

NEC

User Manual for
N5102
Mobile Phone

July , 2005

Summary

Welcome to select N5102 mobile phone. This instruction manual explains the excellent performance of N5102 mobile phone for details. Besides basic talking function, N5102 mobile phone and system network also provides you with multiple practical functions and services to facilitate your work and leisure activity.

N5102 mobile phone is specially designed for GSM900/1800/1900 network environment and is automatic double frequency mobile phone. With the trend that GSM is gradually becoming the standard of the communication system in the world , you will possess the free space for random communication in double frequency network.

We provides with multiple special fitting parts including charging battery and rapid charger for your selection in N5102 mobile phone, your can refer to chapter 14 of this instruction manual for the detailed description on these fitting parts. It is possible to result in danger if using fitting parts without permission from the providers, the resulted damage is beyond maintenance guarantee.

N5102 mobile phone has passed the network access test from the PRC Ministry of Information Industry, all indexes reach the requirements for national standard and acquire the “telecom device network access license” issued by the Ministry of Information Industry (license number :XX-XXXX-XXXXXX). you come across difficulty when using N5102 mobile phone, your can query and get help by national hot line consulting telephone (**800-8xxxxxx**) and after service telephone (**800-8xxxxxx**) set by NEC company.

NEC company reserves the right to modify the technical specification in this instruction manual without beforehand informing.

Explanation for reading manual

Different styles are used to describes different operation details in this manual, details are described as follows:

Operation	Content description	Example
Display content	Represent with normal character	0-9
General key	Except for function key, all keys are represented by normal character with frame	0-9
Function key	Function keys are represented with overstriking and frame	OK
Menu item	Represented by italics with black body	<i>keep alive</i>

Note: The pictures used in the manual are only used as the function illustration pictures, maybe your mobile phone displays differently, please take your mobile phone as the standard.

SAR INFORMATION

The SAR limit of USA (FCC) and Canada (IC) is 1.6 W/kg averaged over one gram of tissue. Device types N5102 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 0.065 W/kg and when properly worn on the body is 0.218 W/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.

CONTENTS

SUMMARY	I
SECURITY AND PERFORMANCE	7
1 START TO USE	11
1.1 BATTERY.....	11
1.1.1 <i>Battery disassembly and installation</i>	11
1.1.2 <i>Battery charging</i>	11
1.1.3 <i>Use for battery</i>	11
1.1.4 <i>Battery capacity indication</i>	11
1.2 CONNECTING NETWORK.....	12
1.2.1 <i>SIM card</i>	12
1.2.2 <i>SIM card insertion</i>	12
1.2.3 <i>Unlocking for SIM card</i>	12
1.2.4 <i>Connect to network</i>	12
1.3 IDLE SCREEN AND CONTENT.....	13
1.4 KEY	14
1.5 NUMBER AND CHARACTER INPUT	15
2 DIAL AND ANSWER TELEPHONE	17
2.1 TURN ON AND TURN OFF PHONE.....	17
2.2 DIAL PHONE	17
2.2.1 <i>Direct dialing</i>	17
2.2.2 <i>Dial telephone from telephone book</i>	18
2.2.3 <i>Rapid dialing</i>	18
2.2.4 <i>SIM card position dialing</i>	18
2.2.5 <i>Phone can not be called</i>	18
2.3 ANSWER CALL.....	18
2.4 DURING THE COMMUNICATION	19
2.4.1 <i>Adjust volume</i>	19
2.4.2 <i>Reject</i>	19
2.4.3 <i>New information</i>	19
2.4.4 <i>Answer new phone</i>	19
2.4.5 <i>Simultaneously answer two calls</i>	20
2.4.6 <i>Meeting communication</i>	20
2.5 EMERGENT CALL.....	21
3 MENU OPERATION.....	22
3.1 STRUCTURE OF MAIN STRUCTURE.....	22

3.2	SELECT MAIN MENU	22
3.3	OTHER SELECTION MODES	22
3.4	MENU FUNCTION TABLE.....	22
4	SETTING	24
4.1	PHONE.....	24
4.1.1	<i>Time and Date</i>	24
4.1.2	<i>Language</i>	24
4.1.3	<i>Side Key Lock</i>	24
4.1.4	<i>My Menu</i>	24
4.2	PHONE MODE.....	24
4.2.1	<i>Startup Mode</i>	24
4.2.2	<i>Personal Setup</i>	24
4.2.3	<i>Display Setup</i>	25
4.2.4	<i>Ring Selection</i>	25
4.3	CALLS	25
4.3.1	<i>Call Divert</i>	26
4.3.2	<i>Call Waiting</i>	26
4.3.3	<i>Auto Redial</i>	26
4.3.4	<i>Auto Answer</i>	26
4.3.5	<i>Flip Answer</i>	26
4.3.6	<i>Anykey Answer</i>	26
4.3.7	<i>Minute tone</i>	26
4.3.8	<i>Quick Dial</i>	27
4.3.9	<i>IP Code</i>	27
4.4	SECURITY.....	27
4.4.1	<i>Phone Lock</i>	27
4.4.2	<i>Bar calls</i>	27
4.4.3	<i>SIM password</i>	28
4.4.4	<i>PIM safety</i>	28
4.4.5	<i>Security mode</i>	28
4.4.6	<i>Modify password</i>	29
4.5	NETWORK SETUP	29
4.6	FACTORY SETUP	30
4.6.1	<i>Resuming Setup</i>	30
4.6.2	<i>Resuming the Factory Setup</i>	30
5	MY FAVORITE	31
5.1	MULTIMEDIA RESOURCE	31
5.2	RESOURCE UTILIZATION	31

5.3	VIDEOS.....	31
5.3.1	<i>My movies</i>	31
5.3.2	<i>Download</i>	31
5.3.3	<i>Storage status</i>	31
5.4	SOUND	32
5.4.1	<i>Download</i>	32
5.4.2	<i>Preset</i>	32
5.4.3	<i>Storage status</i>	32
5.5	PICTURES	32
5.5.1	<i>Photos</i>	32
5.5.2	<i>Download Picture</i>	33
5.5.3	<i>Preset Picture</i>	33
5.5.4	<i>Memory State</i>	33
5.6	MUSIC	33
5.7	MEMORY CARD.....	34
5.8	MULTIMEDIA CARD	34
5.9	JAVA BOX	34
6	MESSAGE	35
6.1	MESSAGE	35
6.2	ADD NEW	35
6.2.1	<i>SMS</i>	35
6.2.2	<i>MMS</i>	36
6.3	RECEIVE MESSAGE.....	37
6.4	READ MESSAGE.....	37
6.5	VIEW OUTBOX	39
6.6	VIEW SENT MESSAGES	39
6.7	DRAFTS	39
6.8	MY FAVORITES.....	40
6.9	QUICK TEXT	40
6.10	SETTINGS	40
6.10.1	<i>SMS setting</i>	40
6.10.2	<i>MMS setting</i>	41
6.11	VOICE MAILBOX.....	41
6.12	MEMORY STATUS.....	41
7	MONTERNET.....	42

7.1	MENU OF WAP EXPLORER IN THE OFFLINE STATUS.....	42
7.1.1	<i>Homepage</i>	42
7.1.2	<i>Bookmark</i>	42
7.1.3	<i>Go to URL</i>	42
7.1.4	<i>Go to the Last page</i>	42
7.1.5	<i>History</i>	42
7.1.6	<i>Offline browse</i>	42
7.1.7	<i>WAP settings</i>	43
7.1.8	<i>GPRS information</i>	43
7.2	MENU OF EXPLORER IN THE ONLINE STATUS	43
8	CHINA MOBILE IN	44
9	CUSTOMER SERVICE	45
9.1	SERVICE GUIDE.....	45
9.2	GoTONE CLUB	45
9.3	SERVICE HOTLINE	45
9.4	CUSTOMER MANAGER.....	45
9.5	MOBILE SECRETARY	45
9.6	MY MONTERNET	45
9.7	CLIENT SERVICE SETTING.....	45
10	PHONE BOOK	46
10.1	GROUPING OF PHONE BOOK	46
10.2	INPUT INFORMATION	46
10.2.1	<i>Edition window for inputting the text</i>	46
10.2.2	<i>Switch the input methods</i>	46
10.2.3	<i>Chinese spelling input law</i>	47
10.2.4	<i>Stroke input law</i>	47
10.2.5	<i>Intelligent English small letter input law</i>	48
10.2.6	<i>Intelligent English capitalization input law</i>	48
10.2.7	<i>English small letter input law</i>	48
10.2.8	<i>English capitalization input law</i>	48
10.2.9	<i>Number input law</i>	48
10.2.10	<i>Symbol input law</i>	49
10.3	NEWLY CREATE PHONE RECORD	49
10.4	COPY	49
10.5	MOVE	50
10.6	DELETE	50

10.7	DELETE MULTI-ITEMS	50
10.8	DELETE ALL	50
10.9	GROUPING	50
10.10	FIND	51
10.11	BLACK LIST	51
<i>10.11.1</i>	<i>Dnable operator</i>	<i>51</i>
<i>10.11.2</i>	<i>Set name list</i>	<i>51</i>
<i>10.11.3</i>	<i>Service time</i>	<i>52</i>
<i>10.11.4</i>	<i>Rename</i>	<i>52</i>
10.12	MY NUMBER	52
10.13	MEMORY STATUS	52
10.14	PHONE LIST	52
10.15	SAVE TELEPHONE NUMBER	52
11	ACCESSORIES	53
11.1	CAMERA	53
<i>11.1.1</i>	<i>Setting</i>	<i>53</i>
11.2	TOOLS	53
<i>11.2.1</i>	<i>Alarm</i>	<i>53</i>
<i>11.2.2</i>	<i>Alarm on</i>	<i>54</i>
<i>11.2.3</i>	<i>Alarming</i>	<i>54</i>
<i>11.2.4</i>	<i>Scheduler</i>	<i>54</i>
<i>11.2.5</i>	<i>Function description</i>	<i>54</i>
<i>11.2.6</i>	<i>Calendar</i>	<i>55</i>
<i>11.2.7</i>	<i>Select date</i>	<i>55</i>
<i>11.2.8</i>	<i>Add scheduler</i>	<i>55</i>
<i>11.2.9</i>	<i>Scheduler list</i>	<i>55</i>
<i>11.2.10</i>	<i>Storage state</i>	<i>56</i>
<i>11.2.11</i>	<i>Notebook</i>	<i>56</i>
<i>11.2.12</i>	<i>PowerWord</i>	<i>56</i>
<i>11.2.13</i>	<i>Calculator</i>	<i>56</i>
<i>11.2.14</i>	<i>Stopwatch</i>	<i>56</i>
<i>11.2.15</i>	<i>Countdown</i>	<i>57</i>
<i>11.2.16</i>	<i>Currency exchange</i>	<i>57</i>
<i>11.2.17</i>	<i>Worldwide clock</i>	<i>58</i>
11.3	GAMES	58
<i>11.3.1</i>	<i>Java</i>	<i>58</i>
<i>11.3.2</i>	<i>Games</i>	<i>58</i>
11.4	CONNECTION TOOLS	59

