

VZ102music
BESS
User's manual
FCC ID: JY9-VZ102MUSIC

Thank you for choosing a cross! Please read this book carefully, before you use the phone happily.

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1 Important safety precautions

Failure to comply with the following precautions may be dangerous or illegal. For more detailed safety information, see "Health and Safety information".

Drive safety at all times

Do not use a hand-held phone while driving. Park your vehicle first.

Switch off the phone when refueling

Do not use the phone at a refueling point (service station) or near fuels or chemicals.

Switch off in an aircraft

Wireless phones can cause interference. Using them in an aircraft is both illegal and dangerous.

Switch off the phone near all medical equipment

Hospitals or health care facilities may be using equipment that could be sensitive to external radio frequency energy. Follow any regulations or rules in force.

Interference

All wireless phone may be subject to interference, which could affect their performance.

Be aware of special regulations

Meet any special regulations in force in any area and always switch off your phone whenever it is forbidden to use it or when it may cause interference or danger.

Sensible use

Use only in the normal position (held to your ear). Avoid unnecessary contact with the antenna when the phone is switched on.

Accessories and batteries

Use only GG50 approved batteries and accessories, such

as headsets and PC data cables.

Use of any unauthorized accessories could damage you or your phone and may be dangerous.

Qualified service

Only qualified service personnel may repair your phone.

2 About this Guide

This User's Guide provides you with condensed information about how to use your phone.

This color screen mobile phone is designed for GSM network. Exception all the basic call function, it also provides English typing, phonebook, 64-chord polyphonic and custom ring tones, time/alarm clock, camera, music playback, video playback, T-flash card, USB storage, voice recording, calculator, Bluetooth, FM radio, SMS, hand-free talking to bring your convenience. This mobile phone is accorded with the GSM technical criterion.

We reserve its rights to alter, change or modify the specification without any notice

2.1 Technical Reference

Host Phone

Model	VZ102music
Dimension	109.8mm*46.1mm*13.5mm

Lithium Battery

Type

Standard Voltage **3.7V**Charge limit **4.2V**
voltageRating capacity **800mAh****Travel adapter**

Type

Import: 100-240Vac 50/60Hz 0.15A

Export: 5.2Vdc 500mA

USB Data CableSpecification **USB 1.1****Earphone**

Specification Stereo earphone

Media support:

Mp3, mp4, avi, amr, wave, jpg, MID, etc.

2.1.1 Getting to know your phone

2.1.2 Key Instruction

Key Name		The introduction of the key function (Standby mode)
Left soft key		Enter into main menu; Follow up the bottom left corner's instruction on the screen
Right soft key		Enter into phone book; Exit current function
Send1/Send2 Key		Make or answer a call; Enter into call history.
End Key		Long-press to power on/off; Short-press to Enter or exit power save mode.
Navigation key(default function)	up	Write message
	down	Camera
	left	Alarm
	right	Profiles
Camera key		press to turn on the camera.
Play control key	Backward	Enter into audio player; Play the previous music.
	Play /pause	Enter into audio player; Start to play or pause.
	Stop	Enter into audio player; Stop playing.

	Forward	Enter into audio player; Play the next music.
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Alert: 1. Short Press means press the button and release it; Long Press means to keep press at least 2 seconds.
2. Long Press the pound key to activate/deactivate the silent mode.

2.1.3 Icons

The following icons may appear on the top line of the screen to indicate your phone's status. Depending on your country or service provider, the icons shown on the display may vary.

Icon	Description
	Signal strength
	Battery power level
	Alarm clock
	Keypad lock
	Unread SMS
	Miss call
	General
	Meeting

	Outdoor
	Indoor
	Earphone
	Bluetooth

3 Start to Use

3.1 Power on/off

Switch on: 1. Press and hold the power key until the screen show welcome image.

3. If necessary, enter the PIN or phone password and press confirm.

Switch off: 1. In any mode ,press end key to back to idle screen,first.

2. Press and hold the power key until the screen show power off image.

3.2 Assemble and charge the phone

(Please make sure the phone is turned off)

■ Removing the battery:

Step1: Opening the battery cover;

Step 2: Take out the battery.

