

User's manual

Modle Name: X20

FCC ID:XUMPREX20

Welcome:

Thanks for choosing our bar digital mobile phone.

The phone provides you not only call function but also many other useful functions such as touchpad, smart Chinese and English input, phone contacts, 64-cord ring tone, camera, video recorder, movie player, music player, USB disk, T-flash card, sound recorder, calculator, timer switch on/off the phone, WAP Internet, loudspeaker, tactile screen, guard & trace, remote control, Mis SMS, Self help and so on in order to benefit your work and entertainment.

Read this user's manual, you can get a general understanding of the use of the phone. Note: There may be slight differences between the mentioned functions and the real product functions. Please refer to your handset for actuality. TIANYU reserves all rights to revise and change this user's manual without obligation to notify any person of such revisions or changes.

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For your safety

Read these simple guidelines. Not following them may be dangerous or illegal.



SWITCH OFF IN HOSPITALS

Follow any restrictions. Switch the device off near medical equipment. Do not use the device where blasting is in progress. Follow any restrictions.

Please keep this cell phone away from children, as they could mistake it for a toy, and hurt themselves with it.

Don't try to modify the phone except by the professional.

Warning!

Only use the authorized spare parts, otherwise it may damage the phone and the warranty will not work. And it may be dangerous.



SWITCH OFF WHEN REFUELING

Don't use the phone at a refueling point. Don't use near fuel or chemicals.



SIM CARD AND T-FLASH CARD BOTH ARE PORTABLE

Pay attention to these small things to avoid children eating them.

Notice: The T-Flash Card can be used as a Memory Disk, the USB cable is necessary.



BATTERY

Please do not destroy or damage the battery, it can be dangerous and cause a fire.

Please do not throw battery in fire, it will be dangerous

When battery can not be used, put it in the special container.

Do not open the Battery.

If the battery or the charger is broken or old, please stop to use them.



USE QUALITY EQUIPMENT

Use our authorized equipment or it will cause dangers



ROAD SAFETY COMES FIRST

Give full attention while driving; Pull off the road or park before using your phone if driving conditions so require.



INTERFERENCE

All wireless devices may be susceptible to cause interference, which could affect performance.



SWITCH OFF IN AIRCRAFT

Wireless devices can cause interference in aircraft. It's not only dangerous but also illegal to use mobile phone in aircraft.

Warning: Improper using will make warranty expiration.

1. Key Explanation

1. Left Key

Performs functions in lower left display.

2. Right Key

Performs functions in lower right display.

3. Call Key

- Make call
- Answer calls
- Press when idle to see the Call Logs.

4. End Key

End or reject calls; Press and hold this key to turn the phone on/off.

5. Up and Down Direction Key

- Scroll to select options
- In standby mode press to open corresponding applications
- In edit message status press to select needed word
- In function menu, scroll to open corresponding function

6. Left and Right Direction Key

- Scroll to select options
- In standby mode press to open corresponding applications
- In edit message status press to select needed word.

7. OK Key

- In standby mode, press End key + Call key to lock the phone.
- When the phone is lock, Press the Right key + Call key to unlock it.
- In standby mode, press OK key to open shortcuts functions
- Select and enter options.

8. 0-9 Keys

- In standby mode press number keys to input dialing number;
- In standby mode, press and hold 1-8 key to directly call the number set before, which is speed dial; In edit status, press to input numbers, characters and phonetic notation;
- In edit mode, except input number, press 0 key to input space;
- In functional menu, press number to speed select submenu.

9. * Key # Key

Functions vary in different situations or function menus:

- In inputting status, “*” for symbols.
- In inputting status, “#” to switch inputting methods.
- In standby mode, hold “#” to switch the phone in silent mode.
- In standby and dial mode, press and hold “*”, you can input +, P and W.
- In standby mode, input “+” for an international call; in dial status, input “P” for calling number with extension phone.

10.Side Key

- During a call, adjust headphone volume.
- When playing MP3, adjust MP3 volume.
- When there’s a call, adjust caller ring tone volume.
- In standby, press the top side to activate the camera.
- In standby press and hold camera side key to use flashlight.

2. Getting Started

Battery Install Notice

Before you install or change battery, please ensure you already turn off the phone.

Install or change SIM card Notice

1. Before you change SIM card, please make sure you already turn off the phone and dispose battery.
2. Open the SIM Card holder, insert the SIM card and make the golden contact area face down and the nick face out. When removing SIM card, please release the SIM card holder out first, then gently pull it out.

Warning: When charging, in order to avoid serious damage to phone circuitry, do not remove or dispose the battery.

Charge the battery

1. Before charge the battery, please make sure that the battery is installed properly in the phone.
2. Connect the charger lead to the phone socket, and then connect the charger to the AC socket.
3. If the phone is on when it’s charging, charging display will be on the screen. If the phone is off when it’s charging, user can use it while charging. When the battery is fully charged, the charging indicator on the screen is full and stops twinkling. The first time in use, please completely discharge and then completely charge the battery then use the phone again. The second time in use, you also need to completely charge the battery after it completely discharged, three time like this, your battery can achieve the full performance.
4. Long period unused or some other reasons may cause low battery pressure, so at the beginning of charging the screen is black and it may take a while before the charging indicator appears.

Warning: When charging, in order to avoid serious damage to phone circuitry, do not remove or dispose the battery.

Turn on/off the phone

1. To turn on/off the phone, press and hold the End Key.
2. If the phone asks for PIN code, please insert password (display****).

3. Calls

3.1 Make a Call

Making a call by dialing numbers:

1. In standby mode, enter the phone number. If you want to change the numbers, press left and right direction key to move the cursor and press the right key to delete a number. Press and hold the right key to delete all characters.
2. Press the call key to call the number. Press the left key to enter the options of IP dial, save, send message, send multimedia message, etc.
3. Press the end key to end the call or to cancel the call attempt.

Making a call using the Phonebook:

1. In standby mode, press the right key to enter the phonebook and use up and down direction key to choose; or input the needed letter (phonetic) to search, then use up and down direction key to choose. Press the call key to call.
2. You also can enter the phonebook list from functional menu, then search and call.

Call the Dialed calls, Received calls, Missed calls or Rejected Calls:

Speed dialing method:

1. In standby mode, press the call key to view the call log list, missed calls.
2. Use up and down direction key to choose and then press the call key to call.