11.4.1	<i>Document transmission</i>	59
11.4.2	<i>Internet services by GPRS</i>	59
12	CALL RECORD	60
12.1	MISSED CALLS	60
12.2	ANSWERED CALLS.....	60
12.3	OUTGOING CALLS	61
12.4	CALL DURATION	61
13	COMMON SYMPTOMS	62
14	ACCESSORY	63
15	MAINTENANCE GUIDELINE	64

Security and performance

◆ Emergent service

In any nation, if wanting to dial emergent telephone, then you can directly dial 112 (or other emergent service telephone), you must confirm your mobile phone power is on and is within the service region, then input the emergent service number (112 or other numbers) and press “send” key to call telephone.

In any digital network , 112 emergent telephone service is set. In England you can also use 999 backup emergent calling number, but you must insert valid SIM card.

⚠ Note: Because of the natural property of the cell network, it can not be ensured that each emergent call can be successful.

Individual

- ◆ When using the radio device including mobile phone, it is possible to have some disturbance on some medical devices with bad shielding performance, such as hearing aid and heart pacemaker. Before using the mobile phone, please consult with the provider of the medical device or your doctor.
- ◆ For the user with heart disease, the ring sound volume and setting for vibration reminder should be especially noticed.
- ◆ In the places where explosive gas exists, such as oil warehouse, chemical factory or explosive production process, the use limits for radio device should be closely noticed. When your mobile phone is idle, it still emits electromagnetic signals. If having some requirements, you should close your mobile phone.
- ◆ The transportation security should be noticed. When driving, the mobile phone should not be used , if using it, it is suggested to stop first.
- ◆ When your mobile phone is lost or is stolen, please immediately inform the telecom department to prohibit the SIM card from using. It will make you free from the economic loss caused by other pseudo calling.
- ◆ When you contact with telecom or sales place , they should know your IMEI number of your mobile phone, which is printed on the label of mobile phone back (remove battery , then you can find it). Please record the number and keep it properly for use in future.
- ◆ To make your mobile phone not be misused, please adopt prevention measures, such as : set SIM card PIN number or personal security code of the mobile phone.
- ◆ When leaving from the car, please place the mobile phone at the obvious position, it is better to carry it or lock in the baggage case.
- ◆ It is not allowed to make the child play with the mobile phone, charger or battery.

Mobile phone

The mobile phone includes precise electric wiring, magnet and battery system, which should be dealt with carefully, especially notice the following important items:

- ◆ Your mobile phone can produce electromagnetic field, please do not place the magnetic storage media such as computer disk near to the mobile phone.
- ◆ When using the mobile phone near to the electric devices such as TV, telephone, radio and personal computer, which maybe can produce disturbance and affect performance of the mobile phone.
- ◆ Whenever, please do not make the mobile phone and its fitting parts contact with liquid or under the

wet environment.

- ◆ Please do not place the mobile phone in the environment with over-temperature or under-temperature.
- ◆ Please place the mobile phone near to the flame, lighted cigar or cigarette.
- ◆ Please do not scrabble on the mobile phone.
- ◆ Please do not make the mobile phone drop or any rude beating behavior on the mobile phone.

Please do not put the mobile phone together with computer magnetic disk, credit card , tour card or other magnetic material. Or stored information in magnetic card or credit card is affected by the mobile phone.

- ◆ Please do not place the mobile phone or battery at the position with the temperature beyond 60°C, such as the car instrument panel, window or back of the glass window with direct shining.
- ◆ Please do not try to disassemble the mobile phone or any other attached part.

Only a little wet or anti-static cloth can be used to wipe the mobile phone. Please do not use dry or static cloth to wipe the mobile phone. Please do not use the cleanser with chemical reagent or blasting sand, or the cleanser will damage the shell of the mobile phone.

- ◆ Some heat will be produced when a mobile phone is used normally, heat will also be produced when a mobile phone is charging.
- ◆ Please remember to recycle , the bandbox package for the mobile phone is very suitable for recycle.
- ◆ Please do not make the mobile phone in a status with empty battery or empty battery capacity, or some data may be initialized.
- ◆ Some mental material included in the mobile phone may make you allergic, which is determined by your physical body and health condition.
- ◆ Please do not put the mobile phone in the pocket of the trousers or rear skirt to prevent from damage on the mobile phone when seating. At the same time do not put the mobile phone at the bottom of the pocket to prevent from impact or strong extrusion.
- ◆ If vibration alert starts, please make the mobile phone far from heat sources (such as heater) and prevent from the vibration of the mobile phone and sliding from the desk top.

Battery

- ◆ Please do not make the batter device short circuit, which will make damage on the battery , produce heat and even may cause fire.
- ◆ The battery is prohibited to throw into the fire for prevention from explosion. The discarded old battery should be returned to the provider, or be placed at he specified recycle site, do not put them into the home waste.
- ◆ Please do not make the metal, such as coin or key ring, contact with end point of the battery or short circuit.
- ◆ Please do not remove the mobile phone's battery when the mobile phone is on.
- ◆ Please do not put the mobile phone's battery into the mouth, because if swallowing it, its electrolyte will result in poisoning.
- ◆ An embedded battery in the mobile phone can only be replaced by the professional engineer. If using the battery with mistaken type to replace, it is possible to result in explosion. Please process used battery according to provider instruction.
- ◆ When using any battery and charger which is not specified by the provider , potential danger exists. The resulted damage on the mobile phone is beyond the maintenance guarantee.

Note:

If the battery is damaged, the material included in the battery should be prevented from contact.

If contacting with the skin, it should be washed off with plenty of water, under the necessary condition, it is necessary to get help from a doctor.

On the road

- ◆ The car must be securely controlled all along, please pay attention to driving.
- ◆ Please abide by all regulations in the local transportation security regulation.
- ◆ Before sending and answering phone, you should closely notice local law system on use for wireless phone and pay attention to it when using.
- ◆ According to the requirements for driving condition, please send or answer call after stopping.
- ◆ Except for emergent condition, it is prohibited to stop at the side of the road for receiving or dialing the phone.
- ◆ Security air chamber, brake, speed control system and oil ejection system are not affected by the wireless transportation. If you come across some problems, please contact with car franchiser.
- ◆ When the security air chamber swells, it will produce strong external force, please do not install or place wireless communication device above the security air chamber or within the area which can be contacted when the security air chamber extends, if the car wireless communication is not installed correctly, once the security air chamber swells, it will result serious damage.
- ◆ When renewing petroleum, please turn off your mobile phone, same case can also be applied to the place where the double wireless device is prohibited to be used. Please do not put the flammable and explosive substances together with the mobile phone or carry together with them, internal spark may result in combustion.
- ◆ The electronic system in the car, such as reverse lock brake, speed control and combustion ejection system, generally they are not affected by the wireless wave. The provider of those devices will tell whether those devices have good shielding function. If you have doubt that whether the wireless wave results in car's failure, please contact with the franchiser. Before the quantified professional installer checks, please do not disassembly the mobile phone.

On the plane

- ◆ When on the plane or near to the plane, please turn off the mobile phone and take off the battery. The behavior to use the mobile phone on the plane is illegal, which may result in danger for the plane operation, may also damage the mobile phone network. The violator may be paused or cancelled for the mobile phone service, even he can be prosecuted, or answer double punishment.
- ◆ Under the emergent condition, after the aircrew personnel agreement according to security regulation, it is allowed to use the mobile phone.

Other providers' device

- ◆ If using the devices, cable or attached parts from the other providers without NEC production or authorization, it is possible to result in invalidation for maintenance guarantee, moreover, it has also influences on the normal use for the mobile phone. It is obligatory to use NEC cable.

Maintenance service

- ◆ No parts in the mobile phone, battery and charger can be repaired by users. It is suggested to bring your NEC mobile phone to the maintenance site authorized by NEC for maintenance. When you think it is necessary to ask for maintenance service, please consult with the network service provider or NEC for details.

Non-ionic radiation

- ◆ A wireless device should connect to the antenna by the non-radiation cable (coaxial-cable). The

antenna should not be installed near to the person body, except that metal shielding exists between both of them, such as metal roof. The antenna specially designed for this mobile phone can be used. The antenna without authorization and attached parts refitted or added by users can damage the mobile phone or violate the related regulations, which result in performance reduce or radiation which does not conform to related standards.

Effective use

- ◆ To acquire the best performance with the least power consumption, please notice the following regulations: when talking, please do not use the hand to cover the embedded antenna, or which may affect the communication quality, result in the mobile phone's work with the output power beyond the normal standard and shorten the battery's communication duration and idle duration.

Radio energy

- ◆ Your mobile phone is wireless transmitter and answer with low power. Once the mobile phone is turned on, it will answer and transmit wireless signal intermittently. The network system will control the transmitting power of the mobile phone.