■ Installing the battery:

Step 1: Insert the bottom side of battery into slot;

Step 2: push the other side of battery down to slot;

Step 3: Fix the battery cover.

3.3 Installing the SIM card

Please make sure the phone is switched off.

1. Open the phone and lift the battery away.
2. Insert and slide the SIM into correct position

3.4 Installing T-Flash card

Installing the T-Flash card:

1. slide the card cover to open
2. Put the T-Flash card into correct position.
3. Make sure that the gold colored contacts on the card are face right side.
4. slide the card cover to close.

Disassemble the T-Flash card :

1. Push down the card cover
2. Take it out and close the cover

3.5 USB Connecting

1. Connect one side of USB cable to the socket on the up side of the phone
2. Connect the other side of USB cable to PC.
3. If you want to use the USB storage function, you should power off the phone.

3.6 Battery recharge

- ✧ Insert the connector of battery charger into the mobile phone at the top side.

- ✧ The power indicator will flash repeatedly on the up-right side of the screen; if the charging is made during power-off, the screen will display an icon for battery recharge, which means the battery is under charging.
- ✧ When the power indicator display in full scale on the up-right side of the screen and does not flash any more, this indicates the charging has been completed. If the phone is recharged in power-off, the screen will also display an alert icon that the recharge has been completed. This often takes 2 ~ 3 hours. It is normal that the battery, mobile phone and battery charger become hot during recharge.
- ✧ Disconnect the power socket and mobile phone with the battery charger after the recharge is

completed.

Warning: The recharge must be performed in ventilation at 0°C~40°C and only with the original battery charger. The use of any unauthorized battery charger can be dangerous and will constitute a violation to the certification and warranties for the phone.

3.7 Earphone

Earphone plugs into the phone, while the scene mode will auto transfer to earphone mode.

3.8 Access codes

3.8.1 PIN code

The PIN code protects your SIM card against unauthorized. Your SIM card usually suppliers the PIN code.

3.8.2 PIN2 code

The PIIN2 code may be supplied with the SIM card. Some

functions will require PIN2 support, such Set tariff. You may need to obtain the password from your service provider.

3.8.3 PUK

The PUK code is required to change a blocked PIN code.

The PUK code is required to change a blocked PIIN2 code.

- You may need to obtain the password from your service provider.
- If you key in an incorrect PIN2 code three times in succession, you may need to key in PUK2 code.
- If you key in an incorrect PUK code ten times in succession, the SIM card cannot be used anymore.
Contact your service provider for a new card.

3.8.4 Phone password

Phone password protects the phone against unauthorized use. It is not on when you buy the phone. You can change the phone password to any four to eight digit personal codes. (Default:1122)

4 Quick Guide

4.1 Making Calls

When the network provider's name appears on the screen, you can make or answer phone calls. The info bar on the upper left screen indicates the network's signal strength (wherein 4-scale info bar indicates the strongest signal).

Voice quality varies greatly with obstacles. Therefore, moving within a limited area may improve the signal strength.

4.1.1 Dialing mode

In the dialing mode, the signal indicator, battery power indicator and other icons are still available on the screen. A twinkling line will indicate the cursor's position.

In the dialing mode, there are two way to make a call.

- ✧ Direct dial a new number: In the main menu,

press the number on the screen, and press send1/send2 to make a new call.

- ✧ Dial a number from phonebook: In standby mode, press "name" to go into phonebook screen, and to choose the contact number you saved, and press send to make a call.

4.1.2 Calling status

In the calling status, you also can input the number and choose send1/send2 to make another call; To press "end key" to hang up a call. Then the main screen displays: animation picture, signal and battery power indicator, and recipient's phone number if the number does not exist in Phonebook or the recipient's name.

4.1.3 Answering a call

When a call is coming in, the phone will bring you into incoming call screen and prompt you according to current ringing or vibrating alert settings. At this time, you can press send1/send2 to answer the incoming call.

