

SED GPH-610R

User Manual



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Warning

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This manual describes the features and functions of the SED GPH-610R handheld only. Due to product version upgrades or other reasons, this manual is subject to change without notice. Unless otherwise stated, this manual serves only as an instruction manual. Any statements, information, and suggestions in this manual do not constitute a warranty of any kind, explicit or implied.

Version: G

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Chapter 1 Getting Started

The wireless device described in this manual runs on GSM-R networks. For more information about applicable networks, consult your service provider.

Your handheld is a low-power radio transmitter and receiver. It receives and transmits radio frequency signals during use. When you use the handheld for communication purposes, the system for call processing controls the transmitted power level of your handheld. The maximum operating temperature of your handheld is 40°C.

Safety Precautions



Read the following safety precautions to avoid danger and comply with the law.

Children:

Store your handheld in a safe place beyond the

reach of children. Do not let children play with the handheld or its accessories. Improper use by children may damage the handheld or its accessories and cause injuries. Children may also swallow removable parts of the handheld, such as the SIM card and battery.

Environmental protection:

Do not dispose of the handheld or electronic accessories, such as the battery charger, headphone, and battery, with organic waste. Observe the local law, and recycle all parts of the product.

Traffic safety:

Strictly observe the local law and regulations governing the usage of handheld when driving. If the local law allows you to use a handheld while driving a vehicle, follow these instructions:

- Focus on steering the vehicle and pay attention to traffic;

- Use the hands-free mode to make calls;
- If driving conditions are not ideal, stop the vehicle at the roadside before using the handheld.

Do not place your handheld above or near the airbag when it is unfolded, as the expanded airbag generates a strong external force to cause injuries.

Consult your automobile manufacturer to ensure that electronic devices used in your vehicle are not affected by radio waves.

Public places:

Switch off your handheld in public places if required.

Airplanes:

Comply with the law. The use of handhelds on airplane interferes with flight controls. Switch off your handheld before boarding.

Near an explosion site:

To avoid interfering with demolition works, switch off your handheld at demolition sites or in places where it is necessary to switch off bi-directional radios. Observe rules and regulations.

Near dangerous articles:

Switch off your handheld at gas stations or near dangerous substances, such as fuel and chemical reagents.

Hospitals:

Switch off your handheld in hospitals and near medical devices marked with signs forbidding the use of handhelds.

Pacemakers:

Handhelds will interfere with pacemakers, please use them according to the following instructions:

- Keep a distance of at least 15 cm between the handheld in standby mode and a pacemaker;
- Do not place the handheld in a chest pocket;
- Use the ear the furthest away from the pacemaker to answer calls;
- Switch off your handheld if you feel uncomfortable.

Hearing aids:

If you use a hearing aid, consult your doctor and hearing aid manufacturer to check if your hearing aid is sensitive to interference from

handhelds.



: Use careful with the earphone maybe possible excessive sound pressure from earphones and headphones can cause hearing loss.

Interference:

All handhelds may suffer from interference, thus affecting performance.

Accessories and batteries:

Only use designated accessories and batteries. Improper use of battery may cause danger. Use chargers approved by Shenzhen SED Wireless Communication Technology Co., Ltd.

Note: In order to further improve user experience of the handset, we have applied batteries with a larger capacity (1900 mAh) in the GPH-610R V4.0 to enhance the battery endurance. Due to the compatibility, please use the matching battery for the handset. For example, use the 1900 mAh battery for GPH-610R V4.0 handset, instead of the 1500 mAh battery. You can distinguish the handsets and batteries as follows:

- 10 -

1. Distinguishing the GPH-610R V4.0 handset
There is an obvious "V4.0" mark on the label in the battery compartment of the GPH-610R V4.0 handset, while this mark is unavailable in V3.0, as shown in the following figure.



2. Distinguishing the 1900 mAh and 1500 mAh batteries

The color of the 1900 mAh battery enclosure is gray and the capacity indicated on the battery label is 1900 mAh. The color of the 1500 mAh battery enclosure is black and the capacity indicated on the battery label is 1500 mAh, as

shown in the following figure.



Note: When inserting the battery charger to charge the handheld, do not remove the battery from the handheld or insert the battery charger into a handheld without a battery; otherwise, the handheld might be damaged.

Do not short circuit the battery. If a metal object contacts the exposed electrode of the battery, short-circuiting occurs, which can cause damage or injuries. To prevent accidental leakage, store charged batteries properly. Take care not to place the battery in your pocket, wallet or a bag with other metal items.

Emergency calls:

Ensure that the handheld is switched on in a

service area. Dial the emergency number in standby mode. Then press . Inform the operator of your location. Do not end the call without instruction.

Temperature range:

The temperature range for using the handheld is -20°C to $+55^{\circ}\text{C}$ and the ambient temperature for adapter operation is 0°C to $+45^{\circ}\text{C}$ (Relative Humidity 5% to 95%).

Voltage range:

The voltage range of the handheld battery is 3.6 V to 4.2 V.

Altitude:

It is recommended that the handheld be used at an altitude from -100 m to 2500 m at minimum.

Specific absorption rate (SAR) information

THIS PRODUCT MEETS THE INTERNATIONAL RECOMMENDATIONS FOR EXPOSURE TO RADIO WAVES. The device complies with RF specifications when the device used at 5mm from your body.

Your handheld is a radio transmitter and

receiver. It is designed and manufactured to not exceed the limits for exposure to radio frequency (RF) energy defined by the international standards. These recommendations have been established by the International Commission on Non-ionizing Radiation Protection (ICNIRP) that forecasts a substantial safety margin for assuring the protection for all persons, regardless of age and health. The exposure recommendations for handhelds use a measurement unit known as the SAR. The SAR limit recommended by the ICNIRP for the handheld used by the general public is **2.0 W/kg averaged over ten grams of tissue.**

While there may be differences between the SAR levels of various handhelds and at various positions, they all meet the international protection standards for exposure to radio waves.

The highest SAR value for the GPH-610R handheld when tested for compliance against the standard is 0.652 W/kg for ICNIRP recommendation.

Tests for SAR have been conducted to use recommended operating positions with the handheld 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 levels of the handheld while operating are generally below the maximum SAR value. This is because the handheld 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 the base station antenna, the lower the power output.

For limiting radio wave exposure, it is recommended to reduce the handheld call duration or use a headset. The purpose of those precautions is to keep the handheld away from the head and the body.

Environmental care

Observe local regulations regarding the disposal of packaging materials, exhausted batteries and old handhelds and promote their recycling. SED Wireless has marked the

battery and packaging with standard symbols designed to promote recycling and the appropriate disposal of waste.



Do not dispose of the battery with the general household waste.



The packaging material is recyclable.



The plastic material is recyclable (This symbol also identifies the type of plastic).

WEEE Marking: "Information to the Consumer"

Product disposal

The product is designed and manufactured with high quality materials and components, which can be recycled and reused.



When this crossed-out wheeled bin symbol is attached to a product, it means the product is covered by the European Directive 2014/53/EU.

Please be aware of the local collection regulations for electrical and electronic products.

Please act according to your local rules and do not dispose of old products with the normal household waste. The correct disposal of old products will help prevent potential negative consequences for environment and human health.

This device may contain commodities, technologies or software subject to export law and regulations from the US or other countries, which you must follow.

Declaration of Conformity

We,

Shenzhen SED Wireless Communication Technology Co., Ltd.

11/F, SED Science and Technology Building, Nanshan District,

Shenzhen 518000

China

declare under our sole responsibility that the product

SED GPH-610R

ER-GSM Tx:873MHz-915MHz

Rx:918MHz-960MHz

GSM1800 Tx:1710MHz-1785MHz

Rx:1805MHz-1880MHz

The max power of ER-GSM is 2W, the max power of GSM1800 is 1W.

We hereby declare that the above named product is in conformity with the essential requirements of Directive 2014/53/EU.

The product is marked with CE according to the Directive 2014/53/EU:



Date: 16 December 2019

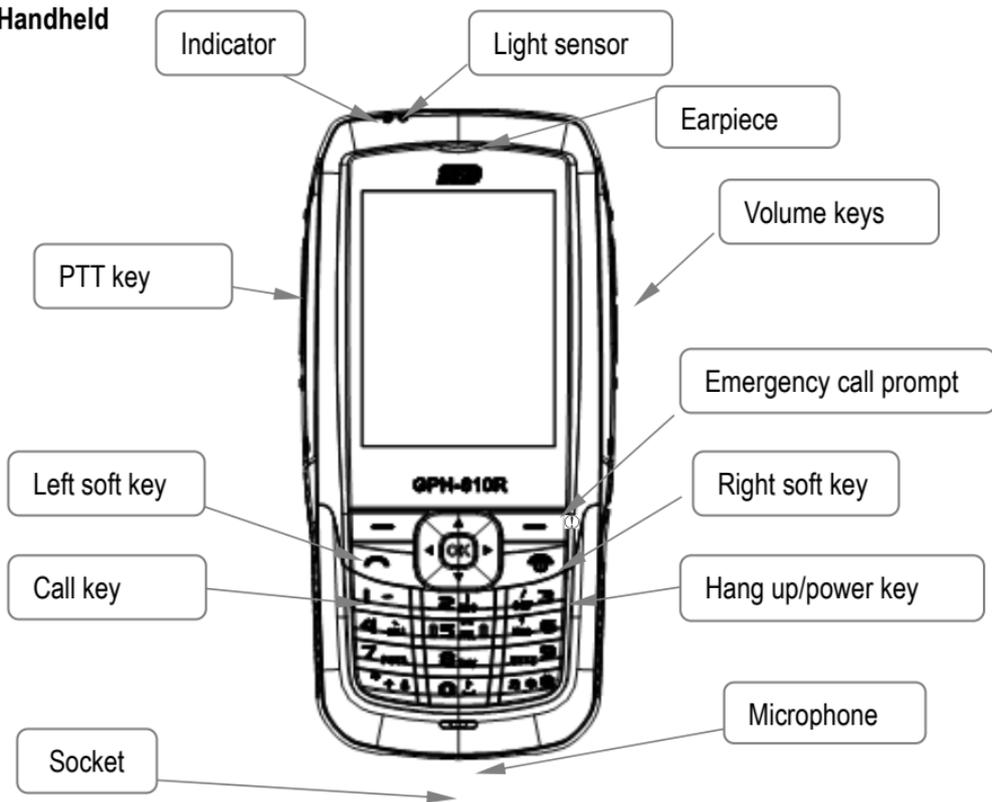
Authorization:

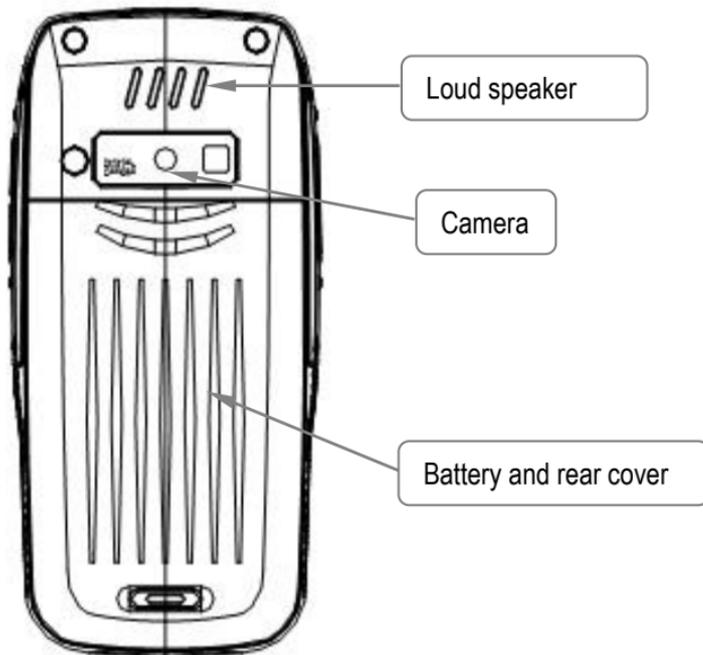
Signature:

A handwritten signature in black ink, appearing to be 'Frank HE', written over a white background.

