

9. User Manual

Introduction

Thank you for purchasing "SC-03D" mobile terminal. Before and during use of your terminal, be sure to thoroughly read this instruction manual to ensure you are able to correctly use your terminal.

Before using your terminal

- SC-03D supports LTE, W-CDMA, GSM/GPRS, and wireless LAN.
- Because your terminal uses wireless transmission, it may not function in locations where it is difficult for radio waves to penetrate, such as tunnels, underground passages and some buildings, in areas where radio waves are weak, or out of Xi service area and FOMA service area. Even when you are high up in a tall building or condominium and nothing blocks your view outside, your terminal may not be able to receive or transmit signals. Also, communication may be interrupted even when the signal meter on your terminal indicates there are strong radio waves and you are not moving (traveling).
- Because your terminal uses radio waves to communicate, it is possible that a third party may attempt to tap your calls. However, LTE, W-CDMA, GSM/GPRS system automatically applies a confidential communication function to all calls, so even if a third party could somehow tap a call, they only hear noise.
- This terminal encodes voice communication as digital data. When you are operating your terminal while moving to a location subject to weaker radio wave conditions, the transmitted digital data may not be correctly decoded and as a result the decoded voice may differ somewhat from the actual voice.
- This terminal supports Xi Area, FOMA Plus-Area and FOMA HIGH-SPEED Area.

- Note down the information saved in this terminal in a separate note and keep it safely. Note that DOCOMO assumes no responsibility for any loss of saved contents of data resulting from malfunction, repair, changing of the model or other handling of the terminal.
- You are recommended to save important data to microSD card.
- As with PCs, some applications that you perform installation may give the terminal instability of the operation, or may send your location information or personal information registered to this terminal to outside via the Internet and the information may be used improperly. Therefore, verify the supplier and operating conditions of the applications before use them.
- In this manual, describe instructions in case of using DOCOMO UIM Card.

Cancelling SIM Lock

The SIM lock for this terminal can be unlocked. Non-DOCOMO SIM can be used with this terminal, once SIM Lock is unlocked.

- Please come to docomo Shop to unlock SIM lock.
- Handling fee for unlocking SIM lock occurs.
- When using non-DOCOMO SIM, the service and function may be limited. Docomo shall not be liable for performance.
- For details about unlocking SIM lock, refer to NTT DOCOMO website.

Latest information about this manual can be downloaded from NTT DOCOMO website.

- "User's Manual (PDF file)" Download
<http://www.nttdocomo.co.jp/support/trouble/manual/download/index.html>(In Japanese)
- * The URL and contents are subject to change without prior notice.

To use the Instruction Manual, from the Home screen, "Applications" → "Manual".

LTE Service "Xi"

"Xi" is a service of DOCOMO supported by LTE (Long term Evolution) which is the international communication standard.

This is a super high speed data communication of up to 37.5 Mbps for receiving data and up to 12.5 Mbps for sending data (Part of the indoor facilities within Xi area can reach the speed of up to 75 Mbps for receiving data and up to 25 Mbps for sending data). You can enjoy the broadband with the speed as fast as optical LAN and the quick access within short time.

- The maximum communication speed is calculated based on theoretical standard, not the real speed. It is provided by Best effort system. The real communication speed changes according to the communication environment and network condition.
- The FOMA area which is out of Xi area is also available.
- Refer to DOCOMO website for detailed areas support Xi.

Notes on usage of SC-03D

- This terminal does not support accessing i-mode site (programs) and i-α ppli, etc.
- The FOMA Card is unavailable for this terminal. If you have the FOMA Card, exchange it for appropriate one at the docomo Shop.
- This terminal automatically performs communication for some functions, for example, to synchronize data, check the latest software, maintain connection with the server, etc. And when you download applications or watch movie etc., a large amount of packet communication charges are executed. Therefore, it is highly recommended to use packet flat-rate service.
- This terminal does not support Public mode (Driving mode).
- In this terminal, functions may be added or operation steps may be changed due to upgrading Operating System (OS). For latest information of additional function or operation steps, refer to NTT DOCOMO website.
- When OS is upgraded, some applications used for former OS may not work or unintended failure may occur.
- In case of loss, please change passwords of each service accounts from a PC to prevent others from using Google service such as Google Talk, Gmail, Android Market, etc. or Facebook, Twitter or mixi.
- The terminal does not support service providers other than sp-mode, mopera U or Business mopera Internet.

- The packet communication charge when tethering may be different depend on your charging plan. We strongly recommend to subscribe to flat-rate service.
- If you subscribe to flat-rate service, the packet communication charge will become "パソコンなどの外部機器を接続した通信"(Communication via external devices such as PC,etc.). Also when tethering, even without connecting to external device, all packet communication charges will become "パソコンなどの外部機器を接続した通信"(Communication via external devices such as PC,etc.). After completing data communication with external device, be sure to terminate the tethering function.
- To use tethering, you must subscribe to sp-mode.
- The security settings between the external device and the terminal is not set initially. Set the security settings if needed.
- For details, refer to <http://www.nttdocomo.co.jp/>

Precautions (Always follow these directions)

- Before using your terminal, read the precautions below to ensure safe use and handling. After reading this manual, keep it carefully.
- These precautions are intended to protect you and others around you. Read and follow them carefully to avoid injury, damage to the product or damage to property.
- The signs below differentiate between the levels of danger that can occur if the product is not used within the specified guidelines.

 DANGER	This sign denotes that death or serious injury may directly result from improper use.
 WARNING	This sign denotes that death or serious injury may result from improper use.
 CAUTION	This sign denotes that minor injury or damage to property may result from improper use.

■ The symbols below show specific directions.

 Don't	This symbol denotes that the action is prohibited.
 No disassembly	This symbol denotes that disassembling the phone or its components is not allowed.
 No wet hands	This symbol denotes that disassembling the phone or its components is not allowed.
 No liquids	This symbol denotes that using phone or its components in a bathroom or other highly humid area is not allowed.
 Do	This symbol denotes that an instruction must be obeyed at all times.
 Unplug	This symbol denotes that the equipment should be unplugged.

■ Precautions contain the description below.

1. Handling the terminal, battery pack, adapter (including conversion adapter for charging) and UIM (common) P.14
2. Handling the terminal P.18
3. Handling battery pack P.22
4. Handling adapter (including conversion adapter for charging) P.25
5. Handling UIM P.28
6. Handling mobile phones near electronic medical equipment P.29
7. Material list P.31

1. Handling the terminal, battery pack, adapter (including conversion adapter for charging) and UIM (common)

DANGER



Don't

Do not use, store, or leave the terminal, battery pack, adapter, or UIM in a place subject to high temperature such as close to fire, under direct sunlight, or in a car on an extremely hot day.

May cause fire, burns or injuries.



Don't

Do not put the terminal into heating cooking device such as microwave oven or high-pressure container.

May cause fire, burns, injuries, electric shock.



No
disassembly

Do not attempt to disassemble or modify the equipment.

May cause fires, burns, injuries, electric shock.



No
liquids

Do not let the terminal get wet with water, drinking water, urine of pet animals, etc.

May cause fire, burns, injuries, electric shock.



Do

Use the battery pack and adapter (including conversion adapter for charging) specified by NTT DOCOMO for your terminal.

May cause fire, burns, injuries, electric shock.



WARNING



Don't

Do not throw the equipment or give hard shock to it.

May cause fire, burns, injuries, electric shock.



Don't

Keep conductive materials (metal pieces, pencil lead, etc.) from coming in contact with the charging jack or external connection jack. Do not put those materials inside the terminal.

May cause fire, burns, injuries, electric shock.



Don't

Do not cover or wrap the terminal with a blanket, etc. while using or charging.

May cause fire or burns.



Do

Turn the terminal OFF and stop charging before entering a place such as a gas station where flammable gases are generated.

