



user's
guide

M81

WARNING

· This product is designed to comply with IPX4 water proof. Due to many using factors, like USB plug in or not and battery fitting, we are not responsible for any water damage..

· Do not use the cell phone during the thunderstorm days outdoor ,We will not take this responsibility of this usage.

· Torchlight and laser radiation beam are potential harmful. Direct eyes contact with those may cause eye injury and therefor should be avoided. These functions can be used even cell phone is auto power off due to low battery. Please charge your phone when cell phone powers off.

· The accuracy of the sensors are related with the operation ways. We are not responsible for the various of measurement result.

· Altimeter is converted from barometer. Air pressure fluctuates according to the weather, so we would advise you to adjust at each significant change in weather or altitude or on first using this function. Calibrating air pressure sensor will reduce the errors of calculation.

· Compass need to be calibrated everytime when you remove the battery.

The description of mobile phone users and mobile phone user interface there may be variant depending on your phone's software version or a specific carrier services.

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Safety and General Information

Brief Introduction

M81 is your ideal product for outdoor activities.

On its back lit LCD screen, the M81 displays direction, altitude / barometric pressure and temperature readouts. The compass, barometric pressure, and altitude functions of the product are assigned to a single button with easy switching. The highly sensitive altitude sensor responds even when you move the product up and down.

The separate torch light and laser pointer buttons are standby at your fingertips whenever you need it.

A GSM mobile phone function is integrated in this tool. It can work separately by switching the GSM function on and off independently of the outdoor functions.

Furthermore, it is designed waterproof and dustproof. If you happen to drop the product in the water or mud then simply wipe it. With 3.5 mm wall thickness and a magnesium frame inside, it is tough enough to throw it on any hard surface.

The M81 anti-slip rubber holding surface keeps it in your hand all the time wherever you are, even in the heaviest wind or rain.

General Precautions

Mobile Phone

·Please use the phone at a temperature of -20°C ~ 60°C and a relative humidity of 35%~85%.

·Avoid using the phone near regular telephone, television, radio and automatic office equipment, as they may interfere with one another.

·Please keep the removable SIM card out of reach of children as there is a risk they could swallow it.

Battery

·Please put the battery in a cool and well-ventilated place away from direct sunlight.

·Batteries have life cycles. If the time that the battery power becomes much shorter than usual, the battery life is going to an end. Replace the battery with a new battery of the same type.

·Do not discard battery with household trash. Please dispose of used battery according to your local environmental laws and guidelines.

Charger

·Do not charge the phone in the below environment:

·Under direct sunlight;

·Temperature out of range: -10°C to 45°C ;

·Humid, dusty or severely shaking environment (could cause a malfunction);

·Near appliances such as television, radio (could affect the image, audio effect).

Phone Precautions

·Switch off your phone in aircraft, hospital or any facility where posted notices instruct you to do so. Wireless phone can cause interference to electronic instruments and medical equipment, please follow the regulations while using your phone in those areas. Our phone with automatically power on function, check your power settings and make sure your mobile phone will not automatically switch on when on board of an aircraft. Turn off your phone whenever on board of an aircraft, so as not to interfere with electronic system and result in aircraft accidents.

·To avoid electromagnetic interference and compatibility conflicts, turn off your mobile phone in any facility where posted notices instruct you to do so. Hospitals or health care facilities may be using equipment that is sensitive to external RF energy. Especially when near the below devices: hearing aid, pacemaker and other medical devices, fire detector, automatic door and other automatic control devices. In the event of mobile phone interfering with pacemaker and other medical electronic devices, consult the manufacturer of the device or local salesman. Mobile phone may interfere with appliances like television, radio, or PC

·Do not hit the LCD display with extreme force or use it to hit other things. Doing so may break the glass and cause the LCD liquid to leak. If the liquid enters into eyes, it may blind you. In such case, rinse with a large quantity of water immediately (do not rub your eyes) and consult a doctor.

·Do not disassemble or remodel your phone. Doing so may damage your phone or result in the leakage of electricity and circuit fault.

·In a very few cases, the use of mobile phone may interfere with the electronic equipment in some cars. In such case, for safety, do not use mobile phone.

·Do not press keys with sharp things like needle or pen head. Doing so may cause damage to your phone or operation mistakes.

·Do not use the mobile phone if it has a damaged antenna, as it may cause injury to persons.

·Turn your phone off and do not remove its battery or charge the battery when in an area with a potentially explosive atmosphere. Using cellphone in such areas could cause an explosion or fire resulting in property damage, bodily injury or even death. For example: switch off the phone before entering gas station. Do not use the phone near the gas station or near fuels or chemicals.

·Keep your phone away from moisture. If water or other liquids get into phone, it will cause phone overheating, leakage of electricity and malfunction.

Battery Safety Precautions

Battery Precautions

·Do not throw a battery into a fire. A battery may rupture or burn violently when thrown into a fire. Please dispose of the used battery according to your local environmental laws.

·When installing battery, do not forcibly put pressure on the battery, or it may result in overheating, leaking, rupturing or fire.

·Do not short-circuit the positive (+) and negative (-) terminals. If the positive and negative terminals come into contact with each other or are shorted with wire or other metallic objects, an instantaneous high current will flow, possibly damaging the battery structure due to the generated heat, with the possible result of overheating, leaking, rupturing or fire.

·Do not exceed the voltage limitations. And only use the approved equipment.

·Do not directly solder anything onto the battery terminals. Direct soldering onto the battery terminals can cause heat generation, leaking, rupturing or fire.

·If the electrolyte inside the battery gets into your eyes, it may blind you. In such case, do not rub your eyes but rinse with a large quantity of water immediately and consult a doctor.

·For safety, do not put the battery into your mouth or use the damaged battery.

Do not attempt to disassemble or modify a battery. Doing so may result in leaking, overheating, rupture or fire.

·Do not use or put battery near high temperature places like fire or heat-generating parts, or it may cause leaking, overheating, rupture or fire.

·Stop using the battery if abnormal heat, odor, discoloration, deformation, or abnormal conditions are detected during use, charge, or storage.

·Keep your skin or clothes away from the leaked electrolyte. If this happens, rinse with a large quantity of water immediately and consult a doctor. If the battery leaks electrolyte or emits a strange odor, immediately remove it from open flame to avoid fire and rupture.

·Keep battery from moisture, as it may cause the battery to overheat, smoke and corrode.

·Do not place or store the battery in an automobile in hot weather, under direct sunlight. Use or storage of the battery in these places may cause battery leakage and overheating, and possibly lower the performance and shorten the battery's life.

·Only use the approved batteries and fittings. Do not connect to unspecified devices. Cause of explosion if lithium battery is replaced by an incorrect type, dispose of battery according to the instruction

·Do not continuously charge the battery for more than 24 hours, as battery may be damaged by overcharging.

Battery Capability

·Calling, backlight on and playing game drain your battery much quicker. Long talk-time decreases the duration of the standby time.

·Idle time becomes shorter if the phone is out of coverage.

·Battery capability varies along with charging level, temperature, signal strength, and backlight.

Charger Precautions

·Use charger to charge battery quickly. Before charging, make sure the battery has been inserted in the phone correctly. Do not remove the battery while charging.

·Please use the specified alternating current. Using other voltage will cause electricity leakage, fire or damage to the phone and charger.

·Charge your battery for at least 12 hours at the first time for its best performance and long cycle life.

·If the charger still plugs in the charge slot and the phone has been fully charged, the phone will check the battery state automatically, and recharge the battery once it is not at full level.

·While the mobile phone is being charged, keep it out of reach of children.

·Do not short-circuit the charger. A short-circuit may result in electric shock, smoke and damage to the charger.

·If the power cord is damaged, please do not use the charger, or it may cause fire or electric shock.

·Please clean the dust on the power outlet in time.

·Do not put container filled with water beside charger, as water may be splashed on charger, causing the charger overheating, leakage of electricity and malfunction.

·If the charger comes into contact with water or any other liquids, immediately unplug the charger from outlet to reduce the risk of overheating, fire, electric shock or charger malfunction.