Electromagnetic radiation

Your mobile phone completely conforms to the standard on the wireless radiation formulated by the nation authoritative organization and international health associate. These limitation standards are a part of the comprehensive rule and are composed of permitted standard for public wireless radiation. These standards are formulated after the independent scientific organization ICNIRP (International Commission on Non-ionizing Radiation Protection) has conducted on long-term and deep scientific research. These limiting standards contain much security tolerance and ensure all person security, no matter what the age and health status, they also consider the changeable factors for various kinds of measure condition.

Copyright permission

- T9™ text input and T9 mark is the registered mark for Tegic Communication.
“The authorization for T9 text input is as follows:
U.S.patent number :5,818,437,5,953,541,5,187,480,5,945,928,6,011,554 and 6,307,548; Australian patent number: 727539; Canada patent number: 1,331,057; England patent number:2238414B; Hongkong patent number: HK0940329; Singapore patent: 51383; Europe patent: 0 842 463 (96927260.8) DE/DK,FI,FR,IT,NL,PT,ES,SE,GB; Korea patent: KR201211B1 and KR226206B1; The patent for other nations are in the application process.”
- Execution standards for mobile phone and its attached parts production
Execution standard for mobile phone: Q/NM 005.
Execution standard for battery: GB/T 18287-2000.
Execution standard for charger: YD/T 998-1999.

To continuous improvement for the product, the mobile phone type and attached parts' specification may be modified partly or completely, please forgive not to inform for it.

If the content described in this manual does not conform to your mobile phone, please take your mobile phone as the standard.

NEC possesses the right to give the final explanation fro this instruction manual.

NEC reserves the right to modify the technical rules and give no beforehand informing.

NEC reserves the right to modify this manual, forgive not to be informed additionally .

The provider reserves the right to modify the product technical rules without beforehand informing.

1 Start to use

Before using the mobile phone , please read this chapter. The chapter will tell you how to install, charge and maintain your mobile phone's battery. It also tells you information on the GSM network and instructs you how to insert and unlock SIM card. The detailed information on it will be stated in the chapter.

1.1 Battery

- The mobile phone contains one battery. When purchasing the battery , the batter is not charged, but it may support to turn on the phone. A new batter should be charged for at least 16 hours, after the battery is used up for the first time, then it is charged fully for use; it should also be used up for the second time, then it is recharged, after the three times circulation, the battery is easy to reach the best use state.

1.1.1 Battery disassembly and installation

- When dissembling, make the mobile phone back face upward, press the back cover's battery lock button at the bottom of the mobile phone, then slip the back cover downward and take off the back cover. Pull the tail of the battery upward and take out the batter.
- When installing, insert the clip at the top of the battery into the corresponding clamping slot in the phone and press the battery downward. Then it is ok to install the phone's back cover.

1.1.2 Battery charging

- Insert the joint of the charger into the bottom of the mobile phone.
- Insert the charger into the power supply. At this time, a mark standing for charging will appear and means the battery in the charging.
- When the charging mark is still (and prompt charging is finished) , then which means the charging is finished. During the charging, the battery, mobile phone and charger will become heated, which is normal phenomena.
- After the charging is finished, turn off the power supply and pull off the charger.

Warn:

When charging, the phone must be placed at the ventilated site with the temperature between +5°C and +40°C and must use the charger provided by the provider. When using the charger without permission, it is possible to result in danger, moreover which violates the permission and maintenance guarantee terms for the mobile phone.

The regulate charging temperature range is from 0°C to 45°C , if it is beyond the range, please do not use the charging device.

1.1.3 Use for battery

The phone idle duration provided by the provide is based on the ideal work environment. In the practical use, the battery work duration will vary with the different network state, work environment and use mode.

1.1.4 Battery capacity indication

When the mobile phone is in power on mode, the battery capacity level displays at the right and top corner of the screen. The residual power capacity is represented by four levels of indication bars.

1.2 Connecting network

1.2.1 SIM card

Your network provider will provide you with a insertion SIM card(user identification card). SIM card is the key for you to enter the GSM network. **Before using the mobile phone, you must insert valid SIM card into the mobile phone.**

All information records related with network connection are in the SIM card, also including name, telephone number and short message in the card. SIM card can also be take off from your mobile phone and insert into any GSM mobile phone for use (new mobile phone automatically reads SIM card.).

To prevent from loss and damage on the information in the card, please avoid touching on metal plane area and put the SIM at the site far from current and magnetism.

Warn:

Before taking out SIM card, the mobile phone must be turned off. It is absolutely prohibited to insert into or take out SIM card when connecting to external power, or SIM card may be damaged.

1.2.2 SIM card insertion

Generally SIM card is put into a card, before installation, it must be taken out carefully.

- Turn off the mobile phone and remove the battery and other external power.
- Insert SIM card into the bottom of the connection card and ensure the metal plane is downward and corner position is same to clamping slot corner;
- Push SIM card , lock SIM card and install the battery;
- If you need take out SIM card, please first turn off mobile phone and take out the battery, then remove SIM card.

1.2.3 Unlocking for SIM card

To prevent from illegal use, SIM card adopts PIN (personal identification number) code to encrypt for protection. When selecting to use this function (refer to 4.4 chapter), when you turn on the mobile phone each time, you must input PIN code, so you can unlock SIM card , then you can send or answer calls. A user can also remove SIM card protection.(refer to 4.4 chapter)

- Long press **Pwr** to turn on the mobile phone:;
- Input PIN code, press left function key to confirm. For example: if PIN is set as 1234, then input as follows:

1 2 3 4 confirm

If you input wrongly for continuous three times, then your SIM card will be locked, the mobile phone will query PUK code. Please refer to 4.4 chapter.

Especially note:

Your network operator will set a standard PIN number (from 4 bits to 8 bits) for your SIM card, you should change it to your private password as rapidly as possible.

1.2.4 Connect to network

After SIM card is decrypted successfully, the mobile phone will search your registered network or local

available network automatically(display “network is connecting, please wait for a while” in the screen). Once connection is successful, the network mark for the network operator will appear at the top of the screen.

Currently your mobile phone is in idle state, you can send or answer calls.

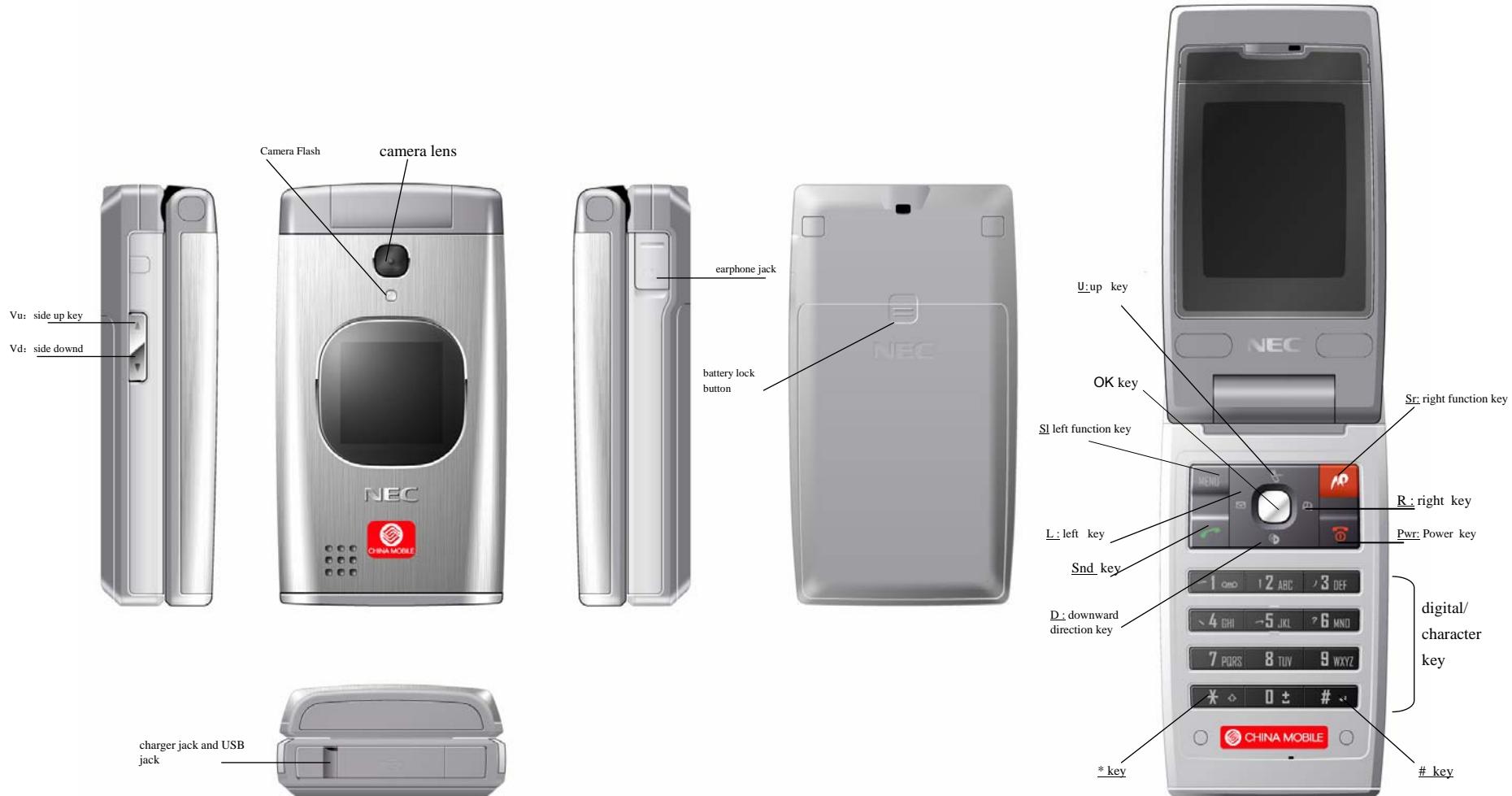
1.3 Idle screen and content

You can get your needed information by indication and mark in the idle display screen.

