

User Manual

Mobile Phone
Model: F450













Universe User Guide

Thank you for choosing this Spreadtrum Platformphone.

This device will offer you unprecedented surprise for it can support GSM cards and multiple cards standby. Meanwhile, this phone is equipped with a 3 megapixel HD digital camera, a MP3 Mobile Music and a MP4 video player. Enjoy yourself !

Safety

Please go through, and comply with, the following considerations before using this phone.

- ◆  Please take earphone if making or answering incoming call while driving or after you car is parked.
- ◆  The phone may interfere with aircraft telecommunication. So please turn it off or switch to flight mode during the flight.
- ◆  Anyphone may be susceptible to interference, which could affect performance.
- ◆  Please turn off your phone near the medical equipment or in the medical facility where anyphone must be out of service.
- ◆  Please use the original battery and accessories in order to have optimal performance and prevent phone damage. Please don't use unmatched products.
- ◆  Please turn off your phone in the gas station or near fuel or chemicals to prevent explosion.
- ◆  To avoid interference with blasting work, please turn off the phone on the site or where two-way radio must be switched off. Please observe the local rules.
- ◆  Burning or disposing of phone battery as usual is prohibited, or it may cause life risk or environmental pollution. Please dispose of and recycle it in compliance with the local environmental regulations.
- ◆  If your phone needs to be connected with other device, please read the User Guide of the latter.
- ◆  Some small components (e.g. memory card, etc.) shall be out of children's reach; otherwise it may be swallowed or cause other hazards.
- ◆  Please copy or keep a written copy of the vital information stored in your phone.
- ◆  Ensure the phone is turned on and within the service area. Enter the emergency number, press the talking key to tell your location. Please don't end the call without permission.

“Many people mistakenly assume that using a cell phone with a lower reported SAR value necessarily decreases a user's exposure to RF emissions, or is somehow “safer” than using a cell phone with a high SAR value. While SAR values are an important tool in judging the maximum possible exposure to RF energy from a particular model of cell phone, a single SAR value does not provide sufficient information about the amount of RF exposure under typical usage conditions to reliably compare individual cell phone models.”

World Health Organization (WHO) Advice, Organizations such as the World Health Organization

and the US Food and Drug Administration have stated that if people are concerned and want to reduce their exposure they could use a hands-free device to keep the phone away from the head and body during phone calls, or reduce the amount of time spent on the phone.

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Introduction

Insert SIM card and battery

Long press power supply key for 3s to turn it off;

Slide the back cover downwards and remove it;

Remove the battery. Insert SIM1 (per the mark “**SIM1**” on the card slot. The contactor shall face down (note the notch on the SIM card is in line with the slot). Push the SIM card inwards from the card slot until it absolutely fits the slot. Insert SIM2 in the same manner.

Insert the battery with metallic contact aligned to the phone battery contact and replace the back cover.

Note:

1. This User Guide is designed for both SIM cards inserted by selecting [Settings→Call Settings→Dual-SIM→Standby mode→Dual SIM dual standby]. If only one card is inserted or no Dual SIM dual standby is set up, the screen and options may differ from this manual.

Insert memory card

This phone supports the T-Flash memory card. After it is inserted, you can browse or copy, etc. the files stored in the memory card. Also, the disk space of this phone can be expanded.

Remove the back cover and battery and turn over the cover of the memory card in the direction as shown thereon;

Let the side of the memory card bearing metallic contact face down, insert the narrower end into the slot until absolutely fitted by it, and replace the back cover

Warning:

Please don't insert or remove the memory card quickly or frequently to avoid damage

Battery charging

The phone battery may be charged with travel charger

Insert the battery in the phone correctly;

Open the rubber cover on the left side of this device below the screen, let the charger arrow towards the screen, insert the charger plug into the screen, and connect the charger to the standard power supply socket.

After the charger is inserted, the battery intensity icon on the upper right of the screen starts running, which means the battery begins charging. When it is charged full, the icon stops running and the battery icon on the screen comes full .

After charging is over, cut off the connection between the charger and the standard power supply socket and then that between this device and the charger by pressing the buttons on both sides of the charger.

Note:

1. Please use the standard matched battery and charger to prevent explosion.
2. If the battery is absolutely of no power, the battery icon will appear 2~3min after charging. Charging may

take 2~5h depending on the current condition of this device (whether it is started, any call is made, etc.).

3. Please use charger to charge this device. USB wire charging shall be avoided if possible.
4. In order to help the new battery perform best, it shall complete 2~3 charge-discharge cycles. Its initial chargings shall last for more than 10h unceasingly for each

Power on and off

Power on

Long press power supply key for 3s to turn on this phone

Power off

Long press power supply key for 3s to turn off this phone.

Warning:

Please don't turn on this phone where it is prohibited or using it may cause interference or danger. In this case, please ensure this phone does not activate the regular power on/off or other functions.

Idle

Switch to Idle Page

Sliding to left and right can switch to Previous Slide/Next Slide.

Press Home button on the for a long time to enter into the thumbnail of the idle page, and select the needed page.

Press widgets or applications on the idle page, and pull it to the bottom dustin to delete.

Adding and Delete Application

Press Menu button on the idle page, select Add to add widgets and application to the standby.

Press widgets or applications on the idle page, and pull it to the bottom dustin to delete.

Wallpaper Settings

Press Menu button on the idle page, and select Wallpaper.

Users can set ordinary picture as the wallpaper, and can set dynamic wallpaper and video wallpaper.

Task Manager

Press Menu button on the idle page, and select task manager.

Click the close icon behind the application, and close the applications running in the background.

Notification

Press Menu button on the idle page, and select Notification.

Users can directly pull out the notification panel downward from the status bar.

Click tabs to browse the notification message, and check the running applications.

Search

Press Menu button on the idle page, select Search to use the local search fuction.

Settings

Press Menu button on the idle page, select Settings to enter into the phone settings.

Open Option Menu

Under standby situation, press the Lock button to open the option menu.

Users can fast set mute/flight mode or shutdown.

Main menu

Use Function Menu of Main Menu

Under idle situation, press the application icon, and open the function menu of the main menu.

Slide the main menu to display all the applications. Different main menus may have different slide mode.

Select [**Mian Menue->Main Menue Display**] to select various main menu with different styles.

Press the icon of a certain application for a long time to pull the application to the idle page.

Press Return button or main display to return back to the idle page.