·Do not disassemble or modify the charger. Doing so could result in risk of injury to persons, electric shock, fire and damage to the charger.

·Do not use charger in a high moisture environment like bathroom, or it may cause electric shock, fire and damage to the charger.

·Do not touch the charger, power cord and power outlet with wet hands as it may cause electric shock.

·Never put a heavy object on the power cord or modify the power cord. Doing so may cause electric shock or fire.

·To reduce risk of electric shock or injury, unplug the charger from the power outlet before cleaning or maintenance.

·When you disconnect the power cord of the charger, grasp and pull the plug, not the cord. Pulling the cord may cause electric shock and fire.

Terminology explanation

GSM	Global system of mobile
SMS	Short message service
SIM	Subscriber identify module card
PC	Personal computer
PIN	PIN code is a 4-8 digit personal identification number, and is used to prevent your SIM card from misuse. It is provided by your service provider. If you enter 3 times error PIN code continuously, the SIM card will be locked, then you must enter PUK code to unlock.
PIN2	PIN code is a 4-8 digit personal identification number. It is provided by your service provider. To protect the access of some advanced functions like fixed dial. If you enter 3 times error PIN2 code continuously, the SIM card will be locked, then you must enter PUK2 code to unlock.
PUK	An 8 digit key code. Used to unlock SIM cards after the wrong PIN has been entered. PUK is provided by your service provider.
PUK2	An 8 digit key code. Used to unlock SIM cards after the wrong PIN2 has been entered. PUK2 is provided by your service provider.

Specification & SAR Values

Specification

Band: GSM 900/1800 (GSM 850/1900) dual band

Dimensions: 115 mm X 53 mm X 23 mm

Weight:138g

Display parameters: 65k TFT, 2.0 inch

Phonebook Storage: 300 contacts

SMS Storage: 100 messages

Battery: Li-ion Battery 3.7V/1300mAh

Technical Performance

Cellular System	GSM900	DCS1800
Technical Performance		
Receive frequency range	925~960 MHz	1805~1880 MHz
Transmitter frequency range	880~915 MHz	1710~1785 MHz
Transmitter output Power	+5...+33dBm/3.2mW...2W	+0...+30dBm/1mW...1W
Frequency Spacing	45 MHz	95 MHz
Channels		
Channel number	174	374
Adjacent channel spacing	200KHz	200KHz
Power levels	15	16
Sensitivity	-102dBm/BER<2%	-100dBm/BER<2%
Frequency Error	<±0.1ppm	<±0.1ppm
RMS Phase Error	<5°	<5°
Peak phase Error	<20°	<20°

SAR Values: The Highest SAR Values for this model phone when tested for use were 0.373 W/Kg (10g)

Phone Appearance and Keys

Physical Impression



Top View

1. Torch light which can be used when phone is power off
2. Laser Beam
3. FM radio antenna

Front View









1. Receiver
2. 65K color, 176X220 pixels TFT display
3. Plastic housing with rubber covering
4. Charging interface
Data Transmission
Stereo Earphone
5. Volume control key
6. Navigation keys



Back View

- 1.Sensor Function Display:
Barometer, Altimeter,Thermometer
Compass
2. Metal Plates
3. Mode key Left
4. Function key Right
5. Battery Lock
6. Laser Beam Control Key
7. Torch light control key

Keys specification

Keys	Specification
	<p>Left soft key/Right soft key</p> <p>Perform the functions indicated by the text above (on the bottom line of the display).</p> <p>In idle mode, press the left soft key to access menu, and press the right soft key to access contacts menu.</p> <p>Press the right soft key to end the call.</p>
	<p>Dial key</p> <p>Answer a call. Press dial key to answer.</p> <p>In idle mode, enter phone number and press the key to make a call. Or dial a number from phonebook or call records.</p> <p>In idle mode, press the key to display all the call records.</p>
	<p>End key</p> <p>End a call or reject the coming call.</p> <p>Long press the key to power on or off the phone.</p> <p>Return the idle interface.</p>
	<p>Navigation keys</p> <p>indicates 【↑】 【↓】 【←】 【→】 four directions.</p> <p>In idle mode, press 【↑】 to access Inbox;</p> <p>In idle mode, press 【↓】 to access FM radio;</p> <p>In idle mode, press 【←】 to access Alarm Clock;</p> <p>In idle mode, press 【→】 to access Calendar;</p> <p>Enter dial number, press the middle navigation key to make an IP dial.</p> <p>In other interface, press the navigation keys to scroll through options.</p> <p>※Note: In [Settings]-[Shortcut settings] menu, you can set left, right, up, down key function menu.※</p>
	<p>Alphanumeric Keys</p> <p>When dial a number, enter corresponding number.</p> <p>In input mode, enter different characters according to input mode, like letter or number.</p> <p>In idle mode, press 2~9 digit key and Dial Key to access Abbr. dial (You need preset Speed dials via [Contacts]-[Speed dials]).</p> <p>In idle mode, press one or more keys of 1-9 and then press # key to directly access entries in phonebook. For example: press 0 and # in turn, it displays the first entry of phonebook.</p>
	<p>0 key</p> <p>When dial a number, press the key to enter 0, long press 0 key shows “+”.</p> <p>In 123 input mode, press the key to enter 0, other input modes enter space.</p>
	<p>* key</p> <p>When dial a number, press to enter “*”, press two times to enter “+”, press three times to enter “P”.</p> <p>In input mode, enter punctuation.</p>
	<p># key</p> <p>When dial number, enter “#”.</p> <p>In edit interface, press to select input mode.</p> <p>In idle mode, long press # key to lock keypad.</p> <p>In Eng text input mode, press # key to change case of the letter.</p>

Icon Explanations

Icon	Specification
	Network signal strength
	Straight stripe is more, the network signal is stronger.
	Call divert
	Activate the call divert function. Letter A or B on the icon indicates the SIM card A or SIM card B.
	Roaming
	The phone is in roaming condition. Here the "roaming" means roaming to service provider agreement of your network service provider.
	SMS
	Receive new message. Letter A or B on the icon indicates the SIM card A or SIM card B.
	Keypad lock
	The keypad is locked.
	Earphone
	The phone is inserted earphone.
	Alarm
	Set the alarm time and activate the function.
	Profiles mode
	That is "Standard".
	That is "Conference".
	That is "Outdoor".
	That is "Silence".
That is "My style".	
	Battery
	Straight stripe is more, the battery is more.

※ Note: Here roaming refers to the extending of connectivity service in a network with which your service provider has a roaming agreement. For example, suppose your service provider is "China Mobile Communications (CMCC)"; and "HongKong Telecom (HKT)" is the network with which CMCC has a roaming agreement. When you

move from CMCC coverage to HKT, then you can select HKT as your service provider. In such case, you are roaming. ※

Menu Function

In the idle mode, press the left soft key or the middle navigation key to access menu. Scroll through options by pressing the navigation keys, and press the left soft key or the middle navigation key access selected option.

Time manager — Alarm clock
Memo
Set clock
Timer

Profiles — Standard
Conference
Outdoor
Silence
My style1
My style2

Application — Time zone
Calendar
Calculator
Elec-dictionary
Tools use manual

Contacts — Browse
Create
Management
Speed dials

Copy to my phonebook
Copy to SIM phonebook
Delete all records
Delete all phone records
Delete SIM records
Customization delete
Memory status
Group

Short Message — Inbox
Create message
Outbox
Draftbox
Edit templa
Voice mail — Listen to voice mail message
Voice mailbox number
Settings
Memory status
Broadcast message — Delete all messages
Delete inbox messages
Delete all — Delete outbox messages
Delete draftbox messages

Call records — All calls
Dialed calls — Display settings
Missed calls — Time on/off
Received calls — Text input settings
Delete all — Security settings
Call duration — Language
Own number
Automatic keyguard
Set IP
Factory

Settings — Phone settings — Call waiting
Network settings — Call divert
Call settings — Call barring
Shortcut settings — Call volume
Automatic redial
Anykey answer
Select Line
Call firewall
Network selection

Multimedia — Music
FM radio
UDISK manager
Ebook

Entertainment — Games
SIM tool kit

※Note:

SIM features depend on your SIM card.