Making a call using call logs:

1. In standby mode, press the left direction key to view the functional menu, press the direction key and choose Organizer; select Call History and press left key to open it.
2. Press up and down direction key to choose from missed calls, dialed calls, received calls and rejected calls
3. Press up and down direction key to choose the needed number and press the call key to make a call.

3.2 Answer an Incoming Call

1. Press the call key to answer an incoming call.
2. To adjust the volume, press up and down side key.

3.3 Call Option

This phone offers multiple functions during a call (most of these are internet services; you need to apply from the supplier first). During a call, following functions can be actualized if you operate according to the instructions on the screen. Press up and down direction key to choose the wanted function and press select key to enter.

- Hold: Pause the call.
- End: end the present call only.
- New call: ready to make a new call.
- Phonebook: the same as phonebook list in the functional menu.
- SMS: the same as SMS in the functional menu.
- Sound Recorder: enter record mode.

- Mute: Turn off the Microphone to make your voice not to be heard.
- DTMF (Dual-tone Multi-frequency): you can choose on/off; which is to send dual-tone multi-frequency sound, this can offer dialing to the telephone numbers with extensions.
- Conference: Enter multi-way conferencing, you can answer an incoming call and add new participants according to the prompt; Keep the ongoing multi-way conference; Have a private conversation while keep all the others on; Get through one participant with another one; Quit yourself from the conference; Keep one of the participants on; End current call and all the calls that are on hold.
- In call background
 - Status: on/off
 - Play Setup: volume (0-7).
 - Continuous Play/ Play Once (1-120sec)
 - Background Sound List: select background sound

4. Function Menu

4.1 Organizer

In standby mode, press left key to enter the functional menu. Scroll to Organizer using direction keys and press left key to select and enter its menu.

4.1.1 Calendar

After enter calendar functional menu, select different year, month and date using direction keys, you can do the followings to selected date:

1. Pending tasks: if there is special background color on a date which means there is some pending tasks on that day. When you add a new pending task, you can do the followings:
 - Input year, month, and day;
 - Input task duration time;
 - Edit a 100 characters words' note;
 - Set alarms on/off using left and right direction key;
 - Set alarm date using left and right direction key.

In pending tasks schedule menu, select pending task using up and down direction key, you can do the followings to selected task:

- Edit task: browse and select tasks options to make proper settings.
 - Add: add a new task.
 - Delete task: delete present task.
 - Delete all: delete all tasks on the same day.
 - Send vCalendar: save reminder through SMS, MMS, Bluetooth, or using save to file to an appointed location.
2. Jump to date: input the appointed date, and then press ok to enter its functional menu.

4.1.2 Alarm

There are five kinds of default alarms.

Press edit to enter alarm settings menu. Select edit option using up and down direction keys: In the first row, select alarm on or off using left and right direction key; in the second row, input alarm time; in the third row, press left and right direction keys to select alarm types which consists of one time, everyday and weekdays. In fourth row, press left or right direction key to choose sleepy time (1-10mins). When alarm type is customized, press down key->left key->left or right direction keys to choose day. In fifth row, press left or right direction key to change ring style. In sixth row, press left or right direction key to turn on/off the Shake Control: when it is on, once alarm rings, just a shake and it will stop ringing.

Once you have selected everything, press done and choose to save it. The other alarms are set up the same way.

4.1.3 To do list:

All pending tasks saved in calendar, please see “Calendar”.

4.1.4 Call History:

4.1.4.1 Missed calls

Press the up and down direction key to choose the item needed. After operation press the back key to go back to the previews menu.

4.1.4.2 Dialed calls

Press the up and down direction key to choose the item needed. After operation press the back key to go back to the previews menu.

4.1.4.3 Received calls

Press the up and down direction key to choose the item needed. After operation press the back key to go back to the previews menu.

In missed calls, dialed calls and received calls, press the up and down direction key to choose the items, then press the left key, then you can check every call, including its date, time, name (appears only if the name is saved), phone number and call times. In the checking, press the left key you can operate the present call which contains delete, save, call, IP dial, edit, send SMS, send MMS and add it to the Black List.

4.1.4.4 Rejected Calls

List the calls you rejected.

4.1.4.5 Delete Call Log

It's used to delete missed calls, dialed calls, received calls and all calls lists.

4.1.4.6 Call Time

This item contains operations to the call list as following:

1. Last call time: check the latest call duration.
2. Total sent: check the total duration of dialed calls.
3. Total received: check the total duration of received calls.
4. Reset all time: clear all the duration record.

4.1.4.7 Call cost

This item offers information about call costs.

1. Last call cost: check the latest call's cost.
2. Total cost: check all the calls' cost.

3. Reset cost: clear all the call units' record.
4. Max cost: you have to input PIN2.
5. Price per unit: you have to input PIN2.

4.1.4.8 GPRS counter

To check the last sent, last received, all sent and all received data amount. It can also reset the counter.

4.1.5 Sound warning (Unread SMS)

It can be set on/off, and interval for the warning can be 0, 1, 5 or 10mins.

4.1.6 Sound warning (Missed call)

It can be set on/off, and interval for the warning can be 0, 1, 5 or 10mins.

4.1.7 Time Speak (Chinese Only)

Your mobile provides a vocal clock..

Press the **Ok** Key to enter Time speak menu. Press Up, Down direction key to select the different settings to edit: First row: Press Left, Right direction key to set the function On/Off; Second row: Select the minute; Third row: Select the start time of this function; Forth row: Select the end time of the function.

Once settings are done, select **Done** and save.

4.1.8 Health

Record your own health conditions.

4.1.9 World Clock

Enter world clock to view the time in different city of the world by using the direction keys.

4.2 Business Zone

4.2.1 E-mail

It can send and receive E-mail, create new, check inbox, outbox sent, draft, cycle and mail setting.

4.2.2 Black List

- Mode: Choose between Function Off, Black List, Red List.
- Black List Number: Choose Individual, Group or Exclude PHB and set the numbers you want to add in Black List. All the numbers in the black list wont be able to reach you.
- Red List Number: Choose Individual, Group or Exclude PHB and set the numbers you want to add in the Red List. Only the number in the Red List will be able to reach you.
- Time Slitted: This function offers you two choices:
 - ◆ -All in black list: Select a time to activate the black list or the red list.
 - ◆ -Any number: Select a time during which any call can not reach you (black list enable) or all the call can reach you (red list enable)

- Message: Enable or disable this function: send a message to the numbers which have been rejected by the Black List Function. You can edit the content of the message. (Warning: The message sent is a common SMS and it may cost you money).
- If the message is set Off, it will not send message to the callers that have been blocked.