Call

Dialpad

Under idle situation, press “Dialpad” button to enter into the dialpad interface, and press virtual keyboard to dial;

Press “Call”, escape the SIM card select screen. Select SIM1 to dial with SIM1; select SIM2 to dial with SIM2

Press “IP” button to carry out IP dial;

Press “Hide/Extend Virtual Keyboard” button to hide or extend the virtual keyboard.

Making an overseas call.

Enter the country code (in this case, “+” shall be entered by pressing * twice continuously);

Enter the area code (without “0” prefixed to that as usual) and the phone number;

Press “Call”, escape the SIM card option screen. Select SIM1 to dial with SIM1; select SIM2 to dial with SIM2

Dialing via Contacts

Enter the Contacts and search for the phone number you need;

Press Record for a long time to select Call in the option menu.

Calling an extension number

Enter the switchboard number;

Press [Option→Insert→Pause] and then input the extension number;

Press “call”, escape the SIM card select screen. Select SIM1 to dial with SIM1; select SIM2 to dial with SIM2

Making an emergency phone

Enter the emergency phone number;

Press “Call”, escape the SIM card select screen. Select SIM1 to dial with SIM1; select SIM2 to dial with SIM2

Answer or reject incoming calls

If there is an incoming call, press “Answer” to answer it;

If there is an incoming call, press “Reject” to reject it;

For incoming calls under the lock situation, slide to left and right to answer or reject calls.

Menu during a call

During a call, you can :

Hold: Press [Hold] to hold current call, and press [Activate] to resume current call when holding the call (the function needs to be supported by network).

Contacts: Enter into the interface of contact list.

Dial pad: Enter into the dial interface.

Record: Record the call details, and the document will be kept in the file manager automatically.

**Note:**

It is illegal to record any call in some countries. So please do so with the speaker's prior consent.

Mute: Turn off the microphone during the call. In the mute mode, you can hear the speaker but the speaker can't hear you.

Turn on handfree: Start or cancel a handsfree call.

Adjust volume

You can volume the receiver by side key during a call

End a call

Press "Hang up" to end a call.

Call logs

Show the phone numbers missed recently

Roll to any number and press the dial button reply the call, and can press [**Menu**] to select other operations.

Set as a rejected call

In the record details interface, press [**Menu**] to select [**Set as a rejected call**], Set the phone number as a rejected call, which may be available in the [**Contacts**→**Blacklist**].

Commonly Used Functions

Press the single record for a long time, and open the option menu.

Write SMS: Send SMS to the current number.

Write MMS: Send MMS to the current number.

Language call: Callback this number.

IP Call: Callback this number by IP.

Add to New Contacts : Store the number to this phone.

More Functions

On the call record interface, press [**Menu**] button to open the option menu:

Answer record: The phone, if not answer, will play the preset voice and then record the words of the speaker.

Delete All: Delete all phone numbers.

Call timers: The details of the SIM card is available after selecting that card to be viewed.

GPRS volume :Read the information of GPRS volume.

Contacts

Browsing contacts

When this device standby, select [**Contacts**] and open the namelist.

The contacts are listed in the order of unnamed, special symbol, digit and English letter respectively (for Chinese names, the English letter corresponding to their pinyin prevails).

Quick search

When this device standby, select [**Contacts**] and open the namelist.

Click search bar to search and position (vague search is allowed) through the virtual keyboard. ☞ Example: search for “Li Si” (Li Si)

Enter “**57**”. The first letter of the pinyin of “Li ” is “**l**” and the corresponding key is key 5, press it to locate the Chinese character initialed with “**jl**”, where there are two items, i.e. “**Leo**”, “Li Si”; the first letter of the pinyin of “Si” is “**s**” and the corresponding key is key 7, press it to continue locating to the Chinese character initialed with “**pqrs**”. So “Li Si” can be found out by entering “**57**” only.

☞ Example 2: search for “**sam**”

Enter keys “**726**” where the letters “**sam**” are located.

New contact

SIM1: The input is added to SIM1 with only one number stored under a name.

SIM2: The input is added to SIM2 with only one number stored under a name.

Phnone: All records other than in SIM1 and SIM2 are stored in the memory of this device. The editable items include the name, phone number, home phone number, company phone number and/or other phone numbers, the incoming a picture or ringtone, etc. for the said contact

Note: Name may be empty, but phone number shall not be so for any new record.

Function Menu of Contacts

On the interface of the contact list, press “Menu” to operate the functions:

Group: Enter into the group list interface.

Mark: Mark one or more contacts.

vCard: Import or export all the cards.

Quick Dial: Enter the quick dial.

Contact display: Select the display mode of the contacts.

More: Query the settings of this phone number and the size.

On the contacts list interface, press one record for a long time to operate the following functions:

Wirte message: send one message to the contacts.

Call: ring the contact.

Delete: Delete the person information.

Copy: Copy the contact information.

Send vCard: send the contact in vCard.

Export: Export the contact.

Addto Blacklist: Add the contact into Blacklist.

Message Service

Message service is actually a network service. This menu works soundly depending on the type of your SIM card and the service provided by the network operator. Therefore, please check it before applying such function.

Write message

Please have the service center number from the network operator before applying this function. The storage capacity of SIM card depends on its type.

SMS

Under idle situation, press “information service” button to enter into the mailbox list interface, press [**Write message**→**New SMS**] to enter into the message editor interface, manual input or insert the contacts from the address list as the recipients, press “send” button to send the messages after editing the contents.

Note: This device supports multi-messaging. Four common SMS are editable at most with each containing 268 Chinese characters or 612 English ones.

Creat a message, pressing“Menu”, you can:

Insert template: Insert template in the cursor position.

Add contact info: Insert in the message a name and its number from the Contacts.

Add phiz symbol: Insert an expression symbol in the cursor position.

Open regular send: Open the regular send function.

Font size: Set the font size.

Save as draft: Save the edited message in the Draftbox.

MMS

Short for multi-media service, MMS is just a multi-media message, which supports GIF, JPEG, WBMP or BMP display.



Note:

This function is available only when supported by the network operator. Meanwhile, only the phone compatible to MMS can receive and display such message.

Under idle situation, press “information service” button to enter into the mailbox list interface, press [**Write message**→**New MMS**] to enter into the MMS editor interface, manual input or insert the contacts from the address list as the recipients, press “send” button to send the messages after editing the contents or inserting the attachment.

