingers to fingerprint sensor, release your finger when it vibrates repeatedly. Reposition your finger each time so that you can capture to the end of the fingerprint.
- If you bend your finger or touching the fingerprint sensor with fingertip, recognition may not be performed normally.
- If you hold down your finger too lightly or take it away too quickly, your fingerprint may not be recognized correctly. Try as much as possible to place your finger so that the center of the whorl of the fingerprint comes to the center of the fingerprint sensor.
- If fingerprint registration or authentication is started with the finger put on the fingerprint sensor, activation may fail. Put the finger off from the fingerprint sensor and retry the operation.
- Fingerprint authentication technology does not guarantee complete identity authentication or verification. The likelihood of the fingerprint sensor confusing two different fingerprints is very low. However, in rare cases where separate fingerprints are very similar the sensor may recognize them as identical. Note that DOCOMO assumes no responsibility for any damage caused by use of the terminal or unavailability of the terminal.

■ Usage precautions for fingerprint sensor

- Malfunction may occur if dirt adheres to the surface of the fingerprint sensor or your fingertip. Wipe any dirt with a soft cloth before use. Also wrinkled fingertip with water may cause malfunction.

- Do not strike the terminal or give a hard shock. May cause failure or damage. Do not scratch the surface of the fingerprint sensor or pick with a pointed object, such as a nib.
- Fingerprint sensor of the terminal is located inside. Rubbing hard with a fingernail or hard object such as metal piece of strap may scratch the surface of the fingerprint sensor.
- Dirt with mud etc. or scratch on the surface of the fingerprint sensor may cause failure or damage.
- Dirt of dust, sebum, etc. may make fingerprint scanning difficult or reduce the authentication performance. Clean the surface of the fingerprint sensor from time to time.
- When fingerprint registration or authentication fails often, clean the surface of the fingerprint sensor. The phenomenon may be improved.

Setting fingerprint authentication

Register fingerprints or set function to use.

■ Registering fingerprint

- 1 From the Home screen,  → "Settings" → "Biometrics and security" → "Fingerprints"
 - When a security unlock preference which requires authentication is selected, proceed to step 3 after authentication operation.
- 2 "Continue" → Set the unlock screen method
 - For unlocking method of screen lock, see "Setting unlock method for the screen lock" (P.97).
- 3 After this step, follow the onscreen instructions to register fingerprint → "Done"

■ Removing fingerprint

- 1 From the Home screen,  → "Settings" → "Biometrics and security" → "Fingerprints"
 - Cancel the security to protect fingerprint.
- 2 Touch and hold the fingerprint to remove → "Remove" → "Remove"

Authenticating fingerprint

- 1 When the fingerprint authentication screen appears, place your finger all over the fingerprint sensor to cover it
 - If authentication failed, put off your finger from the fingerprint sensor then retry authentication.
 - When the security is not registered correctly, you can cancel the screen lock by swiping the screen and using the method of unlock when you registered the fingerprint.

Information

- If you do not use fingerprint to unlock the terminal, from the Home screen, tap  → "Settings" → "Biometrics and security" → "Fingerprints" and set "Fingerprint unlock" to OFF.
- If face authentication fails a certain time in a row, a message will be displayed to input again. For details, see screen instructions.

Galaxy Pass

You can sign in to the website or app, etc. easily using Galaxy Pass with biometrics authentication.

- Sign in Galaxy account to use Galaxy Pass.
- The sign-in feature using Galaxy Pass is only available for some app. Some websites may not support this feature.

Setting Galaxy Pass

■ Registering each Biometric to Galaxy Pass

- 1 From the Home screen,  → "Settings" → "Biometrics and security" → "Galaxy Pass"
 - Cancel the security to protect each Biometric.

- 2 After this step, follow the onscreen instructions to register

■ Setting Galaxy Pass

- 1 From the Home screen,  → "Settings" → "Biometrics and security" → "Galaxy Pass"
 - User authentication is performed using biometric authentication (fingerprint authentication) when setting Galaxy Pass.

- 2 Set each item

■ Using Galaxy Pass

- 1 Open a website that you want to sign in
- 2 Enter your ID and password, and then sign in
- 3 After this step, follow the onscreen instructions
 - You can save ID or password to login Galaxy Pass and you can easily login from the next time.

Find My Mobile details

Track and manage the device remotely.

- To use Find My Mobile, you need to set a Galaxy Account.

1 From the Home screen,  → "Settings" → "Biometrics and security" → "Find My Mobile"

2 

- Follow the onscreen instructions.
- Sign in if you have already had a Galaxy account. → P.31

3 Open Find My Mobile (Device Remote tracking) website from a PC

- For details on Find My Mobile, refer to the following website.
<https://findmymobile.samsung.com>

4 After signing in by the Galaxy account, follow the onscreen instruction to make settings

Privacy

1 From the Home screen,  → "Settings" → "Privacy"

2 Select the item and set

Item	Description
Authority used in the last 24 hours	Check the usage history of each permission.
All permissions	Check used of permissions.
Permission manager	Set the App permission.
Microphone access	Set to allow apps to use the microphone.
Alert when clipboard accessed	Set whether to receive notifications when an app accesses text, images, or other content you've copied.
Samsung Privacy	Manage the personal data connected to your Galaxy account.
Customization Service	Customize your content in Galaxy apps and services.
Send diagnostic data	Set whether to send diagnostic report.
Android personalization service	Get personalized content based on your app usage.
Android System Intelligence	Set device learning, etc.
Autofill service from Google	Check and manage password, address, credit card information, etc. saved into the Google account.
Google location history	Set whether places that the user has visited with this terminal are saved. When saving data, more customized functions can be used on the entire Google service.

Item	Description
Activity controls	Set whether to save activity of web and app. When saving data, more customized functions can be used on the entire Google service.
Ads	Manage customized settings of Google Ads.
Usage & diagnostics	Set whether to send usage and diagnostic report to Google automatically.

Safety and emergency

- 1 From the Home screen,  → "Settings" → "Safety and emergency"
- 2 Select the item and set

Item	Description
Medical info	Set medical info.
Emergency contacts	Set emergency contacts.
Send SOS messages	Set whether to send SOS message.
Wireless emergency alerts	Set about emergency alerts.
Emergency Location Service	Set about emergency location service.
Emergency mode	→ P.35

Accounts and backup

- 1 From the Home screen,  → "Settings" → "Accounts and backup"
- 2 Select the item and set

Item	Description
Manage accounts	→ P.104
Back up data	Back up the data to Galaxy cloud.
Restore data	Restore the data of Galaxy cloud.
Back up data	Back up the data to Google Drive.
Bring data from old device	Transfer images, contacts, etc. from the terminal which you used before.
External storage transfer	You can backup the External SD card or USB storage or restore the backup data using Smart Switch.

Manage accounts

- 1 From the Home screen,  → "Settings" → "Accounts and backup" → "Manage accounts"

Item	Description
docomo	Your docomo account is set by default.
Add account	→ P.31
Auto sync data	Set whether to sync account data automatically.