4.1.4 Call log

The phone also can store your call information . You can review the following items in the “Call log”:

- ✧ Missed calls
- ✧ Dialed calls
- ✧ Received calls
- ✧ All calls

✧ Clear logs

4.1.5 Making a domestic call

The simplest way to make a call is to enter the telephone number with press the numeric keys (add the zone code to make a home call) and then press the “send1” or “send2” to start a call. To change the telephone number, press the “clear” to delete one character. During dialing, the screen will show an animation picture for the calling. Once the other party answers your calling, the screen will show the call status information.

After the call is over, press the “end key” to disconnect the phone call.

For home calls: Zone code + telephone number + the send1/send2 key.

4.1.6 Calling an extension number

For some fixed telephones, you cannot directly call its extension number. You should first connect to the exchange and then the extension. If you insert a pause character "P" between the exchange number and the extension number when you enter the telephone number, the mobile phone will complete the dialing for you. That is, it will call the extension number automatically. To enter "P", long press, or short press for the running three times the * key (then the character "P" will appear on the screen).

For extension call:

Zone code + exchange number + "P" + extension number + the send1/send2 key

4.1.7 Making an international call

To make an international call, short press for the running two times the * key until "+" appears before the phone number on the screen. This will allow you to

make a phone call from any country even when you do not know the local prefix number for a international call (for example, 0086 for the PRC).

After the prefix number, enter the whole number of the called country's zone code. As a rule, the zone code for German is 49, British 44 and Sweden 46, etc.

Like a usual international call, the "0" should be removed from the city's zone code.

For fixed phone call: "+" zone code of a country + the telephone number + the send1/send2 key.

4.1.8 Calling options

During a call, there are several options on the screen. Press up/down key for adjusting the voice volume during; Press right soft key to active the amplifier, and re-press it to close; Press left soft key to open the options menu. There are many useful functions in the menu. For example, Hold, End, New call, Phonebook, Sound recorder, DTMF, and Messages etc. Choose the "DTMF" to open or close

DTMF function. Choose "hold" can hold the current call. Choose "Phonebook" to pick another number for making another call. Choose Sound recorder to record the call voice into an audio file.

End: End the current call

new call: you can suspend one of current "conference call", and meanwhile to dial another call.

Message: Enter the message menu

DTMF: Send Dual-tone multi-frequency signal

Note: "Confirm key" is the button where at below left screen, "Back key" is the button where at below right screen. Some options just display in a specific situation or needs the support by local network.

4.2 Input method

When you are edit something, for example SMS, name or file name, Press the "#" key to switch input method. There are 3 input method can be used: "ABC", "abc" and "123".

4.2.1 ABC mode

Press “#” key time after time until the icon  appears on the top-left of the screen. Press the number key “2-9” to input capital letters; Press “1” or “*” to input symbol; Press “0” to input space.

4.2.2 abc mode

Press “#” key time after time until the icon  appears on the top-left of the screen. Press the number key “2-9” to input small letters; Press “1” or “*” to input symbol; Press “0” to input space.

4.2.3 Number mode

When the icon  appears, you can press the number key “0-9” to input number; Press “*” to input symbol.

5 Function menu

5.1.1 services

This function is provided by the network service operator. Upon the SIM card services, new menus will be available. If the SIM card and the network service provider do not support this service, this function will not be available. For more details, please contact your network service provider.

5.2 Profile (Scene Mode)

There are five modes: general, meeting, outdoor, indoor and headset.

Incoming call: allows you to set the sounds for an incoming call.

Alert type: allows you to set ring, vibrate only, vibrate and ring, and vibrate then rings by navigation key.

Ring volume: allows you to set the rings volume by navigation key.

Ring type: allows you to set rings single, repeat and ascending.

Message tone: allows you to set the sounds for new message.

Keypad tone: allows you to set silent, click and tone.

Keystone volume: allows you to set keypad tone volume by navigation key.

Besides, you can long press the key “#” to activating or deactivating silent mode in idle screen.

5.3 Messages

5.3.1 Short message

■ Inbox

In the Inbox, when the cursor points to a message Press “OK” or select “option>view” to read a short message. Use Up and Down keys to scroll and review the message. You also can reply, forward, delete, copy or move,etc.