Creat MMS: Presssing “Menu”, you can:

Delete: Delete the edited text or inserted audio/video.

Save as draft: Save the edited message in the Draftbox

Set slide time: Set the time of the slide.

Text layout: Set the position of the text display.

Font size: Set the font size.

Inbox

Save the received SMS and MMS.

Outbox

Save the SMS and MMS not sent out successfully.

Draftbox

Save the unsent messages and MMS.

Send messages

Save the SMS and MMS you sent successfully.

Security inbox

It can provide cryptoguard for the messages as designated to protect your messages.

Enter [Security inbox], press “Menu”you can:

New SMS: Enter into new SMS interface.

New MMS: Enter into new MMS interface.

Mark: single or multiple messages.

Sort:Set the category of the messages sorting.

Change Password: amend the password of the Security inbox.

On the security mailbox list interface, press one record for a long time to operate the following functions:

SMS:Enter into the new SMS interface.

MMS:Enter into the new MMS interface.

Voice call: Make the voice call.

IP call: Call IP.

Delete: Delete the message.

Lock: Lock up the message.

Move: Move the message.

Copy: Copy the message.

Add the addressors to: Add the addressors to the address list.

Commonly Used Phrases

Directly use the default phrases when writing the messages.

Broadcast message

Network service enables you to receive all kinds of text message, such as news, weather report, traffic conditions, etc. For the detail, please refer to your network operator.

Voice mail server

This is similar to the Answer machine. You may transfer the incoming call that you fail to answer duly to your Voice mail server, where the caller can leave message. You are reminded of message, if any, in the mailbox by a short message. This function is part of the mating software provided by the network operator, so you need to register it, please refer to your network operator for the detail.

**Note:**

You may transfer any incoming call to the Voice mail server (the number of caller to leave a message) by setting “Call Forwarding”

Function Menu of Mailbox List

Settings: Set relevant parameters for the short messages, multimedia messages and push messages.

Delete all: Enter into the empty mailbox/empty message interface.

Message capacity: Show the memory capacity of the messages.

Export SMS: Select the mailbox and path for exporting SMS.

Internet

Note:

1. Your Internet service provider may not support some functions, please confirm that your SIM card supports Internet function and the function has been opened.
2. To browse webpages, you might be charged of corresponding flow rate

Internet is an application platform integrating wireless communication and Internet technology, which makes it possible for you to access to rich Internet information source and e-commerce application etc.

Browser

Open the starting page of the browser, users can enter into input URL, search, bookmarks, history and stored pages through the interfaces. Press Menu button to open more menus: homepage, settings, clear records and exit browser homepage, and users can the homepage of ISP internet (set in advance or default homepage).

Current Page:

Option: Enter into option list of the browser.

Forward\Back: Open WAP page forward and backward.

Stop: stop loading WAP webpage

Refresh: Refresh current WAP page.

Add to bookmark: Add current WAP page to the bookmark list.

Bookmark: Open the list of the stored bookmark.

History: Open the list of browsing WAP.

Multimedia

Audio Player

The phone is able to play music files saved in phone and the downloaded music and support background play of MP3 file.












Instruction:

MP3 supports MPEG 1 layer 3 audio; supports MPEG 2 layer 3 low sampling rate extension; MPEG 2.5 layer 3 (unofficial).

Play songs:

When play some certain contents, select the needed items from the list.

Please press  to pause; please press  to continue; press  or  to fast forward or back. Please press  or  to turn to next or previous, and users can also switch by sliding to left and right. Please select settings > shuffle to open or close the shuffle (). Please select Settings > Repeat to repeat current contents () or all the contents () or close the repeat function.

Click AB to review.

Please select Option > Equalizer to modify the effect of the music player.

Please press home button to return to the main screen and play at background by the player.

Please press red button to close the player.

List

Select menu > music list and select the list.

Create New List

1. Select menu > new list.
2. Enter name of the list and select Confirm.
3. Select Yes to immediately add the songs; please select No to add the songs later.
4. Select Finish.

Press to pop up the menu to delete or edit custom list.

Select Option > Add music when checking the list to add more songs later on.











Video Player

The video player supports 3gp, mp4 and avi documents.

If the document is the standard format not supported, use the tools to convert into the standard format.

Play:

When play some certain contents, select the needed items from the list.

Please press  to pause; please press  to continue; press  or  to fast forward or back. Please press  or  to turn to next or previous, and users can also switch by sliding to left and right. Please select settings > shuffle to open or close the shuffle (). Please select settings > repeat to repeat current contents () or all the contents (), or close the repeat function. Press  to open the browser fast.

Open: Open local browse, network browse or local list.

Local browse: Browse the video documents in the phone or memory card.

Network browse: Open any website to watch your favorite videos, you can use GPRS network to surf the internet.

Local list: Play the stored video documents, you can add the videos in the memory card or the phone to local list for watching next time.


Camera Function

Take pictures and video clips with audio through the self-contained camera function.

Click the camera icon from the main screen, and switch to the framing menu of the camera.





Press return button to exit the camera procedure.

Zoom



Before taking pictures, use the screen zoom list to zoom in or zoom out the objects. Users can click the zoom in button , and can slide upper or down on the frames.

Shoot Mode

There are photo and video mode in the device. The default mode is photo.

Click the menu label  on the left of the screen, select the video to shoot in the mode page . Click the menu label  on the left of the screen, select the photo to take pictures in the mode page .

Settings

Click the menu label  on the left of the screen, and click  to reset various parameters.

Browse Shot Photos or Videos



Delete the photos or videos.



Share through information and bluetooth.

FM Radio

The system will automatically scan channels and record firstly open FM radio.

(Note: Insert the headset, the headset is the antenna.

Search Broadcast Channel

- Automatically search the broadcast channels, and press menu button → scan and save.
- Manually search the broadcast channels, and slide the roller on the screen (move the frequency red line to adjust) to slightly adjust, or manually input the channels.

Background Play

Click home button, FM plays at background.

Record

Record (scheduled record) the playing channels, and automatically save them to the record list.