The gas may catch fire.



Do

If the equipment starts giving off a strange smell, overheats, becomes discolored or deformed during use, charging or in storage, immediately perform the following operations.

- Remove the power plug from all outlets or cigarette lighter sockets.
- Turn the terminal OFF.
- Remove the battery pack from the terminal.

May cause fire, burns, injuries, electric shock.



CAUTION



Don't

Do not leave the equipment on unstable or sloping surfaces.

The terminal may fall and cause injuries.



Don't

Do not store the equipment in extremely humid, dusty or hot areas.

May cause fire, burns, electric shock.



Do

Children using the equipment should be instructed in proper operation by an adult. Make sure they are following the instructions when using the terminal.

May cause injuries.



Do

Store the equipment out of reach of small children.

May be accidentally swallowed or cause injuries.



Do

Be careful especially when using the terminal connected to the adapter (including conversion adapter for charging) continuously for a long time.

If you are playing game etc., while charging the battery for a long time, the terminal, battery pack and adapter (including conversion adapter for charging) may be heated.

Directly touching a hot part for a long time, you may have redness, itching or rash on your skin, or it may result in low-temperature burns depending on your constitution and/or health condition.

2. Handling the terminal

WARNING



Don't

Do not lighten the light near eyes. Especially, when you capture babies or infants, keep the terminal 1m or more away from babies and infants.

Vision disability may result.

Accident may result from being shocked.



Don't

Do not put foreign objects such as liquid like water, metal pieces or burnable things into UIM or microSD card slot.

May cause fire, burns, injuries, electric shock.



Don't

Do not turn on the light and face the device to drivers.

May disturb driving and cause accident.



Do

Turn the terminal OFF in areas where use is prohibited, such as in airplanes and hospitals.

Failure to do so may cause electronic equipment or electronic medical equipment to fail or malfunction. When using the phone in a medical facility, be sure to observe the regulations of the facility. If you do prohibited act such as using the phone in an airplane, you will be punished according to law. However, if handset use is permitted by setting for disconnecting radio wave, etc., follow airline instructions for proper use.



Do

When you talk by setting handsfree or ring alert is sounding, keep the terminal away from your ear.

And, when connecting the earphone/microphone, etc. to the terminal and play a game or music, adjust the volume moderately.

Too loud volume may cause a hearing loss. And, if you cannot hear the sound around you clearly, it may cause an accident.



Do

If you have weak heart, be careful when setting the vibrate alert (vibration) or alert volume setting.

May cause harmful effect on heart.



Do

When you use electronic medical equipment, check with the equipment manufacturer to determine how the device is affected by radio waves before using.

May cause harmful effect on electronic medical equipment etc.



Do

Turn the terminal OFF near high-precision electronic control equipment or electronic equipment using low-power signals.

Failure to do so may cause the equipment to fail or malfunction.

*Examples of electronic equipment to avoid

Hearing aids, implanted pacemakers or defibrillators, other electronic medical equipment, fire alarms, automatic doors and other automatic control equipment. Users wearing implanted pacemakers or defibrillators or other electronic medical equipment should check with the manufacturer or sales outlet about the effect of radio frequencies on the equipment.



Do

When the display or camera lens is accidentally broken, be careful of broken glass or exposed internal parts of the terminal.

Inside of display is made of impact-resistant resin and surface of camera lens is made of acrylic parts, and they are structured for the glass not to scatter, however, if you mistakenly touch broken or exposed parts, you may be injured.

CAUTION



Don't

Do not swing the terminal by its antenna or strap.

May cause accident such as injury to yourself or others by hitting.



Don't

Do not use damaged terminal.

May cause fire, burns, injuries, electric shock.



Don't

If the display part is accidentally broken and liquid crystal leaks out, do not make the material contact with your skin of face or hands.

May cause loss of sight or skin problems. If the material gets into your eyes or mouth, rinse it with clean water and go to a doctor immediately. And, if the material adheres to skin or clothing, use alcohol etc. to wipe it off, and then wash with soap.



Do

To use the terminal in car, check with automobile manufacturer or dealer to determine how the device is affected by radio waves before using.

In rare cases, using the phone in some vehicle models can cause the vehicle's electronic equipment to malfunction. In that case, stop using the terminal immediately.



Do

Mobile phones can give some users skin problems such as itching, allergic reactions or rashes. If you develop skin problems, stop using the phone immediately, and see a doctor. For parts materials → P.31 "Material list"



Do

When watching the display, take a certain distance from the display in a fully bright place.

May reduce visual acuity.

3. Handling battery pack

- Check that the battery type matches the type displayed on the battery pack label.

Display	Battery type
Li-ion 00	Li-ion battery

DANGER



Don't

Do not contact a wire or other metal objects to the jack. And, do not carry or store the terminal with objects like a metal necklace.

May cause battery pack to ignite, burst, heat or leak.



Don't

Check the orientation of battery pack to install it to the terminal, and do not try to force the battery pack onto the terminal if you are having trouble installing it.

May cause battery pack to ignite, burst, heat or leak.



Don't

Do not throw the battery pack into the fire.

May cause battery pack to ignite, burst, heat or leak.



Don't

Do not nail the battery pack, hit with a hammer or step on it.

May cause battery pack to ignite, burst, heat or leak.



Do

If the battery pack's fluid etc. contacts eyes, immediately flush the eyes with clean water and see a doctor right away. Do not rub the eyes.

May cause loss of sight.



WARNING



Don't

If the battery pack seems to have abnormalities such as deformation or scratches due to falling, never use it.

May cause battery pack to ignite, burst, heat or leak.



Do

If the battery pack leaks or gives off a strange smell, immediately remove it from the vicinity of open flames.

The vapors from leaking battery pack fluid may ignite or explode.



Do

Be careful not to let your pet bite the battery pack.

May cause battery pack to ignite, burst, heat or leak.

CAUTION



Don't

Do not discard old battery packs together with other garbage.

May cause igniting or environmental destruction. Tape the terminals of old battery packs to insulate them, and then bring them into a sales outlet such as docomo Shop. If your local municipality has a battery recycling program, dispose of them as provided for.



Don't

Do not use or charge a wet battery pack.

May cause battery pack to ignite, burst, heat or leak.



Do

If fluid leaks out from battery pack, do not make the fluid etc. contact with your skin or face or hands.

May cause loss of sight or skin problems. If the fluid etc. put into your eyes or mouth, or contacts skin or clothes, immediately flush the contacted area with clean water. If the fluid put into the eyes or mouth, immediately see a doctor after flushing.

4. Handling adapter (including conversion adapter for charging)

WARNING



Don't

Do not use the adapter (including conversion adapter for charging) cord if it gets damaged.

May cause fire, burns, electric shock.



Don't

Do not use the AC adapter and the dock in a bathroom or other highly humid area.

May cause fire, burns, electric shock.



Don't

Always use the DC adapter with a negative-ground vehicle. Do not plug it into a positive-ground vehicle.

May cause fire, burns, electric shock.



Don't

When it starts to thunder, do not touch adapter (including conversion adapter for charging).

May cause electric shock.



Don't

Do not short the charging jack while it is connected to the outlet or cigarette lighter socket. Do not touch the charging jack with a part of your body such as your hand or finger.

May cause fire, burns, electric shock.



Don't

Do not place heavy objects on the adapter (including conversion adapter for charging) cord.

May cause fire, burns, electric shock.



Don't

When you insert and remove AC adapter from power outlet, do not contact a metal strap or other metal objects with the jack.

May cause fire, burns, electric shock.



No wet hands

Do not touch the adapter (including conversion adapter for charging) cord or outlet with wet hands.

May cause fire, burns, electric shock.



Do

Only use with the specified power source and voltage. When charging the terminal overseas, use AC Adapter for global use.

If incorrect voltage is used, this may cause fire, burns or electric shock.