Name: Frank HE

Position: Vice President

Your Handheld



Note: The pictures in this manual are for function illustration purposes only and may differ from your handheld.

Description of Icons

	Signal strength: The number of strips indicates the signal strength in ascending order.
	Network not found: The handheld is out of network coverage.
	Manual select mode: The manual network selection mode is active.
	No SIM card: Indicates no SIM card inserted
	Battery capacity: Indicates capacity.
	Clock: Setting an alarm displays this icon on screen.
	Vibration mode: Incoming calls (and SMS) prompt the handheld to vibrate.
	Mute mode: No tone will sound upon an incoming call (and SMS).
	Ring and vibration: Incoming calls (and SMS) prompt the handheld to ring and vibrate.
	New message: Indicates a new text message.
	Headphone mode: The handheld is set to use headphones.
	Call divert: The call divert function is enabled.

	Roaming: The handheld is in roaming mode.
	Power on attaching: GPRS will be attached when powered on.
	GPRS attached: GPRS is attached successfully.
	GPRS activated: The GPRS function has been activated and data is being transmitted.
	GPRS error: Errors occur in GPRS dialing or state.
	No ASCI feature: The current network does not support ASCI features.
	Function number synchronization: A function number requires synchronization.
	Bluetooth: Bluetooth device powers up.
	Bluetooth: Bluetooth device is connected successfully.
	GPS: GPS has been open.
	Cell lock: Cell lock or Cell forcing has been open.
	FOTA: Have firmware to upgrade wirelessly.

	WiFi: Connected WiFi.
	Calling: Talking on the phone.
	Missed calls: Some calls are not answered.
	Aeroplane mode: Cell phone signal will turn off.
	WiFi: WiFi hotspot open.

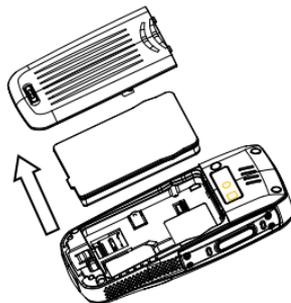
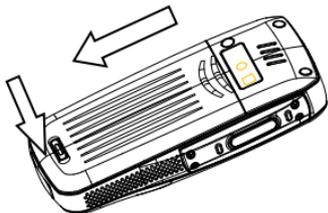
Preparations

Insert a valid SIM card before using the handheld. SIM cards are provided by network service providers.

Note: *Keep SIM cards beyond the reach of children.*

Installing the SIM card and battery

1. Press the button on the rear case, and then slide the rear case downward.
2. Take off the rear case and battery.

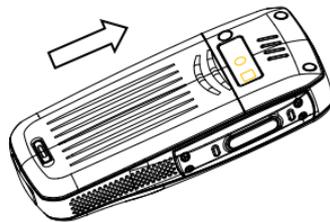
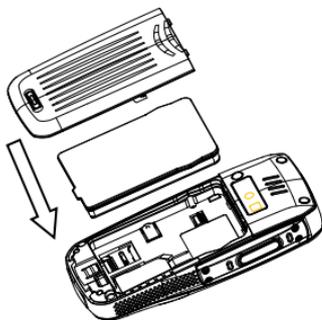


3. Ensure that the gap in your SIM card and the gap for the SIM card slot point in the same direction and that the side with a metal part faces down. Then slide the SIM card into the SIM card slot.



Note: The SIM card and its contact may be easily damaged due to scratching or bending; therefore, use, insert, and remove the SIM card carefully.

4. Insert the battery into the space, position the rear case on the back of the handheld, and push it upward to attach to the handheld.



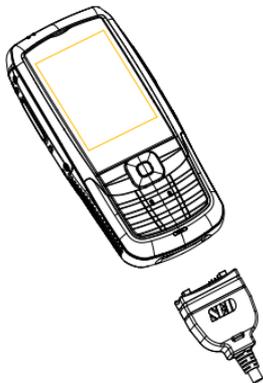
Charging the battery

Using a travel charger:

Connect the charger to the socket at the bottom of the handheld.

Ensure that the side marked with "SED" on the charger is consistent with the front of the handheld. Plug the charger connector into the power socket.

After the handheld indicates that charging is complete, remove the charger from the handheld and then remove the other connector from the power socket.



Chapter 2 Basic Operations

2.1 Switching On/Off

Starting up

To switch on your handheld:

- Press and hold  for about three seconds to switch on the handheld. If the battery is low, the handheld automatically switches off after being switched on. Then change or charge the battery. The handheld performs a self-test. This can take several seconds. If no SIM card is inserted in your handheld, a screen prompt is displayed requesting you to insert a SIM card. After you insert a SIM card, the handheld automatically checks whether the SIM card is valid.
- If your SIM card is set with PIN check, enter the PIN and press .

After the PIN check succeeds, your handheld will connect to the network.

Note: If you enter incorrect PINs three times consecutively, the screen displays the message that the PIN is locked. You need to enter your personal unlock code (PUK).

After the handheld finds a network, you will see the network name, signal strength, time, date, and standby image on the screen.

Switching off

- Press and hold  slightly for about five seconds to switch off your handheld.

Warning: If you remove the battery when your handheld is in use, all unsaved information will be lost and the handheld or SIM card may be damaged.

Do not switch on your handheld when the use of a handheld is forbidden or can cause interference or danger.

2.2 Handheld Modes

Standby Mode

Standby is the basic mode. After you switch on your handheld, the handheld enters standby mode. Here, you can

- View the present date and time, battery status, and ringing mode.

After you enter a phone number, you can

- Press  to dial the number or
- Press  to save the number in a phonebook.

When entering a menu, you can

- Press  or repeatedly press  to return to the standby mode.

Note: You can press the hang-up key to end a call. The screen will display that the call has ended.

Call Mode

When you make or answer a call, the handheld

enters call mode.

2.3 Basic Call Functions

Making a Call

Make a call as follows:

- 1 In standby mode, enter a phone number. Press  to call the number.

Note: If the connection fails, a call failure message is displayed. The dialed phone number is automatically saved in the call log.

- 2 In standby mode, you can press  to access a list of all call logs.

Making an International Toll Call

Enter the country code, area code, and phone number (without spaces), and then

- Press  to make an international toll call. Dial “+” when entering the country code, and hold  to input digits.



Using the Phonebook to Make Calls

Select a phone number from the phonebook to make a call, and then

- Press  to dial the number.

Re-dialing the Last Number

In standby mode,

- Press  twice to dial the number you dialed last time.
The last dialed number is automatically saved in the handheld.
- Press  to access a list of dialed numbers, in the number list, you can select a number, and press  to dial the number.

Note: Your network service provider has set one or multiple emergency call numbers (for example, 112). You can call these emergency numbers even if no SIM card is inserted in your handheld.

Answering a Call

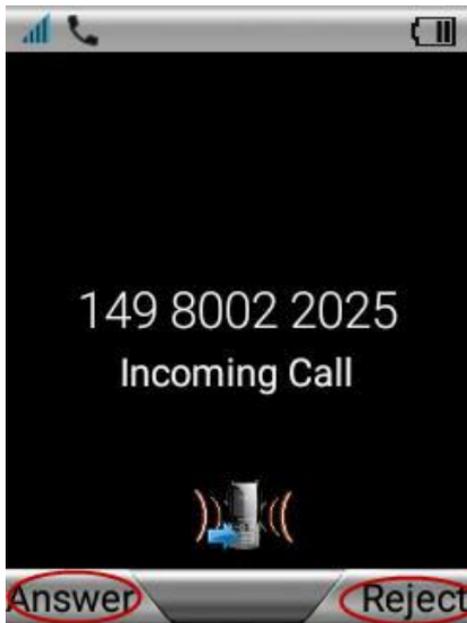
When receive an incoming call, the handheld displays information about the call. If you have subscribed to the incoming number display function (contact your network service provider for commissioning), the incoming number (or the name if stored in the phonebook) as well as the function number are displayed on the screen of your handheld. Then

- Press  to answer the call which is the default answer mode.
To change the answer mode, choose **Menu>Settings>Call Setup>Anykey answer**.
- Press  or  to answer a call if the answer mode is not select.
- Press any key except , , ,  to answer an incoming call if the answer mode is set to **Anykey answer**.

Note: At present, the handheld supports call answering by any key for calls in standby

mode.

the number is in your phonebook, the name is displayed).



During the call, the duration of the call and the caller number are displayed on the screen (if



Note: An incoming call will interrupt any other menu operation or function.

Ending a Call

- Press  To end a call.
After the call ends, the duration of the call is displayed on the screen.

Rejecting a Call

You can press  or  to reject an incoming call.

Adjusting the Volume

- Press  and  on the right side of the handheld to adjust the volume in standby mode, and on the time counter or number entry interface during a call.
- Press  on the time counter interface to enter the hands-free mode during a call. The loud speaker will become active and emit a sound. The word **Speaker** will be displayed on the screen.
- Press  again to exit the hands-free mode.

Note: After the handheld enters the hands-free mode, the speaker may be loud. Therefore, do not place the handheld near your ear before pressing the hands-free key.