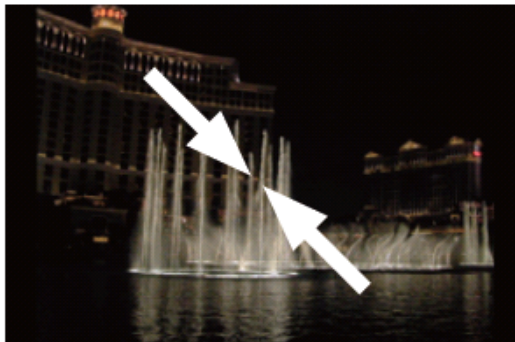
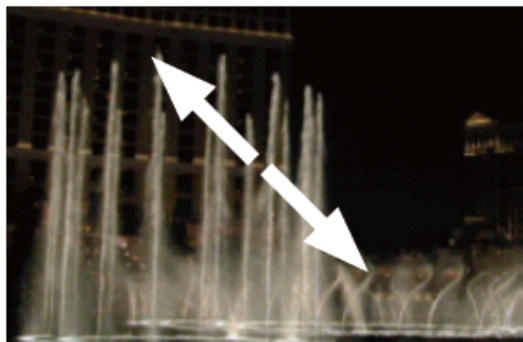
Picture Browser

Check the pictures and shooted photos in the memory card through the photo album.

1. Click media library from the main screen.
2. The phone automatically scans the supported documents in the memory card.
3. Select the needed photo album.
4. Press menu button to set.

Browse Pictures

Zoom in or out the pictures in the photo album through multi-touch function.



Picture Editor

Edit the opened pictures.

Analog TV

In [Analog TV] mode, press [Option] to carry out the following function operations:

Add to favorites: add the channel you are watching to my channels.

My favorites: play channels you have added.

Channel list: view all the channels.

Record list: the recorded videos are saved in the Record list. You may set the video as screen protection, starting up animation, Power off display. You may send the video through Bluetooth or multimedia message. You can also mark, Unmark, mark all, and cancel all the marks the selected video.

Search channel: automatically search channels and save them in channel list.

Select country/region: select a country/region you are from so as that channels can be searched by Analog TV.

Set: set Storage for video, you may save your recorded video in phone or memory card.

Adjust brightness: adjust brightness of Analog TV. Press [5] to quickly adjust brightness of Analog TV while playing the Analog TV.

Help: provide help related to Analog TV. (Analog TV receives and deal with real-time signal from each TV station's analog signal transmitter so as to make it possible for you to watch free and synchronous TV programs)

Application

E-book

E-book can support file of TXT format. You can copy TXT file to [E-book] folder on the T-FLASH card by PC. In standby mode, enter the function menu, then select **[E-book]**.

Randomly select a book in the bookshelf to read; slide to turn pages.



Instruction:

Please delete the unnecessary files when you read the E-book with the hint that there is no enough space. Make sure there is over 500KB free space in your mobile phone.

Alarm

Enter into the function list, then select **Alarm**.

New Alarm

1. Turn on switch of the needed alarm clock.
2. Set the parameters of the alarm clock as needed.
3. Select Save.

Close the switch of the alarm clock to cancel the alarm clock.

Calendar

Enter into the function list, then select **Calendar**.

Add new schedule

1. Select **Menu** → *Add new schedule*
2. Write the schedule details.
3. Select Store.

View schedules

1. Select the date on the calendar, and check the events on special date.
2. Select [All agenda], and check all the records.

Answer Machine

The answering machine can set the starting answer function, and can be **used to save the messages**.

For messages, users can perform the following:

Call: Make voice call for the message number of the focus, redial of visual telephone or IP telephone.

Reply: Reply short messages and MMS for the message number of the focus.

Delete: Delete the selected answer messages.

Send: Send the selected answer messages in the form of bluetooth and MMS.

Press **Menu** button to open the option menu:

Mark: Mark the selected records.

Settings: Carry out relatively settings for the answer messages.

Help: Check the help documents.

Calculator

1. Select **Calculator** under function menu mode.
2. Use the buttons matched with the calculator to carry out basic arithmetic operation.

Recorder

Enter into the function menu to select the **Recorder**.

1. Press **Record** button on the interface to record.
2. Press **Pause** button to pause the record.
3. Press **Stop** button to stop the record.
4. After stopping record, the recording documents will be automatically saved in the “**Audio**” file in the memory card, click **Folder** to check.

World time

Understand how to check the time of other areas and set the displayed world time on the screen.

In the standby mode, enter the function list and select **World time**.

Press Menu button to carry out the following settings:

Set local: Set the selected location and time to local.

Set illocal: Set the selected location and time to illocal.

Set daylight saving time: (The definition has been canceled in the national policies.)

Countdown timer

Enter the function list and select **Countdown timer**.

1. Select **Countdown timer**
2. Set the time span of the Countdown timer.
3. Select **Start** button to start the timer.
4. Press **Exit** to close the warning tone when the timer stops.

Stopwatch

1. Select **Stopwatch**.
2. Select **Start** to activate the stopwatch.
3. Select **Meter** to record time.

4. Select **Stop** after completion.
5. Select **Reset** to clear the recorded time.

Location

Enter the function list and select **Location**.

Enter into function menu, select **Location**, and check the area codes of various large cities.

Click province or municipality to query the local area codes including the lower level cities.

Press Menu button to select **Query**, input the needed name or area code on the interface, click **“Confirm”** to query.

STK

Enter the function list and select [STK]

Entering the STK sub-menu, you can use the value added service offered by network operator.

This mobile supports STK function but this service is offered by network operator. If your SIM card and network operator don't support this service then you cannot use it. Please contact your network operator for more information.

Unit Conversion

Weight: You can choose **“kg—ounce”** or **“kg—pound”** for unit conversion.

Length: You can choose **“km—mile”**, **“meter—yard”**, **“meter—feet”** or **“cm—feet”** for unit conversion.

Local Search

Contacts: Enter related character string to find out all the contact persons whose name contains the character string.

File: Enter related character string to find out all the files which contain the character string

Message: Enter related character string to find out all the message which contains the character string

Call logs: Enter related character string to find out all the Contactss which contain the character string.

Memo

1. Enter function list, select **Memo**.
2. Select Creat New Memo.
3. Input the text, then select Finished.

Magic sound

1. Enter into function list, select **Magic sound**.
2. Activate the Magic sound.
3. Enter into Magic sound settings. You can customize the tone colours, roles, sound effects, equalizers and background musics.

Weather

Check weather information through the weather procedure.

Check Weather

1. Click Weather from the main screen.
2. Click to manually refresh weather data, press menu button → settings, and then click the auto update to start or cancel automatically downloading data.
3. Click + newly cities. Slide upward or downward on the screen to check weather of other cities.