Removing account

- 1 From the Home screen,  → "Settings" → "Accounts and backup" → "Manage accounts"
- 2 Tap an account type you want to remove
- 3 Follow the onscreen instructions and delete the account

Syncing the accounts manually

- 1 From the Home screen,  → "Settings" → "Accounts and backup" → "Manage accounts"
- 2 Tap an account type you want to sync
- 3 Set according to the onscreen instructions

Information

- Some accounts may not be removed. To remove the account, perform "Factory data reset" (P.109).

docomo service/cloud

- 1 From the Home screen,  → "Settings" → "docomo service/cloud"
- 2 Select the item and set

Item	Description
d ACCOUNT setting	Set d ACCOUNT for using in docomo apps. Also, you can set d ACCOUNT certification using biological information (finger print) registered the terminal.
docomo Application Data Backup	Set back up of the docomo's apps.
docomo apps management	Update the apps, etc.
Osusume Apps	Set Osusume Apps and check received notifications.
Osusume hint	Set Osusume hint to use.
SuguApp	You can easily launch apps and operate phones with intuitive operations such as shaking your smartphone (P.43).
docomo location information	Set location information service function for imadoco search/Keitai-Osagashi service.
Send device information	Make settings for sending terminal information to the server managed by DOCOMO.
Member/profile settings	Check or change your member information and profile information used for docomo services.
docomo initial settings	Configure the service settings, etc. all at once in order to use the terminal.
Switch USB debugging	Make settings for using dedicated devices such as those for docomo shops.
Open source licenses	Shows Open source license.

Information

- Some apps displayed in docomo service/cloud can be disabled. Disabled apps may not appear in the list of docomo service/cloud.
- By newly downloading an app provided by DOCOMO, an item may be added to the docomo service/cloud list.

Google

- 1 From the Home screen,  → "Settings" → "Google"
- 2 Select the item and set

Information

- For details on Google settings, tap  to check the help on the Google settings screen.

Digital Wellbeing and parental controls

1 From the Home screen,  → "Settings" → "Digital Wellbeing and parental controls"

2 Select the item and set

Item		Description
Dash board		
	Screen time	Check screen lighting time and each app's screen lighting time.
	Notifications received	The number of notifications received is displayed.
	Unlocks	Unlock times is appeared.
Screen time		Set how many hours you would like to spend on the terminal each day.
App timers		Tapping  for each app enables you to limit the amount of time the app is used. The app can no longer be used once the time limit has been reached.
Focus mode		You can use or receive notifications only selected apps or some apps.
Bedtime mode		You can change the screen to gray scale and turn off ringtone or app notifications to relax yourself leisurely before sleeping. You can also set a schedule for which this feature is enabled.
Volume monitor		Monitor a sound level and set whether to keep your ears safe.
Driving monitor		Monitor status of usage status of the terminal while driving.
Parental controls		You can manage and restrict the usage time of the terminal using Google Family Link app. To use the parental control, it is required to install and set the Google Family Link app.

Battery and device care

1 From the Home screen  → "Settings" → "Battery and device care"

- Display maintenance status of the terminal.

2 Select the item and set

Item	Description
Battery	→ P.106
Storage	→ P.107
Memory	→ P.107
Device protection	→ P.107
Software update	→ P.112
Diagnostics	Diagnose some functions of the terminal. You need to sign in Galaxy account to use this function.

Information

- Tap  → "Automation" on the device care screen to set whether or not to optimize the terminal once a day.

Battery

Display battery usage data, battery level, settings related to power saving mode, usage for each application, etc.

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

Item	Description
Estimated battery life ¹	Display the estimated battery life when not charging.
Time until fully charged ²	Display the estimated time until the battery is fully charged when charging. However, the estimated time until fully charged may not be displayed if charging in a low or high temperature environment.

Item		Description
Battery power remaining		Display the percentage of battery power remaining.
Usage since last full charge		You can see battery usage and check to see which apps are consuming battery power. You can also optimize battery usage of each app. To change the settings of battery usage optimization, from the home screen, tap  → "Settings" → "Apps" → select the app → tap "Battery" → "Optimized".
Power saving		Turning on Power saving mode to restrict background network usage, syncing and location checking. Also, you can set additional setting to save battery usage furthermore.
Background usage limits		Restrict the battery usage number of apps that are not frequently used.
More battery settings		
	Adaptive battery	Conserve battery power based on the battery status.
	Show battery percentage (%)	Show battery usage.
	Show charging information	Display the battery level and estimated time until the battery is fully charged when the screen is turned OFF.
	Fast charging	Set whether to conduct Fast charging by a cable connection.
	Protect battery	Limit the maximum amount of charge for longer battery life.

* Depending on settings or operations on the terminal displayed Items may differ.

Storage

Check the memory capacity of the terminal or microSD card.

- From the Home screen,  → "Settings" → "Battery and device care" → "Storage"
 - Free space of storage, etc. is displayed.
 - For "Formatting, unmounting/re-mounting" of microSD card, see "Formatting microSD card" (P.27), "Unmounting microSD card" (P.27).

Memory

Check the memory condition.

- From the Home screen,  → "Settings" → "Battery and device care" → "Memory"
 - Free space of memory, etc. are displayed.

Information

- When several apps are running, battery consumption may increase and usage time may shorten. Therefore, ending unused apps is recommended.

Device protection

Protect the terminal.

- From the Home screen,  → "Settings" → "Battery and device care" → "Device protection" → "Scan phone"
 - Device security status is displayed.

Apps

1 From the Home screen,  → "Settings" → "Apps"

2 Tap an app

- Set the app follow the onscreen instructions.

Information

- On the app settings screen, tap "Choose default apps" to set a default home application or browser application.
- On the app settings screen, tap  to reset app settings and set permission of apps.

Disabling applications

Disabled app stops its operation and it is not displayed on the Home screen.

- The app is not uninstalled.
- It is available for some apps or services that cannot be uninstalled.

1 From the Home screen,  → "Settings" → "Apps"

2 Tap an app to disable → "Disable" → "Disable app"

Information

- If you disable an app, other apps linking with the disabled app may not be operated correctly. Enable the app again to operate linked apps correctly. To enable again, from the Home screen  → "Settings" → "Apps" →  → "Disabled" → "OK" → tap an app you want to enable → tap "Turn on".

General management

1 From the Home screen,  → "Settings" → "General management"

2 Select the item and set

Item	Description
Language	Set language to use.
Text-to-speech	Set the preferred engine for reading text, reading speed, etc.
Date and time	→ P.109
Galaxy Keyboard settings	→ P.38
Keyboard list and default	Set Galaxy keyboard/Google voice typing. • Tap "Default keyboard" to set the keyboard that use for default. • When you set "Show keyboard button" to ON, keyboard button is displayed on the navigation bar.
Physical keyboard	Set up for using external keyboard.
Mouse and trackpad	Set about when using mouse/trackpad.
Passwords and autofill	Set password and autofill service.
Reset	→ P.109
Contact us	You can use Galaxy Members.