AC adapter: AC100V

DC adapter: DC12 or 24V (specific for negative ground vehicle)

AC adapter for global use: Between AC100V and 240V (Connect to the AC outlet for internal household use)



Do

If the DC adapter's fuse blows, replace it only with the specified fuse.

May cause fire, burns, electric shock. For the specified fuse, see the instructions that come with the DC adapter.



Do

Wipe off any dust that accumulates on the power plug.

May cause fire, burns, electric shock.



Do

When you connect the AC adapter to an outlet, do not fail to properly connect to the outlet.

May cause fire, burns, electric shock.



Do

When you disconnect the power plug from the outlet or cigarette lighter socket, do not pull the adapter (including conversion adapter for charging) cord with excessive force. Instead, hold the adapter (including conversion adapter for charging) to disconnect.

May cause fire, burns, electric shock.



Unplug

Always remove the power plug from the outlet or cigarette lighter when not using the adapter for an extended period.

May cause fire, burns, electric shock.



Unplug

Immediately remove the power plug from the outlet or cigarette lighter socket if water or other fluids get into the adapter.

May cause fire, burns, electric shock.



Unplug

Always remove the power plug from the outlet or cigarette lighter socket when cleaning the equipment.

May cause fire, burns, electric shock.

5. Handling UIM

CAUTION



Do

Be careful of the cut surface when removing UIM.

May cause injuries.

6. Handling mobile phones near electronic medical equipment

- These precautions are based on the guidelines produced at the Electromagnetic Compatibility Conference Japan, regarding the protection of electronic medical equipment from radio waves emitted by mobile phone units.

WARNING



Do

Obey the following rules inside medical facilities.

Do not bring the terminal into operating rooms, intensive care units (ICUs) or coronary care units (CCUs).

- Turn the terminal OFF in hospital wards.
- Turn the terminal OFF in hospital lobbies and corridors if electronic medical equipment could be nearby.
- If the medical facility has specified zones where use or possession of mobile devices is prohibited, obey those instructions.



Do

Turn the terminal OFF in crowded trains or other public places where pacemaker or defibrillator wearers could be nearby.

The terminal's signals may affect the operation of implanted pacemakers or defibrillators, and other devices.



Do

Wearers of implanted pacemakers or defibrillators must carry and use the terminal at least 22 cm away from the implanted device.

The terminal's signals may affect the operation of implanted pacemakers or defibrillators, and other devices.



Do

When electronic medical equipment other than implanted pacemakers or defibrillators are in use outside of medical facilities (such as in home care settings), check with the device manufacturer to determine how the device is affected by electrical signals.

The terminal's signals may affect the performance of electronic medical equipment.

Handling precautions

General

■ Do not expose to water.

The terminal, battery pack, adapter (including conversion adapter for charging), and UIM are not waterproof. Do not use them in a humid place such as bathroom or in the rain. If you carry your terminal on your body, perspiration may corrode the internal parts of the terminal and cause malfunction. Note that if a trouble is diagnosed as exposure to water or other liquid, repairs of the terminal may not be covered by the Warranty or it may not be possible to repair such phones.

In that case, even if the terminal can be repaired, it is repaired at the owner's expense.

■ Clean the terminal with a dry soft cloth (such as used for cleaning eyeglasses).

- Rubbing it roughly with a dry cloth may scratch the display.
- Drops of water or dirt left on the display may cause stains.
- Do not use alcohol, thinner, benzene, cleaning detergent, etc. to clean the terminal. These chemicals may erase the printing on the terminal or cause discoloration.

■ Clean the jacks occasionally with a dry cotton swab.

If the jack is soiled, connection gets worse and it may cause power to be turned off or insufficient battery charge, so clean the jack with a dry cotton swab etc. When cleaning, be careful not to damage the terminals.

- **Do not leave the terminal near the air conditioning vent.**

Extreme temperature changes may produce condensation and corrode the internal parts of the terminal, causing it to malfunction.

- **Make sure to use the terminal or battery pack without excessive force.**

If you put the terminal in a bag full of items or sit down with the terminal in the pocket of your clothes, it may damage the display, and internal circuit board, and the battery pack and cause the terminal to malfunction.

Also, while the external device is connected to the external connection jack or the headphone connection jack, it may damage the connector and cause malfunction.

- **Do not rub or scratch the display with metal.**

The display may get scratched and it may cause malfunction or damage.

- **Make sure to see the user's manuals supplied with the battery pack and adapter.**

Terminal precautions

- **Do not press display surface forcibly, or not operate with a sharp-pointed objects such as nail, ballpoint pen, pin, etc.**
Doing so may cause damage of display.
- **Do not use the terminal in extremely hot or cold places.**
Use the terminal within a temperature range of 5°C to 35°C and a humidity range of 45% to 85%.
- **The terminal may affect land-line phones, TVs or radios in use nearby, so use it as far as possible from these appliances.**
- **Note down the information saved in your terminal in a separate note and keep it safely.**
Note that DOCOMO assumes no responsibility for any loss of saved contents of data.
- **Do not drop or give a strong impact to the terminal.**
Doing so may cause malfunction or damage.
- **Do not plug the connector of the external device or the headphone connection jack into the external connection jack at the slant and pull it while connecting.**
Doing so may cause malfunction or damage.
- **The terminal could become warm while in use and charging. This condition is not abnormal. You can continue to use the terminal.**
- **Do not leave the camera under direct sunlight.**
Doing so may cause discoloring or burn-in of materials.

- **Do not use the terminal without the back cover.**

It may cause the battery to come off, or may cause a malfunction or damage.

- **While microSD card is being used, do not take the card out and do not turn off the terminal.**

Doing so may cause data loss or malfunction.

- **Do not let magnetic cards, etc. come close to the terminal.**

The magnetic data in cash cards, credit cards, telephone cards, floppy disks, etc. may be erased.

- **Do not bring strong magnetic objects close to the terminal.**

Bringing strong magnetism close may cause malfunction.

Battery pack precautions

- **The battery pack is a consumable accessory.**

Replace the battery pack if the terminal has extremely short operation time on a full charge, though it may vary by operating conditions. Purchase the specified battery pack.

- **Charge the battery pack in an environment with the proper ambient temperature (5°C to 35°C).**

- **The operating time of the battery pack varies depending on the operating environment and the secular degradation of the battery pack.**

- **Depending on the use condition, the battery pack may be inflated as it comes to the end of its life. This is not a malfunction.**

■ **Be careful especially about the following points when preserving the battery pack.**

- Keeping under the state of the full charge (right after the charging ends)
- Keeping under the state of empty charge (too exhausted to turn on the terminal)

The performance and life of the battery pack may deteriorate.

It is recommended that you store the battery pack with about 40 % battery remained.

Adapter Precautions (including conversion adapter for charging)

■ **Charge the battery pack in an environment with the proper ambient temperature (5°C to 35°C).**

■ **Do not charge in the following places.**

- Places that is very humid, dusty or exposed to strong vibrations.
- Near ordinary phone or TV/radio.

■ **The adapter (including conversion adapter for charging) could become warm while charging. This condition is not abnormal. You can continue charging the battery.**

■ **When using the DC adapter for charging, keep the vehicle engine running.**

The vehicle's battery could become flat.

■ **When using an outlet with a mechanism preventing unplugging, follow the handling instructions for that outlet.**

■ **Do not give a strong impact to the adapter. Also, do not deform the charging jack.**

Doing so may cause malfunction.