Bluetooth

Start Bluetooth Wireless Function

1. Enter into the function menu, and select **Bluetooth**.
2. Click the switch button to start the bluetooth wireless function.
3. If allowing other devices to position your telephone, please the swith button behind **Visibility**.

Search Other Started Bluetooth Devices and Pair

1. Select **Paired Device** → **Add New Device**.
2. Select devices from the list.
3. Input PIN code of the bluetooth wireless function or other devices (if exist), and then select Having Finished.

When the owner of other device inputs the same PIN code or accept the connection, the pair is completed.

Send Dtata by Bluetooth Wireless Function

1. Select the expected documents or items from the applications in the mobile phone.
2. Select to send through bluetooth.

Receive Data by Bluetooth Wireless Function

1. Input PIN code of the bluetooth wireless function, and then select Having Finished (if necessary).
2. Select Yes to confirm to receive the data of the device (if necessary).

JAVA

Java function can offer you powerful mobile entertainment function and you can install any favorite program to your mobile phone. Click the Java program existed and run it.

Java Application

Press Java application for along time, and open the option menu:

Delete: Delete the selected Java application procedure.

Application details: Check the applied details.

Update: Update information local or network according to Java.

Connection settings: Set connection parameters.

Permission settings: Set the permission parameters.

Java Application List

Press Menu button to open the option menu:

Local installation: For install Java installation procedures in the mobile phone or memory card.

Download: For downloading games, e-book and others and carry out relevant settings.

Game download: Log in relevant game webs to download game procedures.

E-book download: Log in relevant e-book webs to download e-book.

Others download: Log in relevant webs to download what you want.

Download settings: Carry out relevant settings for game, e-book and other downloads.

Resume Java system: Resume Java system to default.

Settings

Phone Settings

The items include:

Time and Date: You can customize time and date as well as their formats

Language: You can customize the display language and writing language.

Input method settings: include: Chinese fuzzy tone, Handwriting speed, Font weight, Font color, keyboard size settings.

Touch Screen Calibration, If the phone fails to respond to the screen options, you have to carry out touch screen calibration and click somewhere on the screen correctly according to the phone prompts.



Instruction:

During the touch screen calibration, if you fail to click on the intersection point on the screen correctly, you have to click on it at least twice continuously, to ensure the calibration accuracy.

Automatic Power On/Off: Set time and repeat ways of the automatically power on/off.

Power Management, Display the battery power.

Orientation Sensor: Due to the gravity, the phone screen can rotate automatically at 90 degrees, 180 degrees and 270 degrees.

Restore Factory Settings: Restore factory settings

Phone profile

The preset modes are General mode, Mute mode, Conference mode, Indoor mode, Outdoor mode, Headset mode, Bluetooth mode. It support custom profiles, define at most 5 profiles, and users can set the parameters of the profiles.

Instruction: The preset profiles do not support delete, while the custom profiles support delete.

Connection Management

The items are :

Internet account: Manage internet account, and support editor and delete.

Data connection settings: Select to connect as needed or all the time.

Network selection: Select to automatically or manually connect.

Display Settings:

The settings items:

Motion Effects: including Screen special effects, Screen orientation switch special effects, Power on display, Power off display.

Wallpaper Settings:Supported wallpapers: Static wallpapers, dynamic wallpapers, more pictures and

video wallpapers.

Screen Savers Settings: set the screen savers.

Backlight: adjust the screen backlight.

Button Backlight: adjust the backlight time.

Font Settings: set the font.

Security settings

Including:

PIN code: Start and close of PIN code and the modification of PIN.



Warning

Please use this function cautiously. If you forget the PUK code, please get it from the service provider. Ten consecutive incorrect PUK code entries will make the SIM card card unserviceable.

Modify PIN2 code: Modification of PIN2 code.



Warning:

Be cautious to use this function, if wrong PUK2 code is entered for 10 times, SIM card can not be used.

Phone Lock: Open or close the phone lock.

Change Phone Password: change the phone password.

Privacy Protection: set the privacy protection

Automatic lock: Set time of the automatic lock.

Lock password: Start or clode the lock password.

MSD

MSD is also called Mobile phone dog. Its main function is to collect information like the current CELL ID to a pre-determined phone when your phone is used by others illegally, and prevent others using the phone after a limited period or a certain number of power-on. The default MSD is off. You need to change the password before activating it. After that, password is required to activate or cancel the function as well as change the password. The password must be 6 digits long. To activate the function, you have to input a pre-determined phone number (to receive the informing message when the phone is stolen) besides the password. After the function is activated, the phone will memorize IMSI number of this card. Because the number is the only one, when another SIM card card is inserted, a prompt box will appear after power-on and you need to input MSD password. Three incorrect enteries or choosing exit will be considered as illegal use, and then an illegal use prompt is given. At this time, information like CELL ID (refers to: cell indentity), LAC (refers to: Location Area Code, used to indentify different locations), MCC ("460" stands for China), MNC and MCN will be read and short messages will be sent to the pre-determined phone number. The legal user could report a case to the Public Security Organs where the illegal use of the phone can be checked according to the information through the internet service provider (including the phone location, call log and so on).

If the short messages fail to send or are being sent, they will be sent in the next minute until they are sent successfully. Keeping in standby mode for 24 hours or powering the phone on again, the phone will send a short message again to the pre-determined phone number. When the number of the successful short messages comes to a certain amount (15 times), none illegal used SIM card can be used on the phone. The phone will power off automatically.



Note:

Please report a case to the Public Security Organs when the phone is stolen. But they do not ensure to find the stolen phone. Therefore, please take good care of your personal belongings.

If the phone considers the card is illegally used, Unauthorized to use will appear if someone wants to activate the MSD, namely the corresponding functions under the MSD menu can not be used. If other cards are used to power on the phone and the password is correct, the number of the messages will be counted from 0, and the prompt Bind the card or not will appear. Choose Bind the card, the phone will update the IMSI card information, regarding the card as the appointed card of the phone.

Start: Firstly set the password to start this function, input the guardlock password and notify the mobile phone when starting (Receive illegally using SIM card of this mobile phone and send the information about the illegal SIM card), the settings is completed, and the guardlock function can be started.

Cancel: To cancel the MSD. You have to input MSD password when canceling the function.

Change password: Change the MSD password.