4.2.3 SMS Black List

Once this function is activated, it will automatically block SMS from the number or the pattern of the message.

- Mode: Enable or disable the function.
- Patterns: Edit the kind of pattern you want to block.
- Numbers: Select the numbers from which you don't want to receive SMS.

4.2.4 Self Help

Press left key to enter the menu and there will be following options:

- Self help status: on/off
- Send List: set contact as receiver of self help message.
- Sending message: edit self help message.

In standby mode, hold 0 key to turn on self help, then your phone will be in silent mode, send message to default receiver and answer call automatically.

4.2.5 Private Protect

Select Private Protect and press **Ok**, Input the password (default password is 1122), Press **Ok**, and enter the menu:

- Call Log Protect: On/Off
- Phone Book Protect: On/Off
- Message Protect: On/Off

The default password can be changed: Enter the menu then: Settings-Security Setup-Change Password-Phone Lock Password.

4.2.6 AntiSteal

Press left key to enter the menu and there will be following options:

- State: On/Off.
- Notify Number: Set a number that can receive SMS.
- Set Password: Reset the password.
- Help: Explanation of the AntiSteal Function

Once this function is activated, if your phone is lost and someone change the SIM card to use it, the phone will automatically send a SMS to the number previously set to tell you the new number used.

4.2.7 Remote Control

Enter Remote Control, and there will be the following menu:

- Remote-Controlled Function: Activate the remote control function for: Power Off Call Transfer, SMS Transfer, Fetch phonebook, Fetch SMS, Format storage, Delete Phonebook, Delete SMS or Delete Call Log.

- **Number**
 - Any Number: It is possible to control the phone from any number.
 - Fixed Number: Only the number that received the notification can control the phone.
- **Command Example:** Give an example of how to use this function and the different commands. When remote control is on, you can send SMS to control the phone. For example, "TYSMSRC123456POFF" is to turn off the phone. 'TYSMSRC' is the prefix of remote control, '123456', '123456' is the identifying code and 'POFF' is the command. The identifying code can be changed in the subsidiary menu.

Commands: (Hypothetical code 123456)

TYRC123456POFF	Turn off the phone
TYRC123456TCALL	Transfer call
TYRC123456TMSG	Forward SMS
TYRC123456GPB	Retrieve PHB
TYRC123456GMSG	Retrieve SMS
TYRC123456FDISK	Format
TYRC123456DPB	Delete PHB
TYRC123456DMSG	Delete SMS
TYRC123456DCALL	Delete Call Log

PS: the remote code must be the same as inquired, or it will not be executed.

4.2.8 InCallLeaveWord

You can set up an answering machine.

- Settings:

InCallLeaveWord: Open or Close

SetRingTimeBLW: Choose between 5, 10, 15, 20 seconds

SetLeaveWordTime: You can choose 1, 2, 3, 4, 5 minutes or no limit for the message time limit.

StorageOfLeaveWord: Choose to save the messages in your phone or in the memory card.

- LeaveWordList: List all the message you received.

- LeaveWordHintVoiceSet: Record the message you want to set on your answering machine.

4.3 Fun & Games

In standby mode, press left key to enter functional menu. Scroll to Fun & Games using direction keys, press left key to select and enter Motion Games, JAVA, Java settings, Games and Games settings.

4.3.1 Motion Games

Press left key to enter motion games and operate following options:

Start: start a new game.

Game Setting: Select the different settings.

Event Setting: Set relevant files.

4.3.2 Java

Press left key to select a game, and press again the left key to do the following options:

Launch: launch games. If you paused a game you will be able to choose between resume and terminate it.

Setting: set network access, auto invocation, messaging, multimedia, read user data, write user data.

Information: display JAVA name, size, version, vendor, website, authorized status.

(Note: User can download and install Java games on the phone.)

4.3.3 JAVA setting

User can set JAVA audio effect, JAVA vibration on/off and executing memory size

4.3.4 Games

Press left key to enter games, select one game and press left key to open it, you can do the followings:

- Resume: continue executing the game status of last leave.
- Start game: start a new game.
- Best Grades: list the high score list.
- Game Help: games rule instructions.

4.3.5 Games Settings

You can set the followings:

- Game Audio
- Game Vibration
- Volume

4.4 Phonebook

It can save name, numbers, groups and Email etc in a contact; SIM card can just save one number in a contact.

Note : the storage of SIM card is different.

In standby mode, press right key to enter the phonebook list. Press up and down direction key to choose the name, press call key to call the corresponding phone number, press right key to exit and back to standby, press left key to operate to the present name's record as followed:

- IP dial: Automatically add the IP number for the long-distance telephone.
- Send SMS: send a text message
- Send MMS: send a multimedia message
- View: view the detail information about chosen name.
- Add New Entry: Add a new Contact
- Edit: please see the Edit below.

- Delete: please see the Delete below.
- Copy: Copy the present record to another save location. From example: From SIM card copy to mobile phone, from mobile phone copy to SIM card.
- Move: Move the present record to another save location. From example: From SIM card move to mobile phone, from mobile phone move to SIM card.
- Duplicate: Copy the present record to the same save location. From example: From SIM card copy to SIM card, from mobile phone copy to mobile phone.
- Send vCard: It can be done through sending message, sending multimedia message or using Bluetooth. It also can be stored in mobile phone as file.

Except above functions, there are also some other operations. Enter the Menu, select Phone Book and you will be able to do the following functions:

- Quick search: please see the Search below.
- Search Entry: please see the Search below.
- Add new entry: please see the Add contact below.
- Copy all: copy a batch of record. From example: From SIM card to mobile phone and from mobile phone to SIM card.
- Import and Export: Import or Export a Contact file in .csv or .txt format.
- Delete: please see the Delete below.
- Caller group: please see the Caller groups below.
- Extra Number: set owner number and SOS numbers.
- Settings: View the Contacts state, set the Contacts default save location and other related functions like personalized ring tone.
- Caller Picture: Select a personalized picture for your contact.
- Caller Ring Tone: Select a personalized ring tone for your contact.
- Caller Video: Select a personalized video for your contact

4.4.1 Search

The Chinese name is sorted by phonetic characters. Number comes first, then English name and Chinese name.