Making an Emergency Call

When no SIM card is inserted

Switch on your handheld. When the screen prompts you SIM Not Inserted,

- Enter the emergency number (e.g. 112) and press  to make the emergency call.

When a SIM card is inserted

- In standby mode, enter the emergency number (e.g. 112) and press .

Viewing Missed Calls

If you do not answer an incoming call, the missed call number is automatically saved in a call list.

- Choose **Menu > Calls > MISSED** and

open the list. You can press  to directly dial the number in a missed call. When you miss a call, the number of missed calls is displayed on the screen in standby mode.

- Press  in the list of missed calls to display details about each missed call, including the phone numbers of missed calls, and the time of the last three missed calls from a single number and the missed call times.
- Press  to display the following menu to maneuver records on the list interface:

1 View: View details.

2 Call: Calls this number.

3 Send SMS: Writes a message to this number.

4 Save to Phone: Saves this number in the phonebook.

5 Call after Edit: Edits this number and then dials the new number.

6 Delete: Deletes this call record.

7 Delete All: Deletes all missed call records.

Press  to confirm the operation, or press  to cancel the operation.

Menu during a Point-to-Point call

During an ongoing call, you can press  to enter a menu. This menu contains options: **Hold/Unhold**, **Save Contact**, **Send SMS**, **View SMS**, **Mute/Unmute**, **RF Monitoring**, **Cell Forcing** (Optional) and **Cell Lock** (Optional).

Managing Multiple Calls

Before using this function, you may need to obtain this service from the service provider. During an ongoing call or when a call is held, you can make a second call.

When you make a second call during an ongoing call, the first call is held, and the handheld calls the second number. If the second call is answered, the numbers of the ongoing call and the held call are displayed on the screen. You can follow the screen prompt

and press  to access the following menu:

- 1 Switch Call:** Swaps the ongoing and held calls.
- 2 Drop Active:** Drops the current ongoing call.
- 3 Drop Hold:** Drops the held call.
- 4 Drop All:** Drops all ongoing and held calls.
- 5 Save Contact:** Jump to the Phone Book interface to save current number.
- 6 Send SMS:** Jump to the SMS interface.
- 7 View SMS:** View SMS during call.
- 8 Mute/Unmute:** You can choose between silent or non-silent mode.
- 9 Merge:** Sets up triple calls in teleconference mode.
- 10 RF Monitoring:** View RF Monitoring during call.
- 11 Cell Forcing:** You can force the mobile to camp on a target cell during call.
- 12 Cell Lock:** Lock the current cell during call.

2.4 GSM-R Operations

The GSM-R function is a dedicated function of this handheld, specifically designed and developed for railway-related services. It needs to be supported by the GSM-R network and a dedicated SIM card.

Description

Point-to-point call: Indicates a point-to-point voice call.

Group call: A group call that allows multiple listeners but only one speaker at the same time. The user presses and holds the PTT key to occupy the right to speak, and releases the PTT key to stop speaking. The listener can press the PTT key to gain the right to speak when available. After successfully seizing the right to speak, the user can do so.

Broadcast call: A broadcast call is similar to a group call. Only the initiator of the call is allowed to speak, and does not need to hold the PTT key. Other users can listen to the call, but cannot gain the right to speak.

Initiating a point-to-point call

In standby mode, you can input the phone number, short number or function number of the called party, and press  to initiate a call according to screen prompts. The last registered function number will be passed to the network by UUS1. Refer to the procedure for making a call in the basic call functions.

Initiating a group call

In standby mode, you can input a group call number and press the call key. Your handheld will automatically prompt the call menu according to SIM card settings. You can initiate a group call by select the group call in the menu. You can also choose **Menu > GSM-R > Group Calls** and select **GRP**.

Initiating a broadcast call

In standby mode, you can input a broadcast call number and press the call key. Your handheld will automatically prompt the call menu according to SIM card settings. You can

initiate a broadcast call by selecting the broadcast call in the menu. You can also choose **Main Menu > GSM-R > Group Calls** and select **BCT**.

Note: *The screen will not prompt you the menu for selecting group/broadcast calls if an incorrect or inactivated group/broadcast call number is inputted in standby mode. Then you cannot initiate a group/broadcast call.*

Initiating a railway emergency call

In standby mode, you can

- Press and hold the Right soft key  to initiate a railway emergency call. The screen will prompt you a confirmation message before initiating the railway emergency call.
- Press the PTT key to confirm it, which is the only way to initiate a railway emergency call.

Ending a group call

The initiator of a group call can end the group

call as follows:

Press  during the ongoing group call. The screen informs you that  means 'Close', and  means 'Leave'. Press  to end the group call.

Note: The dispatcher can also end a group call. Others except the group call initiator can exit a group call but cannot end the group call.

Ending a broadcast call

- Only the initiator of a broadcast call can end the broadcast by directly pressing .

Note: The dispatcher can also end a broadcast call. Others except the broadcast call initiator can exit a broadcast call but cannot end the broadcast call.

Exiting a group call

The initiator of a group call can exit the group call as follows:

- Press  during the ongoing group call. The screen informs you that  means 'Close', and  means 'Leave'. Press  to exit the group call.

The recipients of the group call can

- Press  to exit the group call.

Note: Users cannot exit certain high-priority group calls.

Exiting a broadcast call

The recipients of the broadcast call can

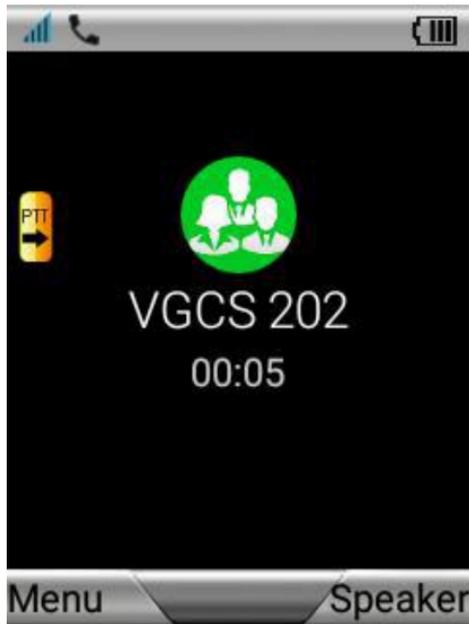
- Press  to exit the broadcast call.

Joining a group call/broadcast call

You can join a group call or broadcast call in the following ways:

- 1 When you receive the alert tone for a group call or broadcast call, you can join the call.
- 2 During a group or broadcast call, you can enter the number of the group call or broadcast call in standby mode. The handheld

automatically joins the group call or broadcast call.



Occupying uplink during an ongoing group call

During a group call, the screen prompts you to

- Press the PTT key if the right to speak is available. In this case, you can hold the PTT key to gain the right to speak. If you successfully gain the right to speak, the handheld prompts you to speak. In this case, you can address the group.
- If you release the PTT key, you will resume listening only, and the previous listeners will be indicated by a Roger beep. If no prompt for speaking is displayed on the screen, you can only listen to the group call.

Note: You cannot occupy the uplink of an ongoing broadcast call.

Receiving a point-to-point call in an ongoing group call or broadcast call

When you receive a point-to-point call during a

group or broadcast call, the handheld notifies you that you have a new paging message.

- Press  to return to the standby mode to wait for the alert tone message of this paging message, or press  to ignore it.

You may also

- Press  to wait for the alert tone message of this paging message.

Before this:

If you have the right to speak in a group call, release this right and exit the group call.

If you are a listener during a group call, exit the group call.

If you are the initiator of a broadcast call, end the broadcast call.

If you are the recipient of a broadcast call, exit the call temporarily.

After viewing the alert tone message of a new point-to-point call,

- Press  to answer this call or press  to reject the call.

After the current call is rejected or the call ends

and if the previous group call or broadcast call is not completed, you will automatically join the previous group or broadcast call.

Note: *If the wait for the new point-to-point call message times out, the current call is regarded as having ended. If the priority of the incoming point-to-point call is at a high level, you will automatically exit the current group call or end the current broadcast call and return to the standby mode to wait for the alert tone of this point-to-point call. In this case, you can choose to answer or reject this call. If the priority of the ongoing group call or broadcast call is at a certain level, you will not be able to answer the point-to-point call.*

Receiving a group/broadcast call during a group/broadcast call

If you receive the alert tone for a new group call or broadcast call while another is in progress, you can

- Press  to reject the new call

- Press  to answer the new call.
Before answering the new call:
If you have the right to speak in the previous group call, you will release the uplink and exit that group call.
If you are a listener in the previous ongoing group call, you will exit that group call.
If you are a recipient of the previous broadcast call, you will exit that broadcast call.
If you are the initiator of the previous broadcast call, you will close that call.

Receiving a group/broadcast call in an ongoing point-to-point call

If you receive the alert tone of a group call or broadcast call during an ongoing point-to-point call, you can

- Press  to reject the new call
- Press  to answer the new call.

Receiving a point-to-point call in an ongoing point-to-point call

Refer to the instructions on managing multiple calls in Basic Call Functions.

Receiving multiple calls in a call at the same time

If you receive multiple calls in a call at the same time, you can choose to answer one of the calls through a list on the screen.

Automatic high-priority answering

If the priority of a call received in idle mode meets automatic answering, your handheld automatically answers this call.

If the priority of a received call during an ongoing call is higher than that of an existing call and the received call has automatic answering priority, your handheld automatically answers the new call.

Note: *In the call process, before automatically*

answering a call of high priority, the handheld handles the previous call according to the type of the previous call and whether you are the initiator of the previous call.

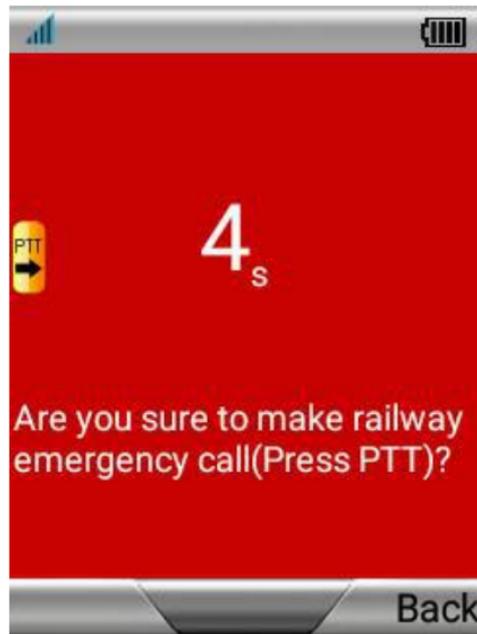
Railway emergency calls

If railway emergency calls are allowed, you can just hold down the Right soft key  to make a railway emergency call on the standby interface.