Part of secondary menu and its submenu are not listed on the above. ※

User Guide

Installing/ Removing the battery

• Installing the battery

Whirl battery screw buttons counterclockwise until cannot free wheel. With the top of battery (the terminal with pole) facing right toward the contacting points in the battery compartment, press the bottom of battery slightly until it enters into place.

Push down lightly back-end with direction arrow, and then whirl battery button rightwards.

Whirl the two buttons until cannot free wheel to lock the battery..

• Removing the battery

Long press the end key to switch the phone off;

Whirl the battery buttons leftwards until cannot free wheel.

Use your thumb to the hemicycle groove at the bottom of the phone, and use your nail to lightly lift the battery away.

Charging the battery

Your phone is powered by a rechargeable Li-ion battery. When the battery is weak, the battery sensor will inform you. At this time, you need to charge the battery. When the battery becomes too weak for the phone to operate, it switches off automatically.

Plug the charger into the charger port at the left side of the phone, and then plug the other end of the charger into the appropriate electrical outlet.

The charging indicator icon starts to flash until charging is finished.

When charging is complete, disconnect the connector from the phone and unplug the charger from electrical outlet.

* Attention:

Charging with phone on, a static battery icon appears on the display.

During charging, the phone can operate as usual. But the charging time increases. Common charging time is about 5~6 hours. It is common that there is some difference in-service use.

Charging with phone off, the display says 'Charging' with charging indicator icon flash.*

Inserting/Removing the SIM card

Inserting: Make sure that the phone is already switched off and is not charging;

Remove the battery;

Contacting points downwards. The angled corner of SIM card towards the outside and slide the card into the carrier.

Insert battery.

Removing: Make sure that the phone is already switched off:

Remove the battery;

Press down a plastic support bar which is at the nick with fog face, and with other hand push SIM outside.

Insert battery.

※ Note:

Be careful when handling, inserting or removing the SIM card, friction or bending may damage SIM card.

If left unused for a long time, keep SIM card out of reach of small children.

Keep SIM card away from static, dusty and water.

When inserting or removing SIM card, always make sure that the phone is switched off before you remove the battery. Or the SIM card memory might be damaged.

※

T-Flash card Use Guide

• Installing/Removing T-Flash card

This mobile supports the T-Flash card feature. Make sure that the T-Flash card has already inserted into mobile. T-Flash card slot locate at the bottom of the SIM card.

Installing

Power off, and remove the battery;

Make contacting points downwards. Ensure the angled corner is positioned correctly and slide the card into the carrier;

Lock it.

Removing

Power off, and remove the battery;

Make contacting points downwards. Ensure the angled corner is positioned correctly, open it and slide the card out of the carrier;

Take out T-Flash card.

• T-Flash Card Use

File operation specification

The music and video file are saved in the T-Flash card. If you need to operate with the files, the files must be saved in the card firstly. Act as following:

Connect PC port and mobile USB port with specific USB line. USB port is on the left side of the phone.

In [Multimedia]-[UDISK manager] to start T-Flash card.

Or insert initial T-Flash card into specific card reader, and then insert the reader into USB port.

Select "My computer—movable disk," can use the T-Flash function. Add or delete files in the fold on the card.

Stop the USB function on computer, and press the left soft key to select <stop>, disconnect the USB line with mobile. (*Note: Must stop the function on the computer firstly, then disconnect the line with mobile, otherwise the data will be lost*).

T-Flash card directory specification

In order to make mobile detect the file saved in T-Flash card, use the multimedia function, when you use a new card at first time, format the T-Flash card, and then create the folder with the following specification mode by computer, the mobile cannot support e-book file saved in T-Flash card.

My Music: Save the MP3 music on the folder. The length of the music file is no limit. The quantity depend on the capacity of the T-Flash card. (The folder will be established automatically when select the music, such as add playing music, set alarm clock and so on). Only save in this folder, mobile can play the music file.

• Buy T-Flash card

The mobile supports T-Flash card, the card type is Kingston and SanDisk. Note that when you buy T-Flash card, please carry with mobile, and test the T-Flash card in mobile whether the card is matching at the sales counter.

Power On or Off

Make sure the battery is already inserted:

Power On: Hold down end key until the phone-on image display. After power on, the phone searches for your network automatically. Some SIM card is protected by the PIN number, if you are asked for inputting the PIN number, please enter it, then press the left soft key.

Power Off: Hold down the end key until the power-off image display.

Call Functions

Making a Call

When you make a call, you can press the area code and phone number. If you make an international call, press and hold down 0 key until character "+" appears, and then you can dial an international number. The '+' stands for international dial code. Input the number, and press dial key to dial. If the number is stored with a name, it appears on the display when you dial the number.

Only in GSM system coverage, you can make an emergency call, even though the phone is locked, without SIM card, or cannot enroll to the system.

※Note: This phone, like any wireless phone, operates using radio signals, wireless, and landline networks as well as user programmed functions, which cannot guarantee connection in all conditions. Therefore, you should never rely solely on any wireless phone for essential communications like medical emergencies. Check with local service providers to make an emergency call.※

Quick making a call

Enter [Contacts], select Browse and find the required number;

Enter [Menu]-[Call Records], scroll the navigation keys to find the required number;

In idle mode, press dial key to display all the call records number.

Press dial key to make a call.

※Note: You can quickly search numbers from [Contacts] via the navigation keys and the alphanumeric keys. Use the navigation keys to move through pages; Use the alphanumeric keys to search by keywords. ※

Answering a Call

When somebody calls you, the phone rings or vibrates. If the caller can be identified, the caller's phone number (or name if stored in your phonebook) is displayed.

Press the dial key to answer the incoming call.

Press the end key or right soft key to end the call.

Press the left soft key to access <Option>. You can select "Mute" or "Accept" or "Reject".

※Note: To answer a call, call forwarding function can not be used in the same time※

Loudspeaker/Handset

When you are driving, you can enable the phone hands free function during a call. The voice will be heard from the speaker. During a call, press the right soft key to select "Loudsp.," then the speaker is enabled. To disable the hands free function, press the right soft key to select "Handset," then the receiver is enabled.

Call waiting

You can answer an incoming call while you have a call in progress, if this service is supported by the network and you have set the Call Waiting menu option to activate. You will be notified of an incoming call by a call waiting tone. To answer a call while you have a call in progress, proceed as follows:

Accept: Press dial key to answer the incoming call. The first call is automatically put on hold;

Reject: Press the right soft key or the end key to continue the first call, the second call is rejected.

Call Options

• Call with one party

During a call with one party, press the left soft key to access <Option>:

Mute/Unmute: Turn on/off microphone.

Hold/Unhold: If network support holds function, you can start another call when a call is speaking. Select "Hold" menu, input or select the number from the phonebook to dial a call. During the holding, press "Unhold" to resume the holding call.

Disconnect: End the call.

Contacts: Enter Contacts menu.

Short message: Enter Short message menu.

Making a Conference Call

A multiparty call is a network service that allows up to six people (require network support) to take part simultaneously in a multiparty or conference call. For more information, contact your service provider.

Sensor

Making a Conference Call:

Call the first participant in the normal way.

Call the second participant in the normal way. The first call is automatically put on hold.

To join the first participant to the multiparty call, press the left soft key to access <Option>:

Mute/Unmute: open or close the microphone.

Build conference: Join the conference.

Release all calls: End all the calls.

Contacts: enter Contacts menu.

Short message: Enter Short message menu.

To add a new person to the multiparty call, call the person in the normal way, then press the left soft key to access <Option>, and select "Build conference".

You can add incoming callers by answering the call and pressing <Option>, followed by "Build conference". Repeat as required.

During the conference, press the left soft key to select:

Separation: separate one part from multiparty calls for alone converse;

Release all calls: End all the calls.

Mute/Unmute: Open or close the microphone.

Contacts: enter Contacts menu.