This phone support following search methods:

➤ Quick Search:

- In present menu, press # to switch needed inputting method.
- While searching, input characters to find the numbers that satisfy the input.

For example: To search records named “张”, first check whether the inputting method is Smart Phonetics, then press 9 key four times to input Z you will find it. If search for English words begin with capital character “Z”, press # key to switch inputting language to abc, then 9 key four times to “Z”, you will find it.

➤ Search from phonebook function menu:

- In the Phonebook list, press up and down direction keys to search, press left key to select.
- In the edit menu, press # to switch inputting method or press right key to choose inputting method. After input name, press left key to search.

4.4.2 Add New Entry

In standby mode, press left key to enter the list of functional menu. Choose Phonebook then press OK to enter its functional menu, you can see add this new function option.

- In add to SIM card and add to mobile phone, press up and down direction key to choose the target save location for the new contact.
- **Note:** if add to SIM card, then the quantity of numbers will be different from different SIM cards.
- When screen displays add name menu, to view information about inputting method you can check “inputting method”.

When you input a fixed telephone number, please also input its area code. Then input related contents after specific icon as followed instructions:

First Row : Input and edit name;
Second Row : Input telephone number;
Third Row : Input home telephone number;
Fourth Row : Input company name;
Fifth Row : Input E-mail address;
Sixth Row : Input office telephone number;
Seventh Row : Input fax number;
Eighth Row : Birthday;
Ninth Row : Select image;
Tenth Row : Select short cut of video;
Eleventh Row : Select ring tone;
Twelfth Row : Select caller group;

Note: above contents are inputted when choose save to mobile phone. If you choose save to SIM card, you can only input name and a phone number but some SIM support caller group.

- After finish inputting an item, press up and down direction key to scroll to the next input item.
- After finish input, press left key to edit or to make changes to the input. After ensure the input, press left key to confirm or press right key to finish, while pressing left key can save the new record.
- Back to the Phonebook menu, pressing end key can return standby mode.

4.4.3 Delete

In standby mode, press left key to enter the phonebook functional menu, press left key to view the function option that contains delete option, choose to delete the present record. You also can clear all the records in both SIM card and mobile phone as followed operations:

- Enter phonebook in functional menu, press left key to select and view;
- Choose delete, then scroll delete options like from SIM card, from mobile phone and delete one by one;
- Press left key and input correct password to do delete operation.

4.4.4 Caller groups

In standby mode, press left key to enter the phonebook functional menu, press left key to select and view. Scroll to caller group using up and down direction key. You can edit for 5 default caller groups consists of friends, family, VIP, business and others respectively. Edit options contain ring tone, group image, group indicator, group video and group members. When it's done, press right key to finish, choose yes/no in save, then get back to caller groups' functional menu.

4.5 Messages

In standby mode, press left key to enter functional menu. Scroll to messages using direction keys. This function has six options: text messages, multimedia messages, chat, voice mail, information messages and voice messages.

4.5.1 SMS

1. In inputting methods, there are capitals, lowercase letters, intelligent capitals, intelligent lowercase letters, numbers, Pin Yin, intelligent Pin Yin, simplified strokes and inserting symbols 9 methods totally. You can also use the tactile screen to write each letter (if English) or word (if Chinese) of your text message.

2. When the cursor is in edit area, press right key shortly to delete the previous character; press and hold right key to clear all characters in edit area. Shortly press end key to return standby.

3. After you finish a message, press left key to do the followings options:

3.1 Done: after all items are finished editing, press the OK to do sending this message operation.

- Save and send: send and save this SMS into Outbox.
- Send only: directly send this SMS.
- Save: save this SMS directly into Outbox.
- Send SMS: Select the recipient directly from the Phonebook.
- Send to many: press select, add contact names you want to send to into the list, then press back and send. Like this you will send this message to all contacts that are in the list.
- Send by group: press select, choose the caller group you want to send to, the press back and send. Like this you will send this message to all contacts that are in this group.

3.2 Use template: there are 10 templates already, which can be edited again when writing a message.

3.3 Insert object: you can insert picture, my picture, predefined animation, my animation, melody, my melody and predefined sound.

3.4 Format Text: there are large, medium and small font sizes for message; there are Bold, Italic, Underline and strikethrough for font style; there are Justified, left, Center and Right for alignment; for a new paragraph, there are Justified, left, Center and Right four edit types.

3.5 Insert PHB number: you can insert numbers from the phonebook into the message.

3.6 Insert PHB name: you can insert names from the phonebook into the message.

3.7 Input method: select input method.

4.5.1.1 Inbox

This option lists received SMS (including read and unread messages).

Select a SMS using up and down direction key to read its content, sender number (or name) and sent date and time. If the content is too long, press up and down direction keys to page up and page down.

Press left key option, select following functions using up and down direction keys. Press left key to enter.

- Reply: reply present SMS.
- Delete: delete present SMS.
- Edit: edit message's content.
- Forward: include send, send to many and send to group.
- Copy to SIM card/ mobile phone: copy present message to SIM card/ mobile phone.
- Move to SIM card/ mobile phone: move present message to SIM card/ mobile phone.
- Chat: enter join message chatting.
- Delete all: delete all received messages in inbox.
- Delete SIM: Delete all the SMS on the SIM.
- Delete Phone: Delete all the SMS on the Phone.
- Copy all: copy all SMS (from SIM card to mobile phone, or from mobile phone to SIM card).
- Move all: move all SMS (from SIM card to mobile phone, or from mobile phone to SIM card).
- Use number: pick telephone number from message to call or save in the phonebook.
- Use URL: pick web address from message to connect.

After operations, press right key to get back to previous menu or press end key to return to standby.

4.5.1.2 Outbox

This option lists sent SMS (including saved and sent two kinds of messages).

- Scroll to a message using up and down direction key, press left key to select and enter to read its content. If the content is too long, press up and down direction keys to page up and page down.
- Press left key option, using up and down direction keys to do the following: send, edit, delete, copy to SIM card/ mobile phone, move to SIM card/ mobile phone, delete all, copy all, move all, use number and use URL. Press left key to do corresponding function operation.
- After finish the operations, press right key to get back to previous menu or press end key to return to standby.

4.5.1.3 Write message

It's used to create new SMS.