Operation of function numbers

In standby mode, you can directly enter the character string of a function number and then press  to register, de-register, interrogate, or forcibly de-register the function number. You can also choose **Identity** to perform operations related to the function number. The registered function number will be displayed on the idle screen. If more than one function numbers is

registered, the last registered number will be displayed.



Chapter 3 Input Modes

When using a handheld, you need to input text information from time to time. For instance, when you want to add a new phonebook, write a new message, or set a certain function, you need to use the correct input mode. The handheld will provide you with a proper input mode to fit the current language.

In German, the handheld provides several input modes:

- **Smart German (S.de)**: You can enter German words in this mode.
- **German alphabet (de)**: You can enter a single German alphabet in this mode.
- **Smart English (S.en)**: You can enter English words in this mode.
- **English alphabet (abc)**: You can enter a single English alphabet in this mode.
- **123**: You can enter digits in this mode.
- **Sign (*#&)**: You can enter signs in this mode.

Input Language Support

This handheld supports English, German.

Switching Between Input Modes

When you access text input, the current input mode is displayed at the bottom of the screen. You can

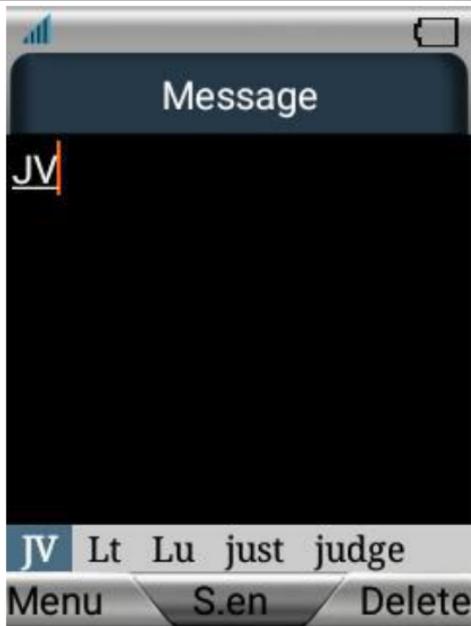
- Press  to switch to another input mode, or
- Hold  to select the upper case or lower case.

Alphabet input

The alphabet input mode has alphabets of different languages. After entering the alphabet input mode, press the corresponding number key for a letter to enter that letter. For instance, press  once to enter A, press it quickly twice to enter B, and three times to enter C.

Switching between abc/ABC

When using the alphabet input mode, hold  to switch between abc and ABC.



Word input

In smart input mode, you can sequentially

- Press the key of a letter in a word, and the system searches the library and then displays the matched words.

You can press up or down button to view words, and press OK button to select words, and then use numeric button to input words.

Cursor roll

In text mode, you can

- Press a direction key to move the cursor.

Number input

The number input mode is identified by “123”.

You can

- Press  to switch to the number input mode and enter numbers in a text area.
- Press the corresponding number key to enter the desired number.

Sign

You can enter signs in the main text area.

- Press  to switch to “*#” symbol input,
- Press  to exit. Method for entering signs:
- Press the up or down key to select a line,

and then press the corresponding number key to enter the desired digit.



Chapter 4 Menu

4.1 Using a Menu

This handheld provides a series of functions to suit your needs. These functions consist of menus and sub-menus. You can press direction keys and  or use shortcuts to access the desired menus and sub-menus.

Selecting a menu through direction keys

1. In standby mode, press  to enter a main menu.
2. If the main menu contains certain sub-menus such as **SMS**, you can find the desired sub-menu by pressing direction keys and then press  to enter the sub-menu. If the sub-menu you choose contains sub-menus, repeat this step.

Note: Press  to return to the previous menu. This operation does not change menu

settings. If a menu option is marked by a digit, you can also press the number key to select the option.

Entering a menu by shortcut

In standby mode, you can press shortcut keys to enter menus or sub-menus. To set shortcut keys, choose **Settings > Phone Setup > Shortcuts**.

4.2 GSM-R

GSM-R function is a dedicated function of this handheld specifically designed and developed for railway-related services. It requires support from the GSM-R network and dedicated SIM cards. This menu covers the following functions: making railway calls, managing special-purpose railway function numbers, and making and managing group or broadcast calls.

Group calls

You can use functions in this menu to make group or broadcast calls. You can also directly enter a number or string on the standby

interface and press  to initiate a call.

1 GRP: This menu lists activated group call numbers provided by the SIM card. You can select one number and press  or  to initiate a call.

Note: *During an ongoing group call, if the right to speak is available, you can press the PTT key to gain the right to speak. You can speak when the screen prompts you to do so.*

2 BCT: This menu lists activated broadcast numbers provided by the SIM card. You can select one number and press  or  to initiate a call.

3 GRP ID: This item lists the group call numbers provided by the SIM card. You can select or de-select one or multiple numbers according to the actual condition to facilitate selection during a call. To select a number, press the direction key to reach the number, press . The result of this operation depends on the permission settings of your SIM card.

4 BCT ID: This item lists the broadcast numbers provided by the SIM card. You can select or de-select one or multiple numbers according to the actual status to facilitate selection during a call. To select a certain number, press the direction key to the number, press . The result of this operation depends on the permission settings of your SIM card.

Note: *A group call number or broadcast call number not selected in Group ID management or Broadcast ID management is not displayed in Initiate a group call or Initiate a broadcast call. The group call or broadcast call will not be received. Therefore, operate with caution.*

Maintenance (Optional)

Maintenance settings are settings that are not normally accessible by the user in operation modes. These settings will normally be accessible only by authorized maintenance personnel.

1 Emergency Call: You can use the switch

Railway Emergency Call to make Emergency GC active/inactive in SIM card. You can select time of initialization and confirm by set **Long Press Key Time** and **Confirm Time**, respectively.

2 Set PtP Call Priority: You can use this menu to set the MO ptp call priority.

3 Active Menu: You can active maintenance menu by set this menu to active, and there would not need to key pin2 to enter maintenance menu.

4 No Service Audible: You can use this menu to set the no service tone to once, three times, periodic, or disable as required.

5 Ring Volume: You can use this menu to adjust the ptp volume, grp volume, or bct volume.

6 Call Ring: You can use this menu to set the ptp ringtone, grp ringtone, bct Ringtone, rec ringtone and confirm rec sound as required.

Reload SIM Data

You can use this menu to clear the GSM-R SIM card related data stored in the phone's memory and read it again from the GSM-R SIM card.

4.3 Identity

If your SIM card can register a function number, you can perform operations related to function numbers through this menu. This menu provides management, including function number registration, de-registration, interrogation, and switching. You can directly enter a character string on the standby interface and press  to register, de-register, interrogate, and forcibly de-register a function number with the network. The results of registration, de-registration, interrogation and forcible de-registration are related to network settings and the input number.

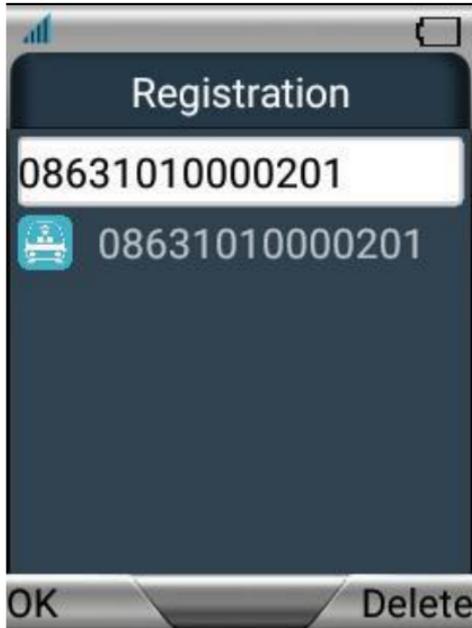


confirm the registration. The handheld sends a registration request to the network. The result is displayed in a pop-up box on the screen.

Note: *The result of function number registration depends on network conditions and the validity of the function number.*

1 Registration: In the GSM-R network, you can register a function number using one of the following methods:

1) Quick Register FN: Enter the function number to be registered on the function number entry interface, press , and



2) **TFN:** You can enter the corresponding TN number and function number according to prompts, press **OK**, and then confirm the registration. The handheld sends a registration request to the network. The registration result is

displayed in a pop-up box on the screen.

Note: When entering the FN number, you can press **—** to open a list and select it from the list.

- 3) **EFN:** Refer to TFN.
- 4) **CFN:** Refer to TFN.
- 5) **MSFN:** Refer to TFN.
- 6) **Dispatch FN:** Refer to TFN.

2 Deregistration: You can de-register a function number. This menu lists all registered function numbers. Select one, press **OK**, and then confirm the de-registration.

3 Force Deregister: If you have permission to forcibly de-register the function numbers of other users, you can forcibly de-register a certain function number of a certain user. The function number input window are available.

Press **OK** to de-register the numbers after confirming that the numbers are correct.

Note: *The forced de-registration of a function number may affect normal use for other users. Therefore, exercise caution with this operation.*

4 Interrogation: You can use this menu to interrogate the current registration information of a function number. You can enter the desired function number in the input window, and press . The inquiry result is displayed on the screen.

5 Change Current FN: If you register multiple function numbers, you can select one function number to display. To switch to another function number, press direction keys to select a function number and then press . For an outgoing call, the functional number and the functional identity are transferred via UUIE. If several functional registrations were made, the most recently registered number is transferred. And when changed current FN, then the current FN is displayed in idle screen, and be transferred in call.

6 Deregister All FN: You can use this menu to

de-register all registered function numbers.

Note: *This function is only for temporary function numbers.*

7 Synchronization FN: If your function number is forcibly de-registered but the handheld does not receive a network message, you can use this menu to synchronize your function number to the network. The synchronization result is displayed in a pop-up box on the screen.

Note: *Operations related to a function number require interaction with the network, so it may take a while to finish the synchronization operation.*

4.4 Names

You can use the phonebook in the handheld to store contact records.

Handheld Phonebook: Each record consists of name, phone number, call type, priority, company number, email, address, and other information. Choose **Menu > Names** to enter

the phonebook.

After entering the phone book, you can see a list of all records and press direction keys to select various records. You can also press the corresponding key according to the first letter of the name to fast locate the record you want.

For instance, press  once to locate the records starting with D, or press twice to locate the records starting with E. The screen may also prompt you to match multiple letters.

During record browsing, you can press  to dial the number of the present record. If the record is in the handheld phonebook and relates to multiple numbers, the handheld prompts you to select one of the numbers to dial.