Warning:

Please use this function cautiously. You can not use the phone if you forget the password.

Fixed Dialling: Start and close of the fixed dialling, and management of the fixed dialling list.

Blacklist: Settings of the blacklist and management of the list.

Call settings

Including:

Dual SIM settings: including Standby mode, Reply by original SIM, Set SIM name.

Call Divert:

✧ **Divert all voice calls:** After the function is activated, you can divert all incoming calls to Voicemail or the pre-determined phone numbers. Choose [Check Status] to view the current status of the Divert all voice calls service.

✧ **Divert when busy:** After the function is activated, you can divert the incoming calls to Voicemail or the pre-determined phone numbers if you are on a call

✧ **Divert when not answered:** After the function is activated, if the call is not answered within the pre-determined time, you can divert the incoming calls to Voicemail or the pre-determined phone numbers.

✧ **Divert when phone off or no coverage:** After the function is activated, if you are unavailable because there is no coverage or the phone is powered off, you can divert the incoming calls to Voicemail or the pre-determined phone numbers.

✧ **Cancel all diverts:** Cancel all the call diverts.

**Note:**

You have to turn off “Flight mode” before setting “Call divert”.

Call Waiting:

✧ **Activate:** After the function is activated, the network will inform you of the new incoming calls when you are on a call. You can hold on the current call and answer another call.

✧ **Cancel:** Cancel the Call waiting service, and the incoming calls will not be informed when you are on a call.

✧ **Check status:** You can check and view the current status of the Call waiting service.

Call Barring:

✧ **Outgoing calls:** All outgoing calls are limited

✧ **Incoming calls:** All incoming calls are limited

✧ **Incoming calls when roaming:** All calls can not be answered when roaming

✧ **International calls:** International calls are limited

✧ **International calls when abroad:** International calls are limited when you are abroad

✧ **Cancel all call barrings:** All call barrings are cancelled

✧ **Edit barringpassword:** Barringpassword can be edited

**Note:**

Some internet service providers may limit the use of this function. For details, please contact your internet service provider.

When you are applying this service, your internet service provider will offer you the original network password.

Line Options: You can choose Line 1 or Line 2.

Hide My Caller ID: Set the display mode of the phone number.

Others: the settings item include IP Push-To-Talk, Voice calls minute beep, Automatic redial, Vibration for outgoing calls, Message after rejecting, Voice broadcast for incoming calls.

File Management

File manager can manages the files in the memory card.

Copy Files

1. For copying the files, press to pop up the menu, and enter into the copy mode.
2. Select the target folder, click the confirm icon on the right or click “select the contents” in the folder.
3. Click “Mark” to copy multiple files.

New Folders

1. Open the file manager.
2. Press Menu button → New Folder.
3. Input folder name and click to save.

Additional Function

U Disk Function

U disk is used as follows:

Before using U disk, please confirm your computer is Windows 2000 or Windows XP system.

Link mobile phone to computer with the USB data line provided to the mobile phone.

The mobile phone is linked to computer, select [U disk] at the end of mobile phone. After the computer successfully identify U disk, a green USB equipment small sign will appear on the status bar at the right corner below.

Open “My computer”, now see “Removable disc”, operate U disk.

The multi-media files browsed by mobile phone must be saved under designated content before it can be identified, or it can be read or broadcast through mobile phone under other contents. For example, photo file is readable only under the content of “Photos”.

Note:

1. When the mobile phone is in the status U disk is being used, you can see some default files. Once deleted, the default files in U disk will be lost forever.
2. After U disk is used, remove U disk from computer first and receive a sign from system before taking U disk safely, or the data of U disk may be lost or file system of U disk is damaged.
3. Support USB1.1.

PC Camera

The mobile phone can be used as PC camera, through this function, you can have a video communication with friends to enrich your life.

PC Camera: link USB line then it can be used as PC Camera.

Note:

1. Current drive of PC Camera supports only Windows2000/ Windows xp.
2. Before using function of PC Camera, install drive in advance

PC Camera

The mobile phone can be used as PC camera, through this function, you can have a video communication with friends to enrich your life.

PC Camera: link USB line then it can be used as PC Camera.

**Note:**

1. Current drive of PC Camera supports only Windows2000/ Windows xp.
2. Before using function of PC Camera, install drive in advance

Warning

SAR tests are conducted using standard operating positions accepted by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands, although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value, in general, the closer you are to a wireless base station antenna, the lower the power output.

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

For body worn operation, this mobile phone has been tested and meets the FCC RF exposure guidelines when used with an accessory designated for this product or when used with an accessory that contains no metal and that positions the handset a minimum of 5 mm from the body.

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

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



Note:

1. If a better effect and performance haven't come out, please install DirectX9 or above versions on your system.
2. In the course of installing drive, maybe your system needs installing disk.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

Maintenance of Mobile Phone

Mobile phone is a high-precision electronic product, so please take good care of it. The following suggestions can help you preserve it and lengthen its useful life:

- Put mobile phone and its accessories to the place where children are out of reach.
- Keep mobile phone dry. Rain, moisture or water may erode circuit *board*. If mobile phone falls into water carelessly, take battery out in time and send it to local authorized service center immediately.
- Please do not put mobile phone at dust-covered place or its normal usage will be affected.
- Liquid crystal display is an easily vulnerable part of mobile phone, try to prevent it from falling down or violently shaken; it is forbidden to use sharp item to touch the screen.
- Please do not put mobile phone on the place where temperature is too high. High temperature will shorten the life of electric equipment, damage the battery, deform or melt its plastic cover.
- Please do not put mobile phone on the place where temperature is too low, or moisture will come out when its temperature increases to normal temperature, it will damage the circuit board of mobile phone.
- Please do not throw, knock or forcefully shake mobile phone to avoid its inner circuit board and precise structure are damaged.
- Please do not clean mobile or with chemical agent, cleaning solvent or powerful detergent, instead, clean it lightly with soft cloth with soap water.
- Please do not draw mobile phone with painting material to prevent its removable parts from being stuck, which will affect its normal operation.
- Please use cleaning soft cloth to clean lens, such as camera's lens.
- When antenna is replaced, use only supporting or designated antenna. Using unauthorized antenna, accessories or reshaping mobile phone may damage it or violated relevant wireless electric equipments.