Date and time

- 1 From the Home screen,  → "Settings" → "General management" → "Date and time"

Item	Description
Automatic date and time	Adjust date and time automatically according to online settings. By default, they are set to be corrected automatically.
Set date ^{*1,2}	Set the date.
Set time ^{*1,2}	Set the time.
Automatic time zone	Set time zone provided by mobile network.
Set time zone based on location	Set whether to set time zone based on location information.
Use 24-hour format	Switch clock to 24-hour format.

*1 The item is displayed when "Automatic date and time" is set to OFF.

*2 Date and time information may be adjusted automatically.

Information

- The date and time are reset when the battery is discharged.

Reset

- 1 From the Home screen,  → "Settings" → "General management" → "Reset"

Item	Description
Reset all settings	Reset the terminal to the default state except for some data and settings.
Reset network settings	Reset the network settings such as Wi-Fi, mobile data and Bluetooth.
Reset accessibility settings	Reset accessibility settings.
Factory data reset	Reset the terminal to the default state. • Please note that some apps preinstalled at the time of purchase are uninstalled. Even if you uninstall such apps, downloading again may be available at "Play Store", etc.
Auto restart at set times	Set whether to restart the terminal automatically within one hour from set day of the week and time. • The terminal is optimized by restarting. Any unsaved data will be lost when the device restarts.

Accessibility

1 From the Home screen,  → "Settings" → "Accessibility"

2 Select the item and set

Item	Description
Recommended for you	Display the recommend function on your app usage.
TalkBack	Enable user accessibility such as service with which sound or vibration responds to your operations and text-reading service.
Visibility enhancements	
Display mode	Select display mode and set easily.
High contrast theme	Set high contrast theme.
High contrast fonts	Adjust the color and outline of fonts.
High contrast keyboard	Display the keyboard with contrast.
Highlight buttons	Show buttons with frame.
Color inversion	Invert screen color.
Remove animations	If you are concerned about animation or screen movement, you can delete specific screen effects.
Reduce transparency and blur	Reduce visual effects on dialogs and menus to make them easier to use.
Color correction	You can correct colors.
Extra dim	Dim the screen beyond the minimum brightness setting for more comfortable viewing.
Magnification	Set how to magnify screen.
Large mouse/touchpad pointer	Increase the size of mouse pointer and touchpad pointer.
Font size and style	You can change font size and font style, etc.
Screen zoom	You can change zoom of the screen.

Item	Description
Hearing enhancements	
Live Transcribe	Convert the conversation and speech to text at real time and display it.
Live Caption	Detect the speech from media, and generate subtitles automatically. Support only English.
Caption preference	Set and check how to display subtitles.
Sound Notifications	You can use sound notifications to know what's happening in your home.
Adapt Sound	Adapt the sound.
Mute all sounds	Turn OFF all sound including listening voice.
Mono audio	Change audio to monaural for easy listening with monaural earphone.
Left/right sound balance	Adjust sound balance of audio device or speaker that connected.
Interaction and dexterity	
Universal switch	Operation the terminal with customized switch.
Assistant menu	Display button menus which are accessible, instead of general operations, such as the hard key and gesture.
Voice Access	You can use Voice Access app. You need to download an app.
Answering and ending calls	You can add incoming answering the phone method of operation, or set it so that you can hang up by pressing Side key. If sleep mode turns on during a call when "Press Side key to end calls" is turned on, press Side key to turn off sleep mode and then press side key to end the call.

Item		Description
	Interaction control	Set to touch operation blocking range. - To set operations when the function is enabled, press Side key and Volume UP key simultaneously, then operate following onscreen instructions. - Enable the function automatically disables "Auto rotate" (P.34).
	Touch and hold delay	Set time for sensing touching and holding the display.
	Tap duration	Set the time until the input operation is recognized as a tap.
	Ignore repeated touches	Set the time to disable touch repetition.
	Auto action after pointer stops	Set whether to perform click automatically where the mouse pointer is stopped.
	Sticky keys	When Shift, Ctrl or Alt key, etc. is pressed, the key stay pressed.
	Slow keys	Set the time until pressing a key is recognized when hold on pressing a key to avoid pressing the key mistakenly.
	Bounce keys	Set the time until pressing a same key twice is recognized to avoid pressing the same key mistakenly for multiple times.
Advanced settings		
	Accessibility button	Set accessibility button to display on the navigation bar.
	Side and Volume up keys	Set the function to activate by pressing Side key and Volume UP key simultaneously.
	Volume up and down keys	Set the function to activate by touching and holding Volume UP key and Volume DOWN key simultaneously.
	Flash notification	Flash the light of camera or screen when received the notification or rung the alarm.

Item		Description
	Time to take action	Set the time to display a message to require an operation execution.
	Speak keyboard input aloud	Set whether to speak keyboard input aloud.
	Voice Label	Voice recordings can be written to NFC tags, allowing users to hear audio information when there is an NFC tag nearby.
Installed apps		Set installed accessibility apps.
About Accessibility		You can view the version of accessibility.
Contact us		You can use Galaxy Members.

Information

- Note that if you permit use of "TalkBack", personal information such as credit card number and communication using the user interface are recorded. Note that DOCOMO is not responsible for data or information leak.
- For details about "TalkBack", from the Home screen  → "Settings" → "Accessibility" → "TalkBack" → "Setting" → "Tutorial and help".
- "TalkBack" may not work properly when docomo LIVE UX is set as Home screen.

Software update

1 From the Home screen,  → "Settings" → "Software update"

2 Select the item and set

Item	Description
Download and install	→ P.126
Auto download over Wi-Fi	→ P.126
Last update	Display software update information.

About phone

1 From the Home screen,  → "Settings" → "About phone"

2 Select the item and set

Item	Description
Terminal name	Check/change name of the terminal. My phone number, Model number, Serial number and IMEI are displayed.
Status information	Displays the nanoSIM card/eSIM status and IMEI information, etc.
Legal information	Check open source licenses, Google legal, etc.
Regulatory information	Display regulatory information of the terminal.
Software information	Check Android version, etc.
Battery information	Check the battery status, etc.

Checking your own phone number

1 From the Home screen,  → "Settings" → "About phone"

- Your phone number is displayed in "Phone number".

Data communication

Bluetooth communication

You can transfer data between the terminal and the Bluetooth device wirelessly.

- For Bluetooth compatible version or profile, see "Main specifications" (P.128).
- For setting or operations, refer to the user manual of the Bluetooth device to connect.
- Wireless connections are not guaranteed between the terminal and for all Bluetooth devices.