■ Outbox

- If "Save and Send" is chosen when sending a message, the sent message will be saved into the Send box;

- **Write message**

You can enter message edit mode by two ways: 1. Select "messages" in main menu, then select "write message"; 2. Press up key(default function, can be set with other functions) to enter message edit mode quickly. When write a message, use # key to select input method or * key to choose symbol input. Press right soft key "Clear" to clear one character before the cursor, long press it to clear all characters before the cursor. Press "back" to return to the Standby mode, OK button to confirm.

- **Send a message**

When you complete the message editing, you can press

“OK” key or left soft key “Options” to send or save the message. Before you send a message, you have to input a recipient. You also can pick a number from phonebook or call logs. When a message is being sent, the screen will display “please wait”. If the message has been sent successfully, the screen will display “Done”; otherwise it will display “Failed”. But don’t worry, it has saved to the outbox.

Note: For details about the character input, please refer to the input method module

■ **Message settings**

- ✧ Common settings: You may choose on or off option for “Delivery report”, “Reply path” and “Save sent message”.
- ✧ Memory status: Display the status of short messages stored in the SIM card and mobile phone.

5.3.2 Voice mail

Your voice mail number will be provided by your service provider and showed in the phone.

Note: Voice mailbox requires services from the network service provider. You must edit mailbox number first to receive voice message.

5.3.3 Broadcast message

Broadcast message requires services from the network service provider. You need to set up Receive mode, language and channel settings.

- ✧ Receive mode: Press On/Off to decide whether to receive broadcast short message.
- ✧ Read broadcast message: when the area info appears, you can read one by one.
- ✧ Channel settings: do as the screen instructs to edit relevant channel settings.

5.4 Call logs

In Call logs, when you move the cursor to the Missed calls, Dialed calls, Received calls and All calls. You can see their total records directly.

- ✧ Missed calls - Display the numbers or the names of missed calls.
- ✧ Dialed calls - Display the list of outgoing calls currently stored in the phone.
- ✧ Received calls - Display the list of incoming calls currently stored in the phone.
- ✧ All calls – Display the records of all calls. Include Missed calls, Dialed calls and Received calls.
- ✧ Clear logs – You can clear the records for missed calls, dialed calls, received calls or

all calls.

Note: If the SIM is changed, the caller history will be deleted.

5.5 Phonebook

Press "OK" to enter this function in main menu. This function is aim to customer quick search the phone number in phonebook, and also could Add, Edit or delete. The main functions are list below:

- Contacts: enter the contact person's name do search from phonebook
- Add new contacts: Input name and phone number then save.
- Delete all: You may choose to delete all information from SIM card or phone.
- Copy All: All information will be reduplicated form the phone to the SIM card, or contrary.
- Owner number: You can set a number currently in use, it will be save to SIM card.

- Preferred storage: Select a first storage from SIM and phone.
- Memory status: Shows the information of the space for storing contacts, use and unused. Total in phone is 400.

5.6 Bluetooth

Service support: Hand free, headset and file transfer.

5.7 Multimedia

5.7.1 Video Recorder

Choose the Video Recorder and press the “OK” key to enter shooting mode. Press the “OK” again to pause or resume. Enter the options and perform the following operations:

- ✧ Setting: Quality, White balancing, Effect settings, Anti-flicker and Night mode
- ✧ Restore settings: Restore the default settings for

video recorder.

5.7.2 Video player

It will be show the video file list which has been saved on the T-flash card when you choose the video player from main menu. The default working directory is "videos".

Volume adjusting: Press "Up" or "#" to increase volume; Press "Down" or "*" to decrease volume.

5.7.3 Sounder Recorder

Choose the Recorder and press "OK", you will see the recording times updating. Press the function button on Options to perform the following operations: Record, Play, Append, Rename, Delete, list, Setting, and Set as ringtone.

5.7.4 Camera

Select "Camera" in Multimedia menu or press camera key in idle screen to enter into the preview mode. Press "OK"

key to get a picture, press "Options" to perform the following operations

5.7.4.1 Photo

Open the photo album

5.7.4.2 Camera settings

Cont.shot., Effect settings, White balance, Scence mode, Anti-flicker and Delay timer.

5.7.4.3 Image settings

Photo size (in support of 128*160/192*240/256*320 pixels), image quality and contrast.