Troubleshooting for Simple Troubles

In the course of using mobile phone, if abnormal condition comes out, please refer to following instruction to rule out malfunctions. If it can't work, please contact designated maintenance center.

Mobile phone can't be turned on

Possible causes of trouble	Troubleshooting
The time pressing end key is too short.	Please keep pressing hanging mobile phone for more than three seconds.
Electricity of battery is exhausted.	Please charge the battery.
Battery is misinstalled.	Please install battery correctly.
Mobile phone can't be turned on because of illegal usage.	Please input correct anti-robbery password.

Mobile phone turns off automatically

Possible causes of trouble	Troubleshooting
If the function of turning off mobile phone at set time is on	If you don't need the function of turning off mobile phone at set time, please cancel it.
The electricity of battery isn't sufficient.	Please charge the battery.
The battery is loose.	Please install battery correctly according to installation method of battery on the instruction book.
Mobile phone is turned off automatically because of illegal usage.	Please input correct anti-robbery password.

PIN/PUK code lock

Possible causes of trouble	Troubleshooting
Wrong PIN number (Personal Identification Number) / PUK number (Personal Unlock Key number) is imputed.	Please input correct password.

 **Note:**

1. If PIN number is inputted wrong for 3 times successively, many functions of SIM card and mobile phone are locked, please read details in “ safety settings” in P59.
2. Correct PIN number and PUK number can’t be guaranteed, please contact operator or retailer.

Poor quality of conversation

Possible causes of trouble	Troubleshooting
Current signal strength changes sharply.	Maybe you are in a status of moving at high speed (in a train or motor, ect.), judge by signal strength indicator and choose a place with strong signal strength to communicate in order to assure conversation quality.
You are in the location where signal is badly received	Please go to the open place

Inability to answer mobile phone

Possible causes of trouble	Troubleshooting
Call forwarding is set.	Please cancel call forwarding according to your demand.
Call barred is set.	Please cancel relevant barred function of Call barred according to your demand.

Inability to dial mobile phone

Possible causes of trouble	Troubleshooting
Mobile phone is power off.	Please turn on your mobile phone.
Mobile phone is out of network service area	Please confirm network is in normal service status.
Proper SIM card isn’t correctly inserted.	Please confirm if your SIM card can be normally used.
Call barred is set.	Please cancel relevant barred function of Call barred according to your demand.
Keyboard is locked automatically.	Please select left soft key+# key, unlock keyboard

Low conversation volume

Possible causes of trouble	Troubleshooting
The conversation volume is set too low.	Please increase conversation volume.

The counterpart can't hear you

Possible causes of trouble	Troubleshooting
Your microphone is too far away from voice.	Put the microphone close to your mouth.

No ringtone for incoming call

Possible causes of trouble	Troubleshooting
The alerting signal of incoming call is set in mute mode.	Please reset alerting signal of incoming call in ringtone
The volume of ringtone is set too low.	Please increase volume.
Call forwarding is set.	Please cancel Call divert

Battery can't be charged

Possible causes of trouble	Troubleshooting
The battery is exhausted and placed for too long.	Please charge battery in time after mobile phone signalizes insufficient power.
Battery is in bad contact with mobile phone.	Please make sure battery is correctly placed.
Charger is in bad contact with mobile phone.	Please link well charger and port of mobile phone, now the screen displays charging indicator
Battery or charger is damaged.	Please contact maintenance station designated by the company
The surrounding temperature is too low or too high.	Please charge mobile phone under normal temperature.

No network displayed

Possible causes of trouble	Troubleshooting
SIM card is wrongly placed.	Please place SIM card correctly according to its installation method on the instruction book.
There are impurities between SIM card and contacts of mobile phone.	Please keep clean between SIM card and the contacts of mobile phone.
SIM card is ineffective.	Please check if SIM card is expired.
Network environment is in weak <i>field</i> strength area.	Please move to the place with good signal strength of network for using mobile phone.

Memory card can't be found in mobile phone

Possible causes of trouble	Troubleshooting
Memory card is wrongly inserted.	Please use memory card correctly according to its inserting method on instruction book.
Memory card is damaged.	Please change memory card.

Insufficient space

Possible causes of trouble	Troubleshooting
MMS or SMS have occupied too much storing space.	Please Clear unnecessary MMS or SMS to free up space.
History recording saved in browser has occupied too much storing space.	Please select Communication → Browser → WAP settings → Browser settings → Clear cache] to free up space.

Menu options what PC Camera of mobile phone can't realize

Possible causes of error	Troubleshooting
After mobile phone is linked to computer, no menu of "PC Camera" is displayed on mobile phone.	<ol style="list-style-type: none"> 1. Please check if USB port of computer is complete. 2. Please check if you have correctly used linking line provided by retailer.

Safety Information

Usage Environment

To assure you use mobile phone reasonably and avoid its affect on you and environment, please keep in mind relevant regulations and provisions which shall be complied with at any place when you use mobile phone.

In the places which may give rise to bomb such as gas station, fuel reservoir, chemical factory, or bombing work, please turn off your mobile phone and abide by all safety marks and instruction there. Any violation against relevant regulations may give rise to bomb and cause casualty.

Using mobile phone in plane may disturb plane's operation and give rise to danger. Therefore, please do turn off your mobile phone before boarding and make sure it is power off in the whole course of flight.

When your drive, please place mobile phone on a special stand, do not place it on seat or any place where it may slide when it comes to collision or sudden braking. In the course of driving, please do not use mobile phone to assure a safe drive and avoid traffic accident. If you must use mobile phone, please stop first before using it.

Please keep your mobile phone away from high-temperature environment to avoid bomb rising from increased temperature of battery.

Medical Equipments

It is expressly stipulated in writing that you shall turn off mobile phone nearby electric medical equipments (like cardiac pacer maker and hearing aids). Most medical equipments have function of blocking radio-frequency signal given off by mobile phone, but some electronic equipment don't. if you have any doubt or uncertainty about if medical equipment have function of blocking radio-frequency signal, please consult doctors or manufacturer of medial equipments.

Pace Maker

Manufacturer of pace maker suggests you keep a distance of about 6 foot (15.3 cm) at least between your mobile phone and pace maker, in order to prevent mobile phone from causing disturbance to pace maker.

Staff wearing pace maker:

When your mobile phone is power on, make sure the distance between your mobile phone and pace maker is about 6 foot (15.3 cm) at least.

Please do not put mobile phone into the pocket in front of chest.