	Indicate current signal intensity
	Indicate current connected GPRS (related with SIM card)
	Indicate new message
	Message memory is full
	Indicate calls which are not answered
	Mobile memory is full
	SIM card memory is full
	Wap push information is full
	Current scene mode is meeting mode
	Current scene mode is outdoor mode
	Current scene mode is ring silencer
	Current scene mode is self-defined mode
	Set Call diversion
	Set CSD connection
	Start security mode
	Indicate alarm clock to ring
	Indicate event reminding time to come
	Indicate calls which are not answered
	Indicate non-read message
	Indicate residual capacity of battery
2005/01/02[日]	Indicate current date is Sunday, Jan 2, 2005.
22: 22	Indicate current time, it can be set as 24 hour or 12 hour format
China mobile	Indicate network operator
MENU	Indicate current left function key is menu

1.4 Key

The function indexes for keys are illustrated as follows:



Left function key(Sl)	Confirm, select, pop up menu , switch input method in the editing state
Right function key (Sr)	Cancel, delete , exit, China mobile service, long press to activate WAP
Up key(U)	Move up , scene mode, press shortly to launch or close meeting mode
Down key(D)	Move downward, my favorites
Left key(L)	Move to left, message
Right key(R)	Move to right, phone book
Side up key (Vu)	When answering a call, press shortly Quick Silence; during call, press shortly Volume Up; when in an idle state, press shortly and enter a window for adjusting ring volume
Side down key (Vu)	When answering a call, press shortly Quick Silence; during call , press shortly Volume down; when in a idle state, press shortly and enter a window for adjusting ring volume
Send key (Snd)	Dial, answer call, when in a idle state, press Snd key to enter the dialed call list
Power key(Pwr)	Power on an power off, Stop Dialing, terminate(return to idle screen)
key()	When in a idle state, press long to launch or close keyboard lock key
#key(#)	In a editing state, press shortly to activate input window
0-9	Input number or text, when in a idle state, press long to quick dial (need set); in the menu mode, press corresponding function number key to enter corresponding function
OK key	Confirm and enter my menu window
0	When in main menu, press 0 key to enter own number window
1	When in a idle state, press long to enter voice box, in main menu mode, enter setting window
2	When in main menu mode, enter my collection window
3	When in main menu mode, enter information window
4	When in main menu mode, enter mobile dream window
5	When in main menu mode, enter China Mobile service window
6	When in main menu, enter client service window
7	When in main menu mode, enter phone book window
8	When in main menu mode, enter accessory window
9	When in main menu mode, enter communication recording window

When the indication information including alarm clock ring, event reminding time to come, non-answered call and message (including WAP PUSH information) in the idle screen appear, the screen will display related icons(refer to 1.3 chapter for idle screen content), at this time, press **OK** key to select menu, press direction key to select information needed to watch, press **OK** again to watch selected content. Press **OK** key long to enter my menu window, you can set menu item in the my menu by the operation step “setting→mobile phone setting→my menu”. When no information indication in the idle screen, press **OK** key to enter my menu window. When only an information icon, you can directly watch.

Note:

In this manual, “press X key” means to press key and then loosen; “press X key long” means to press X key and keep for over 1 seconds , then loosen it.

1.5 Number and character input

Key	Capital character	Lowercase character
1	1 , ; : ? ! ()	1 , ; : ? ! ()
2	A B C 2	a b c 2
3	D E F 3	d e f 3

4	G H I 4	g h i 4
5	J K L 5	j k l 5
6	M N O 6	m n o 6
7	P Q R S 7	p q r s 7
8	T U V 8	t u v 8
9	W X Y Z 9	w x y z 9
0	. 0 -	. 0 -
*	*	*
	Switch capital and lowercase input	Switch capital and lowercase input
#	Activation symbol input window in editing state when setting phone book, pressing long, “P” appears, then automatically switch to extension	# Activation symbol input window in editing state when setting phone book, pressing long, “P” appears, then automatically switch to extension

2 Dial and answer telephone

After the mobile phone is set, you can dial or answer phone. This chapter will provide with all basic information needed by you.

Note: When dialing and receiving call, the phone searches matched name in the phone book, for the phone number, it only judges whether the last 11 numbers of the number is same, for other number, it only judges whether the last 7 numbers of the number is same.

2.1 Turn on and turn off phone

1. Press **Pwr** key long to turn on phone, the starting animated picture appear.
2. If requiring to input PIN code, please refer to 1.2.3 chapter.
3. In the power on state, press **Pwr** key long to turn off phone.

2.2 Dial phone

When the mark for network operator appears in the display screen, then phone enter the idle screen, you can dial or answer calls. The information bar at the left and top corner of screen displays network signal intensity (four signal bars mean the strongest signal). The barrier has great influence on the communication quality, so if moving in a small range, the signal intensity can be enhanced remarkably.

The number can be dialed by multiple dialing modes from the idle screen, including: direct dialing, phone book dialing, rapid dialing and SIM card position dialing.

2.2.1 Direct dialing

Dial domestic phone

The simplest method to dial is to use digital key to input the phone number (if dialing domestic long-distance number, please add region number), then press **Snd** key and start call. When dialing, the display screen will display name and telephone number, after the telephone is connected, communication duration , another party's phone number or name is displayed.

After using digital key to input telephone, please press **Menu** key to activate the menu, the following menu items will appear in the menu.

Select **calling** to call out telephone

Select **save number** to save the telephone number (refer to 10.12 chapter for detailed operation)

Select **Send SMS** to enter short message editing window and finish corresponding operation (refer to 6.2 chapter for operation on short message function);

Select **Countdown** to start Countdown function (refer to 11.12 chapter for detailed function setting).

After communication terminates, please press **Pwr** key to hang up the phone. The phone will display the duration for this communication.

Dial fixed phone extension

Some fixed phone extension can not be directly dialed, you need first dial the host phone, then dial extension. When you input the telephone number, insert "W" and "P" between host phone number and extension number, the phone will help you finish dialing and automatic extension dialing. The input method for inputting "W" and "P" is as follows: when inputting, press **#** key long (at this time display screen will

display symbol “W”), then press **#** key long (at this time display screen will display symbol “P”).

Dial international phone

When dialing international phone, you only need input the symbol “+” (press **0** key long until the symbol “+” displays in the display screen), then input your dialing nation code and complete telephone number.

For example: if dialing French phone, you need press **0** key long (until the symbol “+” appears) , then input French code “33” and complete telephone number.

2.2.2 Dial telephone from telephone book

Select the phone book from the main menu, after entering phone book, activate **Menu** to select and search, find corresponding person and select corresponding phone, then it is to ok to press **Snd** key to dial.

When in idle state, press right direction **R** key to enter phone list, select corresponding person and select corresponding phone, then it is ok to press **Snd** key to dial.

2.2.3 Rapid dialing

The rapid dialing is also called as abbreviated dialing, you can respectively set 9 number keys as telephone number (refer to 4.3.7 chapter on phone book for setting).

In idle screen, press the number key from 2 to 9 which is set as speed dialing, you can automatically dial corresponding set phone number. If your selected number key is not set as speed dialing, the mobile phone will prompt you “telephone is empty”

2.2.4 SIM card position dialing

In idle screen, press number key and **#** key in turn, you can implement SIM card position dialing, that is to display the phone number stored at the corresponding position in SIM card automatically, activate **Options** menu to **select** call or press **Snd** key, then you can dial out phone.

2.2.5 Phone can not be called

When dialing, the phone may not be called, for example: another party line occupation, denying answer, another party is not within service region and another party’s phone is not in power on mode, the phone will prompt you “phone can not be called”. At this time if you set automatic dialing (refer to 4.3.4 chapter), the phone will automatically dial the number you just have dialed, until the number is dialed for continuous 10 times and phone is not called , or you proactively cancel dialing.

2.3 Answer call

When a new call comes, the phone will display the phone number or name of the new call, moreover according to your setting , by vibration/ring/vibration and ring and keyboard light/ keyboard light and idle mode to inform you of the new call.

When the phone vibrates and rings , screen displays the indication for call, press **Snd** key or **Answer** key to answer call.

After communication is terminated, press **Pwr** key to hang up phone.

If you are answering a phone, the phone will prompt you new call by “toot ” sound. At this time you can press **Snd** key or **Answer** key to answer new call, moreover previous call will enter keeping alive state, please refer to chapter 2.4.4; if you do not want to answer, you can press **Pwr** key or **Reject** key to Stop call.

2.4 During the communication

During the communication , activate **Menu** key, you can finish the following functions: dial extension, keep alive, idle, new call, newly create short message and phone book.

Select **keep alive** to keep current communication (related with SIM card), at this time both parties can not hear voice, meanwhile **keep alive** menu change to **activation**, select this menu and return to normal communication, or directly press **Active** key to activate current communication. You can also directly press **Hold** key to keep current communication.

Select **idle** to pause the communication voice, at this time you can hear another party's voice, but another party can not hear your voice, it facilitates you to communicate with other local person during the communication, the menu item changes to **cancel idle state**, select the menu to return normal communication process.

Select **new call** to dial second number. A new number can also can be dialed by pressing number key during the communication, press **Snd** key to dial out phone.

Select **new SMS** to enter new short message window and finishes corresponding operation, press **Return** key to exit short message window and return to communication state.

Select **phone book** to enter phone book window, then implement corresponding operation, which facilitates to query a phone number during the dialing phone.

When dialing extension, after hearing the prompt voice of another party, directly dial extension number, extension number displays in the screen, when finishing extension dialing, you can press **Delete** and **Return** key to display main phone number.

2.4.1 Adjust volume

Press **Vd** key and **Vu** key to decrease or increase the volume during the communication.

Refer to 1.4 chapter illustration for key positions.

2.4.2 Reject

Press **Pwr** key or **Reject** key reject the phone. After stop call , the communication duration will display.

2.4.3 New information

During the dialing phone, if having new information, the phone will give prompt voice to remind you new information (short message).

2.4.4 Answer new phone

Refer to 2.3 for receiving operation and its content, the different point is that after answering a new phone

and the previous call will keep communication state. The previous communication can be activated by **Switch** key, but new call will enter the communication keeping state.