5.7.4.4 Restore Default

Press "OK" to restore the default settings

5.7.5 Audio Player

Choose the Audio Player and press the "OK", then press "OK" or "play" key to start playing a MP3 file, If the Exit button is selected, the player will continue to play in current mode without being affected. Press the "backward" or "left" to back to the previous MP3. Press the "forward" or "right" to go to the next MP3. Press "Pause" or "OK" to pause playing. Press "Stop" key for stopping the playing.

Options menu: in the Options menu, you can select Play, Set as ringtone Refresh list.

Volume adjusting: Press "Up" or "#" to increase volume; Press "Down" or "*" to decrease volume.

Other settings: List auto gen, Repeat, Shuffle and background play.

5.7.6 FM radio

Select the "FM radio" menu from main menu, the FM radio will be power on automatically. Long press right key to

search the next channel; Long press Left key to search the last channel. Press "Up" or "#" to increase volume; Press "Down" or "*" to decrease volume.

More functions please see "options".

5.8 Organizer

With Organizer, you may perform the following operations:

5.8.1 Calculator

Press 0 – 9 to enter the number, and press # to enter the decimal point; Press +, -, × and ÷ to calculate; Press the "clear" key to remove the recent inputs or the result; Press "=" to get the result; Press "back" to exit

5.8.2 Calendar

This feature can remind you of your schedule with alarming clock or record your schedule. Use pen or press the left soft key to view the calendar of the currently set time. Touch the options to check the function of View Tasks,

Jump to date, Lunar Calendar.

5.8.3 To do list

You can add 10 lists at most. Set them as When and what will you do. You phone can remind you in time.

5.8.4 Alarm

The alarm is off by default. You may turn on it if required. Set the alarming time and alarming type as you wish.

5.9 Files manager

The save path is T-Flash memory card only. You can copy, move, rename or delete a file. View or playback the media file which is supported. You also can send file by Bluetooth to other phone.

5.10 Fun & Games

There is a game inside. For the details, see the game help.

5.11 Settings

5.11.1 Profiles

It is same with profiles in main menu.

5.11.2 Date and time

This function allows you to view and change the time and date set in your phone.

5.11.3 Display

This function allows you to change the wallpaper, LCD backlight time and brightness.

5.11.4 Phone settings

You can customize your mobile phone from options in this menu.

- Language: Used to set up the display language on the screen. Indonesian and English are available.
- Shortcuts: You can find some functions which are in common use, or reset the Dedicated key here.
- Auto keypad lock: If you set it on, the phone will enter to keypad lock mode when it idle for 30 seconds. Press left soft key, then press "*" quickly, keypad will be unlock.
- Input method settings: Set up the input method for the phone.

5.11.5 Call settings

- SIM call settings

This function allows you to set call waiting, call divert call barring, etc.

- Common all settings
 - ◇ Call time reminder
 - ◇ Auto redial
 - ◇ IP number
 - ◇ Answer mode

5.11.6 Network setup

- Network select: Search for and select the network for registry.
- Preferred network: Press OK-> Options to do the following:
 - ◇ Add from list
 - ◇ Create new
 - ◇ Change priority
 - ◇ Delete

5.11.7 Security setup

You can set up security options under this menu for your phone, to keep it or the SIM card from unauthorized use.

- **SIM lock:** Press On to require SIM card lock password during startup, otherwise the SIM card cannot be used; Press Off to dismiss SIM card lock password from the startup process. When setting, the correct PIN code is required.
- **Phone lock:** The correct phone password is required to open the phone or recover the factory settings
- **Change password:** First enter the old password, and then enter the new password twice.

5.11.8 Restore factory settings

After the factory settings are restored, some functions will be reset

Note: the default password is 1122

6 Troubleshooting

Before you call your customer service, please check the following steps. It may avoid you to lose your maintaining time and cost.