Please receive the call with the ear at the side different from pace maker.



Note:

If you suspect any disturbance, please turn off mobile at once and consult medical staff in time.

Hearing Aids

Mobile phone may disturb some hearing aids, if disturbance is made, please contact manufacturer of hearing aids at once.

Emergency Call

The same as other mobile phones, this kind of mobile phone uses radio signal, wireless and ground communication network and personal setting function, it can't guarantee it can get linked successfully under any situations. Please don't rely on only mobile phone for sending important communication (such as medical emergency)

Dial emergency call

If your mobile phone is power off, please turn it on and check if network signal is strong enough.

- Input correct local emergency number (like 120 emergency center), the number differs from one district to another.
- Please call by pressing talking key.



Note:

In case of emergency call, please try to provide all important information. The mobile phone may be at the accident site. It is the only conversation tool, please do not end conversation without approval.

Password Access

The mobile phone and SIM card can be protected by password to prevent them from illegal usage.

Power-on Password

To prevent your mobile phone from being used by others without your approval, you can set password when you use the function for the first time. After you use mobile phone, please change power-on password as soon as possible and keep it secret.

PIN Code

It is personal identification number to protect SIM card from being used by others without your approval. Usually PIN code and SIM card are provided together. When you use using power-on PIN code, every time when you turn on mobile phone, you have to input password before starting the normal phone function.



Note:

If PIN code is inputted wrong for three times successively, SIM card will be locked. You need to input PUK code to unlock it. (If no PUK code is available, please contact your network operator or SIM card retailer asking for PUK code. Please don't input any character.)

PIN2 Code

PIN2 is password to realize special function of SIM card. If the network operation company provides this number to you, it is to be inputted for getting access to some functions (such as unit of account, fixed dial numbers, etc.). Usually PIN2 number and SIM card are provided together. If you input PIN2 code wrong three times successively, PIN2 code will be locked. You need to input PIN2 code to unlock it.

PUK Code

Unlock Key PIN code. Usually PUK code and SIM card are provided together. If you don't have, please contact

your network operator or SIM card retailer. If you input wrong PUK code for ten times successively, SIM card can't be used any more. Then please apply to your network operator for a new card. Do not change PUK code.

PUK2 Code

Unlock PIN2 code. Usually PUK2 code and SIM card are provided together, PUK2 code can alter locked PIN2code. If PUK2 number is imputed wrong for ten times successively, some functions can't be used any more. Then please apply to your network operator for a new card. Do not change PUK2 code. If it is lost, please contact service provider.

Attentions on Charging of Battery

This kind of mobile phone provides energy by lithium ion battery, system environment, mobile phone settings and others will affect waiting and conversation time of mobile phone.

Please use the standard battery and charger provided by the company, or the company isn't responsible for damage caused by battery or charger unauthorized by the company.

When the mobile phone is power on, the *batty* starts to roll on the battery indicator on the screen.



Note:

1. If the battery doesn't have power at all, the battery indicator will show up after it is charged for 2 to 3 minutes. Generally according to current status of mobile phone (if it is power on, with conversation, etc), the charging time is 2 to 5 hours.
2. To make new battery reach perfect performance, please finish two to three charging and discharging cycles. A new battery shall be charged continuously for above 10 hours for the first time.

In the course of charging mobile phone, please do not contact its battery or charger with wet hand in order to avoid danger.

When mobile phone is charged, please do not to use it as possible as you can.

After the battery is charged full, the electricity indicator stops rolling, then take mobile phone out from the port of its adaptor.

Attentions on Use of Battery

The usage of battery is determined by network, settings of mobile phone, usage of mobile phone, take lithium ion battery with capacity of 1200 MA, for example, its conversation time is about 6 to 8 hours and standby time is 150 to 240 hours.

Please do not use damaged charged battery.

When mobile phone is used nearby network base, battery consumes little electricity. Therefore, conversation and standby time, to great extent, are affected by signal strength of cellular network and parameter set by network operator.

Time of charging battery depends on residual capacity, type of battery and electronic equipment type. When usage time of battery is obviously shortened, you have better change battery to guarantee the performance of mobile phone.

Please use standard battery and charger provided by Amoi Company, or it may give rise to bomb. When you don't need charger, please cut off electricity source. Do not keep battery linked with charger for over one week, overcharge will shorten useful life of battery.

Please do not place battery by mistaking its *cathode* and anode.

Please do not place battery at place where it is too high or too low, or it will decrease battery's capacity and life. Please use battery at domestic temperature as possible as you can.

Do not make battery short-circuit, or it will damage battery core or protective circuit inside battery. When you put unused battery in pocket or bag, medal items (coin, pin or pen, etc.) may link two ends of battery immediately and make battery short-circuit, so please place battery singly and safety.

Please do not burn battery of mobile phone or do with it as common rubbish. To avoid potential life hazards and harm to environment, please comply with environment-friendly policy stipulated by local government, treat and recycle battery in time.

If your mobile phone, battery or other charging equipment fall into water carelessly, please do not dry it in any heating equipment (such as drier, microwaver) . Mobile phone or other products may give rise to malfunction, and mobile phone, battery or other charger may burn, expand bomb.

Please do with abandoned used battery according to relevant stipulation.

Amoi Company isn't responsible for any direct or indirect loss caused by above-mentioned wrong operation.

Attention on Use of Accessories

Please put all accessories (such as SIM card, memory card, battery) in the place where children are out of reach, to avoid danger.

Before taking out battery of mobile phone, please make sure mobile phone is power off and cut off linkage between mobile phone and charger.

Accessories of mobile phone don't have waterproof performance, please keep all accessories dry.

When cutting off electricity from any accessory, take out plug correctly, do not draw power cable.

If mobile phone, battery and charger don't function normally, please contact the nearest and qualifying maintenance department.

Other Safety Information

When mobile phone is not used, you'd better turn off mobile phone and take out battery in order to save energy and eliminate radiation of mobile phone.

When mobile phone is used, please do not adjust its volume too high or it will do harm to hearing

Non-professional shall not take out terminal and battery of mobile phone by himself or herself.

You'd better not use leather case with magnetic button as possible as you can to avoid magnet what may cause disturbance to signal of powering on or off the mobile phone, and its hard iron button may damage fluid crystal display; plastic case may cause unsmooth evaporation to steam, eroding components inside mobile phone and oxidizing and discoloring its cover.