Refer to 2.4.5 for operation on simultaneous two call receiving.

2.4.5 Simultaneously answer two calls

When answering two calls, the current communication number displays at the first line, another call will enter communication keeping state, two calls can be switched by pressing **Switch** key .

When the second call is switched on, activate **Menu** key and implement the following functions: switch, new short message, ring off, idle, meeting communication (related with SIM card) and operations on phone book.

Select **switch** to switch communication.

Select **new SMS** to enter new short message window , after finishing corresponding operations, press **Return** key and exit the short message window, then return to communication state.

Select **ring off** to ring off current communication, or press **Pwr** key to ring off current communication.

Select **idle** to pause voice of current communication, at this time you can hear another party's voice, but another party can not hear your voice, which facilitates you to communicate with other local person during the communication, the menu changes to **cancel idle state**, select this menu and return to normal communication.

Select **meeting communication** to hold phone meeting and can communicate with the specified participant separately.

Select **phone book** to enter phone list function, which facilitates you to query phone number during the dialing the phone.

2.4.6 Meeting communication

In the meeting communication, you can hold telephone meeting and make a separate call with specified participant. Functions include: keep communication, new short message, new call , idle, phone book and participant member list.

Select **keep alive** to keep current communication (related with SIM card), at this time both parties can not another party's voice, meanwhile **keep alive** menu changes to **activation**, select this menu and return to normal communication, or directly press **Activation** key to activate current communication. Also press **Hold** key to keep current communication.

Select **new SMS** to enter new short message window , after finishing corresponding operation, press **Back** key to exit short message window and return to communication state.

Select **new call** to dial second number. A new number can also be directly dialed during the communication, press **Snd** key to dial out the number.

Select **Mute** to pause voice of current communication, at this time you can hear another party's voice, but another party can not hear your voice, which facilitates you to communicate with other local person to during the communication, the menu changes to **resume**, select this menu to return to normal communication.

Select **phone book** to enter phone list function, which facilitates you to query the phone number during the number dialing.

Select meeting participant list and enter member list window, activate menu, operation of ringing off and separating communication can be implemented, select **stop call**, stop all communication with selected members; select **Hung up**, separate all selected members from meeting communication.

If a new call comes during the meeting communication , refer to 2.4.5 for processing.

2.5 Emergent call

In any nation using digital GSM network, if you are within the network covering range(you can get this information by checking network signal intensity at left and top corner of screen), you can call emergent service. If you are within the network covering range, and even you have not SIM card, you can make an emergent call.

”112” is a standard GSM emergent number, which can be used in any GSM network of the world.

3 Menu operation

This chapter will help you to know the function and structure of the mobile phone's menu, which will explain how the self-define the mobile phone functions for meeting your needs for details, moreover also reveal how to use basic operation function.

3.1 Structure of main structure

The function menu of the mobile phone contains: setting, my collections, message, mobile dream network, China Mobile service, client service, phone book, attached part and communication records.。

3.2 Select main menu

At the bottom of the menu screen , press up, down, left, right key , then press **Select** key or **OK** key to select and confirm menu.

3.3 Other selection modes

In the idle screen, all function keys define special menu function, which can facilitates you to directly enter menu function very much , illustrated as follows:

Note:

If the mobile phone is the keyboard locking state, after disabling the keyboard , you can use mobile phone.

The special function shortcut keys are as follows:

Function key	Function menu items
Left function key	Enter function menu
Right function key	Short: China Mobile service;Long: wap
Up key	Short:Phone mode;Long: Toggle Meeting mode
Downward key	Short:My date;Long:MP3
Left key	Message
Right key	Phone book
Side up key	Short:ring volume up ;Long: Camera
Side down key	ring volume down
Okkey	My menu
Send key	Recent dialed numbers
Power key	Return to idle screen or close / Power off&Power down mobile phone
Press * long	Start or close keyboard lock
Press number key from 1 to 9 long	Speed dialing, enter menu in menu mode
Number + #	Dial specified position number in SIM card

3.4 Menu function table

Setting	phone Phone modes Display Ring tone Calls Security Network Reset
My favorites	
Videos	

Songs
Pictures
Music
Memory card
MMS card
Java box

Message

Add New
Inbox
Outbox
Sent
Drafts
My folder

Monternet

Homepage
Bookmark
Go to URL
Go to last page
history
Offline browser
Setting
GPRS Info

China Mobile in

What's New
New & Weather
Pictures & Ring
Games
Chat
Finance Online
Phonebook manager
STK Applications
Monternet

Customer service

Service guide
GoTone Club
Service Hotline
Customer Manager
Mobile Secretary
My Monternet
Settings

Phonebook

Accessory

Camera
Tools
Connection tools
SyncML
Games
Multimedia

Call history

Outgoing calls
Answered calls
Missed calls
Call duration

4 Setting

4.1 Phone

The setup on mobile phone, which includes such as time and date, language, display setup, prompt voice, automatic lock key, and my menu, is for the service situation.

4.1.1 Time and Date

For the time, date, and corresponding forms of setup, use the key of **U** or **D** to select the content, press the key of **Select** to confirm the content needing to change.

Time: All you input the correct time with 12/24 hours

Format: Adjust the format to show the time.

Date: All you input the correct date.

Format: Set up the format to show the date.

4.1.2 Language

There are two selections such as Chinese simplified character and English. While setting up, use the key of **U** or **D** to select the content, press **Enter** to confirm the content needing to change, and press **Back** to delete the selected content.

4.1.3 Side Key Lock

Open the side key lock to avoid press the side key by accident with mistaking operations. Close the side key lock and the function of side lock is invalid.

4.1.4 My Menu

To enter the window of My Menu, activate the key of **Option**, select **Insert the Menu before** to insert the new menu before the currently selected menu, and enter the window of prepared list. Select the inserted menu, press the key of **Select** or **OK** to insert the menu, select **Replace**, and use another menu to replace the currently selected one, and the operation is the same as Insert the Manu. **Delete:** delete all selected manus; **Delete All:** delete all manus.

4.2 Phone Mode

The Phone mode is a group of preset characteristic definition that is easy to start quickly. The mobile phone provides a group of default modes including Normal mode, Metting mode, Outdoor ,Silent , and Personal. For every mode, there is a set of default factory value, and the user may change and save in the mode according to his or her wish.

4.2.1 Startup Mode

After selecting the desired operating mode, press the key of **OK** to start up the setup option. Now, the operating mode of mobile phone will carry out setting up completely according to the selected mode.

4.2.2 Personal Setup

In the mode window, activate the key of **Select** to enter the personal setup window. The user may set up the parameters of mobile phone under all kinds of modes through the personal setup. The personal setups include the options as following:

Volume Tune the volume of ring and the degree of volume, select the set content, and press the select key or **OK** to enter the correspondingly adjusting window. Use **U** or **R** or **Vu** to tune up the volume of call ring, and **D** or **L** or **Vd** to tune down. Press **Enter** to set up, and prompt “The volume of ring has been changed.”

Ring Type Set up all prompt modes including call, short message, WAP, clock, and calendar. For example, if hope without any oscillating prompt when operating daily, only use **U** and **D** to select the oscillation, press the key of **Select** to select the setup, and press **OK** to finish it. The mobile phone will prompt “The prompt volume has been set up”.

Pressing Volume Select the type of pressing prompt volume, or close it.

Music to startup or close Start or close the music effect of startup or close.

4.2.3 Display Setup

The **Display Setups** include Main LCD, Sub LCD, Backlight time, Brightness.

Main LCD Includes selecting the background picture or the tone. **Wallpaper** Select the favorite picture as background from the mobile phone. Select the favorite picture from all usable ones. Press **Option** to see the picture, press the key of **Set** to set up the selected picture as wallpaper in desktop. Press **Back** to back the last menu. There are four color-tones together in **Color style** to select. Use the key of **U** or **D** to select the options for viewing the effect when setting up. Finally, select the key of **Select** or **OK** to confirm the content needing to change. Press **Back** to delete the selected content.

Sub LCD The little screen setup includes three functions such as selecting background picture, clock style, and circumrotation. **Wallpaper** Set up the little background picture, allow selecting in preset picture, photograph, and downloaded picture. **Display Style** Set up the showing style of little screen clock, allow selecting the analog clock or digital clock. **Rotation** Set up the showing direction of little screen, the mobile phone provides two showing modes.

Backlight Time Set up the time of backlight such as 10 seconds, 20 seconds, 30 seconds, or 60 seconds. Or select **Always Open**, press **Select** or **OK** to confirm the selection.

Brightness Allow selecting the brightness of background in the following three options such as High, Medium, or Low. After selecting, press **Enter** or **OK** to confirm the content needing to change, or press **Back** to delete the content selection.

4.2.4 Ring Selection

In the window of Ring Selection, set up the prompt such as call, short message, color message, multimedia message, PUSH information, or calendar. Select the set menu option, and allow selecting from preset, download, and music to enter the window of Ring Selection. Press **OK** to play the currently selected ring. Select **Option** to set up all selected rings as the one in currently selected option.

4.3 Calls

There are two kinds of **Calls** to confirm whether to use the call function or not. When entering the function, it

will always show the actual setup.

4.3.1 Call Divert

The call transfer is used to transfer calls to the desired phone according to requirements.

When carrying out the setup of call transfer, the success of setup is depended on network and SIM card. Mobile phone will prompt suitably with the setup.

When setting up the option, ask you input the correct phone number to transfer the call correctly to the desired phone. If there is no, please check the transferred phone number is correct or not in mobile phone.

Unconditional When the option is set up, all calls will be transferred to the desired number.

Busy When the option is set up, transfer the call to the desired number when your mobile phone is busy.

No Reply When the option is set up, transfer the call to the desired number when you do not answer the call.

Cancel When the option is set up, transfer the call to the desired number when you are not in service area (when the network signal is not good or the signal environment is very poor).

Cancel Select the call transfer, press **Enter** or **OK** to delete the transfer, and press Return to back the last menu.

Status Check the state of all current call transfer options.