UIM precautions

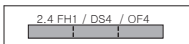
- Do not use excessive force to attach/remove UIM.
- Note that DOCOMO assumes no responsibility for malfunctions occurring as the result of inserting and using a UIM with another IC card reader/writer.
- Always keep the IC portion clean when you use the card.
- Clean UIM with a soft, dry cloth (such as a cloth for eyeglasses).
- Maintain a separate record of the data you saved in UIM.
Note that DOCOMO assumes no responsibility for any loss of saved contents of data.
- To preserve the environment, bring the old UIM to a sales outlet such as docomo shop.
- Do not carelessly damage, contact, or short-circuit an IC.
Doing so may cause data loss or malfunction.
- Do not drop UIM or subject it to shocks.
Doing so may cause malfunction.
- Do not bend UIM or place heavy objects on it.
Doing so may cause malfunction.
- Do not attach UIM to the terminal with a label or sticker put on UIM.
Doing so may cause malfunction.

Bluetooth function precautions

- To secure the Bluetooth communication security, this terminal supports the security function compliant with Bluetooth standards, but the security may not be sufficient depending on the settings. Be aware of the communication using the Bluetooth function.
- Note that DOCOMO is not responsible for data or information leak when making data communications using Bluetooth.
- In this terminal, applications for Headset, Handsfree, Advanced Audio Distribution, Audio, Human Interface Device, Object push, Serial port, SIM access, Phonebook access are available. Also Audio/Video remote control may be available in Audio (only for compatible Bluetooth device).

■ Frequency band

The frequency band used by this terminal's Bluetooth function is indicated on the battery storage section. The following are the descriptions:



- 2.4: This radio equipment uses the 2400 MHz band.
- FH/DS/OF: Modulation scheme is FH-SS, DS-SS, or OFDM system.
- 1: The estimated interference distance is 10 m or less.
- 4: The estimated interference distance is 40 m or less.
- : The full band between 2400 MHz and 2483.5 MHz is used and the band of the mobile identification device is unavoidable.

Available channels vary by the country. For use in an aircraft, contact the airline beforehand.

■ Bluetooth cautions

The operating frequency band of this equipment is used by industrial, scientific, consumer and medical equipment including microwave ovens, premises radio stations for identifying mobile units used in the manufacturing lines of plants (radio stations requiring a license), specified low power radio stations (radio stations requiring no license) and amateur radio stations (hereinafter referred to as "another station").

1. Before using this equipment, confirm that "another station" is not being operated nearby.
2. In the event of this equipment causing harmful radio wave interference with "another station", promptly change the operating frequency or stop radio wave emission by turning off the power, etc.
3. If you have further questions, contact docomo Information Center provided on the last page of this manual.

Wireless LAN (WLAN) precautions

- Wireless LAN uses radio waves to enable communications between compatible devices, thus allowing connection to a local area network from anywhere within range. On the other hand, there is a risk of data interception by malicious third party unless security is established. It is recommended to set the security settings on your own responsibility.

■ Wireless LAN

Do not use wireless LAN near magnetic devices such as electrical appliances or AV/OA devices, or in radio waves.

- Magnetism or radio waves may increase noises or disable communications (especially when using a microwave oven).
- When used near TV, radio, etc., reception interference may occur, or channels on the TV screen may be disturbed.
- If there are multiple wireless LAN access points nearby and the same channel is used, search may not work correctly.
- For using WLAN overseas, point of use etc. may be restricted depending on country. In that case, confirm conditions such as available frequency or regulations of the country to use it.

■ 2.4 GHz device cautions

The operating frequency band of the WLAN device is used by home electric appliances such as microwave oven, industrial, scientific, consumer and medical equipment including premises radio stations for identifying mobile units used in the manufacturing lines of plants (radio stations requiring a license), specified low power radio stations (radio stations requiring no license) and amateur radio stations (radio stations requiring a license).

1. Before using the device, confirm that premises radio stations for identifying mobile units, specified low power radio stations and amateur radio stations are not being operated nearby.

2. If the device causes harmful radio interference to premises radio stations for identifying mobile units, immediately change the frequency band or stop use, and contact docomo Information Center described on the last page of this manual for crosstalk avoidance, etc. (e.g. partition setup).
 3. If the device causes radio interference to specified low power radio stations or amateur radio stations, contact docomo Information Center described on the last page of this manual.
- **5 GHz band channel using for this terminal**
This terminal can use 3 channels of W52, W53 and W56 on 5 GHz frequency band.
- W52 and W53 are prohibited to use outdoor by Radio Law.

Note

- **Do not deform the terminal. Using an altered device is a violation of the Radio Law.**

A "Technical Compliance Mark " affixed on the manufacturer's specification sticker certifies that the terminal meets technical regulations for specified radio equipment that are based on the Radio Law.

If you remove the screws and alter the inside of the terminal, the technical regulations compliance certification becomes invalid.

Do not use the terminal with the certification invalid, as it is a violation of the Radio Law.

■ **Be careful when using the terminal while driving.**

A penalty may be imposed for using by holding a mobile phone with the hand while driving. However, absolutely necessary cases such as rescue of a sick person or maintaining public's safety are exempted.

■ **Use the terminal 15 mm away from your body during communication.**

Call Waiting Service

When there is another incoming call while you are on a call, the ringtone during call notifies you of the second call. You can answer the second call by putting the first call on hold. You can also put your current call on hold and make a call to another party.

- When there is an incoming call during a call, "Beep...Beep..." ringtone during call will stop sounding six times but calling continues.

Information

- Even when the call is on hold, the caller is charged for a call fee.

Setting Call Waiting Service

- 1** From the Home screen,  → "Settings" → "Call" → "NW service" → "Call waiting"

A Call Waiting service selection screen appears.

- 2** Tap an item to use

Item	Description
Activate	Tap "OK" to activate Call Waiting.
Deactivate	Tap "OK" to deactivate Call Waiting.
Check setting	Check the current settings.

Putting the current call on hold and answering an incoming call

- 1 When ringtone sounds during call and an incoming call screen appears during a call, drag  to the right

To end the current call

Tap "Ending call with 【Number/Contacts name】" from "Accept call after".

The current call is terminated and switched to the later call.

To hold the current call

Tap "Putting 【Number/Contacts name】 on hold" from "Accept call after".

The current call is held and switched to the later call. You can switch to the other party by every time tapping "Swap".

Information

- "Merge" cannot be selected during connection of the LTE network service area and the FOMA network service area.

Putting the current call on hold and making a call to another party

- 1 During a call, "Add call" → Enter a phone number of the other party → 

The current call is held.

To end the later call you made

Tap "End call".

The new call is terminated and switched to the call on hold.

To hold the later call you made

Tap "Swap".

The new call is held and switched to the call on hold. Each time you tap "Swap", you can call by switching the current call and the call on hold.

Call Forwarding Service

The Call Forwarding Service forwards a call when you are in a location where the radio wave cannot reach, the terminal is turned off, or you do not answer the call within the preset ring time.

- After start of Call Forwarding service, when you do not answer an incoming call, the call is recorded as missed call and  appears on the status bar.

However, when the ring time is set to 0 second, the incoming call is not saved as missed call.

Basic flow of Call Forwarding Service

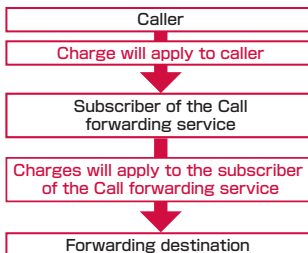
Step1: Save the forwarding number

Step2: Activate Call forwarding Service

Step3: Your terminal receives a call

Step4: If you do not answer the call, it is automatically forwarded to the specified forwarding number

Call charge for Call Forwarding Service



Information

- Even when the Call forwarding is active, you can answer the call during a ringtone sounds.