4.5.1.4 Templates

This phone contains 10 messages in common use, you also can edit by yourself.

Scroll between templates using up and down direction keys, press left key to select and enter edit-menu of selected templates.

You can choose between three options: edit, erase and write message.

4.5.1.5 Message settings

- Profile setting: it can set sending profile, in which you can edit file name, centre number, message period of validity and send format.
- Save sent messages: Choose whether to save or not sent SMS.
- Common setting:
- Delivery report: system reports to sender whether receive a message and received time.
- Reply path: this is supplied by message centre.
- Memory status: check message memory status on both SIM card and mobile phone.
- Preferred storage: set default save location (SIM card or mobile phone).
- Preferred bearer: you can choose prefer GPRS, prefer GSM or GSM only.
- SMS Sign: Add a signature to your SMS. You can set it On/Off, set the content and the place of the signature
- Auto Read SMS: Set Up the phone to Automatically read the SMS or Manually.
- Read SMS delete priority: On/Off

4.5.1.6 Message Export

You can export all the SMS from the Inbox or the Outbox.

4.5.1.7 SMS Counter

List the number of SMS Sent and Received. Select Reset to set it back to 0.

4.5.2 MMS

Multimedia message has to be supplied by network provider, before use please check whether your SIM card apply this service or contact the supplier. Your phone has multimedia messages function. After you choose system in use, you can send and receive multimedia messages. Select and enter multimedia messages functional menu, you will see create message, inbox, sent items, draft, templates and message settings.

4.5.2.2 Write message

It's used to add a new multimedia message.

- To: input recipient's information, telephone number or E-mail address.
- Cc: telephone number or E-mail address you want to copy to.
- Bcc: telephone number or E-mail address you want to intimately copy to.
- Subject: Enter the subject of your MMS.
- Edit content: you can insert text, pictures, sound and attach.

After edit a multimedia message, scroll to any part of multimedia messages using up and down direction keys: select edit to make changes, press finish options, select send to send a MMS, select save and send to send a MMS and save it into sent items, select save to draft to save a multimedia message into draft, select sent options to set MMS sending, select exit you will be asked save or not, select back you will get back to multimedia message functional menu.

4.5.2.3 Inbox

It lists all received MMS; you can check or delete the messages.

4.5.2.4 Outbox

It lists sent MMS.

4.5.2.5 Draft

It lists created but not yet sent messages' draft.

4.5.2.6 Templates

Default messages in common use.

4.5.2.7 Message settings

- Compose: editing settings.
- Send: sending settings.
- Retrieve: receiving settings.
- Filter: message filter conditions settings.
- Server profile: service provider settings.
- Memory status: check memory in use status.

4.5.3 Chat

It's used to chat by using messages; you can set two fixed chat numbers.

4.5.4 Voice mail

Voice mail is a service supplied by network provider; if you need this function please apply to the network provider. In voice mail functional menu you can set two voice mail numbers.

4.5.5 Broadcast messages

This function is supplied by network provider, please contact to your network provider.

4.5.6 Voice MMS

You can record a sound file, and then send it using multimedia.

4.6 Services

4.7.1 STK

SIM TOOL KIT. Need Operator support.

4.7.2 WAP

It needs service operator supports. If the operator and the network support it then you will be able to access to internet from your cell phone.

4.7.3 Data Account

Set up the internet functions.

4.7 Relax

4.7.1 Bluetooth

4.7.1.1 Functional menu instruction

In Bluetooth functional menu, you can do the following:

- Power: turn on Bluetooth or switch it off.
- Inquiry audio device: search for Bluetooth hand free devices like earphones or Bluetooth devices in car.
- My device: it's used to search for new devices and display connected devices' record. Press left key to operate options according to their function.
- Active devices: display devices in connecting.
- Settings: make corresponding settings to Bluetooth. For example, rename my device name, set shared file content and right and so on, default to set shared content is received.
- About: display my device name, Bluetooth device location and corresponding service offered.

4.7.1.2 Application

- Answer a call using Bluetooth earphone: First start Bluetooth on mobile phone, then press and hold Bluetooth earphone connect key, you will see the indicator glitter between blue red and blue green, select "Searching for hand-free devices", after search press left key to connect with Bluetooth earphone, then input Bluetooth earphone connecting password, start connecting after confirm, select "freeze", if success the phone will automatically turn on hand-free services, and now you can use Bluetooth earphone to answer calls.
- Listen MP3 using stereo Bluetooth earphone: Choose to use stereo Bluetooth earphone, connect it with mobile phone following the instructions above, select and enter "my devices" to view the new connected stereo Bluetooth earphone, s enter the Headset option, choose connect and select "A2DP profile", if success you can use Bluetooth to listen MP3. <Note>: Mono Bluetooth earphone which doesn't support A2DP service can not use this function.
- Data transfer among mobile phones: After start Bluetooth on this phone, select and enter "my devices", execute options-> "inquiry audio device", it can find devices which start Bluetooth functions presently, select these devices to connect, then both phones or devices will display a Bluetooth password inputting screen, both just input password, then make sure the two devices are connected, in "my devices"-> options-> "active" you execute "file transfer services", now both devices will display a require confirmation screen, if the other phone select accept file transfer, this phone will automatically switch to file browse page, in which you can download or do other operations to the files in the shared contents from the other sides' devices.

4.7.4 E-book Reader

Press left key to E-book menu and there will be following options

- Open E-Book: open an E-Book file.
- CleanUp bookshelf: refresh the E-Book files
- Settings: set the font style, size, page, auto scroll, scroll speed, full screen and encoding format.
- Book info: file title, size and format
- Delete E-book: delete marked file
- Delete all E-book: delete all E-Book files
- Sort: order files in format, name, time or size.
- Restore default setting: reset to default setting.
- Help: Help instruction.

PS:

1. Download: only supported format are TXT and PDB and save in the E-book folder
2. Please edit the setting before opening an E-Book file, or it will not be effective.

4.7.4 Slide Show

Choose slide show and press Ok to enter the file management. You can see the memory status in this menu. Press left key to do the following options:

1. Select: select is to search for the images in the folder. Open is to search the subsidiary folder's images. If images are available, you can go to following options:
 - Continue: continue playing images
 - Play: browse images in slide show.
 - Setting: set play mode, speed, effect, background sound, horizontal play and sound effect.
2. Open: open the folders. Default folders are Video, Audio, Photos, Received.
3. Create Folder: create a new folder, and go to following options: select, open, create, rename and delete.