■ Notes on using the Bluetooth function

1. Connect the terminal to the other Bluetooth device within approximately 10 m of vistaed distance. Depending on the environment (wall, furniture, etc.) or structure of building, available distance for connecting becomes short.
2. Keep more than approximately 2 m away from the other device (electronic products, AV equipment, OA equipment etc.) and connect it. Always keep more than approximately 3 m away from a microwave oven because it strongly affects the connection when it is operated. If it is near, the connection may not be established properly when the other device power on. Or the connection may cause noises on the TV or radio or the image may be distorted.
3. When there is a broadcast station or radio near the device and ambient signals is too strong, connection may not be established.
4. 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 are generated such as a gas station.

■ Reception interference caused by wireless LAN devices

The terminal's Bluetooth function and wireless LAN devices use the same frequency band (2.4 GHz). If you use the terminal near a wireless LAN device, reception interference may occur or the communications speed may lower. In these cases, do the following:

1. Keep the Bluetooth device over approximately 20 m away from a wireless LAN device.
2. Within approximately 20 m, turn off either the Bluetooth device or the wireless LAN device.

Enabling the Bluetooth function and making your terminal detectable

- 1 From the Home screen,  → "Settings" → "Connections" → "Bluetooth"



Information

- When you do not use the Bluetooth function, turn it OFF to save the battery.
- The setting of the Bluetooth ON/OFF is not changed even when the power is turned off.

Pairing/Connecting with other Bluetooth devices

To transfer data between your terminal and other Bluetooth devices, perform pairing with the device and register it to the terminal beforehand. And then perform connection.

- Depending on the Bluetooth device, only pairing may be performed or pairing and connection may be performed successively.
- When pairing, entering the passcode (PIN) may be required depending on the Bluetooth device.

- 1 From the Home screen,  → "Settings" → "Connections" → "Bluetooth"



- Detected Bluetooth devices are displayed by list.
- If no Bluetooth devices are displayed, tap "Scan" to re-search.

- 3 Tap a device you want to connect

- 4 Check the passkey → "Pair"

When the other device requests for pairing

When pairing request for Bluetooth communication screen appears, tap "Pair" as required.

Canceling connection

On the Bluetooth device list, tap a connected device.

Canceling pairing

- 1 From the Home screen,  → "Settings" → "Connections" → "Bluetooth"
- 2 Tap  of a device you want to cancel pairing → "Unpair" → "Unpair"

Sending/Receiving data via Bluetooth

- Set the Bluetooth function to ON beforehand to be detectable.

Sending data via Bluetooth

You can send contact data (contact data in vcf format) or files such as still images or videos, etc., to other Bluetooth devices (PCs, etc.).

- For sending, perform the operation from the menu such as "Share", "Send", etc., of each app.

Receiving data via Bluetooth

- 1 If "File transfer" screen appears, tap "Accept"
 -  appeared on the status bar and data reception starts.
 - Reception status can be checked by the Notification panel.

NFC communication

NFC is an abbreviation of Near Field Communication that is an international standard proximity wireless communication method specified by ISO (International Organization for Standardization). By using reader/writer function (R/W), put the terminal close to NFC tag to receive data, etc.

- For holding over the other device, see "Notes on holding over the device" (P.83).
- While the screen is locked, NFC tag information cannot be sent/received.
- Actual communications are not guaranteed for all devices equipped with Reader/Writer function.

International roaming

Overview of international roaming (WORLD WING)

The international roaming (WORLD WING) is a service that allows you to use the same phone number and Email address as ones used in Japan within the service area of overseas network operator that is associated with DOCOMO. You can use without changing of call and SMS settings.

For details of international roaming (WORLD WING), refer to the NTT DOCOMO website.

<https://www.docomo.ne.jp/service/world/roaming/> (In Japanese Only)

■ Supported network

You can use the terminal in LTE network, 3G network and GSM/GPRS network service area. Services are also available in countries and areas supporting 3G 850MHz/GSM 850MHz.

Information

- For country codes/international call access codes/universal number international prefix, supported countries/areas and network operators, refer to the NTT DOCOMO website.

Available overseas services

(○: Available)

Main Communication service	LTE	3G	3G850	GSM (GPRS)
Call	○	○	○	○
SMS	○	○	○	○
Packet communication*	○	○	○	○

* To use data communication when roaming, turn ON the data roaming settings (P.116).

Information

- Some services are not available depending on the overseas network operator or network.
- Connected network operators can be checked on the Notification panel (P.40).

Before using the terminal overseas

Checking before leaving Japan

Check the following for using terminal overseas before leaving Japan.

- **Subscription**
 - Confirm your application status of WORLD WING. For details, contact "docomo Information Center" on the last page of this manual.
 - If you use the ahamo plan, you do not need to apply for WORLD WING and cannot abolish it.
- **Charging**
 - For details on charging, see the NTT DOCOMO website.
- **Usage fee**
 - Overseas usage charge (call and packet communication) differs from those in Japan. For details, see the NTT DOCOMO website. Please be sure to check the ahamo website when using with the ahamo plan.
 - As some apps automatically perform packet communications, the packet communication charge may become expensive. For each application, confirm with your application provider by yourselves.

Preset

- **Network service**

If you subscribed to network services, Voice mail service, Call forwarding service and Caller ID request service, etc. are available from overseas. However, some network services may not be used.

 - To use network services overseas, you need to activate "Remote operation settings". Alternatively, you can set "remote operation overseas". Setting in Japan (P.64), Setting overseas (P.119).
 - Depending on overseas network operators to connect, network services may not be used even if it can be activate/deactivate.

Checking in the country you stay

When you arrive overseas and turn on the terminal, an available network operators/network is automatically connected.

- **Connection**

The optimum network will be selected automatically if "Select automatically" of "Network operators" is set to ON.

Settings for overseas use

- **Setting data roaming**

To perform packet communications overseas, the data roaming setting must be turned ON.

 - 1 From the Home screen,  → "Settings" → "Connections" → "Mobile networks"
 - 2 "Data roaming" → Confirm notes screen and tap "OK"
- **Setting a network operator**

By default, the terminal automatically searches available network and connect to it. To switch network manually, set as follows.

 - 1 From the Home screen,  → "Settings" → "Connections" → "Mobile networks" → "Network operators" → "Select automatically"
 - Available networks are displayed.
 - When a confirmation screen appears, tap "OK".
 - If the error occurs in network search, turn "Mobile data" OFF and retry (P.91).
 - 2 Select the network of overseas network operator

Information

- If you set "Select automatically" to ON in Step 1, you can restore the network setting to detect and switch the network that can be used automatically.

- **Setting network mode**
 - 1 From the Home screen,  → "Settings" → "Connections" → "Mobile networks" → "Network mode"
 - 2 "5G/4G/3G/GSM (auto connect)"/"4G/3G/GSM (auto connect)"/"3G/GSM (auto connect)"/"GSM only"
- **Date and time**

When "Automatic date and time" in "Date and time" are set to ON, the clock time/time difference of the terminal is corrected by receiving information about time/time difference from the network overseas operator.