Setting Call Forwarding Service

- 1** From the Home screen,  → "Settings" → "Call" → "NW service" → "Call forwarding"
A Call Forwarding Service selection screen appears.
- 2** Tap an item to use

Item	Description
Activate	Tap "OK" to activate Call Forwarding Service. Enter to "Forwarding number" field and "Ring time" field → "OK". • If you do not enter them, the service activates with the previous settings. • Tap  to set a forwarding number from Logs or Contacts.
Deactivate	Tap "OK" to deactivate Call Forwarding Service.
Register number	Change the phone number for forwarding to activate Call Forwarding Service. Enter a phone number to forward to → "OK" → "Yes". • Tap  to set a forwarding number from Logs or Contacts. • To change only forwarding number with Call Forwarding Service stopped, select "No" on the confirmation screen.

Item	Description
Forwarding number busy	When the forwarding number is busy, an incoming call is connected to the Voice Mail service center. Tap "Connect".
Check setting	Check the current settings.

Setting on/off of the Call Forwarding guidance

Set whether to play voice guidance of the call forwarding for the caller before the call is forwarded.

- 1 From the Home screen, "Phone" → "Keypad" tab → Enter "1", "4", "2", "9" →  Follow the voice prompts to operate.

Notifying your phone number to the other party

Show your phone number on other party's display.

- Your phone number is your important information. Be careful when you notify it.
- You cannot operate setting of Caller ID notification out of service area.

1 From the Home screen,  → "Settings" → "Call" → "NW service" → "Caller ID notification"

2 "Activate" → "OK"

- To set your phone number to hide, tap "Deactivate" → "OK".
- To check the current settings, tap "Check setting".

Using Public mode (Power OFF)

Public mode (Power OFF) is an auto-reply service for the manner in a highly public space.

When Public mode (Power OFF) is set, for an incoming call when the power is turned off or Airplane mode is set, a guidance message indicating that the receiver is in a place where power should be turned off (in a hospital, on an airplane, near a priority seat of train, etc.) is heard on the caller's terminal and then the call ends automatically.

- 1 From the Home screen, "Phone" → "Keypad" tab → Enter "*", "2", "5", "2", "5", "1" → 

Public mode (Power OFF) is set (there is no change on the screen).

To cancel Public mode (Power OFF)

From the Home screen, "Phone" → "Keypad" tab → Enter "*", "2", "5", "2", "5", "0" → .

To check settings of Public mode (Power OFF)

From the Home screen, "Phone" → "Keypad" tab → Enter "*", "2", "5", "2", "5", "9" → .

When Public mode (OFF) is set

The setting is continued until Public mode (Power OFF) is cancelled by entering "*", "2", "5", "2", "5", "0" and tapping . Just turning the power on cannot cancel the setting.

Even when you are out of service area or in a place where the radio wave cannot reach, the Public mode (Power OFF) guidance is played.

- For a caller, a guidance indicating the receiver is in a place where the terminal power should be turned off is heard and the call ends automatically.

Registering and using services

When a new network service is introduced by DOCOMO, you can use the service by registering it in the menu.

Registering a service

You can register a service. You can also edit content of service, and delete it.

1 From the Home screen,  → "Settings" → "Call" → "Additional service" → "Register USSD"

2  → "Create"

To edit a registered content of service

Touch and hold a registered service item, tap "Edit" → Edit content in the field → tap "Save".

To select and delete a registered service

Touch and hold a registered service item and tap "Delete".

3 Enter in "Service name" and "USSD code" fields → "Save"

Enter "Service number" or "service code" given by DOCOMO in the "USSD code" field.

Using registered services

- 1 From the Home screen,  → "Settings" → "Call" → "Additional service" → "Register USSD"
- 2 Tap a service you want to use

Recording reply message

You can record reply messages applicable to codes (USSD). Reply messages are returned from the service center when the additional services are executed.

- 1 From the Home screen,  → "Settings" → "Call" → "Additional service" → "Register reply message"
- 2  → "Create"
- 3 Enter in "Service name" and "USSD code" fields → "Save"
Enter "service number" or "service code" given by DOCOMO in the "USSD code" field.

Body-worn operation

This device was tested for typical body-worn operations with the back of the handset kept 1.0 cm from the body. To maintain compliance with FCC RF exposure requirements, use accessories that maintain a 1.0 cm separation distance between the user's body and the back of the handset. The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided. The FCC has granted an Equipment Authorization for this model handset with all reported SAR levels evaluated as in compliance with the FCC RF emission guidelines. SAR information on this model handset is on file with the FCC and can be found under the Display Grant section of <http://www.fcc.gov/oet/ea/fccid/> after searching on FCC ID A3LSWDSC03D. Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications & Internet Association (CTIA) Website at <http://www.ctia.org/>.

Declaration of Conformity

We, **Samsung Electronics**
declare under our sole responsibility that the
product

GSM WCDMA Wi-Fi Mobile Phone: SC-03D

to which this declaration relates, is in conformity
with the following standards and/or other
normative documents.

SAFETY	EN 60950-1 : 2006 +A11 : 2009
SAR	EN 50360 : 2001 / AC 2006 EN 62209-1 : 2006
EMC	EN 301 489-01 V1.8.1 (04-2008) EN 301 489-07 V1.3.1 (11-2005) EN 301 489-17 V2.1.1 (05-2009) EN 301 489-24 V1.5.1 (10-2010)
RADIO	EN 301 511 V9.0.2 (03-2003) EN 300 328 V1.7.1 (10-2006) EN 301 908-1 V4.2.1 (03-2010) EN 301 908-2 V4.2.1 (03-2010) EN 300 440-1 V1.5.1 (03-2009) EN 300 440-2 V1.3.1 (03-2009) EN 301 893 V1.5.1 (12-2008)

We hereby declare that [all essential radio test
suites have been carried out and that] the
above named product is in conformity to all the
essential requirements of Directive 1999/5/EC.

The conformity assessment procedure referred
to in Article 10 and detailed in Annex[IV] of
Directive 1999/5/EC has been followed with the
involvement of the following Notified Body(ies):

BABT, Forsyth House, Churchfield Road,
Walton-on-Thames, Surrey, KT12 2TD, UK*
Identification mark: 0168

The technical documentation kept at :

Samsung Electronics
QA Lab.

CE0168!

which will be made available upon request.
(Representative in the EU)

Samsung Electronics Euro QA Lab.
Blackbushe Business Park, Saxony Way,
Yateley, Hampshire, GU46 6GG, UK*

2011.05.19
(place and date of issue)



Joong-Hoon Choi/Lab Manager

(name and signature of authorised person)

* It is not the address of Samsung Service Centre. For the address or the phone number of Samsung Service Centre, see the warranty card or contact the retailer where you purchased your product.

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 are 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

The works and copyright of music, video picture, computer program, data base, etc. are protected their right by copyright law. Copying such copyrighted works can be permitted only for the purpose of personal use or use at home. If you copy (including conversion of data format), alter, hand over of duplication, distribute on network, etc. without any approval of copyright owner exceeding above mentioned purposes, you may be claimed for damages or punished as "copyright infringement" or "infringement of moral right of an author". When you make duplications etc. using this product, please observe the copyright law and use them properly. Also, for recorded items using the camera function mounted to this product, please use them properly as above.

Portrait rights

Portrait rights are claimable rights against taking photos by others, publishing or using the taken photos without any permission. In Portrait rights, there are moral right authorized to everyone and property right (publicity right) focused on economic benefit of talent etc. Therefore, taking photos of others or talent, publishing or distributing the photos without any permission are illegal act. Please use the camera function properly.

Trademarks

Company and product names mentioned in this manual are trademarks or registered trademarks of their respective holders.

- "Xi", "FOMA", "i-mode", "iチャンネル", "i-αpli", "Deco-mail[®]", "ToruCa", "Melody Call", "ドコモ地図ナビ", "声の宅配便", "WORLD CALL", "公共モード", "mopera", "mopera U", "エリアメール", "sp-mode" and "Xi" logos are trademarks or registered trademarks of NTT DOCOMO.
- microSDHC logo is a trademark of SD-3C, LLC.

- Bluetooth and Bluetooth logo are registered trademarks of Bluetooth SIG, Inc., and uses them under license.