On the browsing interface of the phone number list, you can press  to open a popup menu, which has the following options:

View

Select one record to view details.

Select a contact person, and press  to

view details, and then press . The following options are available:

1 Call: Select this option to dial the number related to this record. If the current record is in the phonebook in the handheld and is related to multiple numbers, the handheld prompts you to select one of the numbers to dial.

2 Write SMS: Select this option to send a text message to this record. A short message input window is displayed. After entering a message, select the related number to send the message (if the current record is related to only one number, the handheld sends the message to this number directly).

3 Edit: Select this option to edit details about the current record.

Note: *If this item is set with a group tone, the group tone is used; otherwise, the default tone is used.*

4 Delete: Select this option to delete this item..

5 Copy to SIM/Phone: If the item is originally saved in the SIM card, select this option to

copy that item to the handheld. If the item is originally saved in the handheld, select this option to copy it to the SIM card.

Note: *When a record originally saved in the handheld is copied to the SIM card, only the name and phone number of this record are copied.*

Memory Status

This function checks the total capacity and storage status of the phonebooks, including the SIM card capacity and the handheld capacity.

Own Phone Number

You can edit and store the number from the SIM card for inquiries.

Delete All

You can delete all phone numbers in the SIM card and the handheld.

4.5 SMS

The SMS is a network service. The network you are using may not support this service. For details, contact your network operator.

Depending on network support, the SMS can be sent through text, email, or fax. Before sending a text message, obtain the relevant service center number from your network operator.

In standby mode, press user-defined shortcut keys or choose **Menu > SMS** to enter the SMS.

When you enter SMS, press  to choose one of the following options:

1 New Message: Write a message.

2 Delete Conversation: Delete message(s) in list.

3 SIM Card Messages: Manage messages in the SIM card.

4 Memory Status: Displays the message storage status of the SIM card and handheld, lists the number of short messages, and shows the total capacity of SIM, theoretically no limits on phone's storage.

5 Settings: You can set all parameters related to short messages. Short messages are sent and received according to the parameter settings.

New Message

You can enter New Messages. You can see several boxes, from top to bottom, respectively,

1 The Contact Input Box: Enter the phone book, view the contact list, select one contact, and insert its number into the message. If this contact has multiple numbers, the screen prompts you to select one from the list.

2 The Contact Selection Box: Select a contact number from the phone book and send it in vCard format.

3 The Text Content Input Box: You can also edit a text message on an SMS template. When you start to enter characters in the window for editing a message, the screen displays the number of allowed characters and the number of current pages at the below center. You can

■ press  to switch between input

modes, such as Smart German, German alphabet, Smart English, English alphabet, and 123.

■ Hold  to switch between abc and ABC.

■ Press  to delete one character.

■ Hold  to delete all characters.

After editing a message, press  to choose one of the following options:

1) Send: You can send the message to no more than 20 numbers and save it in an outbox. In this case, you need to enter or select a number from the phone book. Or  directly send message, when you edit message to complete.

2) Save: You can save the message to draft when you edit message to complete.

3) Text Template: Select a previously edited short message template from the edit interface.

4) Discard: If the contact is entered in the contact input box, all content in the content edit box will be deleted, otherwise all content will be

deleted and returned.

Receive Message

When you receive a message, the handheld gives off a set alert tone or vibration. The new message is saved automatically in an inbox.

The  icon is displayed on the screen to indicate the arrival of a new message and display the  icon in the list. You can choose to read it at any time you wish.

When you enter selected message (include received message or viewed message) in the list, you can edit message content in the **The Text Content Input Box**. When you complete message. You press  to choose one of the following options:

1) Send: You can send the message to no more than 20 numbers and save it in an outbox. In this case, you need to enter or select a number from the phone book. Or  directly send message, when you edit message to complete.

2) Text Template: Select a previously

edited short message template from the edit interface.

3) Discard: If the contact is entered in the contact input box, all content in the content edit box will be deleted, otherwise all content will be deleted and returned.

4) Call: You can call the current recipient address.

5) Delete: Delete selected messages.

6) View contact / Add contact: View information of the current recipient address when exists in the phone book, otherwise, display **Add contact**, to save in the phone book.

7) Add Recipients: Add recipient address to **The Contact Input Box**.

8) Forward conversation: Forward function, add current selected messages to **The Text Content Input Box**.

9) Resend: When you move the failed message, you can resend this.

10) Save: You can save the message to draft when you edit message to complete.

Message Detail:

When you move message-item in the list-inbox, you can press  to enter message and focus on a message press  to enter message detail .

At the same time, you press  to choose one of the following options:

1) Call: You can call the current recipient address.

2) User Number: Extract the number in the short message. After selecting one, press  to perform the following operations:

1> Call: Call the specified number.

2> Reply: Reply the short message to the designated number.

3> Add to contact or View contact: store the specified number in phone book or view contact.

3) Delete: Delete current messages.

4)Reply:reply message to current contact.

5) Forward: Add current this message to **The Text Content Input Box.**

6) Copy Message to SIM: If current message is from receive message, display the value, and copy current this message to SIM card, otherwise, don't show value.

7) Move Message to SIM: If current message is from receive message, display the value, and move current this message to SIM card, otherwise, don't show value.

8) View Detail: View detail about current this message.

9) Resend: When you enter the failed message-item, the **Resend** will display, you can resend this.

10) View report: When **Delivery reports** is enabled, **View report** will display and view report.

SIM Card Messages

When you enter SIM Card Message. You can see that the information stored in the SIM card is displayed in the list.

When you press  to choose one of the following options:

1 View contact / Add contact: When the

number is stored in the phone, display View contact. Otherwise, display Add contact, to save in the phone book.

2 Copy: Select text message(s) from the current list and copy it(them) to the phone storage.

3 Move: Select text message(s) from the current list and move it(them) to the phone storage.

4 Delete: Select text message(s) from the current list and delete it(them) from SIM storage.

Settings

When you enter Settings, you can choose one of the following options:

1 General settings: You can choose one of the following options:

1) Delete Old Messages: It is a switch.

To trigger delete old messages as limits are reached.

2) Text message limit: When the switch is open. You can input quantity to set how much per conversation has.

Note: *The short message storage capacity of a SIM card varies. In the phone, Per Conversation has 10~5000 quantity.*

3) Text templates: You can use common short messages as a template through this function. Select Template in the Message menu to access a list of SMS templates.

If no SMS template exists in the menu, the handheld prompts you to add an item. You can press  to edit the first SMS template, or press  to exit.

If the menu contains SMS templates, you can press direction keys to select an SMS template and then press  to choose one of the following options:

1> New template: Adds an SMS template.

2> Delete: Delete selected template.

3> Edit: Accesses the window for editing a message and then edits the current SMS template.

2 Text message (SMS) settings:

1) Card preferred storage location:

Sets the storage position of messages: **Phone** or **SIM Card**.

2) Delivery reports: Enables or disables the status report.

If the status report is enabled, the network informs you that a message has been successfully sent after the recipient receives your message, and the report is viewed by **View report** menu function.

3) Message center: Enter the message center number, which is required to send a text message. Press  to save the number. You need to obtain this number from your network operator.

4) Forward SMS: Enables or disables the forward SMS.

If the forward SMS is enabled, the sender's information be added automatically to the message body.

5) Validity period: You can set the period during which the messages can be kept in the message service center before being deleted. The default validity period is "Maximum".

3 Push message settings:

1) Push messages: Enables or disables the push message.

If the push message is enabled, the phone will receive push message from in the network.

2) Service loading: When push messages is enabled, you can set the service loading. The default service loading is "Prompt".

4 Notifications:

1) Notifications: Enables or disables the notifications.

If the notifications is enabled, you can make sounds and show icon in status bar when notified.

2) Vibrate: Enables or disables the vibrate.

When notifications is enabled, if the vibrate is enabled, all vibrate when notified.

3) Preview message: Enables or disables the preview message. When notifications is enabled, if preview message is enabled, show a preview of received message on the screen.

5 Restore default settings:

Restore default settings: Restore the default settings for SMS. When you click this action will restore the default settings for SMS.

6 Advanced:

Cell Broadcast: This function is a service provided by your system consultant service center to users in the system. For example, weather forecast and traffic services may be available. Received cell broadcast messages are automatically displayed on the screen. You can directly read the messages.

You can press  to choose one of the following options:

1) **View details:** view selected broadcast short messages

2) **Delete broadcasts:** Delete all broadcast short messages.

3) Settings:

3.1) Emergency alert settings:

1> **Show extreme threats:** Enables or disables the switch, When this is enabled, display alerts for extreme threats to life and property.

2> **Show severe threats:** Enables or

disables the switch, When this is enabled, display alerts for severe threats to life and property.

3> **Show AMBER alerts:** Enables or disables the switch, When this is enabled, display child abduction emergency bulletins.

4> **Alert reminder:** You can set the alert reminder style. The default alert reminder is “off”.

5> **Vibrate:** Vibrate on alert.

3.2) Settings for GSM-R:

1> Show custom cell broadcast:

Enables or disables the receiving of broadcast short messages.

2> Cell broadcasts channel setting:

When **Show custom cell broadcast** is enabled, adds a channel or edits an existing channel.

4.6 Calls

The call log records three groups of calls: missed calls, all calls, and dialed calls, As shown in Figure . Each group contains 20 records for easy inquiry and use.

You can choose **Menu > Calls** or press  in standby mode to access a call log menu, and switch between lists of dialed calls, received calls and missed calls by pressing left and right keys.

Missed Calls

Enter this menu. The list of missed calls is displayed on the screen. Select a missed call, and press  to display details about the call, including the phone number, the time of the last three missed calls from the number, and the total number of missed calls from the number.

Press  to call this number or press  to choose one of the following options:

- 1 View:** Views the message.
- 2 Call:** Calls this number.
- 3 Send SMS:** Writes a short message for this number.
- 4 Save to Phone:** Save this number in the phonebook.
- 5 Call after Edit:** Edits this number and then calls the new number.

6 Delete: Deletes this record.

7 Delete All: Deletes all missed calls. The screen prompts you to confirm the deletion.

Press  to delete all, or press  to cancel the deletion operation.