4.7.5 English Study Machine (Chinese Only)

4.8 Multimedia

4.8.1 Image Viewer

Press up and down direction key to scroll images, press left key to do following options to the selected picture file:

- View: view selected image.
- Slide View: browse images in slide show.
- Image info
- Browse Style: choose images' browse style between list style and matrix style.
- Forward: Send present image to wallpaper, screen saver, power On/Off display, phonebook, MMS, e-mail and Bluetooth.

- Rename: edit the name of present file.
- Delete: delete present file.
- Delete All Files: delete all files in the image viewer.
- Sort: it can sort by name, by format, by date and by size.
- Storage: select whether you want to store your images in the phone memory or on the memory card.

4.8.2 Camera

In multimedia functional menu, press left key to select and enter image capture mode. Press left key to do following options:

- Album: view gallery folders.
- Camera Setting: in this functional menu, you can set the flash, the shutter sound, the EV, the banding, the delay timer and the continuous shot mode.
- Image Setting: default settings about image size and quality.
- White Balance: it can set white balance of the camera.
- Scene Mode: You can make settings about Auto and Night scene.
- Effect Setting: there are 14 kinds of effect including normal, grayscale, sepia, sepia green, sepia blue, color invert, gray invert, blackboard, whiteboard, copper carving, blue carving, embossment, contrast and sketch.
- Wall Paper Frame: add a frame to your picture.
- Storage: select whether you want to store your images in the phone memory or on the memory card.
- Restore default: Restore factory default settings.
- After finish above settings, in the image capture mode, press left and right direction key to adjust lighting and press up and down direction key to adjust focus, then press OK key to shoot.

4.8.3 Video Player

Press left key to enter video player. Scroll to a video file, press left key to do the following:

- Play: play present video file.
- Forward: send present selected video file to contacts, screen saver, power On/Off display, MMS, e-mail or Bluetooth.
- Rename: edit name of present selected video file.
- Delete: delete present video file.
- Delete All Files: delete all video files.
- Sort: it can sort by name, by format, by date and by size.
- Storage: select whether you want to store your videos in the phone memory or on the memory card.
- Setting: turn on/off screen auto roll-over.

4.8.4 Video Recorder

Press Ok to enter the video recorder; it's in video record mode. Then press option to do the following:

- To Player: display a video play list, you can choose to play one of them.
- Camcorder Setting: include 5 settings, white balance, LED highlight, EV, night

mode, banding.

- Video Setting: include 5 types of settings, video quality, file size limit, record time limit, audio recording and encoding format.
- Effect Setting: there are the same 14 kinds of effect settings as camera.
- Storage: select which memory to use for you files.
- Restore Default: Restore factory default setting values.

4.8.5 Audio player

Press left key to enter music player menu. Press Ok key to select a song files, then press left key to do the following:

- Play: play present music file.
- Detail: view present song's information.
- Add To Rings: add present song into ring tones .
- Add: after automatically create a new play list, select this option to add present music file in this play list.
- Remove: after automatically create a new play list, select this option to remove music file from this play list.
- Remove all: after automatically create a new play list, select this option to remove all music files from this play list.
- Settings: set properties for music player.
- While playing, press up direction keys to pause/play; press down direction key to stop; press left and right direction key to switch between songs; press left key to choose play list.

4.8.6 Sound Recorder

Press the left key to enter the Sound Recorder and the sound recorder list menu, scroll to new record to enter record mode; scroll to record list to view record files time and size. Press left key to do the following:

- Record: Record an audio file.
- Play: play present selected record.
- Append: do extra record to the present selected record.
- Rename: edit present record file's name.
- Delete: delete present record file.
- Delete All: delete all record files.
- Settings: do format settings for record files.
- Forward: you can choose to send to user profile, to MMS, to e-mail and to Bluetooth.

4.9 DIY studio

4.9.1 Image Tile

Set image for 2, 4 or 9 parts to one

4.9.2 Photo Artist

Process the photo with this software.

4.9.3 Melody DIY

Press left key to add a new melody. Use the numbers key to add notes, by pressing option; you will have the flowing choice:

1. Play: Play the melody you just created.
2. Play Speed: Select the play speed.
3. Select Instrument: Select what kind of instrument you want to use.
4. Save: Save the melody you just created.

If you select option in the Melody list, you will have the following choices:

1. Play: play marked music
2. Edit: edit marked music
3. Add: create a new music
4. Rename: rename marked music
5. Delete: delete marked music
6. Delete All Files: delete all DIY ring tones
7. Forward: send DIY ring tone to profile, MMS, e-mail, EMS or Bluetooth.

4.9.4 Draw Picture

Press left key to Add New, and press left key to do the followings:

1. Save: save it in phone.
2. Save as: save in an appointed folder.
3. Pen setting: set the size and color of pen.
4. Fill Background: more colors for background.
5. Mark: it can do the copy or paste operation in customized zone.
6. Zoom: zoom +/-
7. Resize: change the size of image.
8. Help: introduction for operation.

PS: support up to 5 images.

4.10 File Manager

In standby mode press left key to enter functional menu. Scroll to file manager using direction keys and press left key to select and enter its menu. In this functional menu you can view mobile phone memory in use and available memory.

Press left key option to enter functional menu, you can do the following:

- Open: see the files in the different folders of your phone.
- Add folder: create a new folder, which you also can operate such as open, create, rename, delete and sort.
- Format: format mobile phone or memory card.

4.11 Settings

In standby mode, press left key to enter the functional menu. Scroll to Settings using direction keys, then press left key to select and enter its functional menu

4.11.1 Switch Sim Card

Allow you to switch the SIM Card you are using. When switching, the cell phone will automatically close.

4.11.2 Tts Setting

- Menu Speaker: Select Open or Close
- Sms Speaker: Select Manual or Automatic
- Voice Level: Select the Volume of the Voice
- Voice Speed: Select the reading speed.
- Voice Effect: Select between None, Wander, Echo, Robert, Chirous, Under water, Reverb and Eccentric.
- Style: Select Normal or Vivid Style.
- Tone: Select Normal, Deep or High.