Short message: Enter Short message menu.

Press the end key to end all the calls.

※Note: Multiparty Call requires network support. ※

Buttons

The module has two buttons: MODE on the left and FUNCTION on the right. And each has two operations: short press and long press.

Buttons operations

Each button with two operations: short/long press. The long press means that the button is pressed and hold for more than 2 seconds. The short press means that the button is pressed and released quickly.

Buttons functions

Mode Button

Switching Working Mode: In measurement state, scroll working mode, among TEMP, BARO, ALTI, and COM-PASS, by mode button's short pressed.

Enter/Exit Setting State: Enter/Exit setting state by the mode button's long pressed.

Switching Setting Options: In setting state, the setting option is scrolled by mode button's short pressed.

Function Button

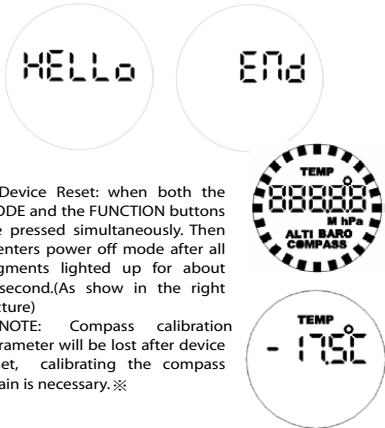
Power on/Power off: Shutdown/boot-strap system by FUNCTION button's long pressed.

Turn on back-light: In normal state, back-light can be turned on by function button's short pressed, and keeps for about 8 seconds.

Setting Parameters: Value of the current selected parameter can be changed by function button's short pressed.

Operations

Power on/Power off: Device is powered on when function button is long pressed in power off state, showing "HELLO" picture. And it is shut down by function button's long pressed in power-on state, showing "END" picture. LCD (As show in below pictures) is light up, and back-light is turn on, when the device is powered on. And then it enters TEMP mode few seconds later.



Device Reset: when both the MODE and the FUNCTION buttons are pressed simultaneously. Then it enters power off mode after all segments lighted up for about 1 second.(As show in the right picture)

※ NOTE: Compass calibration parameter will be lost after device reset, calibrating the compass again is necessary.※

TEMP MODE

Device enters TEMP mode after power on, or short press the mode button in COMPASS mode. Its display is as show in the left picture:

"TEMP" is the indicator of the TEMP mode;

"-17.5°C" is the current environment temperature;

The valid temperature is in the range of -20.0°C to 70.0°C, which can be measured by device.

BARO MODE

It's switched to the BARO mode when the MODE button is short pressed in the TEMP mode. And its display is as show in the below picture.

"BARO" is the indicator of the BARO mode;

"1013.2hPa" is value of the current air pressure, and its unit is "hPa".



The valid pressure is in the range of 300.0hPa to 1200.0hPa, which can be measured by device.



Calibrating Air Pressure Sensor: It's switched to air pressure sensor calibration state, when the MODE button is long pressed in the air pressure measurement state. Its display is as show in the above picture. The value displayed on LCD panel is the offset between the pressure measured by sensor and the real air pressure, which is used to calibrate the air pressure sensor.

For example: The value of current air pressure measured by sensor is 1013.2hPa, and the real air pressure value is 1013.1hPa, then the calibration offset can be got by subtracting 1013.2hPa from 1013.1hPa. The real air pressure value can be obtained from weather report, a certificated high-accuracy barometer, and so on. This operation can advance the pressure sensor accuracy.

Setting Calibration Offset: Short press the MODE button to scroll to next setting option; Short press the FUNCTION button to change the current setting option value, which is blinking; The range of the pressure calibration offset is -9.9hPa to 9.9hPa, that can be set by user; To save the user data with long press the MODE button, when the setting is completed. If the setting state is exit by device with none button activated in 30 seconds, the setting value will not be saved.



ALTI MODE

It's switched to ALTI mode with long press the MODE button in normal state of BARO mode. And it displays as show in the above pictures.

"ALTI" is the indicator of the ALTI mode;

"-13.4M" is the value of the altitude at which the device is;

The display range of altitude is -999.9m to 9000.0m.

Setting Air Pressure of Reference Altitude: To enter setting state of ALTI mode, with long press the MODE button in normal state of ALTI mode. It displays as show in the above picture. The value should be set to the absolute barometric pressure of the reference altitude. And the value displayed in ALTI normal state is reference altitude referring to the altitude, which is set by user in this state. When the Air Pressure of the Reference Altitude is set to be the same number like the current Baro Pressure, then the Reference Altitude will be around 0 meter.

Calibrating the Altimeter

Because this product relies on the barometric pressure to determine the elevation and the pressure at any given elevation can fluctuate, calibrate the altimeter to increase

its accuracy. You must know the elevation (From a map point or other reliable data) or the pressure (Calibrated to the sea level) for your current location.

setting options; Short press the FUNCTION button to change the value of current option, which blinks; The valid pressure is in t

Setting Step: Short press the MODE button to scroll setting options; Short press the FUNCTION button to change the value of current option, which blinks; The valid pressure is in the range of 300.0hPa to 1200.0hPa, which can be set by user. If the pressure is set out of the range, it will be changed to the valid value automatically by device, when exiting setting state and saving the value with long press the MODE button. In other words, if the pressure is set larger than 1200.0hPa, it will be set to 1200.0hPa automatically; and if the pressure is set lower than 300.0hPa, it will be set to 300.0hPa automatically.

COMPASS MODE

In measurement state of the ALTI mode, short press the MODE button to switch to COMPASS mode. It displays as show in the below picture:

"COMPASS" is the indicator of the COMPASS mode.

"180°" is the heading which device directs to. It refers to north. In other words, north is 0°; east is 90°; south is 180°; and west is 270°.



The black dot on the LCD outline directs at the north.

The valid heading is in the range of 0° to 359°, which can be displayed.

Setting Declination: The device gets the heading by geomagnetic field. And there's an error between geomagnetic north and earth north, so it should calibrate this error in headings, to get the earth north. Declination is the error between these two directions, and it's different from place to place. Fortunately, it can be obtained from many ways, such as hiking topographic maps, web pages (National Geophysical Data Center's site www.ngdc.noaa.gov/cgi-bin/seg/gmag/fldsnth1.pl), and other geographic documents. An addendum to the document gives a table, which lists the declinations of a part of the main cities or areas in china. Declination is defined as "East" if magnetic North falls to the east of true North; and "West" if magnetic North falls to the West of true North. A positive declination is "East"; and a negative declination is "West".

In COMPASS mode, long press the MODE button to enter setting declination state. It displays as show in the below picture.



For example: If it is London city, its declination is -4° , which can be got from some reference documents. Then set the declination to -4° , and save the data and return to compass measurement state by long press the MODE button. Now, the angle displayed on panel is the current bearing reference to earth north.

Another way to set declination: If earth north is known, then hold device level, and directing to north, then read the angle θ , displayed on LCD panel. If θ is in the range of 0 to 360, then set the declination to $-\theta^{\circ}$. If θ is in the range of 270 to 359, then set the declination to $360-\theta^{\circ}$. By this way, not only to calibrate the declination, but also to avoid the device offset error.

Setting Declination: Short press the MODE button to switch setting option. Short press the FUNCTION button to change the setting option, which is blinking. Declination can be set to the angle in the range of -90 degree to 90 degree.



Enter Compass Calibration: Press both the Mode key (left key of the back side) and the function key (right key of the back side) in the same time, when the screen showing numbers, release the function key first, do not release the Mode key until you see the "CALIB," show in the above

Compass Calibration: Short press the FUNCTION button to start calibration in calibration state. As showing in the below picture. Then, hold the device level, and rotate the device slowly and equally in a full clockwise or counterclockwise circle. At last, short press the FUNCTION button to exit compass calibration state. And it enters compass mode after displaying the "END" message for about 0.5 seconds.

Note: Hold the device level during the compass calibration. And make sure that there is none strong magnetism disturbance around. Because it will cause the inaccuracy of the compass, even to work incorrectly. Then it should calibrate the compass again.