Problem	Possible Corrective measures
Telephone cannot be switched on	<ul style="list-style-type: none"> ■ Please take out and insert the battery once again then press power on.
Phone loses network	<ul style="list-style-type: none"> ■ The network connection has been lost. You may be in a weak signal area. Move and try again. ■ You are trying to access an option for which you have no subscription with your service provider. ■ Contact the service provider for further detail.
Display wrong information when the phone switch on	<ul style="list-style-type: none"> ■ Be sure the SIM card is in the right place; ■ The PIN code has been entered incorrectly three times in succession, and the phone is now blocked. ■ Enter the PUK supplied by your service

	provider.
The audio quality of the Call is poor	<ul style="list-style-type: none"> ■ Check the signal strength indicator on the display(Ant.) ■ The number of bars indicates the signal strength. ■ If you are in a building try to move closer to window side.
Usage time of battery becomes short	<ul style="list-style-type: none"> ■ Battery charge time is shorter, it may be due to the user environment, or large volume of calls, or weak signals
SIM card error	<ul style="list-style-type: none"> ■ Wipe the golden colored contact of SIM card with a clear soft cloth; ■ Be sure your SIM card is in a right place. ■ SIM Card damage , you will need to contact your service provider
You have entered a number but it was not dialed	<ul style="list-style-type: none"> ■ Be sure that you have pressed <send1/send2>. ■ Be sure that you have accessed the right network service. ■ Be sure that you have not set an outgoing

	<p>call barring option.</p> <ul style="list-style-type: none"> ■ Be sure that you have entered the area code.
Your correspondent cannot reach you	<ul style="list-style-type: none"> ■ Be sure your phone is switch on ■ Press power on for more than one second ■ Be sure that you are accessing the network service. ■ Be sure that you have not set a coming call barring option.
Charging error	<ul style="list-style-type: none"> ■ Make sure the ambient temperature is right, wait for a while, and charge it again. ■ Only use original accessories. ■ The battery is empty or has not been used for a long time. It may take a while before the battery icon appears on the screen. ■ Replace battery.
Cannot setting some functions	<ul style="list-style-type: none"> ■ Wrong operation ■ You will need to contact your service provider to apply the service.

If the above guidelines do not help you to solve the problem, take note of the model number of your mobile phone and a clear description of the problem. Contact your phone dealer or our service center for help.

7 Reference Information

7.1 Phone password

Default password for this mobile phone: 1122

7.2 Health and Safety Information

Please read the following instruction carefully and follow the rules in case causing dangers or violating laws.

- ◆ Power off near chemical plant, gas station or any other explosive.
- ◆ Keep children away from the mobile phone.
- ◆ Please use hand-free device (sold separate) while driving; Stop the car to make phone calls unless in emergency.
- ◆ Do not use mobile phone on the aircraft; Keep power off during the flight.
- ◆ Power off the mobile phone in the hospital or any place that the use of mobile phone is prohibited. Mobile

phone could interfere with electronic devices or medical devices such as heart pacemaker, hearing aids and some other electrical medical devices.

- ◆ Do not use accessories or spare parts that are not from the original manufacture, which are not qualified for warranty.
- ◆ Do not disassemble the mobile phone by yourself. If any problem occurs, contact the supplier.
- ◆ Do not charge the mobile phone without battery installed.
- ◆ Charge the mobile phone in environment that has good ventilation and radiation; keep the mobile phone away from flammable and explosive.
- ◆ Keep the mobile phone away from magnetic materials such as discs, credit cards and etc.
- ◆ Ensure the mobile phone not contact any liquid. If this situation occurs, please take out the battery and contact the supplier.
- ◆ Do not use the mobile phone in extreme high or low temperature environment; Keep the mobile phone away

from strong sunlight exposure or high humidity.

◆ Do not use liquid or wet cloth that contains strong detergent to clean the mobile phone.

◆ This mobile phone has built-in antenna. Please do not touch the antenna area (on top of the mobile phone, near the camera) if not necessary when power to ensure signal strength.

◆ This mobile phone can take pictures, videos and record. Please obey the related laws and rules to use these functions. Under some circumstances, this could violate the laws.

◆ The manufacturer will not be responsible for any lost due to pictures, videos and records are not taken, deleted or damaged caused by accessories or software when taking pictures, videos and records.

◆ Improper use of pictures, videos or records taken by the mobile phone could violate the rights of the copyright owner.

◆ If the malfunction is caused by downloading files contained virus while using the internet, the manufacturer

is not responsible for it.