4.11.3 ASR Setting (only Chinese)

- ASR Enable: Activate or deactivate the function
- Command List: List all the commands available: (NAME), Phone Book, Phonebook Setting, Export PhoneBook, Tone Setup, Email, Self help, MSG Setting, Message Settings, Image Viewer, Camera, Video Player, Video Recorder, Audio Player, Sound Recorder, Slide Show, Image Tile, Photo Artist, RingComposer, Draw Picture, Calendar, Alarm, To Do List, Health, World Clock, JAVA, Games, E-Book Reader, File Manager, Calculator, Unit Converter, Currency Converter, Stopwatch, Time Setting, LANGSETTING, Preferred Input Methods, Display Characteristic, Disable Voice Recognition, Voice Recognition Setting, VOICECDMLIST, VOICECDMHELP, General, Meeting, Outdoor, Indoor, Call History, Power, Power Off, Torch And Tts Setting.

4.11.4 Pen Calibration

Help you to calibrate the touch-screen. Click anywhere on the screen to start the calibration.

4.11.5 Phone Setup

In this functional menu, you can do the following settings:

- Speaker Setting: Select to use 2 or 4 Speakers.
- Time and Date: you can make settings about time, time format and city located.
- Schedule Power On/Off: you can set four turn on/off time.
- Language: there are English and Simplified Chinese.
- Preferred input method: set default inputting language, which is inputting language when writing a message.
- Display characteristic: settings about wallpaper, wallpaper on bottom, screen saver,

power On/Off display, display date and time, display owner number and display network operator name.

- Greeting text: set and edit start-up welcome note.
- Speed dial: edit speed dialing status and number list.
- Shortcuts: set keys for corresponding shortcuts' function.
- Dedicated key: set corresponding shortcut function for up, down, left and right direction keys.
- Auto Update Date and Time: Activate or Deactivate this function.
- Themes: there are three themes you can choose from. Once select, you will change the functional menu's color.
- Flight Mode: you can select from normal mode, flight mode and query when power on.
- Handwriting: Choose the speed of the pen and the color.
- TV-out: set the Gamma Y, U, V, the output format and the audio output when you use the TV-out.
- Misc Settings: set up the Signal LED and the LCD backlight.

4.11.6 User Profiles

Profiles options: normal, meeting, outdoors, indoors, hand free, Bluetooth and Power Save.

These profiles are set before leaving the factory; you can change the settings through personal settings.

Select and enter personal settings menu, profile modification are as followed:

- Tones Setup: include settings about incoming call, alarm, Power On/Off, message and keypad sound.
- Volume: adjust ring tones and key sound volume using up and down direction keys.
- Alert Type: press direction keys to select, there are five types of ring: ring, vibrating only, vibrating and ring, vibrating then ring and light only.
- Intelligent Call Alert: when there is a call, a speaker will announce the caller numbers.
- Ring Type: select using up and down direction keys, there are 3 types: Single, repeat and ascending.
- Extra Tone: select using up and down direction keys, press on/off to set for: warning, error, camp on and connect.
- Answer Mode: you can set any key to answer. You also can set auto-answer when it's hand free mode.
- Status LED: select using direction keys; there are six colors to choose or you can turn off the LED.

4.11.7 Call setup

In this functional menu, you can do the following settings:

- Caller ID: set whether you want your number to be displayed to the person you are calling.
- Call Waiting: setting options include activate, deactivate and query status.

- Call Divert: according to users' requirement, divert calls in different condition.
- Call Barring: include outgoing calls, incoming calls, cancel all and change barring password. When you activate this option, you need to input the correct barring password; if you want to change password, you need to input old password. (please query to network supplier for password)
- Line Switching: you can switch between line 1 and line 2.
- Call Time Reminder: prompt during a call when the call time lasts for another minute, it's used to make the user know the call last time in any time.
- Call Time Display: display call time during a call.
- Auto Redial: when a dial fail, you can set whether to redial automatically.
- IP Number: select and enter its option to set IP dial on or off; edit default IP dial number.

Note: Some of these settings need network supplier's support.

4.11.8 Network setup

- Network Selection: search for network and register.
- Preferred Network: manually search for network you want to connect to.
- GPRS Connection: there are 2 types: connect when needed and always connected.

4.11.9 Security setup

You can set your phone security settings in this functional menu in order to avoid you phone or SIM card to be used illegally.

- SIM Lock: you need to input correct PIN code to turn on/off this function.
- Phone Lock: you need to input correct phone password to turn on/off this function.
- Auto Keypad Lock: in standby mode, if there is no operation during a time interval, the keypad will be locked. There are different time intervals: 5 seconds, 30 seconds, 60 seconds and 5 minutes.
- Fixed Dial: you need to input correct PIN 2 code.
- Barred Dial: you need apply to network supplier for this function.
- Change Password: you can change PIN, PIN 2 and phone password here. Before the change, you need to input the old password.

Note: the default phone password is 1122, please modify to your own password as soon as possible.

4.11.10 Sound effects

Equalizer: There are 7 kinds of sound effects to choose. When set sound effects, press left key to enter options and then you can set to the sound effects equalizer.

In call background sound:

- Select when make a call: turn this function on/off
- Playback Setting: choose the volume and the play mode
- Effect List: select the effect you want to use.

Audio 3D effect: 6 choices possible.

4.11.11 Restore Factory settings

Input the phone password, then you can restore factory settings value.

4.12 Toolbox

In standby mode, press left key to enter the functional menu. Scroll to Toolbox using direction keys, then press left key to select and enter its functional menu

4.12.1 Calculator

Press number keys 0—9 to input numbers needed to calculate, press “#” key to input dot, the right key is delete key;

Press up, down, left and right direction key to input $+$ 、 $M+$ 、 $-$ 、 $M-$ 、 \times 、 MC 、 \div 、 MR totally 8 kinds of operations;

Press right key to delete the latest input or result, press and hold it to clear all input and result;

Press OK key or left key to calculate result.

Note: this calculator has limit for number of digit, so if the number is indivisible, the result will be rounded.

4.12.2 Currency Converter

Input the Conversion Rate, press Ok and then enter the converter.

4.12.3 Unit Converter

You can convert Weight or Length. First select Weight or Length, press Ok, choose the unit you want to convert, input the number, press Ok and you will have the result.

4.12.4 Stopwatch

There are two stopwatch modes that we offer. Press left key to the following options.

- Typical: press left key to record time by timing and by interval. The saved records can be checked, partially deleted or all deleted.
- nWay: press left key to start to record each on independently.