Note

Temperature Measurement: A) To measure the correct air temperature, should keep the device away from the body's temperature for more than 5 minutes. B) The temperature may be incorrect, after the long conversation on the phone, because of the heat generated by phone.

Barometric Pressure Measurement: A) Don't put the sensor hole against the wind direction, otherwise the pressure sensor may work incorrectly. B) Don't block up the hole for pressure sensor, because it may cause pressure measurement slow, or error.

Altitude Measurement: A) Altitude measurement is based on ARDC model atmosphere ARDC, it's calculated with barometric pressure. So the altitude's accuracy depends on the air pressure's accuracy. B) The default barometric pressure of the reference altitude is 1013.2hPa.

Compass: A) Hold the device level during compass's working, otherwise the compass may work incorrectly. B) Keep device away from the strong electromagnetic fields, e.g. electromechanical machine, magnet, high building and so on, because they can affect the magnetic field. C) Calibrate the compass before using it for the first time. D) Calibrate the compass after replacing the battery. E) Calibrate the compass after exposed to the strong magnetic field environment. F) Don't use the loudspeaker when compass is working. G) Keep the antenna of the radio in the state like the compass calibration state.

Torch light

Short press the torch light control key, the light will be on and will be off 20 seconds automatically, but press the button again within 20 seconds, the light will be off.

※ Note: The torch light is very strong; so please do not point at people's eyes. Our company does not take any responsibility due to being improper use ※

Laser

Press the Laser Beam control key, the light will be on. Note: The Laser is very strong; so please do not point at people's eyes. Our company does not take any responsibility due to being improper use.

Time manager

Alarm clock

Use this function to set alarms to ring at a specific time. The alarm sounds even when the phone is switched off.

Set alarm

Press <Select> to access this menu, you can set 3 alarms. Press the navigation keys to select one alarm and press the left soft key to access the following options:

- Set Alarm: Press the navigation keys to select one short alarm or weekly alarm, and press the left soft key for confirmation. Then use the alphanumeric keys or the up and down navigation keys to enter time and press the left soft key to save your settings.

- Clear: Remove the alarm.

Enable alarm: Activate the selected alarm. When activated, the phone rings at the specific time.

Disable alarm: Deactivate the alarm. When deactivated, the phone does not ring for the specific time.

Clear all

Clear all the set alarms.

Memo

This menu option allows you to create a new memo, and set the time of alert ring tone for the memo.

Edit Memo

Select Edit Memo to access memo list (If no memo is saved, the list is empty).

Use the navigation keys to move cursor and press the left soft key to confirm your selection, a menu pops up:

Edit Memo: Select Edit Memo, and enter time, day, month, year and alert text (you can enter up to 8 characters) one by one according to the hint. Press the left soft key to access the ringtones list, select the memo ringtone, then press the left soft key to save. Note: Change the setting time ahead of the current time when editing the memo, for example: your phone is 8:00, you need to set the time to 8:01 or 8: 05 ahead of 8:00, if not ,the memo will not work and will show "time pass".

Clear: Delete the selected memo.

After editing the memo, the phone will remind you of the memo at the specified time. The memo is automatically cleared after executing the command (You can edit up to 3 memos).

Clear All

Delete all the saved memos.

Set clock

Set the time and date of mobile phone as well as the display format in idle mode.

Date & Time settings: Press the <Accept> soft key to access this menu, and press the numeric keys or up and down navigation keys to enter the present time and date, then press the left soft key for confirmation.

Time format: You can select 12 hours or 24 hours as time display format.

Date format: The date format can be set to YYYY-MM-DD, MM-DD-YYYY, or DD-MM-YYYY.

Date & Time display: You can set whether to show the date and time in idle mode.

Timer

Select "Timer" menu to operate timer. Press the left soft key of the middle navigation key to activate timer, the timer status is as below:

Left soft key/middle navigation key: Start/Pause;

【 ↓ 】 key: store the current timer (You can store up to 4 timers);

Right soft key: Back.

* key: Start to timer again.

Select "Timer use manual" to show the use guide of Timer.

Profiles

Use this menu to customize various call tones for incoming call. Select Profiles and press left soft key to access. Then press navigation keys to select options:

Standard

You can set Standard mode to default mode, or customize it by selecting Edit, or reset to initial settings.

Active: Set the Standard to default.

Edit: this menu allows you to set ring tone, SMS alert tone, call alert, volume, etc.

Ring tone: lets you specify the ring tone for incoming calls. Select option by pressing the navigation keys, and press left soft key to confirm.

SMS alert tone: Allows you specify the message tone. Operate as ring tone.

Alert style: Set the ring tone way for incoming call, including ring once and repeat ring.

Ring volume: Allows you specify the ring tone volume.

Key volume: Allows you specify the key tone volume.

SMS volume: Allows you adjust the SMS tone volume.

Power on volume: Allows you adjust the powering on volume.

Power off volume: Allows you adjust the powering off volume.

Vibrating alert: Select whether or not enable or disable vibrating alert.

Reset: Reset the settings to initial values.

Conference

In the conference mode, the phone vibrates for incoming calls and incoming messages. No ringing tone and key tone. Operate as "Standard".

Outdoor

In outdoor mode, the phone rings for incoming calls and incoming messages. Ringing volume and key volume are both 8-grade by default. The vibrating alert is enabled. Operate as "Standard".

Silence

In mute mode, no ringtone, no key tone, and vibrating alert is off. Operate as Standard.

※Notice: Select the different profiles or ringtone volume; the idle screen will display the different icons.※

My style 1

In this mode, repeated ring, and volume is 6 levels, and vibrating alert is off. Operate as "Standard".

My style 2

In this mode, no ringtone and key ringtone, vibrating alert is on. Operate as "Standard".

※Notice: In different profile or ring mode, the display will show different icon.※

Tools

Time zone

This menu allows to inquiry World each place time. When you go aboard, you can set the going country time on your mobile.

When you are out of the country, update your mobile's time system into a new system of the current country. Don't need to calculate the time by yourself. The display shows the time and zone. Select the current country time and zone through the navigation key. Press the left soft key to select "Setting" to save the selected time and zone.

Calendar

Use this menu to check date. For example: you can check what day it is on December 5.

Left soft key: Open the <Option> menu, you can do:

Go to date: Enter the check date, and then confirm.

View memo: Check the selected date memo. If there is no memo, the display will show tip information.

View all memos: Check all the memos.

Left/Right navigation keys: Move the cursor to the previous/next day.

Up/Down navigation keys: Move cursor up/down one row.

Calculator

Use this menu to perform the basic arithmetic functions such as addition (+), subtraction (-), multiplication (*), and division (/), square, square root, flip sign, currency convert, etc. Detailed steps as follow:

Before you enter numbers, press the <menu> soft key to access Exchange Rate. And then press left soft key to access its sub menu, select the wanted way then enter exchange rate.

Enter the first figure using numeric keys (Press "#" to enter decimal point; press <Menu> soft key to select Flip sign to enter positive sign (+) and minus (-);

The navigation keys and dial key separately represents "+ - * /" and "=". In the menu options, you can select Change sign, Square root, Square, To foreign currency, To domestic currency, and Exchange rate. Use corresponding navigation keys or select corresponding option in the menu, the display shows the arithmetic sign or result;

Enter the second figure. Repeat the steps if necessary;

Press the middle navigation key to view the result.

Press the right soft key to delete wrong entries.

Get the result, press the right soft key to clear the result.

Tools use manual

Through this menu, you can check the introduction of ABC sensor, flashlight, and laser pen function.

Contacts

This feature allows you to store phone numbers and their corresponding names in the memory of your SIM card and phone's memories, at the same time, provides browsing, adding, managing functions. Your phone can store up to 300 contacts, while SIM card memory depends on various SIM card.

Browse

- Browse all

This menu allows you to browse all the phonebook entries. Also you can select to browse the phonebook entries stored in the phone or in SIM card. Once you have found the contact, press <Option> to access the Phonebook entry options:

Edit: displays the name and number. If you need to edit the name or number, scroll the navigation keys to select the edit item, then press left soft key to access "edit" interface. After editing, press the left soft key to save.