- Wi-Fi Certified[®] and its logo are registered trademark or trademark of Wi-Fi Alliance.



- "Catch Phone (Call waiting service)" is a registered trademark of Nippon Telegraph and Telephone Corporation.
- "Google", "Google" logo, "Android", "Android" logo, "Android マーケット", "Android マーケット" logo, "Gmail", "Google Calendar", "Google Maps", "Google Talk", "Google Latitude", "Picasa" and "YouTube" are trademarks or registered trademarks of Google, Inc.
- Character conversion is using iWnn of OMRON SOFTWARE Co., Ltd. iWnn© OMRON SOFTWARE Co., Ltd. 2008-2011 All Rights Reserved.

- Microsoft[®], Windows Media[®], and ActiveSync[®] are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.
- This product software contains a module developed by the Independent JPEG Group.
- Java and Java-based trademarks are trademarks or registered trademarks of Sun Microsystems, Inc. in the U.S. and other countries.
- DivX[®], DivX Certified[®] and associated logos are trademarks of DivX, Inc. and are used under license.



Protected by one or more of the following U.S. patents :

7,295,673; 7,460,668; 7,515,710;
7,519,274

ABOUT DIVX VIDEO: DivX[®] is a digital video format created by DivX, Inc. This is an official DivX Certified[®] device that supports DivX video. Visit divx.com for more information and software to convert video files into DivX format.

DivX Certified[®] to play DivX[®] video up to HD 720p, including premium content.

May play DivX[®] video up to HD 1080p.

ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified[®] device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to vod.divx.com for more information on how to complete your registration.

- "Twitter" is a trademark or registered trademark of Twitter, Inc.
- "Facebook" is a trademark or registered trademark of Facebook, Inc.
- "mixi" is a trademark or registered trademark of mixi, Inc.
- MySpace and its logo are registered trademarks of MySpace, Inc.
- DLNA, DLNA CERTIFIED are trademarks of Digital Living Network Alliance.



- Other products and company names written in this manual are registered trademarks or trademarks of each company.

Others

- This product have Adobe®Flash® Player technologies of Adobe Systems Incorporated. Adobe Flash Player Copyright© 1996-2011 Adobe Systems Incorporated. All rights reserved.

Adobe, Flash are the trademarks or registered trademarks of Adobe Systems Incorporated in the United States and other countries.



- This product is licensed based on MPEG-4 Visual Patent Portfolio License. The use of MPEG-4 Video Codec function is allowed for personal and nonprofit use only in the cases below.
 - Recording moving pictures that conform to MPEG-4 Visual Standard (hereinafter referred to as MPEG-4 Video)
 - Playing MPEG-4 Videos recorded personally by consumers not engaged in profit activities
 - Playing MPEG-4 Video supplied from the provider licensed from MPEG-LA.

For further utilizing such as promotion, in-house use or profit-making business, please contact MPEG LA, LLC in U.S.

Health and safety information

Exposure to Radio Frequency (RF) Signals

Certification Information (SAR)

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the exposure limits for radio frequency (RF) energy set by the Federal Communications Commission (FCC) of the U.S. government. These FCC exposure limits are derived from the recommendations of two expert organizations, the National Council on Radiation Protection and Measurement (NCRP) and the Institute of Electrical and Electronics Engineers (IEEE). In both cases, the recommendations were developed by scientific and engineering experts drawn from industry, government, and academia after extensive reviews of the scientific literature related to the biological effects of RF energy. The exposure limit set by the FCC for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate (SAR). The SAR is a measure of the rate of absorption of RF energy by the human body expressed in units of watts per kilogram (W/kg). The FCC requires wireless phones to comply with a safety limit of 1.6 watts per kilogram (1.6 W/kg). The FCC exposure limit incorporates a substantial margin of safety to give additional protection to the public and to account for any variations in measurements.

SAR tests are conducted using standard operating positions 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.

Before a new model phone is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the exposure limit established by the FCC. Tests for each model phone are performed in positions and locations (e.g. at the ear and worn on the body) as required by the FCC.

For body worn operation, this model phone has been tested and meets the FCC RF exposure guidelines when used with a Samsung accessory designated for this product or when used with an accessory that contains no metal and that positions the handset a minimum of 1.0 cm from the body.

Non-compliance with the above restrictions may result in violation of FCC RF exposure guidelines.

SAR information on this and other model phones can be viewed on-line at <http://www.fcc.gov/oet/ea/fccid/>. This site uses the phone FCC ID number,

[A3LSWDSC03D](#). Sometimes it may be necessary to remove the battery pack to find the number. Once you have the FCC ID number for a particular phone, follow the instructions on the website and it should provide values for typical or maximum SAR for a particular phone. Additional product specific SAR information can also be obtained at www.fcc.gov/cgb/sar.

Consumer Information on Wireless Phones

The U.S. Food and Drug Administration (FDA) has published a series of Questions and Answers for consumers relating to radio frequency (RF) exposure from wireless phones. The FDA publication includes the following information:

What kinds of phones are the subject of this update?

The term wireless phone refers here to hand-held wireless phones with built-in antennas, often called “cell,” “mobile,” or “PCS” phones. These types of wireless phones can expose the user to measurable radio frequency energy (RF) because of the short distance between the phone and the user's head. These RF exposures are limited by Federal Communications Commission safety guidelines that were developed with the advice of FDA and other federal health and safety agencies. When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person's RF exposure decreases rapidly with increasing distance from the source. The so-called “cordless phones,” which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures well within the FCC's compliance limits.

Do wireless phones pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of radio frequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in the stand-by mode. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

What is FDA's role concerning the safety of wireless phones?

Under the law, FDA does not review the safety of radiation-emitting consumer products such as wireless phones before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless phones are shown to emit radio frequency energy (RF) at a level that is hazardous to the user. In such a

case, FDA could require the manufacturers of wireless phones to notify users of the health hazard and to repair, replace or recall the phones so that the hazard no longer exists.

Although the existing scientific data do not justify FDA regulatory actions, FDA has urged the wireless phone industry to take a number of steps, including the following:

- “Support needed research into possible biological effects of RF of the type emitted by wireless phones;
- “Design wireless phones in a way that minimizes any RF exposure to the user that is not necessary for device function; and
- “Cooperate in providing users of wireless phones with the best possible information on possible effects of wireless phone use on human health.

FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of RF safety to ensure coordinated efforts at the federal level. The following agencies belong to this working group:

- “National Institute for Occupational Safety and Health
- “Environmental Protection Agency
- “Federal Communications Commission
- “Occupational Safety and Health Administration
- “National Telecommunications and Information Administration

The National Institutes of Health participates in some interagency working group activities, as well.

FDA shares regulatory responsibilities for wireless phones with the Federal Communications Commission (FCC). All phones that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. FCC relies on FDA and other health agencies for safety questions about wireless phones.

FCC also regulates the base stations that the wireless phone networks rely upon. While these base stations operate at higher power than do the wireless phones themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless phones. Base stations are thus not the primary subject of the safety questions discussed in this document.

What are the results of the research done already?

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of radio frequency energy (RF) exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer-causing chemicals so

as to be pre-disposed to develop cancer in absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we don't know with certainty what the results of such studies mean for human health.

Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer, glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phones RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

What research is needed to decide whether RF exposure from wireless phones poses a health risk?

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable proof of a cancer promoting effect if one exists.

Epidemiological studies can provide data that is directly applicable to human populations, but ten or more years' follow-up may be needed to provide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop - if they do - may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

What is FDA doing to find out more about the possible health effects of wireless phone RF?

FDA is working with the U.S. National Toxicology Program and with groups of investigators around the world to ensure that high priority animal studies are conducted to address important questions about the effects of exposure to radio frequency energy (RF).