 - Depending on the network provided by overseas network operator, time/time difference correction may not be performed correctly. Set the time zone manually if it is not performed correctly.
 - Correction timing varies by overseas network operator in connection.
 - "Date and time" (P.109)

■ About inquiries

- If the terminal or the nanoSIM card is lost or stolen overseas, immediately contact DOCOMO from the spot and request for suspension of usage. Please see the last page of this manual for contact information. You can also request for suspension of usage by My docomo. Be careful that you are charged also for calls and/or communications, if any, occurring after lost or theft.
- For contact from a land-line phone etc., add "International call access code" or "Universal number international prefix" assigned to the countries.
- If you use the ahamo plan, contact us from the ahamo website.

Making/Receiving calls in the country you stay

Making a call to outside country you stay (including Japan)

You can make a call from the country you stay to other country or area using the international roaming service.

- Prepending "+" to the front of the phone number, and then inputting the country code and phone number of the person you want to call enables you to easily make international phones calls to Japan from overseas or to other country or area.
- For information of available countries or network operators, see the NTT DOCOMO website.

1 From the Home screen, 

2 + (Touch and hold "0") → Enter Country code, Area code (city code), a phone number of the other party

- Please omit the prefix "0" in the area code (city code). However, "0" may be required to dial to some countries or areas such as Italy.
- If you call to the other party who is overseas "WORLD WING" user, enter the country code "81" (Japan).

3 

- To make a video call, tap 

4 End a call, 

Information

- For the details of video calls, refer to "Making a call" (P.56).

Making a call using international dial assist

Using international dial assist to call another country or area from overseas enables you to easily make international phone calls.

- You need to turn on the automatic phone number converter function for international dial assist in advance (P.119).
- The "0" at the front of the area number will automatically be converted to the preset country number.

- 1 From the Home screen, 
- 2 Enter Area code (city code), a phone number of the other party
- 3 
 - When international dial assist screen appears, tap "Call to counterpart country".

* The country name is displayed in the "(counterpart country)" field.

4

Making a call within the country you stay

You can make a call to a land-line phone or mobile phone in the same way as in Japan.

- 1 From the Home screen, 
- 2 Enter the phone number
 - To call a land-line phone, input the area code (city code) and then the person's phone number that you want to call.
- 3 
 - When international dial assist screen appears, tap "Call without int'l prefix".
- 4 End a call, 

Making a call to WORLD WING user overseas

If you call to the other party who is using international roaming, even when he/she is in the country you stay, please make an international call to Japan.

- Regardless of in what country you stay, the communication is always performed via Japan.
+ (touch and hold "0") - 81 (Country code of Japan) - phone number omitting leading "0"

Receiving a call in the country you stay

You can receive a call in overseas in the same way as in Japan.

Information

- When you receive a call during the international roaming, regardless of which country or area the call is from, it is forwarded internationally from Japan. A caller is charged for a call fee to Japan, and the receiver is charged for a reception fee.

Making a call from the other party

- To have the other party in Japan call you overseas
If someone wants to call you while you are overseas from a land line or mobile phone in Japan, all they have to do is dial your phone number as if you were in Japan.
- To have the other party make a call from outside Japan to the country you stay
Regardless of countries, you will receive a call via Japan. The other party should dial with prefix an international access code and "81" (Country code of Japan).
International access code of the country the dialer stays -81-90 (or 80, 70) -XXXX-XXXX

International roaming settings

Set up to use the international roaming service or international phone calls.

- Depending on overseas network operators, you cannot make the settings.

1 From the Home screen,  → **:** → "Settings" → "Settings for network services/roaming/Extension Line service" → "Roaming settings"

2 Change settings as required

Item	Description
Incoming call restriction while roaming	Set whether to restrict incoming phone calls during international roaming.
Incoming call notification while roaming	Set whether to be notified via SMS when you could not answer the phone when out of range, etc. during international roaming.
Roaming guidance	Set whether to play guidance to inform the person who called you during international roaming that you are in international roaming.
Network services	→ P.119

■ Setting Assist international call

1 From the Home screen,  → **:** → "Settings" → "Other call settings"

2 "Assist international call"

3 Select an item

Item	Description
Auto phone number conversion	Add the country code or international prefix automatically.
Country code	Select the country code used in the automatic conversion function.
International prefix	Select the international prefix used in the automatic conversion function.

■ Setting network service (overseas)

Set network services such as voice mail service from overseas.

- Activate "Remote operation" beforehand (P.64).
- For operations from overseas, international call fee to Japan in the country you use is charged.
- Depending on overseas network operators, you cannot make the settings.

1 From the Home screen,  → **:** → "Settings" → "Settings for network services/roaming/Extension Line service" → "Roaming settings"

2 "Network service" → Select a service

Item	Description
Remote operation (charges apply)	Set whether to start remote operation.
Caller ID notification request service (charges apply)	Set to notify a caller with voice prompt to request caller ID when receiving an anonymous call.
Incoming call notification while roaming (charges apply)	→ P.119
Roaming guidance (charges apply)	→ P.119
Voicemail service (charges apply)	Set the terminal to take a message from a caller while you are outside the service area or you turn the terminal OFF. (Subscription is required.)
Call forwarding service (charges apply)	You can forward calls that you receive to another mobile phone that you register in advance. (Subscription is required.)

3 Follow the onscreen instructions

4 Follow the voice guidance

After returning to Japan

After returning to Japan please return to the setting before traveling.

- If you used packet communication overseas
 - Turn the "Data roaming" (P.116) settings to "OFF".
- If you cannot connect to DOCOMO's network automatically after returning to Japan
 - Set "Network mode" of "Mobile networks" to "5G/4G/3G/GSM (auto connect)" (P.116).
 - Set "Select automatically" of "Network operators" in "Mobile networks" to ON. (P.116).

Appendix

Troubleshooting (FAQ)

Troubleshooting

- If you suspect the terminal does not operate correctly, you can check with diagnostics by yourself.
For details, see the NTT DOCOMO website.
- First, check if software update is needed and if it is necessary, update the software (Updating software) (P.125).
- When problems do not improve after checking the following items, contact by the following method. Please see the last page of this manual for contact information.

⑦ Power

Trouble	Check and remedy
Cannot turn on the terminal.	• Is the battery exhausted? → P.28
Screen is frozen, cannot turn off the power.	• Restart the terminal forcibly by pressing and holding Side key and volume DOWN key for 7-8 seconds when the screen is frozen or you cannot turn the power off. * Note that data and the settings may be erased since the operation restart forcibly.

⑦ Charging

Trouble	Check and remedy
Cannot charge the terminal.	• Is the power plug of adapter correctly inserted to an outlet or accessory socket? • Are the adapter and terminal inserted correctly? • When using the AC adapter (sold separately), is the Type-C plug of AC adapter firmly connected to this terminal? → P.28 • When using a USB cable A to C 02 (sold separately), is the power of the PC turned on? • If you execute calls, communications or other operation for a long time while charging, hot and cannot charge the terminal. In this case, wait until the temperature of the terminal drops down and retry charging.