Delete: Deletes the current contact from Phone or SIM Card.

Dial to: Call the number.

IP dial: Make an IP dial.

Send message to: Sends text message to the contacts.

Add to filter: Add this number to filter.

Create: Save to SIM card.

Save to phone.

- My phonebook

Displays all the contacts stored in the phone. You can use speed-search. Once you have found the contact, press <Option> to access the Phonebook entry options:

Edit: Displays the name and number. If you need to edit the name or number, scroll the navigation keys to select the edit item, then press the left soft key to access "edit" interface. After editing, press left soft key to save.

Delete: Deletes the current contact from Phone or SIM Card.

Dial to: Call the number.

IP dial: Make an IP dial.

Send Message to: Sends text message to the contacts.

Copy to SIM phonebook: Copy the selected contact message to SIM card.

Add to filter: Add this number to filter.

Create: Adds a new contact to phonebook.

•SIM phonebook

Displays all the contacts stored in the SIM card. You can use speed-search. Once you have found the contact, press <Option> to access the Phonebook entry options:

Edit: Displays the name and number. If you need to edit the name or number, scroll the navigation keys to select the edit item, then press the left soft key to access "edit" interface. After editing, press the left soft key to save.

Delete: Deletes the current contact from Phone or SIM Card.

Dial to: Call the number.

IP dial: Make an IP dial.

Send Message to: Sends text message to the contacts.

Copy to my phonebook: Copy the selected contact message to phone.

Add to filter: Add this number to filter.

Create: Adds a new contact to phonebook.

Memory status.

※Note: **Speed-search:** Press the corresponding alphanumeric keys to search for a number by name. Enter the first letter of the name that you want to find. The phonebook entries are listed, starting with the first entry matching your input.※

Create

This feature allows you to store phone numbers and related information to the Phonebook. Press left soft key to access this menu, select the location to be stored: Save to SIM or Save to Phone, and then press the left soft key to confirm.

Save to SIM: Add new contact to the phonebook of SIM card. Press <Accept> to access this menu, and then press <OK> key to access the edit screen, enter the name and number, press <Save>.

Save to Phone: Add new contact to the phonebook of your phone. Operate as [Save to SIM].

※Note:

In idle mode, after entering phone number, press left soft key to access save function, to select "save to SIM" or "save to Phone".

If SIM card is full or the ME phonebook is full, the display will show "Memory isn't enough." ※

Management

- Copy to my phonebook

Copy the SIM card phonebook to phone.

- Copy to SIM phonebook

Copy the phone contacts to SIM card phonebook.

- Delete all records

Delete all the records on the phone and SIM card at one time.

- Delete all phone records

Delete all the records on the phone at one time.

- Delete SIM records

Delete all the records on the SIM card at one time.

- Customization delete

Delete the records one by one.

- Memory status

This menu shows the condition of the use of the SIM card/phone book. The display shows used and total space of Phonebooks on SIM card and phone.

- Group

Divide the contacts into different group: Family, Friends, Office, Others. Different group set different ringtone to indicate. Press the up/down navigation key to select group, press the left soft key to access:

Group members: show the Family group member number, press left soft key to operate: Dial to, Send message, Edit, Add member, Remove member, Copy to SIM, IP dial.

Rename: Rename the group name.

Alert tone: Set the group alert tone.

• Speed dials

Allows you to assign up to eight phone numbers from Phonebook that you use most frequently to the number keys (2~9), and then dial them easily whenever you want, by pressing and holding the associated number key.

Press the left soft key to access Abbr.dial, displaying the Abbr.dial list: the associated digit keys "2~9"=the names stored in phonebook.The keys not to be set are displayed "2~9=empty ". Press left soft key to access the following options:

Set/Change: Allows you to assign different number to the key. If no abbr.dial number has been set in this list, it displays this option only.

Detail: Allows you to view the number assigned to the key.

Delete: Allows you to clear the setting so that no number is assigned to the key.

Dial to:Dial the number.

Among them, 1 Key is set for voice mailbox number. You also can set the voicemail number on [Short message]-[Voice mailbox].

Short message

This menu allows you to read, compose, send and receive text messages. Screen icon that displays in standby mode refers to any new message just received and unviewed.You can set the message tone to remind you of receiving any new message.

No more messages can be received when the Inbox is full. Screen icon flashes on the screen in standby mode and remind you of full inbox. You can receive the new message after you have deleted some old ones to release memory space.

Inbox

For received SMS message, this menu allows you to do some operations.

Press the left soft key, the display lists will receive messages according to the received time.

Press the navigation keys to select message. Press the left soft key to view the message contents, then press left soft key to access options:

Save number: Save the number to SIM card or phone;

Delete: Delete the selected message.

Text reply: Reply by sending a text message. Press the left soft key, the display shows text edit screen. When you have completed the message, press the left soft key to send it to the sender.

Forward: Send the received message to another person.

Call back: Call the sender directly.

IP dial: Make an IP dial.

※**Notice:** If status report is activated, the report will be sent to inbox. After reading the report, you can press the left soft key to confirm whether to delete the report or not. ※

Create Message

Via this menu, you can write new messages. Access message editing interface, when you finish creating a message, press the left soft key to access the following options:

Send and Save: Send the message to a contact and save the message to draftbox at the same time.

Send only: Send the message to a contact.

Save only: Save the message to draftbox send the message to contacts.

Send to many: Send message to one contact or multiple contacts. Use up and down navigation keys to select option and press the left soft key to edit (You can directly select number from phonebook or enter number manually). After the editing, press the left soft key to send.

Insert template: Insert template message into new message.

Insert contact: Insert contact name and number into new message.

Outbox

The outbox stores any messages that you have failed to delivery. For the messages in this box, you can access options: Delete, Forward, Call back and save number.

Draftbox

The draftbox stores any messages that you have saved. For the messages in this box, you can access options: Delete, Edit.

Edit Template

In the template list, select one template, press the left soft key to edit the content.

Voice mail

Select Voice mail to access the following options:

Listen to Voice mail Messages: If you apply this feature, you can listen to your voice mail.

Voice mailbox number: store the voice mail server number. You must enter the voicemail number before you can access your voicemail. Voice mail server number is provided by your service provider.

Settings

This menu allows you to preset message parameters.

Message service center: Allows you to store the number of your message centre, which is required when sending messages. You must obtain this number from your service provider.

Message type: Allows you to set the default message type to Text, Fax or Email.

Message validity: If messages can not be delivered from your message center due to some reasons (i.e. your phone is switched off). Select the period in which the service center tries to deliver the message.

Status report: Informs you whether your message has been delivered or not. To enable or disable this option, choose the On or Off.

Reply path: Allow the recipient of your message to send you a reply via your message center, if your network supports this service. To enable or disable this option, choose the On or Off.

Storage Position: Allows you to select the messages stored location, you can select SIM preferred or phone preferred.

Memory status

Show the total and used memory of SIM card and phone.

Broadcast Message

This network service allows you to receive text messages on various topics, such as the weather or traffic. Messages are displayed immediately as they are received, you can directly read the messages. At present, only a few networks support this feature. For further information, contact your service provider.

Press <Accept> to access Broadcast Message. The display shows options: Topic, Language and Service Status. Press navigation keys to select option and press left soft key to access.

Topic: Allows you to indicate the channels from which you wish to receive broadcast messages. The following options are available:

Select topic: Use to enable or disable channels;

Add topic: Use to enter the ID and name for a new channel;

Edit topic: Use to edit the ID and name of an existing channel;

Delete topic: Use to remove a channel from the list. -

Language: Allows you to select your preferred language to be used when displaying cell broadcast messages. You can select [All Languages] or [Other Languages].

※ Note: When selecting other languages, press the navigation keys to select language, and press the left soft key to confirm. ※

Service Status: It allows you to turn the reception of broadcast messages on/off.

Delete All

This menu allows you to delete all of the text messages stored in each message box. Press the navigation keys to select option and press the left soft key to confirm.