FDA has been a leading participant in the World Health Organization international Electromagnetic Fields (EMF) Project since its inception in 1996. An influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world. The Project has also helped develop a series of public information documents on EMF issues.

FDA and Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless phone safety. FDA provides the scientific

oversight, obtaining input from experts in government, industry, and academic organizations. CTIA-funded research is conducted through contracts to independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

What steps can I take to reduce my exposure to radio frequency energy from my wireless phone?

If there is a risk from these products - and at this point we do not know that there is - it is probably very small. But if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your exposure to radio frequency energy (RF). Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure.

- “If you must conduct extended conversations by wireless phone every day, you could place more distance between your body and the source of the RF, since the exposure level drops off dramatically with distance. For example, you could use a headset and carry the wireless phone away from your body or use a wireless phone connected to a remote antenna.

Again, the scientific data do not demonstrate that wireless phones are harmful. But if you are concerned about the RF exposure from these products, you can use measures like those described above to reduce your RF exposure from wireless phone use.

What about children using wireless phones?

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radio frequency energy (RF), the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure.

Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

Do hands-free kits for wireless phones reduce risks from exposure to RF emissions?

Since there are no known risks from exposure to RF emissions from wireless phones, there is no reason to believe that hands-free kits reduce risks. Hands-free kits can be used with wireless phones for convenience and comfort. These systems reduce the absorption of RF energy in the

head because the phone, which is the source of the RF emissions, will not be placed against the head. On the other hand, if the phone is mounted against the waist or other part of the body during use, then that part of the body will absorb more RF energy. Wireless phones marketed in the U.S. are required to meet safety requirements regardless of whether they are used against the head or against the body. Either configuration should result in compliance with the safety limit.

Do wireless phone accessories that claim to shield the head from RF radiation work?

Since there are no known risks from exposure to RF emissions from wireless phones, there is no reason to believe that accessories that claim to shield the head from those emissions reduce risks. Some products that claim to shield the user from RF absorption use special phone cases, while others involve nothing more than a metallic accessory attached to the phone. Studies have shown that these products generally do not work as advertised. Unlike “hand-free” kits, these so-called “shields” may interfere with proper operation of the phone. The phone may be forced to boost its power to compensate, leading to an increase in RF absorption. In February 2002, the Federal Trade Commission (FTC) charged two companies that sold devices that claimed to protect wireless phone users from radiation with making false and unsubstantiated claims. According to FTC, these defendants lacked a reasonable basis to substantiate their claim.

What about wireless phone interference with medical equipment?

Radio frequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical Instrumentation (AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI. FDA has tested wireless phones and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a person uses a compatible phone and a compatible hearing aid at the same time. This standard was approved by the IEEE in 2000. FDA continues to monitor the use of wireless phones for possible interactions with other medical devices. Should harmful interference be found to occur, FDA will conduct testing to assess the interference and work to resolve the problem.

Additional information on the safety of RF exposures from various sources can be obtained from the following organizations:

- FCC RF Safety Program:
<http://www.fcc.gov/oet/rfsafety/>
- Environmental Protection Agency (EPA):
<http://www.epa.gov/radiation/>
- Occupational Safety and Health Administration's (OSHA):
<http://www.osha.gov/SLTC/radiofrequencyradiation/index.html>
- National institute for Occupational Safety and Health (NIOSH):
<http://www.cdc.gov/niosh/emfpg.html>
- World health Organization (WHO):
<http://www.who.int/peh-emf/>
- International Commission on Non-Ionizing Radiation Protection:
<http://www.icnirp.de>
- National Radiation Protection Board (UK):
<http://www.nrpb.org.uk>
- Updated 4/3/2002: US food and Drug Administration
<http://www.fda.gov/Radiation-EmittingProducts/RadiationEmittingProductsandProcedures/HomeBusinessandEntertainment/CellPhones/default.htm>

Road Safety

Your wireless phone gives you the powerful ability to communicate by voice, almost anywhere, anytime. But an important responsibility accompanies the benefits of wireless phones, one that every user must uphold.

When driving a car, driving is your first responsibility. When using your wireless phone behind the wheel of a car, practice good common sense and remember the following tips:

1. Get to know your wireless phone and its features, such as speed dial and redial. If available, these features help you to place your call without taking your attention off the road.
2. When available, use a hands-free device. If possible, add an additional layer of convenience and safety to your wireless phone with one of the many hands free accessories available today.
3. Position your wireless phone within easy reach. Be able to access your wireless phone without removing your eyes from the road. If you get an incoming call at an inconvenient time, let your voice mail answer it for you.
4. Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow, ice and even heavy traffic can be hazardous.
5. Do not take notes or look up phone numbers while driving. Jotting down a "to do" list or flipping through your address book takes attention away from your primary responsibility, driving safely.
6. Dial sensibly and assess the traffic; if possible, place calls when

you are not moving or before pulling into traffic. Try to plan calls when your car will be stationary. If you need to make a call while moving, dial only a few numbers, check the road and your mirrors, then continue.

7. Do not engage in stressful or emotional conversations that may be distracting. Make people you are talking with aware you are driving and suspend conversations that have the potential to divert your attention from the road.
8. Use your wireless phone to call for help. Dial 9-1-1 or other local emergency number in the case of fire, traffic accident or medical emergencies. Remember, it is a free call on your wireless phone!
9. Use your wireless phone to help others in emergencies. If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 9-1-1 or other local emergency number, as you would want others to do for you.
10. Call roadside assistance or a special non-emergency wireless assistance number when necessary. If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured, or a vehicle you know to be stolen, call roadside assistance or other special non-emergency number.

“The wireless industry reminds you to use your phone safely when driving.”

For more information, please call 1-888-901-SAFE, or visit our web-site www.wow-com.com

Provided by the Cellular Telecommunications & Internet Association

Operating Environment

Remember to follow any special regulations in force in any area and always switch your phone off whenever it is forbidden to use it, or when it may cause interference or danger. When connecting the phone or any accessory to another device, read its user's guide for detailed safety instructions. Do not connect incompatible products.

As with other mobile radio transmitting equipment, users are advised that for the satisfactory operation of the equipment and for the safety of personnel, it is recommended that the equipment should only be used in the normal operating position.

Using Your Phone Near Other Electronic Devices

Most modern electronic equipment is shielded from radio frequency (RF) signals. However, certain electronic equipment may not be shielded against the RF signals from your wireless phone. Consult the manufacturer to discuss alternatives.

Pacemakers

Pacemaker manufacturers recommend that a minimum distance of 15 cm (6 inches) be maintained between a wireless phone and a pacemaker to

avoid potential interference with the pacemaker.

These recommendations are consistent with the independent research and recommendations of Wireless Technology Research.

Persons with pacemakers:

- should always keep the phone more than 15 cm (6 inches) from their pacemaker when the phone is switched on.
- should not carry the phone in a breast pocket.
- should use the ear opposite the pacemaker to minimize potential interference.

If you have any reason to suspect that interference is taking place, switch your phone off immediately.

Hearing Aids

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may wish to consult your hearing aid manufacturer to discuss alternatives.

Other Medical Devices

If you use any other personal medical devices, consult the manufacturer of your device to determine if it is adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information. Switch your phone off in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

Posted Facilities

Switch your phone off in any facility where posted notices require you to do so.

Potentially Explosive Environments

Switch your phone off when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

Users are advised to switch the phone off while at a refueling point (service station). Users are reminded of the need to observe restrictions on the use of radio equipment in fuel depots (fuel storage and distribution areas), chemical plants or where blasting operations are in progress.

Areas with a potentially explosive atmosphere are often but not always clearly marked. They include below deck on boats, chemical transfer or storage facilities, vehicles using liquefied petroleum gas (such as propane or butane), areas where the air contains chemicals or particles, such as grain, dust or metal powders, and any other area where you would

normally be advised to turn off your vehicle engine.