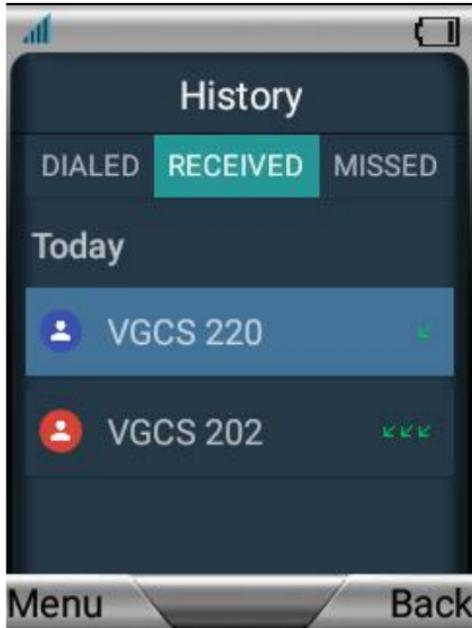
On the details interface, press  to choose one of the following options:

Dialed Calls

Refer to the description of dialed calls.

All Calls

Refer to the description of missed calls.



4.7 Tools

The menu **Tools** consists of submenus **Calendar**, **Calculator**, **Alarm Clock**, **Record**, **Bluetooth**, **WLAN**, **Working Alone** (Optional), **RF Monitoring**, **Cell Forcing** (Optional), **Cell Lock** (Optional), **Location** and **Log Report**. You can choose **Tools** to access this menu.

Calendar

You can view the calendar from 1970 to 2036. The calendar is easy to use. Press  to return to the previous menu.

- Press direction keys to select the date:
- Press  according to screen prompts to select **Jump**, and enter the interface for selecting a date. You can enter the target date on the screen, and then press  to go to the date or press  to exit.



The handheld also provides a calendar entry function. Enter the calendar interface and press

 to enter the following entry setting options:

- 1) **New event:** You can edit a new entry. The following options are available:

- 1) **Event name:** Input event name.
 - 2) **Date and Time:** You can set the time for the calendar from the beginning to the end.
 - 3) **Description:** Input description.
- 2) **View event:** This option is used to view, or edit, or delete the event you created.

Settings: Press the Menu on the left bottom, you can set the sound or vibrate for the events.

Calculator

The calculator can perform simple operations such as addition, subtraction, multiplication, and division. Press number keys to enter numbers, and press direction keys to select “+”, “-”, “x”, and “÷”. Select the “=” sign to display the calculated result. When the sign input field is empty,

- press  to exit the calculator,
- press  to restore to zero.

Note: Press  to clear one digit from the character input item, and hold  to clear

all digits.

Alarm Clock

This function allows you to:

1. Set alarm clocks.
2. Set the time for the alarm clock to alert.

Alarm clock 1: Enter the first alarm clock.

Then edit the next item according to screen prompts.

1. **Title:** By default, the name is alarm clock
1. You can change the name.
2. **Alarm Clock: When checked it is enable.** After an alarm is active, it is marked with an “*” behind the menu bar, but it is grey if overtime.
3. **Type:** Two option buttons are available: **Once, and Weekly.**
4. **Set date and time:** Select the date and time for the alarm to sound.

The methods for setting **alarm clock 2** and **alarm clock 3** are the same as the method for setting **alarm clock 1**.

Save/Delete: Press the Menu on the left bottom to select Save or Delete the alarm

clock.

Preferences: Press the Menu on the left bottom, select an alert tone for the alarm clock. You can choose between the 12-hour system and the 24-hour system to display time. You can also set how long the alarm clock ring, vibrate or not.

Note: *When the set time arrives, the handheld sounds an alert tone for the alarm clock. At the same time, the name and time of the alarm clock are displayed on the screen.*

Record

Two options are available: **Start Record** and **Playback**.

1. **Start Record:** Click  to start recording and start timing. At this time the screen prompts “Recording”. Press  or  to stop recording.
2. **Play Record:** Select  to play the

recorded content. For details about the operation, refer to the record description in **My Documents**.

3. **Save Record:** Press DONE button to save the recording.
4. **Discard Record:** Press DISCARD button to discard this record.
5. **Menu:** You can view recordings or clear recordings through this menu.

USB Mode

Connect the handheld to a PC by a data line, and turn this on to enter the USB mode. You can view and operate in your TF card.

STK

The availability of features in this menu depends on whether or not your SIM card supports STK. If yes, the STK menu will be displayed on the screen.

Flashlight

Enables or disables the flashlight.

Bluetooth Setup (Optional)

You can make a voice call via Bluetooth device. However, you have to connect your handset with the Bluetooth device at first.

This menu has 4 submenus: ON/OFF, Name, , Bluetooth Scan, Bluetooth List.

1 ON/OFF: Turn on / Turn off the Bluetooth.

The Bluetooth icon  is displayed in status bar after the Bluetooth device powers up, and it will disappear after power off.

2 Name: Set Bluetooth name for your handset. You can press  key and select "Rename this device". The default name is SED GPH-610R.

3 Bluetooth Scan: Scan the surrounding Bluetooth devices. Press  key and select "Refresh" to scan the surrounding Bluetooth devices. Bluetooth list will display the Bluetooth device has been found. After finding the devices, select one and press OK key or  key. Pop-up box will display with a

pairing code, press OK key or  key to pairing. Paired devices list will display the paired devices if the connection is successful.

The status bar displays  after the Bluetooth device is connected successfully.

4 Bluetooth List: A Bluetooth device will be in the list once it has been discovered and connected ever. You can press  key to view the Bluetooth devices list. The connected devices appear in the Paired devices list, otherwise appear in the Available devices list. Select a connected Bluetooth device, press  to view the Pop-up box:

- 1) **OK:** Rename device
- 2) **Forget:**Delete device

WLAN

You can make a fota-update used by WLAN device.

ON/OFF: Turn on / Turn off the WLAN. The WLAN icon  is displayed in status bar. When you select wlan-item, you can press

. The following options are available:

- 1) **Add network:**you can input correct password to connect the WLAN.
- 2) **Saved network:**Connected WALN list.
- 3) **Refresh:**Refresh current WLAN list.
- 4) **Advanced:**Current handheld relatively settings about WLAN.included items **Notify when using GPRS network, Toast When using cmcc, WLAN network available, Network notification, Keep WLAN on during sleep, Install certificates, WLAN direct, WPS Push Button, WPS Pin Entry, Open hidden dialog, MAC address.**

RF Monitoring

After entering the menu **Tools->RF Monitoring**, you can look up network information on your handset. Generally, the first page on your handset displays a cell list including some important parameters of serving cell and all neighbor cells, you can click on the displayed cell to view detail parameters.

Support Serving Cell: BCCH, RxLev, RxQual,
BSIC, CI, Timeslot, MCC, MNC, LAC
Neighbor Cells : BCCH, RxLev, BSIC etc..

Cell Forcing (Optional)

You can force the mobile to camp on a target cell in idle or dedicated mode, it will force handover in dedicate mode. An icon will be prompted in status bar. Select **Cell Forcing** and press OK to enter the setting screen. You can enter ARFCN and BSIC of target cell in this menu. Press OK to enable the forcing mode.

Note: *If the forcing ARFCN is not a BCCH ARFCN, your handset will lose service. In Dedicate mode, the forcing ARFCN shall be one of the six strongest neighbor cells that BSICs have been decoded. The success of handover finally depends on the network.*

Cell Lock (Optional)

You can use this function to lock the current serving cell, it will deactivate cell reselection and handover. An icon will be prompted in

status bar. You can also select **Cell Lock** and press OK key to switch between forcing mode and non-forcing mode.

Note: *The priority of Cell forcing is higher than Cell lock. Cell lock and Cell forcing cannot be used simultaneously.*

Location

ON/OFF: Turn on / Turn off the Location.

1) Mode: you can choose one of three, **High accuracy, Battery saving, Device only** . the default value is **High accuracy**

2) GPS information: This is a GPS information.

3) Use assisted GPS: enabled and disabled
Use assisted GPS.

4) A-GPS Roaming: enabled and disabled
A-GPS Roaming.

Log Report

The log report is mainly about saving the log information of the current handheld, such as **logcat**, **kernel**, **dump**, and sending them back to the manufacturer when the handheld crashes or has bugs.

At the same time, when you enabled **auto report when abnormal reboot**, it automatically captures the log information.

When you enabled **save shutdown time**, the time information is going to be written to log-text. Also when you enabled **battery usage report**, the got battery usage status will be written to the log report.

When a bug is found, please open the **logcat**, **kernel**, **dump**, and fill the description, date and time, and then click the button **PACK** to packing the log. Finally mail the log by clicking the button **MAIL**. when packing is done successfully.

You can press . The following options are available:

1 Clear cache: Delete the logs we've saved.

2 Run background: Quit without closing the log task, it's still running background.

3 Settings:

1) Single logcat time: Set how long to save a log.

2) Max logcat file count: Set how many log file need to be saved.

4 Read me: Some information about version info, tips and so on.

4.8 Settings

You can set your handheld to make it unique. Choose **Menu > Settings** or press a shortcut key in standby mode to access the **Settings** menu.

Display

1 Back Light: You can set the duration of the back light to 5, 10, 20, 30 seconds or 5 minutes, or Always On as required.

Note: Usually a short duration for the back light is set to prolong the standby duration of the

handheld.

2 Greeting: You can set the greetings displayed on the main screen.

3 Set Wallpaper: You can set the picture displayed on the main screen.

4 Signal LED: After this option is set to **Enable**, the indicator in the upper left part of the handheld blinks.

During switch-on:

- 1) If no network is available (the handheld is beyond the network service area or enters a blind area), the indicator emits a red light, and blinks at an interval of three seconds.
- 2) In the event of a missed call, the indicator emits a green light, and blinks at a short interval.
- 3) During normal use and without exception, the indicator emits a green light and blinks at an interval of three seconds.

Charging in powered-off state:

- 1) During charging, the indicator is red and is solid on.
- 2) When charging is complete, the indicator is

green and is solid on.

5 Contrast: Select **Manual Adjust**, and press . Then press left/right direction keys to adjust screen illumination. Select and turn on **Auto Adjust**. The handheld automatically adjusts screen illumination according to the light of the environment.

6 Auto Keypad Light: You can press  to start or close the automatic keypad light. When you start it, the keypad light automatically switches on or off according to the light of the environment. The keypad light remains on when you close it.

7 List Ongoing Calls: You can press  to activate or stop the call display function in standby mode. When you activate it, the screen periodically displays the present group call/broadcast numbers on the standby interface.



Tone Setup

1 Media Volume: You can adjust the media volume.

2 Alarm Volume: You can adjust the alarm volume.

3 Notification Volume: You can adjust the notification volume.

4 Other Sounds: You can turn on or turn off the **Boot & Shutdown Sounds** and **Keypad Ring**.

5 Call Alert: You can set the call alert to **Ring**, **Vibrate**, **Vibrate & Ring**, **Silent Mode** as required.

6 SMS Alert Ring: You can select an alert tone for short messages.

Security Setup

1 SIM card lock settings: You can lock or unlock your SIM card and change your SIM card PIN.

1) Lock SIM card: You can enable or disable PIN check. When PIN check is enabled, enter the PIN each time you

power on the handheld. No one is allowed to use the handheld without inputting the PIN.