⑦ Operating terminal

Trouble	Check and remedy
Become hot while operating/charging.	• While operating or charging, or if you operate apps for a long time while charging, the terminal or adapter may become hot. There is no operation problems and you can continue to use it.
The operation time is short.	• Is the terminal left for a long time out of service area? Staying outside of the service area may consume much power to search available radio waves for communication. • The operating time of the internal battery varies depending on the operating environment and the secular degradation of the internal battery. • The internal battery is a consumable accessory. Each time it is charged, time available with each charging reduces. Even if you sufficiently recharge the terminal but usage time significantly decreases differ from default state, this means that the internal battery needs to be replaced. We takes the terminal to replace the parts as a chargeable service. Check "Warranty and After-Sales Service" (P.126) since the repair's reception desk will be taking care of the service. • Are multiple apps running? Close the apps you are not using. → P.41 • Set Bluetooth to OFF when you are not using. → P.113

Trouble	Check and remedy
No operation is performed even when tapping the touch screen.	Is the screen locked? Press Side key to unlock screen lock. → P.29, P.97
The touch screen reacts slowly when a screen is tapped.	- It may be occurred when large amount of data is saved in the terminal or transferring large-size data between the terminal and microSD card. - Do you attach a protection sheet on the terminal? The operations may be impeded by the protection sheet.
The nanoSIM card is not recognized.	Is the nanoSIM card installed with a correct direction? → P.22
Time is incorrect.	It may be occurred if the terminal keeps turned on for a long time. Check if "Automatic date and time" is set to ON, and turn on the terminal at places where signal is strong. → P.109
Terminal becomes unstable.	- It may be caused by apps installed to the terminal after purchase. If problems improve when you start in Safe mode (a function to activate the terminal in a mode similar to default), problems may be improved by uninstalling the app. - To start Safe mode Press Side key for 2 seconds or more when power is OFF, and after Galaxy logo appears, continue to press Volume DOWN key. When power is ON, press Side key for 1 seconds or more → touch and hold "Power off" → tap "Safe mode". - When Safe mode starts, "Safe mode" appears on the lower left corner of the screen. - To terminate Safe mode, turn on the terminal again. - For using Safe mode, back-up the required data beforehand. - Note that apps or widgets you created may be removed. - Safe Mode is not normal activation. Usually exit Safe Mode and then use the terminal.

Trouble	Check and remedy
Terminal reacts slowly. Behaviors become unstable. Some of the program cannot activate.	Confirm the internal memory usage of the terminal and obtain memory by ending some activated programs. → P.107
Data is not displayed properly. Cannot operate the touch screen properly.	Turn off and on the power. If it does not solve the problem, trying "Factory data reset" (P.109) may improve the symptoms. Note that the operation erases all data saved on the terminal. Make sure to back up necessary data beforehand.
App does not work properly (cannot activate, errors occur frequently, etc.).	Are there any apps being disabled? Enable the disabled apps and try again. → P.51

⑦ Calling

Trouble	Check and remedy
Cannot make a call even though Call key is tapped.	- Is the nanoSIM card installed to the terminal correctly? → P.22 - Is the terminal set to Airplane mode? Set the Airplane mode off, and retry. → P.90
The ringtone does not sound.	- Is the "Volume" set to minimum? → P.93 - Is "Ringtone" set to "Silent"? → P.94 - Is the terminal set to Manner mode (Vibrate, Mute)? → P.93 - Is the terminal set to "Block numbers"? → P.64 - Is the terminal set to Airplane mode? → P.90 - Is the ring time of Voice mail service or Call forwarding service to "0 seconds"? → P.64 - Is the Play after of Answering message set to "0 seconds"? → P.61

Trouble	Check and remedy
Cannot connect calls (out of area does not disappear even when you change the location, or cannot make/receive a call even when radio wave when strong).	• Turn the power off and on, or remove and attach the nanoSIM card. → P.29, P.22 • Due to the radio wave types, making/receiving calls may be unavailable even in the service area and even when strong radio wave is indicated in 4 signal marks. Move to the other place and call again. • Is the terminal set to "Block numbers"? → P.64 • Due to the crossing of radio waves, at the crowded public places, calls/emails are crossed and the connection status may not be good. In that case, calling sound is played. Move to other place or call again at other time.
Cannot connect to network.	• Do you use at a place where signal is weak? • Turning the terminal power OFF and then turning ON again may work for the restoration. → P.29

⑦ Display

Trouble	Check and remedy
The display is dimmed.	• Is the time set on "Screen timeout" over? → P.95 • Do you adjust the brightness of the display? → P.95 • Is the terminal set to Power saving mode? → P.107 • Is the battery level low? → P.107

⑦ Voice

Trouble	Check and remedy
During a voice call, the other party's voice is hard to be heard or too loud.	• Do you change the listening volume? → P.60

⑦ Mail

Trouble	Check and remedy
Mail is not received automatically.	• Do you set "Sync contacts" to OFF? Set it ON. → P.72

⑦ Camera

Trouble	Check and remedy
Still images and videos shot with the camera are blurred.	• Check if clouds or dirt attach to the lens of camera.
Cannot launch Camera	• Wait for a while and retry the operation or turn the power off then turn on the terminal. Check the battery level and available memory space of the terminal.
Recording failed	• Exit the camera app and restart the app.

⑦ Osaifu-Keitai

Trouble	Check and remedy
Cannot use Osaifu-Keitai.	• If you activate Omakase Lock, Osaifu-Keitai function cannot be used regardless of NFC/Osaifu-Keitai lock settings. • Check if you activate NFC/Osaifu-Keitai lock. → P.83 • Check if you hold the  mark position on the terminal over a reader. → P.83

⑦ International roaming

Trouble	Check and remedy
Cannot use the terminal overseas.	■ If the signal mark is displayed • Do you subscribe to WORLD WING? Check the subscription of WORLD WING. ■ If out of area is displayed • Are you out of the service area of the international roaming service or in weak radio wave area? Check if it is available service area or overseas network operator with the NTT DOCOMO website. • Try to change the network settings or settings for overseas communication operator. Set "Network mode" to "5G/4G/3G/GSM (auto connect)". → P.116 Set "Select automatically" of "Network operators" to ON. → P.116 • Turning the terminal power OFF and then turning ON again may work for the restoration. → P.29
Cannot use data communication overseas.	• Set "Data roaming" to ON. → P.116
The terminal cannot be used suddenly while you use it overseas.	• Is the limit of maximum charges for use exceeded? A limit of maximum charges for use is set beforehand if you use "International Roaming Service (WORLD WING)". If the limit of maximum charges for use is exceeded, check out your accumulated fee.
There is no incoming call overseas.	• Is "Incoming call restriction while roaming" set to ON? → P.119
No caller ID is notified. A notified caller ID is different from that of the caller. Functions for using contents saved in Contacts or those using Caller ID notification do not operate.	• Even though a caller notifies the caller ID, it is not displayed on the terminal if the network or network operator does not notify the ID. A notified caller ID may be different from that of the caller by some networks or networks operators you use.