Emergency Calls

This phone, like any wireless phone, operates using radio signals, wireless and landline networks as well as user programmed functions, which cannot guarantee connection in all conditions. Therefore, you should never rely solely on any wireless phone for essential communications (medical emergencies, for example).

Remember, to make or receive any calls the phone must be switched on and in a service area with adequate signal strength. Emergency calls may not be possible on all wireless phone networks or when certain network services and/ or phone features are in use. Check with local service providers.

To make an emergency call:

1. If the phone is not on, switch it on.
2. Key in the emergency number for your present location (for example, 911 or other official emergency number). Emergency numbers vary by location.
3. Press .

If certain features are in use (call barring, for example), you may first need to deactivate those features before you can make an emergency call. Consult this document and your local cellular service provider.

When making an emergency call, remember to give all the necessary information as accurately as possible. Remember that your phone may be the only means of communication at the scene of an accident; do not cut off the call until given permission to do so.

Restricting Children's access to your Phone

Your phone is not a toy. Children should not be allowed to play with it because they could hurt themselves and others, damage the phone or make calls that increase your phone bill.

FCC Notice and Cautions

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.

- 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.

The phone may cause TV or radio interference if used in close proximity to receiving equipment. The FCC can require you to stop using the phone if such interference cannot be eliminated.

Vehicles using liquefied petroleum gas (such as propane or butane) must comply with the National Fire Protection Standard (NFPA-58). For a copy of this standard, contact the National Fire Protection Association, One Batterymarch Park, Quincy, MA 02269, Attn: Publication Sales Division.

Cautions

Changes or modifications made in the radio phone, not expressly approved by Samsung, will void the user's authority to operate the equipment.

The use of any unauthorized accessories may be dangerous and void the phone warranty if said accessories cause damage or a defect to the phone. Although your phone is quite sturdy, it is a complex piece of equipment and can be broken. Avoid dropping, hitting, bending or sitting on it.

Connectivity

Bluetooth

Bluetooth is a short-range wireless communications technology capable of exchanging information over a distance of about 10 m without requiring a physical connection.

You do not need to line up the devices to beam information with Bluetooth. If the devices are within range of one another, you can exchange information between them even if they are located in different rooms.



- Samsung is not responsible for the loss, interception, or misuse of data sent or received via the Bluetooth wireless feature.
- Always ensure that you share and receive data with devices that are trusted and properly secured. If there are obstacles between the devices, the operating distance may be reduced.
- Some devices, especially those that are not tested or approved by Bluetooth SIG, may be incompatible with your device.

› Turn on the Bluetooth wireless feature

- 1 In Menu mode, select **Settings** → **Connectivity** → **Bluetooth**.
- 2 Select **Bluetooth** to turn on the Bluetooth wireless feature.



- 3 To allow other devices to locate your device, select  → **Settings** → **My phone's visibility** → **Always on** → **Set**.

If you selected **Custom**, enter duration that your device is visible and select **Done**.

Once the Bluetooth wireless feature is active, select  and use the following options:

- To change your device's name, select **Settings** → **My phone's name**.
- To set limits on browsing your files to others, select **Settings** → **Secure mode**.
- To check Bluetooth services available on your device and information about the services, select **Bluetooth services**.

► Find and pair with other Bluetooth-enabled devices

- 1 In Menu mode, select **Settings** → **Connectivity** → **Bluetooth** → **Search**.

- 2 Select a device.

- 3 Enter a PIN for the Bluetooth wireless feature or the other device's Bluetooth PIN, if it has one, and select **Done**. Alternatively, select **Yes** to match the PIN between your device and the device.

When the owner of the other device enters the same PIN or accepts the connection, pairing is complete. If the pairing is successful, the device will automatically search for available services.



Some devices, especially headsets or hands-free car kits, may have a fixed Bluetooth PIN, such as 0000. If the other device has a PIN, you must enter it.



Once the device is paired with another Bluetooth-enabled device, the device icon will turn green.

Select a paired device and use the following options:

- To browse files on the paired device, select **Browse files**.
- To view the service list of the paired device, select **Service list**.
- To change the paired device name, select **Rename**.
- To allow the paired device to access and browse your files, select **Authorise device**.
- To send your files to the paired device, select **Send My files**.
- To end the connection and delete the paired device, select **Delete**.

➤ Send data using the Bluetooth wireless feature

- 1 Select a file or item, such as a contact, calendar event, memo, task, or media file, from an appropriate application or **My files**.
- 2 Select  → an option for sending via Bluetooth.
- 3 Search for and pair with a Bluetooth-enabled device.

➤ Receive data using the Bluetooth wireless feature

- 1 Enter the PIN for the Bluetooth wireless feature and select **OK** (if necessary).
- 2 Select **Yes** to confirm that you are willing to receive data from the device (if necessary).

Received data is saved to an appropriate application or folder according to its type. For example, a music or sound clip is saved to the sound folder and a contact to the phonebook.



› Use Remote SIM mode

In Remote SIM mode, you can make or answer calls only with a connected Bluetooth hands-free car kit via the SIM or USIM card on your device. To activate Remote SIM mode,

- 1 In Menu mode, select **Settings** → **Connectivity** → **Bluetooth**.
- 2 Select  → **Settings** → **Remote SIM mode**.

To use Remote SIM mode, start the Bluetooth connection from a Bluetooth hands-free car kit.



You must authorise the Bluetooth hands-free car kit.

Wi-Fi

Learn to use your device's wireless networking capabilities to activate and connect to any wireless local area network (WLAN) compatible with the IEEE 802.11 b/g/n standards. You can connect to the internet or other network devices anywhere an access point or wireless hotspot is available.



Your device uses non-harmonised frequency and is intended for use in all European countries. The WLAN can be operated in the EU without restriction indoors, but cannot be operated outdoors in France.

› Activate the WLAN feature

In Menu mode, select **Settings** → **Connectivity** → **Wi-Fi**.



An active WLAN running in the background will consume battery power. To preserve battery power, activate the WLAN only when needed.



➤ Find and connect to a WLAN

- 1 In Menu mode, select **Settings** → **Connectivity** → **Wi-Fi**.
The device will automatically search for available WLANs.
- 2 Select the check box next to a network.
- 3 Enter a password for the network and select **Done** (if necessary).

➤ Customise the connection profile

- 1 In Menu mode, select **Settings** → **Connectivity** → **Wi-Fi**.
- 2 Select the discovered WLAN AP.
The current connection profile for the network appears.
- 3 Customise the connection profile of the selected WLAN:

Option	Function
Name	View the name of the profile.
Security type	View the security type of the WLAN AP.
EAP method	Select an EAP method. This option is available depending on the selected security type.
User name	Enter your user name. This option is available depending on the selected security type.
Password	Enter your password. This option is available depending on the selected security type.
IP address	View your IP address of the WLAN AP.
IP address type	Select the IP address type of the WLAN AP.



Option	Function
Proxy address and port	Enter the address and port number of the proxy server.
AP MAC	View the MAC address of the WLAN AP.



To delete all details of the connection profile, select **Forget**.

➤ Connect to a WLAN using a Wi-Fi Protected Setup (WPS)

- 1 In Menu mode, select **Settings** → **Connectivity** → **Wi-Fi**.
- 2 Select **WPS PBC** or **WPS PIN** depending on the AP device type.
- 3 Press a WPS button on the AP device within 2 minutes.
Or, enter a PIN on the AP device and select **Start** within 2 minutes.

Mobile AP

Learn about the Mobile AP feature, which sets your device as an wireless AP (Access Point) to connect to the internet on other network devices.

- 1 In Menu mode, select **Settings** → **Connectivity** → **Mobile AP**.
- 2 Select **Mobile AP** on the top to activate the Mobile AP feature.
- 3 Select **OK** to confirm.