Delete all messages: Delete all of the text messages in inbox, outbox and draftbox at one time

Delete inbox messages: Delete the selected messages in the inbox.

Delete outbox messages: Delete the selected messages in the outbox.

Delete draftbox messages: Delete the selected messages in the draftbox.

Call Records

In this menu, you can view the calls you missed, dialed and received, as well as the length of your calls. Your phone can record incoming and missed calls provided that the network supports this feature, and the phone is switched on and covered by network service.

All calls

This menu lets you view the call record numbers. If the number of the incoming call has already existed in the phonebook, it displays the name; or displays the number. Select one call and press the dial key to dial the number. Press the left soft key to access the following options:

Save number: Save the call number to SIM card or phone.

Details: Display the date and time when the call was received.

Dial to: Call the number.

Send message to: Send a message to the number.

Delete: Delete the selected call record.

Delete all: Delete all the incoming call records.

Display number: Show the number.

IP dial: Make an IP dial.

Add to filter: Add the number to filter, and then the call will not be received.

Dialed calls

This menu lets you view the recent numbers you dialed. If the number of the outgoing call has already existed in the phonebook, it displays the name; or displays the number. Select one dialed call and operate as [All calls].

Missed calls

This menu lets you view the recent numbers of the calls you received, but did not answer. If the number of the outgoing call has already existed in the phonebook, it displays the name; or displays the number. Select one received call and operates as [All calls].

Received calls

This menu lets you view the recent numbers of the calls you received. If the number of the incoming call has already existed in the phonebook, it displays the name; or displays the number. Select one received call and operates as [All calls].

Delete all

You can delete all the call records or select different record type to delete.

Call duration

This menu lets you view the duration for calls dialed, received, and last call.

Press the right soft key to return to previous menu, and press left soft key to reset the calls durations to 0.

Settings

Many different features of your phone can be customized to suit your preferences. All of these features are accessed in the Settings menu.

Phone settings

- Display settings

In this menu, you can change various settings for the display or backlight.

LCD intensity: set the display contrast.

Back light: Allow you to select the length of time the backlight is on.

Wallpaper: Allows you to change the background image to be displayed in idle mode.

Welcome note: Allows you to set a greeting (not power-on animation) to be displayed briefly when the phone is switched on. To activate or deactivate this option, choose the Enable or Disable. When selecting Enable, it asks for entering greeting note, then press <Select>.

Display network: Set whether to show the network name.

- Time on/off

It allows you to change time and date and display format in idle mode.

Time power on: This menu allows you to set a time when the phone auto-on. Press left soft key to access this option, and it displays the auto-on time. If the time has not been set, it does not display the time and press the left soft key to access the following menu:

Edit Time: edit the auto-on time.

Clear: remove the auto-on time. After clearing the auto-on time, the phone does not switch on at the time.

Time power off: This menu allows you to set a time when the phone auto-off. Operate as "Time power on".

- Text input settings

It allows you to set the default input mode. Use the navigation keys to select input mode and press the left soft key to confirm.

- Security settings

Use this menu to protect the phone against unauthorized use by managing the several access codes of your phone and SIM card. When the phone asks for entering any one of the following code, input the correct code (displaying "*" on the screen), then press <Accept>. If you enter an incorrect code, press <Cancel> to delete the wrong entries and then enter the right one. Security settings include Change PIN1, Chang PIN2, Phone Code, etc.

PIN1 code request: PIN1 is used to prevent your SIM card from misuse. The following options are available:

On: If your current PIN1 is set to Off, select On and enter correct PIN1 code to activate this feature. If the PIN1 activates, it is requested each time the phone is switched on. SIM card is protected by PIN1 code.

Off: If your current PIN1 code is set to On, select Off and enter correct PIN1 code to deactivate this feature.

Change PIN1 code: allows you to change your current PIN1 to a new one, provided that the Power On PIN1 is set to ON. You must enter the current PIN1 before you can specify a new one. Once you have entered a new PIN1, you are asked to confirm it by entering it again.

※ Note: If the PIN1 is entered incorrectly three times, the SIM card is barred. You have to enter PUK to unlock SIM card. PIN1 and PUK codes may be provided together. If you do not know your PIN1 and PUK, please contact your service provider. Generally, the default PIN1 is 1234, please change it to your own number as soon as possible. ※

Change PIN2 code: Enter the current PIN2, and then you can set the PIN2.

Phone lock: This menu allows you to lock/unlock your phone, Phone code is needed when you operate this option. When activated, you must enter a phone code each time you switch your phone on or replace SIM card. You can set the phone code to On/Off, or change phone code.

※ Note: It is 4-to-8 digit phone code. The default code is 0000. ※

Privacy lock: Allows you to protect your private data like call records, short messages and phonebook from being viewed by other one. Detailed steps as follow:

Activate/Deactivate Privacy Lock: Use navigation key to move cursor to the info you want to lock (Call log lock, SMS lock, Phonebook lock) and press <Accept>. Enter password and select On/Off to activate/deactivate the privacy lock.

Modify PWD: Use navigation key to move cursor to Modify PWD and press left soft key to access. According to the instructions on the screen, enter old password and confirm, then enter new password twice. The password is changed to a new one.

※ Note: The original privacy lock is 0000 by default, the user can change it. ※

- Language

It allows you to select languages for the display text.

- Own number

It allows you to set keypad lock way. You can edit two phone numbers.

- Automatic keyguard

It allows you to set keypad lock way. You can select Disable, 30 seconds, or 60 seconds.

- Set IP

Set the IP number in advance. When you call an IP dial, the IP number will be added in front of the calling number automatically.

- Factory default

In this menu, enter your phone code (the initial value is 0000) and press <Accept> to reset your phone to its default settings.

Network settings

These menu functions are network services. Please contact your service provider to check their ability and subscribe to them, if you wish. Select Network and press center key to access the options: call waiting, call forwarding, call barring and network select mode.

- Call waiting

This feature means you are informed of a second incoming call by an audible tone in the earpiece. Activating this feature enables you to specify whether to answer the second incoming call or not. Deactivating this feature, you are not informed of a second incoming call by an audible tone in the earpiece, and the caller will hear a busy tone (If the divert feature is activated, the second incoming call is automatically diverted to another phone.)

- Call divert

This network feature allows you to divert your incoming calls to your another number. If you can not answer the phone, forward your incoming calls.

Divert all voice call: When activated, all of your incoming calls will be diverted. You can Interrogate, Activate or Deactivate this feature.

Divert if busy: When activated, calls will be diverted when you are already in a call. You can Interrogate, Activate or Deactivate this feature.

Divert if not answered: When activated, calls will be diverted if you do not answer your phone. You can Interrogate, Activate or Deactivate this feature.

Divert if not available: When activated, calls will be diverted if your phone is off or if you are out of coverage. You can Interrogate, Activate or Deactivate this feature.

- Call barring

The call barring network service allows you to restrict your calls. This feature needs call barring password supplied by your service provider.

All outgoing calls: Calls cannot be made except emergency call.

All Int'l call: International calls cannot be made.

Int'l except for home: When abroad, calls can be made only to numbers within the current country and to your home country, which is the country where your phone network provider is located.

All incoming calls: Calls cannot be received.

Incoming calls while roaming: Calls cannot be received when roaming.

※ Note: The call barring password is provided by your service provider. ※

- Network selection

The Network selection feature allows you to choose how the phone searches for the network. You can set it to automatic selection and manual selection.

Automatic: If you select Automatic, you are connected to the first available network of SIM card.

Manual: If you select Manual, the phone scans the available networks. Select the preferred network and then press <Accept>. You are connected to that network.

Call settings

This menu is used for setting Calling Identity Delivery and the way of dialing and receiving call.

Call volume: Set the volume during a call.

Automatic redial: The phone automatically re-dials the number if no answer. You can set it to Enable or Disable.

Anykey answer: Press any key to answer the call except the hook key, the right soft key and the navigation keys. You can select Enable or Disable.