2) Change SIM PIN: You can change the PIN according to screen prompts.

Enter the old PIN, and then press . Enter the new PIN (four to eight digits), and then press .

Enter the new PIN again, and then press .

If the screen prompts "SIM PIN changed successfully", it indicates that you have successfully changed the PIN.

Note: 1 *If you enter the incorrect PIN three times consecutively, your SIM card will be locked. In that case, contact your network service provider immediately and obtain a PUK from the network service provider to unlock your SIM card. Attempting to unlock the SIM card on your own may damage the SIM card.*

2 *You can change the PIN only after you enter the correct old PIN.*

2 Factory data reset: This function can restore factory settings.

Note: *Restart the handheld after restoring factory settings. All data previously recorded in the handheld, including the phonebook and pictures, will be lost after you restore factory settings. Therefore, back up your data first.*

3 Automatically Lock: This option is set to **Never** by default, indicating that the automatic lock function of the keypad is disabled. You can set the time before the keypad is automatically locked to 10 seconds, 30 seconds, 1 minutes or 5 minutes in standby mode.

Note: *You can also lock the keypad manually. Press  on the standby interface and then press  according to screen prompts. After the keypad is locked, you can press .*

according to screen prompts and then press



to unlock the keypad.

Phone Setup

You can set the functions, such as time, language, and shortcut keys, on your handheld.

1 Date & Time: You can use this item to set the time and date.

1) Date Setting: You can set the current date.

2) Time Setting: You can set the current time.

3) Select Time Zone: You can set the current time zone.

4) Date Format: You can set the date format to “YYYY/MM/DD”, “DD/MM/YYYY” or “MM/DD/YYYY”.

5) Use 24-hour Format: You can choose between the 12-hour system and the 24-hour system to display time.

6) Automatic Date & Time: You can set whether to automatically calibrate the time and date via network if your operator

support.

7) Automatic Time Zone: You can choose to automatically calibrate the time zone.

2 Language Settings: The handheld supports multiple languages for display, including English, German, French, Norwegian, etc. Select a language and press  to save the settings. The menu and prompt messages are displayed in the selected language.

3 Shortcuts: You can set shortcuts to the menus. Press a shortcut in standby mode to directly enter the defined menu. Here you can set four shortcut keys:

1) Up: This is the shortcut key for **Camera** by default. You can set  as the shortcut to a particular sub-menu. Press  or a number key to enter the **Up** key. A list of available sub-menus is displayed. You can choose a sub-menu, and then press  to set it and exit. You can press  on the standby interface to enter the sub-menu or press 

to exit directly.

2) Down: This is the shortcut key for **Group Calls** by default. Refer to the method for setting the **Up** key.

3) Left: This is the shortcut key for **Messages** by default. Refer to the method for setting the **Up** key.

4) Right: This is the shortcut key for **Ongoing Calls** by default. Refer to the method for setting the **Up** key.

5) PTT: This shortcut key is inactive by default. Refer to which kind of call to send when you press the **PTT** key.

5 Quick Dialing: You can press number 1 to send voice mail and set number keys 2 to 9 as different phone numbers.

- 1) Voicemail:** You can set or edit your voicemail number. To call your voicemail number, hold the number key 1 on the standby interface.
- 2) Speed Dial Set:** Enter numbers 2 to 9 and press  to call a number in standby mode according to your settings. You can select a

number key, enter the number input interface, input the phone number or press  to enter the phone book to select one phone number, and press  to confirm the operation. The number key list is returned. The phone number or contact number is displayed behind the corresponding number key.

Call Setup

This function allows you to perform call-related settings. Certain settings in this function require support from the network. For details, consult your network service provider.

1 Any Key Answer: You can open or close it as the answer mode.

2 Call Waiting: The handheld supports functions such as call hold and call waiting. After this function is enabled, the network notifies you of another incoming call during an ongoing call. You can hold the current call and answer the new call.

3 Call forwarding: Call forwarding is a network

function. This function can divert incoming calls to another designated handheld, voice mail or pager, thus avoiding missed calls. Several divert modes are available:

- 1) **Always forward:** All calls are diverted to the designated number.
- 2) **When busy:** During a call, new incoming calls are diverted to the designated number.
- 3) **When unanswered:** New incoming calls are diverted to a designated number if they are not answered within a certain time limit.
- 4) **Timeout when unanswered:** You can set the unanswered time.
- 5) **When unreachable:** When the handheld is powered off or out of the service area, incoming calls are diverted to the designated number.

Note: After you select a divert mode, the handheld requires the network to handle the current settings. A short delay occurs. After responding, the network returns the result of

the operation.

4 Call barring: This service can set restrictions for making or answering calls. This function, however, needs network support. For details, consult your network service provider. To enable call barring, you need to enter a password.

You can set call barring options on menus, including **All Outgoing Calls, International Calls, International Roaming Calls, All Incoming Calls, and Incoming When Roaming.**

You can also select **Cancel all barring** to cancel all restrictions for voice calls, or select **Password change** to set the password for call barring.

5 Network Operators: This menu is used for selecting the network. You can choose automatic selection or manual selection. The selection state is displayed in the status bar, for details see description of the icons. The active network will display on the idle screen.

Choose automatically: You can open or close

it. When you open it, the handheld automatically selects and registers with an available network. When you close it, the handheld selects a list of available networks in the current area. You can select a desired network, and press **OK** to confirm and exit, or press **—** to exit.

Preferred: Lists the names of GSMR networks in your SIM card.

Note: *Automatic selection is recommended. You can manually select a network only when the network enters an effective roaming agreement with your home network provider. If the network service changes, normal operations of the handheld are affected.*



6 Anonymous: You can apply for the Calling Line Identification Restriction (CLIR) service from the network service provider if you do not want to display your phone number to the

called party. Select **Hide number** to conceal your phone number, or select **Show number** to display it.

7 Close User Group: You can use this menu to set the close user group function:

- 1) **Index List:** You can select group index by this menu.
- 2) **Outside Access:** Select this option to set whether the user group can be outside access.
- 3) **Default Group:** This menu to open or close the default group.
- 4) **Deactivate:** Select this option to cancel the close user group function.

Data Service

This function allows you to configure GPRS data communication settings. If the setting is **On**, your handheld can be used as a modem. This function needs network support. For details, consult your network service provider.

1 Data mode: You can choose **Enable** or **Disable**. If you choose **Enable**, the data communication functions are available.

Note: 1 *The data service function is not the USB function, it is only enabled for the handheld carrying on the data communications with a PC when using the GPRS function.*

2 *If you need the function of data communications with a PC, you have to reset this option each time the handheld is powered on.*

2 Power on Attach: You can choose **Enable** or **Disable**. If you choose **Enable**, the handheld automatically attaches to GPRS the next time you power on the handheld.

Note: 1 *You can still connect a GPRS network even if **Power on Attach** is set to **Disable**. Each time when dialing, it will firstly make GPRS attachment.*

2 *You have to ensure the data mode is activated before connecting with a GPRS network.*

3 *For details about GPRS network related settings, refer to the product CD*

for related Operation Instructions.

3 Serial Speed: You can set the serial speed to 2400, 4800, 9600, 19200, or 115200. The default speed is 19200 when the handheld is powered on.

4 Tethering: You can share the network through USB tethering, WiFi hotspot and Bluetooth tethering.

This menu has 4 submenus:

1) USB tethering: Network sharing with computer requires data link.

2) Portable WLAN hotspot: Enable WiFi sharing or not.

3) Set up WLAN hotspot: Configure WiFi hotspot.

4) Bluetooth tethering: Enable Bluetooth connection network sharing or not.

5 APNs: Set and edit the access point name of the network.

Version Check

1 Wireless Update: Wireless system upgrade refers to the upgrade of the system.

Prerequisites: good network environment, and sufficient battery volume.

Procedure:

Enter the app.

Choose .

If there is any update, select

.

You can select or during the upgrade. Wait patiently until the upgrade package is downloaded.

After the update package is downloaded, select

to immediately upgrade the system

or to receive the upgrade notification later.

Note: *This operation takes a long period of time. Please wait patiently. During the system update, do not remove the battery, or forcibly shut down the phone. Otherwise, the update fails or other*

problems may occur.

2 System Version: View mobile phone system version.

User Feedback

This menu allows you to provide feedback via email or phone.

4.9 Document

Document is used to browse the information in your TF card, including **Sound, Picture, Record, Video**. The corresponding files in a PC are sound, picture, record, and video files.

Note: *When browsing the TF card, put the supported files into corresponding documents so as to view them on your handheld.*

Picture

This document lists pictures in your TF card, supporting pictures in JPG format and a maximum resolution of 1600*1200. Select a

picture in the list, and press  to view this picture or press  to open an operation menu that comprises the following options:

1 View: Views the picture.

2 Delete: Deletes the picture.

3 Rename: Renames the picture.

4 Delete All: Deletes all pictures in the document.

5 Attribute: Views information about the picture, such as the name, format, size, creation time and date, and picture dimension.

Video

This document lists videos in your TF card, supporting videos in 3GP and MP4 formats and a maximum resolution of 240*320. Select a video in the list, and press  to play this video or press  to open an operation menu that comprises the following options:

1 Play: Plays this video. Press  to pause or start to play this video, press  to stop playing it.

2 Delete: Deletes the selected video.

3 Rename: Renames the selected video.

4 Delete All: Deletes all videos in the document.

5 Attribute: Views information about the video, such as the name, format, size, creation time and date, and video resolution.

Sound

This document lists audios in your TF card, supporting audios in AMR, Midi, MP3, AAC, and WAV formats. Select an audio file in the list, and

- press  to play it or
- press  to open an operation menu that comprises the following options:

1 Play: Plays this audio file. Press  to pause to play this video file, press  to stop playing it.

2 Delete: Deletes the selected audio file.

3 Rename: Renames the selected audio file.

4 Delete All: Deletes all audio files in the document.

5 Attribute: Views information about the audio file, such as the name, format, size, and creation time and date.

Record

This document lists records in your TF card, including common recording tools and call recording files in AMR format. Select a file in the record list, and

- press  to play it or
- press  to open an operation menu that comprises the following options:

1 Play: Plays the record on the record list interface. Press  to pause to play the record, press  to stop playing it.

2 Delete: Deletes the selected record.

3 Rename: Renames the selected record.

4 Delete All: Deletes all records in the document.

5 Attribute: Views information about the record, such as the name, format, size, and creation time and date.

TF-card space

This function notifies you of the conditions of your TF card, including used space, remaining space, and total capacity of the TF card.