4.3.2 Call Waiting

The option is to control whether permitting the call wait or not. If the option is closed, the third part will listen the busy tone when calling the busy phone.

4.3.3 Auto Redial

The option is to control whether permitting to recall automatically or not. If the option is closed, the phone cannot recall automatically when not putting through.

4.3.4 Auto Answer

The option is to control whether permitting to answer automatically or not.

4.3.5 Flip Answer

When permitting to call or not, fold the cover to receive the call.

4.3.6 Anykey Answer

Permit to press any key (except the key of Power and side key an right function key) for receiving the call. If close the option, receive the call only by other modes.

4.3.7 Minute tone

Set up the open or close of minute prompt. If the function is started, there will be minute prompt in the process of call. If closed, then there is no minute prompt at all.

4.3.8 Quick Dial

The quick dial-up can be set up in the mobile phone. Use the number key of **2~9** to show different phone number. When using, press some certain number of **2~9** under the waiting screen for long time to call the corresponding number. If the number key is not set up with phone number, the mobile phone will prompt that the phone number is blank.

When setting up the quick dial-up, press the number key under the waiting screen without setting up the quick dial-up for long time; also set up a quick dial-up number of call setup to enter.

After entering the setup interface of quick dial-up, there will be different operating prompts according to different situations that you do select the number key to set up the quick dial-up or not. If the number key is set up with quick dial-up, there will be a prompt with set phone numbers or linkmen at the left lower screen corner of mobile phone. If not set up, there will be some prompts being not bound at the left lower screen corner.

Select **Delete** to delete the existed number and reset up the new number.

When setting up new number, get the desire one through inputting numbers manually or browsing the phone book. Put it into the desired number key of quick dial-up so as to use conveniently. If the number is finished to select, the mobile phone will adjust automatically that the selected number is the existed one or not in it. If strange, it only shows the number to give you the correct prompt as possible.

If there are quick dial-ups, the icon of number key is the one with **✓**. If not, it will be a normal one of number key.

4.3.9 IP Code

Setting up IP code: input the IP code to use. If not setting up, it is same as the effect of directly dialing up.

4.4 Security

The setup of safety includes the following contents such as Phone Lock, Bare call ,SIM password, PIM safety, Security mode, Modify password.

4.4.1 Phone Lock

This function is for Phone Lock , If you want to use the phone ,you must input the right password (The default password before leaving the factory is 1234),you can change the password in Setting—Security—Modify password.

On :Input the right password ,you can lock the phone;

Off:No phone lock function,disable the phone lock you must input the right password .

You can long press the *****on or off the phone lock at idle .

4.4.2 Bar calls

network operator will offer the password (1234) for start the Bar calls . If it is forbid, the system will prompt “Call barring failed!”

Incoming calls :

- **When roaming:**When roaming Prohibit all incoming call;
- **All incoming :** Prohibit all incoming call.

Outgoing call:

- **International** Prohibit all international call;
- **Local calls** :Only allow of local call;
- **All outgoing:**Forbid all the outgoing call.

Cancel all:

Cancel all the bar call ,must input the right password (The default password before leaving the factory is 1234).

Modify password : modify the bar call password .

4.4.3 SIM password

PIN Lock: Turn on PIN code of SIM card. Only inputting PIN code can start up the mobile phone, or it can only dial up some emergency telephone such as 112. If selecting to close, start up without any PIN code.

Opening Personal Security Information: Open or close the function of personal security information.

Note:

PIN code is related with SIM card, and is the operating password of SIM card.

The password of mobile phone is the one of it self and not related with SIM card.

For example: After the function has been set up as Mobile Phone Locked (SIM card does not start using PIN code), mobile phone is at the state of being locked. Now only inputting the password, others cannot use when borrowing your mobile phone, but may dial up while insert SIM card into another mobile phone.

When setting up PIN to start and not Mobile Phone Locked, only input PIN code into the mobile phone to use it normally. Or if changing other SIM card, it may be used normally.

After changing the password, please remember the set-up password, or the owner cannot read any important personal information either. Contact with the maintenance server if necessary.

4.4.4 PIM safety

PIM safety is the password of personal security information. The personal security information requires inputting the password firstly when operating important information so as to avoid others viewing the information of owner such as Phone number book, message, my favorite, and correct password needing to input when recording the conversation. The default password before leaving the factory is 1234.

First input the password when selecting the option. When operating with any related personal information from the waiting state, require the mobile phone to input the personal information password. If close the option function, do not ask to input the password when operating, and not provide the personal information protection either.

4.4.5 Security mode

On or off security mode ,must input the right password (The default password before leaving the factory is 1234).

Enable : If startup the security mode ,you can set security group for phonebook , only the owner of the

phone or the people who know the ringt password can look over the security group information. At the main menu ,select the phone book ,the system will prompt “No record!”.press the **Menu** ,can do **Add new ,Copy, Move,Delete,Multi-delete,Delete all,Group,Find Black list,My number,Storage status,Diplay all the record.** When startup the security mode ,also can setting security content for the schedule,in the calendar ,press the **Menu** ,you can do: **Select date , Add new , Schedule list , Only show security ,View summary**.Select only show security ,only show the security connect ,after select **show security** ,this menu turn to **show all content**.

Disable : Free from the security mode.

Note:After startup the security mode ,at random interface ,press **Pwr** , will Free from the security mode.

4.4.6 Modify password

modify the phone lock password .

4.5 Network Setup

When roaming at abroad, you need to select the network to connect your mobile phone with local GSM network. Generally, you may select the automatically selective network mode (See as below), but you may also select the manual or automatic selection to look for the effective network. If you want to connect with a network that does not have roam protocol with your own network, there will be “The registration of network fails” in mobile phone.

Current network :look over current network’s name and ID;

Auto Select: Your mobile phone will firstly search for the original network, and then search it from the list of network saved in SIM card. If all of there fail, all networks that have a roam protocol with the original network will be connected in.

Manual Select: The mobile phone will search the network, and provide the current list of effective networks for you. You may select the network that you hope to use. When operating the network, the mobile phone will provide some prompts relating to operations such as successful or failed.

Profile You can set connection mode and image download:Access connection setting window and activate **menu**:

Activate: activate the selected mode

Edit: access mode window and edit selected mode. In the edit window you can press **select** to select desired setting and access the window:

Name: view or edit the name of edit mode

Homepage: view or modify the address of homepage

Connection: select connection mode. Press “up” and “down” key to select the connection mode, press **select** to activate the mode:

- ◆ Only GPRS : only use GPRS
- ◆ Only CSD: only use CSD

CSD setting: modify CSD connection setting, select desired setting and press select to access the related window:

- ◆ Display: display present connection settings, including gateway, data type and dial-up number
- ◆ Gateway: set IP address and port of WAP gateway
- ◆ Dial-up number: dial it and access to network
- ◆ User name: user name of network

- ◆ User password: user password of network

GPRS setting: modify CSD connection setting, select desired setting and press select to access the window:

- ◆ Display: display present connection settings, including gateway, APN and user name
- ◆ Gateway: set IP address and port of WAP gateway
- ◆ APN: access point name of GPRS gateway
- ◆ User name: user name of network
- ◆ User password: user password of network

4.6 Factory Setup

4.6.1 Resuming Setup

The option may resume all original factory values. After selecting the option, the mobile phone will prompt you “Are you sure to resume the factory setup”. When using the option, it do not clear the materials that you have saved by yourself such as phone book, short message, and so on. You may only change the operating environment setups of mobile phone such as selecting rings, scene mode, etc.

4.6.2 Resuming the Factory Setup

The option may resume all original factory values. But it will clear the materials you have saved such as phone book, short message, and so on. The detailed operation is the same as Resuming Setup.

5 My Favorite

5.1 Multimedia Resource

My favorites are used to browse, set up, and utilize pictures and music resources in mobile phone, also to carry out querying the capacity. (If setting up the security password, only input it to enter the window of My Favorite. For the detailed setup of security password, see Section 4.4.3).

5.2 Resource Utilization

The multimedia resource has different utilizations according to different types.

Picture: is used as the background of desktop

Music: is used as all kinds of prompt voices in mobile phone as following.

- Calling ring
- SMS ring
- MMS ring
- WAP
- Calendar
- Alarm

Note:

The prompt voice of system is not in the scope. It only has the option of open or close, such as minute prompt.

5.3 Videos

5.3.1 My movies

That in videotape is some short films that you shot,Press **OK** You may view the effect of short films in the window.Press left key an right key control the command key , press **OK** to select.The control key is :



Press side up key to ring volume up ,press down key to ring volume down.

Activate the menu of **Menu**:

Select **Rename**: rename the selected short film

Select **Copy to card**: copy the short film to EMS Memory

Select **Move to card**: move the short film to EMS Memory Select **Delete**: delete the selected short film;

Select **Multi —Deletes**: enter the window of selecting names, press the direction key of Up and Down to select the record to delete, press **OK** to select the linkmen, press **Select** to confirm the selection, and then realize deleting many options.

Select **Deleat all**:Deleat all the movies;

Select **Send MMS**: Sent movie as MMS' content;

Select **Property** : view all contents relating to the selected music such as name, size, and format.

5.3.2 Download

That in videotape is some short films that you download,the control the same as my movies'.

5.3.3 Storage status

It queries the situation of used space by Videos, Sounds , Picture, Music and Java. It also shows the used space and the total space.

5.4 Sound

5.4.1 Download

That saved in download is the record sound . Enter the window of download , Press **OK** to listen the ring, and press **OK** again to stop playing. Active the key of **Menu**, and the functions in menu are shown as following.

Select **Set as Ring tone** : after selecting the required ring, select the option to confirm the selected ring as the calling ring.

Select **Rename**: rename the selected sound

Select **Copy to card**: copy the sound to EMS Memory

Select **Move to card**: move the sound to EMS Memory

Select **Delete**: delete the selected sound;

Select **Multi —Deletes**: enter the window of selecting names, press the direction key of Up and Down to select the record to delete, press **OK** to select the linkmen, press **Select** to confirm the selection, and then realize deleting many options.