4.12.5 Help

User Help Guide (Including Special functions, Use Techniques, Mobile Particularities and F.A.Q.)

4.12.6 System Info

Check the Memory Status of the Phone and the Memory Card, and the Memory Status of the PhoneBook and of the SMS

4.12.7 4.12.7 Extra Function

Turn On or Off the Flash Light.

Inputting Methods

1. Overview

Your phone offers input methods as followings: Multitap ABC, Multitap abc, numeric, smart Abc, Simplified Chinese strokes, smart Pin Yin totally six methods.

2. Keypad Definition

The definition of keypad is as follow:

Left key: Enter and OK

Right key: Back and Cancel

OK key: input marked word when edit in Chinese (Smart Pinyin and Stroke) or in English.

Press the key to enter the marked option and go to the SMS edit menu.

Navigate Keys: cursor move or choose word.

2-9 key: input the letter on the keys when input smart Pinyin or smart English.

1-5 key: input stroke on the keys when input stroke.

* Key: input punctuation

Key: switch input methods and a sign will be display in left side.

S 拼	Smart Pin Yin
笔	Simplified Chinese Strokes
S Abc	Smart Abc
ABC	Multitap ABC
abc	Multitap abc
123	Numeric

3. Inputting Methods Explanation:

3.1 Smart Pin Yin

In Pin Yin inputting, the keypad is defined as:

Key Name	Characters and functions	Explanations
Number 0 key	Input space	Pin Yin
Number 2 key	ABC	
Number 3 key	DEF	
Number 4 key	GHI	
Number 5 key	JKL	
Number 6 key	MNO	
Number 7 key	PQRS	
Number 8 key	TUV	
Number 9 key	WXYZ	

* key	Press * key for symbols	
# key	Switch inputting methods	
Up/down direction key	Move cursor up and down	
Left/right direction key	Move cursor left and right	
OK key	Select Pin Yin and words.	
Left key	Display options after editing a message	
Right key	Back	
Right key	Delete	

Pin Yin inputting steps:

- Input Pin Yin characters: 2~9 number keys for Pin Yin.
- Choose and select Pin Yin: Use up, down, left and right direction keys to choose, OK key to select, or press and hold number key to select candidate words, and press back to exit present inputting.
- Choose and select word: use up and down direction key to scroll and search, use left and right key to choose word, press OK key to select word.
- Edit inputted word: press up, down, left and right direction key to move cursor, shortly press right key to delete one previous word, press and hold it to clear the whole text.
- Switch input method: In editing status, press # key to switch inputting method among Capital characters, lower case characters, numbers, intelligent Capital characters, intelligent lower case characters, phonetics, traditional Chinese strokes, Pin Yin, Simplified Chinese strokes, intelligent Pin Yin and inserting symbols, there is prompt display on the left top of screen.

3.2 Strokes inputting

In strokes inputting, the keypad is defined as:

Key Name	Characters and functions	Example
Number 0 key	Input space	
Number 2 key	Horizontal, raise	
Number 3 key	Vertical, glyph	
Number 4 key	Cast aside,	
Number 5 key	Press down, dot	
Number 6 key	Break horizontal,	
* key	Press * key for symbols	
# key	Switch inputting methods	
Up/down direction key	Move cursor up and down	
Left/right direction key	Move cursor left and right	
OK key	Select words.	
Left key	Display options after editing a message	
Right key	Back	
Right key	Delete	

Strokes inputting steps:

- Use 1~5 number keys for inputting strokes; Press right key to delete previous one stroke.

- 6 key: Omnipotence key, it can be used for illegible search.

Choose and select words: Press up and down direction key to scroll for candidate words, press left and right key to choose, press OK key to select, press back to exit present inputting.

Edit inputted word: Press up, down, left and right direction key to move cursor, shortly press right key to delete one previous word, press and hold it to clear the whole text.

Switch inputting method: Press # key to switch inputting method, there is prompt display on the left top of screen.

Symbols inputting: press * key for symbols inputting.

3.3 Smart English

Smart English (En): Blank is 0 key, and all punctuations are on 1 key

Continuous input 844704702083790466304678806384631, there will be “This is a very good input method”, and then press OK to input.

Capital or not: press * key to switch all capital, initial capital and no capital.

Smart paired: when you press 4663, it will be “good, home, gone....” the phone will choose the right one according to the context.

Auto Spell: you just need to input some initial letters and it will be the whole letter.

Self study frequency: it will remember the words which are used frequently.

3.4 English characters’ and numeric’ inputting

In English characters’ and numbers’ inputting, the keypad is defined as:

Key Name	Characters and functions	Explanations
Number 0 key	Input space	
Number 1 key	1 and symbols in common use	
Number 2 key	ABC abc 2	
Number 3 key	DEF def 3	
Number 4 key	GHI ghi 4	
Number 5 key	JKL jkl 5	
Number 6 key	MNO mno 6	
Number 7 key	PQRS pqrs 7	
Number 8 key	TUV tuv 8	
Number 9 key	WXYZ wxyz 9	
* key	Press * key for symbols	
# key	Switch inputting methods	
Up/down direction key	Move cursor up and down	
Left/right direction key	Move cursor left and right	
Left key	Display options after editing a message	
Right key	Back	
Right key	Delete	
OK key	Enter send/save options	

English characters inputting steps:

- Every key is set to input multi characters. Fast repeatedly press the key until the character you want appears. Wait for the cursor to move and then input the next character.
- Press # to switch inputting method.
- Press right key to delete wrong input.

3.5 Handwriting

- Smart Pinyin: write in the touchpad and then there will be 9 choices for you to select what you want.
- English: write English letter in the touchpad to input English.
- Number: write number in the touchpad to input number.
- Symbol: there are some symbols in the screen bottom and it can be selected directly.

Note:

FCC RF Exposure Information and Statement

The SAR limit of USA (FCC) is 1.6 W/kg averaged over one gram of tissue. Device types X20 (FCC ID: XUMPREX20) has also been tested against this SAR limit. The highest SAR value reported under this standard during product certification for use at the ear is 0.813W/kg and when properly worn on the body is 0.306W/kg. This device was tested for typical body-worn operations with the back of the handset kept 1.5cm from the body. To maintain compliance with FCC RF exposure requirements, use accessories that maintain a 1.5cm separation distance between the user's body and the back of the handset. The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.

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.

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

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