Select line: This option is available provided that your phone has two different numbers.

Call filter list: Set the call filter number, after you set the number, when the number is calling, the mobile will filter it automatically.

Shortcut settings

Set the shortcut of four-way navigation keys.

Multimedia

Music

The menu allows you to broadcast the music saved on the T-Flash card. Press the left soft key to access music list, select the play file, and press the middle navigation key to play the music. Press the left soft key to do:

Play: Play the music file.

Set alert: Set the selected music as the ringtone.

Delete: Delete the music file.

When playing the music:

Middle navigation key: play/stop the listening music;

【←】 key: Play the last music;

【→】 key: Play the next music;

【↑】 / 【↓】 key: Adjust volume;

Right soft key: Return to music file list.

※Notice:

Save or delete the MP3 files on T-Flash card please refer to "T-Flash Card Use Guide".

The mobile supports playing MP3 files back stage function that is during the file playing, you can press the end key or the right soft key to return to the idle screen to do other operation, and the MP3 file still play the file name will show in the screen. If you want to stop the MP3 file, enter the Music menu to press the middle navigation key to stop playing. ※

FM radio

Listen to the radio, plug the earphone into the earphone jack located at the left side of the phone. The earphone cord functions as the antenna of the radio, so let it hang freely.

If you do not have earphone at hand, use the antenna inside the mobile to listen the FM radio.

After enter "FM radio" menu, mobile displays the frequency of the found radio station. Press the left and the right navigation keys to select your station. Press the up and down navigation keys to adjust volume. Press the right soft key to exit FM radio. And press the left soft key to access below options:

Search channel: To start a station search. The search stops when a station is found.

Automatic tuning: For automatic station seek. Searching stops when a station is found. Then press the left and right navigation keys to browse and listen to the found station.

Manual tuning: For manual station seek. Press the left and the right navigation keys to change frequency in 0.05MHz steps.(After you researched the frequency by manual, you can also press the alphanumeric keys to enter frequency and press the left soft key to accept.)

Custom FM: To display the list of the present radio stations. If no station is saved, the list is empty (save up to 10 stations). Press the navigation keys to select a number, and press the left soft key to access options:

Edit: Edit the frequency of the radio station (between 87500~10800), and press the left soft key and select "save".

Choose: Listen to the radio station.

Delete: Delete the radio station.

FM speaker control: Enable/disable the FM speaker, when enable the function, the voice of FM will broadcast from speaker.

Save current channel: Save current channel into channel list.

Select "FM use manual" to show the user guide of the FM radio.

UDISK manager

Through the menu, you can check the T-Flash card capacity or operate with the card by PC.

UDISK Mode: Activate UDISK mode to start the communication with PC. You can operate with the T-Flash card as the mobile disk.

※Notice: Before activating the UDISK mode, make sure you connect the mobile and PC with special data line. ※

Capacity: Check the capacity of the T-Flash card.

Entertainment

Games

Using this menu, you can enjoy two games. For more information, please refer to the Help embedded in the game.

SIM tool kit

STK features are provided by your service provider. If your SIM card supports STK feature, you will see the STK menu. Different STK has different STK main menu. Please contact your service provider if the STK does not work.

Text Input Settings

Key functions for Input Mode

Digital key 1~9: Show different characters with different input modes.

1 key: In English Mode, press to change case. In ABC, abc Mode, input “.,-?!”.

0 key: In Input Mode, press to enter space. In Number Mode, press to enter 0.

*** key:** Press to change case.

key: Press to change input mode.

English Input Mode

Definition

You are provided with the following text input modes.

English Mode: Press the appropriate key until the character you want appears on the screen.

Quick English Mode: Enter the first letter of the word, and the phone will automatically compares your keystrokes with an internal linguistic dictionary to determine the correct word.

Examples

To spell the word "how": Press numeric key 4 (h) -> numeric key 6 (o) -> numeric key 9 (w) -> Press the left soft key for confirmation.

Press * key to change case when input words.

- Once to change the first letter of the word to uppercase.

- Twice to change the whole word to uppercase

- Third times to change the whole word to lowercase.

Predictive Input Mode

Enter one or more letters, and press the up and down navigation keys to find the right word, then press the left soft key to confirm. If not, repeat the same steps to input the word again.

Using the ABC Mode

When typing in the Abc (abc or ABC) mode, press the key which corresponds to the desired letter several times until the letter you want appears:

- Once for the first letter

- Twice for the second letter

- And so on

Abc means to enter first-letter-capitalized words; abc means to enter lowercase letters while ABC means to enter uppercase letters.

Guidelines for safe and efficient use

Your phone is a product of superior design and craftsmanship and should be treated with care. By following the warranty obligations and by caring for your mobile, you can enjoy it for many years:

- Keep the phone dry. Precipitation, humidity and liquids containing minerals will corrode the electronic circuits;

- Do not use or store the phone in dusty areas as the dust could obstruct or damage the moveable parts;

- Do not store the phone in hot areas. High temperatures can shorten the life of electronic devices, damage batteries and warp or melt certain plastics;

- Do not paint your phone as the paint could obstruct any moving parts and prevent from the normal use;

- Use only approved batteries and accessories. Use of any unauthenticated batteries and accessories could damage your phone and may be dangerous;

- If there's something wrong with your phone or its accessories, do not attempt to dismantle the phone. Contact qualified service personnel to repair your phone.

Problems	Reasons and Solutions
Can't switch on	<p>Press and hold the end key until image appears on the display.</p> <p>Check the battery contacts. Remove and insert battery and switch your phone on again.</p> <p>Check the battery charge level.</p>
Can't connect to network	<p>Move into an area of better coverage.</p> <p>Beyond the network cover area:</p> <p>Contact your service provider if your SIM card is invalid.</p>
The audio quality of the call is poor	<p>Press navigator key to increase the volume when you are in a call.</p> <p>Check the signal strength indicator on the display.</p> <p>The line is busy and can not be connected to network, you will can not make a call.</p>
Standby time too short	<p>When failing to connect to network, the phone will keep searching base station that consumes much battery and reduces standby time. Move to an area with stronger signal strength or switch your phone off temporarily.</p> <p>Replace the battery.</p>
SIM card error	<p>Make sure that the chips in SIM card are not damaged, use the clean cloth to scratch it.</p> <p>Make sure that the SIM card is inserted correctly.</p> <p>SIM card invalid. Contact your service provider.</p>
Can not dial calls	<p>Make sure that the number you dialed is available and the dial key has been pressed.</p> <p>Make sure that there is enough money to make a call.</p> <p>Make sure that the SIM card is valid.</p> <p>Fixed Dial is set or has call barring feature turned on. Deactivate fixed dial function or call barring.</p>
Can not receive calls	<p>Make sure that your phone has connected to network (Check if the network is too busy or invalid).</p> <p>Make sure that there is enough money to receive the call.</p> <p>Make sure that SIM card is valid.</p> <p>Check call divert settings and incoming call barring settings.</p>
The battery won't charge	<p>Make sure that the battery is inserted correctly. Securely connect the charger to the phone.</p> <p>Only charge the battery in an environment where the temperature does not go below -10°C or above 55°C.</p> <p>The battery or charger need to be changed.</p>
Can not set some functions	<p>The operation is wrong.</p> <p>The network providers do not support the function, or you don't apply the function.</p>

Addenda 1st: Magnetic variation on main cities

Number	City	Variation(°)		
1	Anchorage	22		
2	Atlanta	-4		
3	Bombay	-1		
4	Boston	-16		
5	Calgary	-18		
6	Chicago	-3		
7	Denver	10		
8	Jerusalem	3		
9	London	-4		
10	Little Rock	3		
11	Livingston,MT	14		
12	Munich	1		
13	New York	-14		
14	Orlando	-5		
15	Oslo	-2		
16	Paris	-2		
17	Rio De Janeiro	-21		
18	San Francisco	15		
19	Seattle	19		
20	Shanghai	-4		
21	Toronto	-11		
22	Vancouver	-20		
23	Washington DC	-10		
24	Waterbury, CT	-14		