⑦ Data Management

Trouble	Check and remedy
Data transfer is not performed.	• Do you use USB HUB? When USB HUB is used, the terminal may not be operated correctly.
Data saved in microSD card is not displayed.	• Remove and attach microSD card. → P.25
Image is not displayed.	• If the image is broken,  may be appeared.
No operation is performed even by connecting the terminal to a PC.	• Install Galaxy Smart Switch or Windows Media Player 12 or later to a PC.

⑦ Bluetooth

Trouble	Check and remedy
Cannot connect to Bluetooth device. Bluetooth device cannot be found by scanning.	• The Bluetooth device (commercial item) is needed to be in registration stand-by state. If you register the device again after deleting the registration, delete the registrations on both Bluetooth communication device and the terminal, and then perform registration of the devices.
Cannot call from the terminal with an external device connected such as a car navigation system or hands-free device.	• If you made several calls to a person when he or she does not answer the calls or is out of the service area etc., calling the number may become unavailable. Turn the power off then on the terminal.

Error message

Error message	Cause and remedy	Page
The application XXXX (process XXXX) has stopped unexpectedly./ XXXX (XXXX) has stopped.	Appears when an error is occurred in the terminal or function. Follow the onscreen instructions.	-
Mobile networks cannot use.	The nanoSIM card is not correctly installed to the terminal. Make sure that the nanoSIM card is correctly attached.	P.22
Temporarily turned off by your carrier	Appears when communication is restricted due to access congestion on call/communication. Operate again after the restriction is released.	-
Request to switch to video call failed.	Appears when switching to video call fails. Switching is not possible during emergency call and audio guide, when the other party is using Catch Phone (call waiting service), when calling outside the service area, etc.	P.59
Request to switch to voice call failed.	Appears when switching to voice call from video call fails due to connection error, etc. Please wait for a while and try the operation again.	P.59
Make a video START.	Appears when making video call fails. Make sure that you are in service area, and check the calling mode settings, settings of mobile network, etc.	P.56
Unfortunately, XXXX (process.com.android.browser) has stopped.	Appears when an error occurs in the browser. Please wait for a while and try the operation again.	P.73

* XXXX indicates app or function name in which an error is occurred.

Updating software

Software update

Download update file for the terminal from the download site on the Internet and update the software. For software update, there are 2 methods; connecting to the network directly on the terminal and using Galaxy Smart Switch PC installed to a PC.

Precautions on software update

Software update can be done with the data saved to the terminal remained. However, note that depending on your terminal condition (malfunction, damage, water-soaked, etc.), the data may not be protected. You are recommended to back up the user information and data in the terminal just in case. However, some data may not be backed up.

- Prepare the following before software update.
 - Exit all programs running on the terminal (P.41).
 - Charge (P.28) the terminal to make the battery level enough.
- For updating software by connecting the terminal to network directly, you are recommended to perform in a place with good signal condition, without moving. When the signal condition is bad, software update may be interrupted.
- It may take time to update software (download and installation of update files).
- During installing the update files for software update, all functions including making/receiving phone call are not available.
- To update the software while you are overseas, connect to the Wi-Fi network (with the nanoSIM card removed).
- When you cannot perform any operations because of the failure of the software update, contact us. Please see the last page of this manual for contact information.

Updating software only with the terminal

You can update the software of the terminal by connecting the network with the terminal.

- 1 From the Home screen,  → "Settings" → "Software update" → "Download and install"
 - If you download software update automatically when connecting via Wi-Fi, set "Auto download over Wi-Fi" to ON.
- 2 Set according to the onscreen instructions
 - Operating the terminal to update after the updating file has been downloaded successfully restarts the terminal and starts the update. You cannot use the phone and other functions while updating the software.

Information

- After downloading the software, you may postpone the installation by tapping either "Schedule install" on the installation confirmation screen. You can start the installation immediately by performing the following steps, even after you have postponed the installation:
 - From the Home screen,  → "Settings" → "Software update" → "Download and install" → "Download"
 - Open the Notification panel → "Software update" → "Download"
- The available network may be restricted depending on the content of the update.
- If the downloading the update is failed, please wait for a while and try the operation again.

Warranty and After-Sales Service

Warranty

- The warranty is valid for a period of one year from the date of purchase.
- SIM ejector tool is not covered by the free repair warranty.
- SIM ejector tool is sample. Refer to inquiries for sample accessories.
- Specifications and appearance of this product and all accessories are subject to change, in part or whole, for the sake of improvement without prior notice.
- Since troubles, repair or other handling of the terminal may cause contents in the Phonebook etc. to be modified or deleted. DOCOMO recommends making a copy of the Phonebook's data etc., in case.
 - * With the terminal, data such as phonebook entries can be saved to microSD card.
 - * Data such as phonebook entries can be backed up using docomo cloud.
 - * Some apps and services may not be available depending on your contract. For details, see NTT DOCOMO website.

Conditions for free repair

- 1 If you use the terminal in accordance with the warnings stated in this manual and faults occur within the warranty period, the terminal will be repaired for free. (Your terminal may be replaced with an equivalent instead of repairing it.)
- 2 The following case are not subject to free repair even if they occur during the warranty period:
 - (1) Faults and damage caused by modifications (including software modifications).
 - (2) Faults and damage caused by the terminal, display, and/or external connection terminal breaking from external pressure or being dropped, or faults and damage caused by the motherboard inside the terminal breaking or deforming.
 - (3) Faults and damage caused by fires, pollution, abnormal voltage, earthquakes, thunder, floods, or other natural disasters.
 - (4) Faults and damage caused by connecting devices and consumables to the terminal that are not DOCOMO-approved.
 - (5) Faults and damage caused by water entering the terminal, the terminal's water leak seal is showing signs of leaks, indications that the terminal was dropped in water or signs of leaking were discovered, or corrosion caused by condensation or the like is discovered.
 - (6) The case where you have repaired at a location other than the DOCOMO-specified repair place.
- 3 This warranty is valid only in Japan.
- 4 This warranty is for free repairs in the stated period and conditions, and does not restrict lawful customer rights.
- 5 If there are multiple defects on the terminal, all the defects will be repaired as product quality cannot be guaranteed by just fixing some faults. In that case, some faults may not be subject to free repair. In that case, some faults may not be subject to free repair.

- 6 Regardless of whether repairs were performed or not, terminals that underwent performance testing will be returned with the latest software updates.
- 7 See the repairs result form that you receive once repairs are complete to check the date of repairs and what repairs were performed.

<Sales>

NTT DOCOMO, INC.

11-1 , Nagata-cho 2-chome, Chiyoda-ku, Tokyo Japan

After-Sales Service

When problems occur

Before requesting repair, read the section on "Troubleshooting" in this manual.