TF card Format

You can use this function to eliminate all files in your TF card.

Note: *The files cannot be recovered after formatting. Therefore, exercise caution with formatting.*

4.10 Camera

Select the **Camera** menu, and press  to enable the camera function. The scene taken by the camera will be save automatically. The related information is shown at the left and right corners of the display.

At this moment, the functions of the photo camera and the video camera can be exchanged with each other by pressing **Left** and **Right**.

1 Camera: In camera mode, the icon for the camera function is on the bottom right. At this moment, you can

- press  or  to adjust the focal length of the camera,
- Press  to take a photo directly.

The photographed image will save automatically,

- press  to display the following options:

1) View Picture: Views a photo list.

2) Flash Mode: Sets the flash mode function.

If you select **On**, the flash light function will be started during photographing. If you select **Off**, the function is disabled, If you select **Auto**, the function is auto.

3) Picture SIZE: Sets photo resolution to 4160*3120, 3264*2448, 1280*960,1024*768or 640*352.

4) Quality: Sets photo quality to **High**, **Medium**, or **Low**.

5) White Balance: Sets the white balance functions to Auto, Incandescent, Fluorescent,

Daylight or Cloudy.

6) Restore Default: Camera setting will be reset to default parameters.

2 Video Camera: In video mode, the icon for the video camera function is on the bottom right. At this moment, you can

- press  or  to adjust the focal length of the camera, or
- press  to record the video directly,
- press  again to stop recording and save the video recording result.

And then the display returns to the video photographing mode automatically.

Note: When the memory card does not have enough space, the handheld will stop photographing and save the previous record automatically.

At this moment,

- press  to display the following options:
 - 1) View Video:** Opens a video document folder and views a document list.
 - 2) Video Resolution:** Sets the video resolution to 1080P, 720P, 480P, CIF or QCIF.
 - 3) Restore Default:** Camera setting will be reset to default parameters.

Chapter 5 Reference Information

Access Password

The handheld and SIM card support multiple passwords to protect against unauthorized access.

PIN

The Personal Identification Number (PIN) protects the SIM card against unauthorized access. Usually the PIN is provided with the SIM card. When the power-on PIN is enabled, you need to enter this PIN each time you power on the handheld.

Note: *If you enter an incorrect PIN three times consecutively, the SIM card is locked. Then you need to enter the PUK to unlock the SIM card. Certain operators do not provide the PUK. Therefore, if you are asked to enter the PUK, contact your operator immediately. Do not enter any characters on your own.*

PIN2

Usually PIN2 is provided with the SIM card. PIN2 implements certain functions, such as the charge rate. These functions are implemented only when supported by your SIM card. If you enter an incorrect PIN2 three times consecutively, PIN2 is locked and you need to input PUK2 to unlock PIN2.

PUK

PUK is used for changing a locked PIN. PUK is provided with the SIM card. If it is uncertain, contact your local service provider. If you enter an incorrect PUK ten consecutive times, the SIM card cannot be used any more. Contact your local service provider for a new SIM card. The PUK cannot be changed. If the PUK is lost, contact your service provider.

PUK2

PUK2 is usually provided with certain SIM cards. PUK2 is used to change a locked PIN2.

If you enter an incorrect PUK2 ten consecutive times, you cannot use certain functions any more. Contact your local service provider for a new SIM card. The PUK2 cannot be changed. If the PUK2 is lost, contact your service provider.

Battery Use

The handheld uses special rechargeable lithium batteries. The handheld can be charged through a power adapter or by connecting to a PC with a dedicated USB 2.0 line.

Charge and discharge:

A charged battery will discharge over a certain period if it is not in use.

Precautions on Battery Use

- For safety reasons, do not use any damaged rechargeable batteries.
- When you use the handheld near a network base station, battery consumption is low. Therefore, the call and standby duration is largely affected by the signal strength of the cellular network and

parameters set by the network operator.

- The battery charge time depends on the remaining battery capacity and the type of the battery and charger. Rechargeable batteries can be used repeatedly, but will ultimately malfunction. When the used time of a battery (call time and standby time) declines significantly, consider buying a new battery.
- A fully charged battery will discharge if it is not in use.
- Use the designated battery and charger. Cut off the power when the charger is not in use. Do not connect the battery to the charger for over a week. Overcharging will shorten the service life of the battery.
- Do not store the battery in places of extreme temperatures; for example, in a car in summer or winter; otherwise the capacity and lifecycle of the battery will degrade. Try to maintain a constant indoor temperature for the battery. The handheld may fail to work temporarily in an environment that is either too hot or too

- cold, even if the battery is fully charged. Usually the discharge characteristics of lithium-ion batteries deteriorate in an environment below zero Celsius degrees.
- Do not short battery contacts. For example: If you put an idle battery in your pocket or bag with metal objects (coins, pins or pens) and the objects directly contact the positive and negative poles of the battery (the metal bars at the back of the battery), the battery will be shorted. This would damage the core or protection circuits inside the battery.
 - Dispose of (usually recycle) waste batteries according to local regulations.
 - Do not expose batteries to fire.

Careful Maintenance

The following suggestions help you comply with warranty clauses and prolong the lifecycle of your handheld. When you use the handheld, battery, charger or other accessories:

- Place the handheld and all the accessories beyond the reach of children.
- Do not put the handheld in a dusty place; otherwise, its movable parts will be damaged.
- The LCD is a vulnerable part of the handheld. Avoid dropping the handheld or hitting it with other objects. Prevent sharp objects from scratching the LCD.
- Do not put the handheld in hot places. High temperatures shorten the lifecycle of electronic devices, damage the battery, lift the edge of the device, and melt plastic parts.
- Do not put the handheld in cold places. When the handheld is moved from a low-temperature environment to a normal or high-temperature environment, vapor is generated inside the handheld as the temperature rises, thus damaging the electronic circuitry.
- Do not throw, knock or shake the handheld. Rough treatment could damage the internal circuitry.
- Do not use coarse chemical agents, solvents or strong pharmaceutical cleaning

agents to clean the handheld.

- Do not paint the handheld. Paint may stick on the movable parts of the device and affect normal operations.
- Use only equipped or designated antennas. Unauthorized antennas, accessories or modifications can damage the handheld, and violate rules governing radio devices.
- If the handheld, battery, charger or any accessory does not work, consult the nearest qualified maintenance service provider.

CAUTION

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

Glossary

Antenna

It is a device for transmitting and receiving signals. The size and shape of an antenna

depend largely on the frequency of the signals it receives. Handhelds and base stations must be equipped with antennas.

Call Barring

It is a restriction on outgoing calls and incoming calls.

Call Divert

It is the ability to divert voice or data calls to other handhelds or fixed phones.

Call Hold

Call hold allows you to switch between two calls if another incoming call is received during an ongoing call.

Call Waiting

You are notified if another incoming call is received during an ongoing call.

Conference Call

A multi-party call can have a maximum of six parties. This function requires network support.

Hands-free

With this function, you do not need to pick up or hold a handheld.

LCD

Usually it refers to the screen display of a

handheld.

Line Recognition Service

This service allows you to display or hide your own number when making a call.

PIN

It is a security code that protects the handheld against unauthorized access. The PIN is provided with the SIM card by the service provider. The PIN can comprise 4 to 8 digits, and can be changed as needed.

PUK

It is the password for unlocking the SIM card when you enter an incorrect PIN three consecutive times. The PUK consists of 8 digits, and is provided with the SIM card by the service provider.

Roaming

It is a service that allows you to use the handheld in other networks than your home network, for example when you are traveling.

SIM Card

This identification card with a crystal chip contains all information (including network, memory, and subscriber data) required to

operate a handheld.

Common SMS

It is a network service that involves sending and receiving information to and from other users. A written or received message (with fewer than 160 characters) can be displayed, received, edited, or sent.

Cell Broadcast

The network service provider sends broadcast information, such as traffic information and weather forecast, to handhelds within network coverage. The information is sent in the form of text messages to your handheld.

Voicemail

If you have subscribed to the voicemail service, callers may leave a message when you cannot answer a call. To call your voicemail number, hold the number key 1 on the standby interface. *Contact your network operator for more information.*

PB

Phone Book

SMS

Short Message Service

vCard

Electronic Business Card

IC

International Code

ISDN

Integrated Services Digital Network

MSISDN

Mobile Station International ISDN Number

CN

Coach Number

CUG

Closed User Group

EN

Engine Number

FC

Function Code

FN

Functional Number

LN

Location Number

MO

Mobile Originated

MT

Mobile Terminated

PTT

Push-To-Talk

PLMN

Public Land Mobile Network

ASCI

Advanced Speech Call Item

STK

SIM Tool Kit

Troubleshooting

If your handheld has a problem, refer to the following symptom descriptions and solutions. If the problem persists, contact the retailer or service provider.

Symptom	Solution
I cannot answer or make a call.	<ul style="list-style-type: none"> • Ensure that the handheld has been powered on. • Ensure that a valid SIM card has been correctly inserted. • Ensure that the signal strength is sufficient. • Ensure that call barring or fixed number dialing is disabled. • Ensure that call divert is disabled. • Ensure that a correct network has been selected.
The call sound volume is low.	<ul style="list-style-type: none"> • Ensure that the call sound volume has been set properly.
The handheld does not ring.	<ul style="list-style-type: none"> • Ensure that the vibration mode or silent mode is not selected for incoming calls. • Ensure that the ringing volume has been set properly. • Ensure that call divert is disabled. • Check if the surrounding environment is noisy.
The other party cannot hear me.	<ul style="list-style-type: none"> • Ensure that mute is off. • Ensure that the handheld microphone is near your mouth.
The PIN is locked.	<ul style="list-style-type: none"> • Contact your service provider to obtain the PUK for unlocking.
The battery cannot be charged.	<ul style="list-style-type: none"> • Ensure that the charger is properly connected. • Check that the battery or charger is not damaged.

No network is available.	<ul style="list-style-type: none">• Ensure that the SIM card has been inserted.• Check that your current position is covered by the service network.• Move the location to change the reception status.
I cannot power on the handheld.	<ul style="list-style-type: none">• Ensure that the battery has been installed.• Ensure that the battery is supplying power.• Hold the power key.
The standby time has shortened.	<ul style="list-style-type: none">• Ensure that the battery is fully charged.• Check whether the signal strength in your current location is weak.• Lower the LCD backlight.
I hear an echo or noise.	<ul style="list-style-type: none">• Move to a place with stronger signals.