Select **Deleat all**:Deleat all the sound;

Select **Send MMS**: Sent sound as MMS' content;

Select **Property** : view all contents relating to the selected sound such as name, size, and format.

5.4.2 Preset

That stored in preset music is the one from the system. Enter the window of preset music, and press the direction key of Up or Down to select the ring. Press **OK** to listen the ring, and press **Stop** to stop playing. Activate the key of **Menu**, and the functions in menu are show as following.

Select **Set as Ring tone**: after selecting the required ring, select the option to confirm the selected music as ring.

Select **Property**: view all contents relating to the selected music such as name, size, and format.

5.4.3 Storage status

It queries the situation of used space by videotape, voice, picture, and music. It also shows the used space and the total space.

5.5 Pictures

5.5.1 Photos

The saved photograph is that you have shot. You may view the effect of shot photograph through the window. Select it to enter the window, press the direction key to select that you will view, and activate the key of **Menu**.

Select **Rename**: rename the selected photos

Select **Copy to card**: copy the photos to EMS Memory

Select **Move to card**: move the photos to EMS Memory

Select **Delete**: delete the selected photos;

Select **Multi -Deletes**: enter the window of selecting names, press the direction key of Up and Down to select the record to delete, press **OK** to select the linkmen, press **Select** to confirm the selection, and then realize deleting many options.

Select **Deleat all**:Delete all the photos;

Select **Send MMS**: Sent photos as MMS' content;

Select **Property**: view all properties of photographs including name, date, time, size, height, width, format, and transfer.

Press **OK** to view the effect of photograph, and enter it to show the window. Activate the menu of **Menu**, and select **AS head picture** :set photograph as head picture; Select **Send MMS**: Sent photos as MMS' content;select**main wall paper** : set the photograph as the background of desktop. Select **2nd wallpaper** set the photograph as the 2nd wallpaper ;select **Full screen view** to browse the photograph with whole screen; select **Auto view** :to browse the photpgraph auto view .

5.5.2 Download Picture

The saved pictures is that you have download . activate the key of **Menu**.

Select **Rename**: rename the selected picture;

Select **Copy to card**: copy the picture to EMS Memory

Select **Move to card**: move the picture to EMS Memory

Select **Delete**: delete the selected picture;

Select **Multi -Deletes**: enter the window of selecting names, press the direction key of Up and Down to select the record to delete, press **OK** to select the linkmen, press **Select** to confirm the selection, and then realize deleting many options.

Select **Deleat all**:Delete all the picture;

Select **Property**: view all properties of picture including name, date, time, size, height, width, format, and transfer.

Press **OK** to view the effect of pictures , and enter it to show the window. Activate the menu of **Menu**, and select **AS head picture** :set picture as head picture; Select **Send MMS**: Sent picture as MMS' content;select**main wall paper** : set the picture as the background of desktop. Select **2nd wallpaper** set the picture as the 2nd wallpaper ;select **Full screen view** to browse the picture with whole screen; select **Auto view** :to browse the picture auto view .

5.5.3 Preset Picture

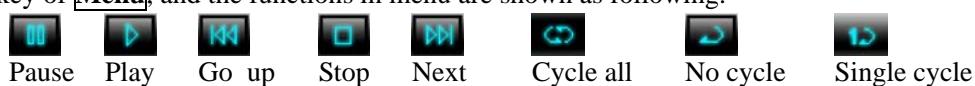
That stored in preset music is the one from the system. Enter the window of preset picture, and press the direction key of Up or Down to select the picture. Press the key of **Menu** to view the property of picture. Press **OK** to view the effect of picture, activate the menu of **Menu**, elect**main wall paper** : set the picture as the background of desktop. Select **2nd wallpaper** set the picture as the 2nd wallpaper ;select **Full screen view** to browse the picture with whole screen; select **Auto view** :to browse the picture auto view .

5.5.4 Memory State

It queries the situation of used space by videotape, voice, picture, and music. It also shows the used space and the total space.

5.6 Music

That saved in download music is the downloaded music. Enter the window of download music, and press the direction key of Up or Down to select the ring. Press **OK** to listen the ring, and press **Stop** to stop playing. Active the key of **Menu**, and the functions in menu are shown as following.



Select ***Set as Ring tone*** : after selecting the required ring, select the option to confirm the selected ring as the calling ring.

Select ***Rename***: rename the selected music ;

Select ***Copy to card***: copy the music to EMS Memory

Select ***Move to card***: move the music to EMS Memory

Select ***Delete***: delete the selected music;

Select ***Multi -Deletes***: enter the window of selecting names, press the direction key of Up and Down to select the record to delete, press **OK** to select the linkmen, press **Select** to confirm the selection, and then realize deleting many options.

Select ***Delete all***: Delete all the music;

Select ***Send MMS***: Sent music as MMS' content;

Select ***Property*** : view all contents relating to the selected music such as name, size, and format.

5.7 Memory Card

It may view some contents saved in the memory card such as videotape, ring, picture, and music. It also carries out querying the capacity.

5.8 Multimedia Card

Multimedia Card is the one from the system, It can sent the pictures as the MMS' content .

5.9 Java Box

The wireless JAVA looks like a jewel box following with mobile phone. You may find all kinds of JAVA software at any time. After downloading them, you may enjoy many services of Internet through mobile phone such as downloading all kinds of games, cartoons, mini-novel, and so on. You may also carry out all kinds of online applications such as network game, receiving or sending email, securities stock, information query, etc. to change it into a game or stock machine.

There are about some contents such as TV program forecast and mobile securities in JAVA mobile jewel box. The jewel box with different contents may provide different service so as to realize an omnipotent mobile phone with infinity development space.

6 Message

This chapter will introduce message services supported by GSM. Some services may be not supported by local GSM.

6.1 Message

Your phone can receive the message consisting of 160 English characters or 70 Chinese characters by service center. You can send a new message or reply a message (by service center) if local GSM supports. If your service provider supports message service, you can receive/send messages as your wish (to set security password, you must input the password and access message window. The setting of security password is seen in 4.4.3).

Message functions include: new, inbox, outbox, outgoing messages, draftbox, my favorite, setting, voice mailbox, memory status

Note: when sending or receiveing messages, the matched name you find in phone book is only dependent on 11 numbers behind the number; for other number, only 7 numbers behind the number are needed.

MMS (Multimedia Messaging Service, MMS) content character ,picturesand sound . (to set security password, you must input the password and access message window. The setting of security password is seen in 4.4.3) .

Note: use the MMS must have the network operator

The N5102 sustain the most content 100KB, if the MMS beyond this limit ,the phone can not incept .

Note :use MMS, have to pay charge to network operatoror serve provider.

6.2 Add new

6.2.1 SMS

1. TO

Press drivekey and scroll to “receiver”, press number key and input the desired number; or press **OK** and access number input window. You can input the desired number directly or select the receiver’s number from phone book or group. Press **phonebook** and access receiver window, press **U** or **D** to select the receiver, press **OK** and **enter** then finish the operation. to access receiver list window, press **menu** , select **send** to send message and select **add new** to add new receiver; select **phone book** to access receiver window; select **Group** sent message to group ;select **delete** to delete the desired receiver; select **delete all** to delete all receivers. When the selected numbers exceed 20, the phone will prompt” Your selection number exceeds the maximum!”

To activate menu, the operation is as follows:

Select **send** to send present message.

Select **phone book** to access receiver window and add receiver.

Select **Group** to send the message to the group;

Select **save** in order to use it again and avoid repeated input. The content about “my favorite” is seen in 6.8.

Note:

The maximum number of receivers you send to is 20.

Only select receiver from “phone book”, the function of “send to many” can be available.

2. Contents

Press drivekey and scroll to “new”, activate **menu**:

Select **send** to send present message

Select **insert contact** to insert receiver

Select **insert quick text** to insert frequent word about related subject provided by the phone in present message , so repeated input is avoided.

Select **save as text** to save edited message as frequent word;

Select **save** to save the message in draftbox in order to use it again and avoid repeated input.

Press **OK** to access text edit window. To edit message and use text edit window, please refer to 10.2.

During editing message, press **item** to activate menu.

3. Send message

Before sending message, you must input the number of message center. This step needs to be set only one time. The setting can be seen in 6.2.10.

When the message is transmitting, the phone will prompt “ sending to...”; if sending is failed, the phone will prompt “sending is failed!”

If sending is successful, the phone will prompt “ sending is successful! “ the message will be added into outgoing messages.

6.2.2 MMS

1. to

Press drivekey and scroll to “to”, press number key and input the desired number; or press **OK** and access number input window. You can input the desired number directly or email. press **menu** , select **send** to send message ;select **phone book** to access receiver window; select **Group** sent message to group ;select **Prewiew MMS** previeew the MMS;select **information** look over the receiver;subject,size ,time; select **save** to save the MMS in draftbox in order to use it again and avoid repeated input.

To activate menu, the operation is as follows:

Select **send** to send present message.

select **Prewiew MMS** previeew the MMS;

select **information** look over the receiver;subject,size ,time;

Select **save** in order to use it again and avoid repeated input.

2. subject

input the subject of the MMS.

3. Contents

Press **OK** to access text edit window. To edit MMS

select **Prewiew MMS** previeew the MMS;

Select **Arrange** setting the MMS’ makeup,allow to select text first and picture first ;

Select **send** to send present message

Select **insert** to insert picture,sound ,Quick text;

Select **delete** to delete the picture ,sound and text;

Select **text editor** to editor the text of the MMS;

Select **multi-slide** insert new slide ;

4. Send message

Before sending message, you must input the number of message center. This step needs to be set only one time. The setting can be seen in 6.2.10.

When the message is transmitting, the phone will prompt “ sending to...”; if sending is failed, the phone will prompt “sending is failed!”

If sending is successful, the phone will prompt “ sending is successful! “ the message will be added into outgoing messages.