If repair is required

Take your terminal to DOCOMO-specified repair place (shop or website).

Please see the last page of this manual for contact information.

Note that, repair may take longer time depending on the state of damage.

- After expiration of the warranty

All repairs that are requested are charged.

- Replacement parts

Replacement parts (parts required to maintain the product functions) are basically kept in stock for at least 4 years after termination of production.

For details about technical inquiries and repairs, see the [ahamo website](#).

However, depending on the malfunctioning part, repair may not be possible due to a lack of replacement parts. Please contact a repair place specified by DOCOMO.

Please see the last page of this manual for contact information.

Notes

- Do not modify terminal or its accessories.
 - Doing so may cause fire, injury or damage.
 - Modified terminals etc. are repaired only after the customer accepts that the modified parts are to be restored to the condition at the time of purchase. However, repair may be refused depending on the nature of modification. The following cases may be regarded as modifications:
 - A sticker etc. is put on the display part or keypad part.
 - The terminal is embellished with adhesive.
 - Exteriors are replaced with other than DOCOMO's genuine parts.
 - Repair of failures or damage caused by modification is charged even during the warranty period.
- Data such as settings for each function may be cleared (reset) by malfunctions, repair or other handling of terminal. Should that happen, set up the functions again. A packet communication fee may be charged due to the settings.
- When the repair is executed, MAC address of Wi-Fi/Bluetooth address in the terminal may be changed regardless of repaired part.
- Do not allow cash cards or other devices that are vulnerable to magnetism to come into contact with the phone.
- The terminal is waterproof. If inside of the terminal gets wet or moist, immediately turn the power off, we recommend to repair the terminal as soon as possible. However, repair may not be possible depending on the condition of terminal.

Precautions on data created by you and downloaded data

Note that data you created, retrieved or downloaded from sources other than your terminal may be changed or lost when you change the model or have repairs done to the terminal. DOCOMO shall have no liability for any change or loss of any kind. Please understand beforehand that we cannot compensate for packet communication charges generated by re-downloading data. Under some circumstances, DOCOMO may replace your terminal with its equivalent instead of repairing it. When replacing your phone, most of the above-mentioned data cannot be transferred to the new phone.

Main specifications

DRAFT

Product name		SC-53F
Size		Height: Approx. 167.5mm, Width: Approx. 77.5 mm, Thickness: Approx. 8.5 mm
Weight		Approx. 168 g
Display	Size	Approx. 6.745 inch
	Type	LCD 60Hz (20:9)
	Resolution (number of pixels horizontal x vertical)	HD+ (720 X 1560)
Memory		RAM: 4 GB ROM: 64 GB ¹
Battery	Battery	5000 mAh
	Rated value per watt hour	TBD Wh
Continuous stand-by time ²		4G (LTE) Approx. 410 H
Continuous call time ³	4G (LTE)	LTE (VoLTE) Approx. 1540 min.
		LTE (VoLTE:Video call) Approx. 360 min.
Charging time		AC adapter 08: Approx. 105 min. ⁴
Wireless LAN	Corresponding standard	IEEE802.11a/b/g/n/ac compliant (IEEE802.11n: 2.4 GHz/5 GHz)
	MIMO support	-
	Support MU-MIMO (Client)	-
	MIMO compatible standard	-
	Support MU-MIMO (Client) standard	-

Bluetooth	Version ⁴⁵		5.3
	Output		Power Class 1
	Compatible profile ⁴⁶ /Codec		HFP (mSBC: 16kHz/CVSD) (1.7), HSP (1.2), OPP (1.2), SPP (1.2), HID (1.0), A2DP (aptX/SBC/AAC/LDAC) (1.3), AVRCP (1.6), PBAP (1.2), PAN (PAN-NAP/PANU) (1.0), SAP (1.1), HOGP (1.0), MAP (1.2), DI (1.3)
Headphone connection jack	Terminal diameter		-
	Pole number		-
Camera	Image pickup device	Type	Rear camera: Back-illuminated CMOS Front camera: Back-illuminated CMOS
		Size	Rear camera: 1/2.76 inch Front camera: 1/5 inch
	Number of effective pixels on Camera		Rear camera: Approx. 50 mil. pixels, Front camera: Approx. 5 mil. pixels,
	File format	VIDEO	MP4
		Still image	JPEG
	Maximum recording time per item		No limit (depending on memory size) ⁷
	Digital zoom	VIDEO	Rear camera: Up to Approx. 10.0x Front camera: -
		Still image	Rear camera: Up to Approx. 10.0x Front camera: -
	Optical zoom	VIDEO	Rear camera: - Front camera: -
		Still image	Rear camera: - Front camera: -
	Digital zoom x Optical zoom	VIDEO	Rear camera: - Front camera: -
		Still image	Rear camera: - Front camera: -

DRAFT

Movie	Supported codecs	H.263, H.264(AVC), MPEG4, VC-1, VP8, VP9, H.265(HEVC), AV1
Music	Supported codecs	MP3, AMR-NB, AMR-WB, AAC, AAC+, eAAC+, Vorbis, FLAC, Opus, AC3, E-AC3, AC4
Multilingual	Display language	Japanese/English/Korean/Chinese/Spanish/French/Indonesian/Malay/Portuguese/Vietnamese/Arabic
	Input language	Japanese/English/Korean
Answering message	Number of storable items	No limit ⁸
	Maximum recording time per item	Up to Approx. 13 H

DRAFT

- *1 Not all of the memory capacity is available for saving shot videos and still images, downloaded apps and data, and other data. For available memory space, refer to "Storage" (P.107).
- *2 Stationary continuous stand-by time is the estimated average operation time when radio signal reception is normal in the stationary state.
The continuous stand-by time fluctuates greatly due to the settings, use environment, and call, email, and camera use frequency.
If you use functions a lot, the actual time may drop by more than half.
- *3 The continuous stand-by time fluctuates greatly due to the settings, use environment, and call, email, and camera use frequency.
If you use functions a lot, the actual time may drop by more than half.
- *4 The numerical value of when "Fast charging" is ON. From the Home screen  → "Settings" → "Battery and device care" → "Battery" → "More battery settings" → "Fast charging".
- *5 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 This is the shooting time when the movie size (rear) is 1920 × 1080 (FHD).
- *8 The maximum saved number varies depending on the free space of the memory of this terminal.

Specific Absorption Rate (SAR) of Mobile Phones

Specific Absorption Rate (SAR) Information of Mobile Phones

This model [SC-53F] 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.xx W/kg (*2), and that when worn on the body is x.xx 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 5mm 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)

NTT DOCOMO, INC. Website:
<https://www.docomo.ne.jp/english/product/sar/>

Galaxy Website:
<https://www.samsung.com/sar/sarMain.do>
→ Select "JAPAN" from "LOCATION" → Type "SC-53F" Phone Model field → "GO"

- *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.