◆ Do not install any damaged picture or sound files. If any malfunction is caused by this type of installation, the manufacturer is not responsible for it.

◆ Do not use battery or charger that are not from the original manufacture, which could cause potential risk. The manufacturer is not responsible for any compensation.

Notice: The user manual is based on operations and instructions in English Mode. It could be slightly different in Indonesian Mode.

Warning: The manufacturer is taking any responsibility if users violate the above suggestions.

Note: Please send the used Lithium battery to assigned locations or return to the manufacturer. Do not throw in garbage can.

7.3 Glossary Explanation

GSM	Global System for Mobile Communications
SMS	Short Messaging Service
SIM	Subscriber Identity Module
PIN	Personal Identify Number
PIN2	Personal Identify Number2
PUK	Personal Unblock Key
PUK2	Personal Unblock key2
IMEI	International Mobile Equipment Identity number

FCC RF EXPOSURE INFORMATION:**WARNING!! Read this information before using your phone**

In August 1986 the Federal Communications Commission (FCC) of the United States with its action in Report and Order FCC adopted an updated safety standard for human exposure to radio frequency (RF) electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies. The design of this phone complies with the FCC guidelines and these international standards. Use only the supplied or an approved antenna. Unauthorized antennas modifications, or attachments could impair call quality, damage the phone, or result in violation of FCC regulations. Do not use the phone with a damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result. Please contact your local dealer for replacement antenna.

BODY-WORN OPERATION:

This device was tested for typical body-worn operations with the back of the phone kept 1.5cm from the body. To comply with FCC RF exposure requirements, a minimum separation distance of 1.5cm must be maintained between the user's body and the back of the phone, including the antenna, whether extended or retracted. Third-party belt-clips, holsters and similar accessories containing metallic components shall not be used. Body-worn accessories

that cannot maintain 1.5cm separation distance between the user's body and the back of the phone, and have not been tested for typical body-worn operations may not comply with FCC RF exposure limits and should be avoided.

For more information about RF exposure, please visit the FCC website at www.fcc.gov

Your wireless handheld portable telephone is a low power radio transmitter and receiver. When it is ON, it receives and also sends out radio frequency (RF) signals. In August,

1996, the Federal Communications Commissions (FCC) adopted RF exposure guidelines with safety levels for hand-held wireless phones. Those guidelines are consistent with the safety standards previously set by both U.S. and international standards bodies:

<ANSI C95.1> (1992) / <NCRP Report 86> (1986) / <ICIMIRP> (1996)

Those standards were based on comprehensive and periodic evaluations of the relevant scientific literature. For example, over 120 scientists, engineers, and physicians from universities, government health agencies, and industry reviewed the available body of research to develop the ANSI Standard (C95.1). Nevertheless, we recommend that you use a hands-free kit with your phone (such as an earpiece or headset) to avoid potential exposure to RF energy. The design of your phone complies with the FCC guidelines (and those standards).

Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the phone and may violate FCC regulations.

NORMAL POSITION:

Hold the phone as you would any other telephone with the antenna pointed up and over your shoulder.

TIPS ON EFFICIENT OPERATION:

For your phone to operate most efficiently:

- Extend your antenna fully.
- Do not touch the antenna unnecessarily when the phone is in use. Contact with the antenna affects call quality and may cause the phone to operate at a higher power level than otherwise needed.

Vehicle mounted external antenna (Optional, if

available))

A minimum separation distance of 7.9 inches (20cm) must be maintained between the user / by stander and the vehicle mounted external antenna to satisfy FCC RF exposure requirements.

RF Exposure Information:

FCC RF Exposure requirements: The highest SAR value reported under this standard during product certification for use next to the body with the minimum separation distance of 1.5cm is 0.670W/kg, next to the head is 0.624W/kg. This transmitter must not be collocated or operating in conjunction with any other antenna or transmitter.

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: The manufacturer is not responsible for any
radio or TV interference caused by unauthorized
modifications to this equipment. Such modifications
could void the user's authority to operate the
equipment.

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

Do not use the device with the environment which below minimum -10°C or above maximum 50°C , the device may not work.

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.