6.3 Receive message

When receiving a message, the phone will give a prompt sound (it can be set, seen in 4.1.4) then the message will be added in inbox. The screen will display an icon of small envelope to prompt there is a message you have not read yet (seen in 1.3). The message will be saved automatically in the memory or SIM card (the setting is seen in 6.9). The maximum number of messages to be saved (including those to be sent) is dependent on the volume of the phone and SIM card.

6.4 Read message

All received messages(including messages and WAP PUSH information) are stored in inbox. There is an icon before each message to show the status of this message. Opened envelope indicates the message has been read; on the contrary, unopened envelope shows that has not been read. The location where the message is stored is also indicated by the icon. An icon with SIM card mark indicates the message is stored in SIM card; or else it is stored in the phone.

1) Read SMS

Select the message to read, and press **menu** to activate menu

Select **Read** to read the message or press **OK** directly

Select **Reply** to replySMS,MMSor make call to the addresser..

Select **Forward** to edit present message in text edit window and forward it to the desired number; related operation is seen in 6.2

Select **Move to my folder** to transfer the message to my favorite in order to use it again. Related operation is seen in 6.8.

Select **Delete** to delete present message and return to inbox.

Select **Multi-delete** to access name selection window, press “up” and “down” key to select the desired record, press **OK** and **select** to delete many items.

Select **Delete all** to delete all messages in outbox.

Select **Sort** to arrange messages in sequence according to time or type.

In the process of reading, press **menu** or **OK** you can:

Select **Reply** to replySMS,MMSor make call to the addresser.

Select **Forward** to edit present message in text edit window and forward it to the desired number; related operation is seen in 6.2

Select **Save number** to access number saving window and save the sender's number. Related operation is seen in 10.3.

Select **Get number** to extract the number in the message and save it to phone book; related operation is seen in 10.3

Select **Delete** to delete present message and return to inbox (if inbox is empty, return to message window).

Select **Copy to SIM card (phone)** to copy information from the phone to SIM card or from SIM card the phone.

Select **Save as text** to save message as frequent word

Select **Get link URL** to save the link in the message into bookmark.

2) Read PUSH

If received PUSH information from WAP, select the PUSH information and activate menu:

Select **Read** to read the information or press **OK** to read directly

Select **Move to my folder** to transfer the message to my favorite in order to use it again. Related operation is seen in 6.8.

Select **Delete** to delete present message and return to inbox.

Select **Multi-delete** to access name selection window, press “up” and “down” key to select the desired record, press **OK** and **select** to delete many items.

Select **Delete all** to delete all messages in outbox.

Select **Sort** to arrange messages in sequence according to time or type.

In the window of PUSH information, press **Option**:

Select **Browse**: link to WAP;

Select **Add to bookmark** : to save the link in the message into bookmark;

Select **Delete** to delete present message.

3) Read MMS

Select the message to read, and press **menu** to activate menu

Select **Reply** to replySMS,MMSor make call to the addresser.

Select **Forward** to edit present message in text edit window and forward it to the desired number; related operation is seen in 6.2

Select **Move to my folder** to transfer the message to my favorite in order to use it again. Related operation is seen in 6.8.

Select **Delete** to delete present message and return to inbox .

Select **Multi-delete** to access name selection window, press “up” and “down” key to select the desired record, press **OK** and **select** to delete many items.

Select **Delete all** to delete all messages in outbox.

Select **Sort** to arrange messages in sequence according to time or type.

In the process of reading, press **menu** or **OK** you can:

Select **Reply** to replySMS,MMSor make call to the addresser.

Select **Forward** to edit present message in text edit window and forward it to the desired number; related operation is seen in 6.2

Select **Move to my folder** to transfer the message to my favorite in order to use it again. Related operation is seen in 6.8.

Select **Save number** to access number saving window and save the sender's number. Related operation is seen in 10.3.

Select **Get number** to extract the number in the message and save it to phone book; related operation is seen in 10.3.

Press ok to look over the MMS ,press **Menu** you can :

Select **Preview slide** : look over the multipage MMS;

Select **Next slide** : look over the multipage MMS' next page ;

Select **Play**: play the MMS;

Select **Save image** : save the image in the MMS;

Select **Save audio**: save the audio in the MMS.

6.5 View Outbox

In outbox you can view the failed sending messages, activate **menu**:

Select **Resend** to send the message again; related operation can be seen in 6.2.3.

Select **Read** to read the desired message or press **OK** to read directly

Select **Delete** to delete present message and return to inbox.

Select **Multi-delete** to access name selection window, press “up” and “down” key to select the record, press **OK** and **select** to delete many items.

Select **Delete all** to delete all messages in outbox.

Select **Sorte** to arrange messages in sequence according to time or type.

In the process of reading, press **menu** or **OK** you can:

Select **Resend** to send the message again; related operation can be seen in 6.2.3

Select **Edit** to access message edit window and edit the message. Related operation can be seen in 6.2.

Select **Delete** to delete present message and return to inbox.

6.6 View Sent messages

You can view sent messages, activate **menu**:

Select **Read** to read the desired message or press **OK** to read directly

Select **Move to my folder** to transfer the message to my favorite in order to use it again. Related operation is seen in 6.8.

Select **Forward** to edit present message in text edit window and forward it to the desired number; related operation is seen in 6.2

Select **Delete** to delete present message and return to outgoing message window.

Select **Multi-delete** to access name selection window, press “up” and “down” key to select the record, press **OK** and **select** to delete many items.

Select **Delete all** to delete all messages in outbox.

Select **Sort** to arrange messages in sequence according to time or type.

In the process of reading, press **menu** or **OK** you can:

Select **Forward** to edit present message in text edit window and forward it to the desired number; related operation is seen in 6.2

Select **Delete** to delete present message and return to outgoing message window (if outbox is empty, return to message window).

6.7 Drafts

Messages which have not been edited or sent are stored in draftbox, activate **menu** you can:

Select **Edit** to access message edit window and edit the message.

Select **Delete** to delete present message and return to draftbox.

Select **Multi-delete** to access name selection window, press “up” and “down” key to select the record, press **OK** and **select** to delete many items.

Select **Delete all** to delete all messages in outbox.

Select **Sort** to arrange messages in sequence according to time or type.

You can press **Ok** to view message. In the process of reading, press **menu** or **OK** you can:

Select **Edit** to access message edit window and edit the message.

Select **Delete** to delete present message and return to draftbox (if draftbox is empty, return to message window).

6.8 My favorites

My favorite is used to store messages delivered from inbox and outbox, activate **menu** :

Select “read” to read the desired message or press **OK** to read directly.

Select **Delete** to delete present message and return to draftbox.

Select **Multi-delete** to access name selection window, press “up” and “down” key to select the record, press **OK** and **select** to delete many items.

Select **Delete all** to delete all messages in outbox.

Select **Sort** to arrange messages in sequence according to time or type.

You can press **Ok** to view message. In the process of reading, press **menu** or **OK** you can:

Select **Edit** to access message edit window and edit the message.

Select **Forward** to edit present message in text edit window and forward it to the desired number; related operation is seen in 6.2

Select **Delete** to delete present message and return to draftbox.

Select **Get link URL** to save the link in the message into bookmark.

6.9 Quick text

Quick text can provide template when sending message. Only modifying a little will you get a satisfying text, so the time to edit is saved. You need to insert frequent word in the message you are editing. Related operation can be seen in 5.3.1.

In the message window, press **menu** and select “ frequent word” to access the window of frequent word list:

Select **Add new** to edit new word and add it to the phone.

Select **Edit** to modify the desired message.

Select **Delete** to delete the desired message.

Press **OK** to access message edit window and proceed related operation.

Note: words defined in the phone can not be deleted and modified.

6.10 Settings

Set parameter related to message operation such as SMS center, Valid period, staus report, storage type.

6.10.1 SMS setting

SMS center

If supporting this service, the number of SMS center will be provided by your network operator.

Valid period

The maximum time that outgoing messages can store in message center, has 4 words: 12 hours, 24 hours, week and maximum

Staus report

The function is used to confirm whether the receiver has received the message. If closing it, the function is inactive.

Storage type

You can select the save location of messages. The phone and SIM card both can store messages. The volume of SIM card is limited, but when phone fails SIM card can be installed in other phone. The volume of phone is large, but when it fails all information can not be delivered.

6.10.2 MMS setting

Set parameter related to message operation such as context profile, Sent Receive ,Filter.

Connect profile: setting the connect profile;

Send set: Set Valid period ,Read report, delivery report , priority:

Valid period :The maximum time that outgoing messages can store in message center, has 4 words: 12 hours, 24 hours, week and maximum;

Read report :set the read report on or off ;

Delivery report :set the delivery report on or off ;

Storage type :set the storage type ,allow to select SIM or Phone .

6.11 Voice mailbox

Voice mailbox is a kind of network service. You can apply for this service according to your demand. Before using the service, you must store the number of voice mailbox provided by service provider. Access to message window, scroll to voice mailbox and press **Select** or **OK** to access voice mailbox window.

Select “ listen to voice message” to access dial window, dial the number in voice mailbox and listen to the voice message

Select “ number of voice mailbox” to set the number of voice mailbox (please apply for the number from service provider)

6.12 Memory status

It is used to confirm memory status of phone and SIM card.

7 Monternet

The phone has WAP function which can view Wireless Mark-Up Language(WML) used in webpage, make you keep close touch with the whole world and provide more convenience to access the web.

To use WAP, you need:

1. Please consult your network operator and service provider whether they provide the service, related information about price and how to use the service.
2. Set WAP explorer correctly on your phone
3. Use WAP explorer to view webpage and make other operations.

The phone has GPRS function which can access webpage by the way of both normal data calling and GPRS based on GSM network.

Note:

Using GPRS function to access webpage depends on whether network operator provides the function and whether you apply for it.

7.1 Menu of WAP explorer in the offline status

7.1.1 Homepage

Homepage can make user access Internet easily. Scroll to “homepage” and press **select** or **OK** to access homepage.

7.1.2 Bookmark

Bookmark is used to save desired websites and set them by names easy to remember. You can view websites stored in bookmark. Scroll to “bookmark”, press **Option** select **Go to URL** view websites in bookmark. Select **View** look over the bookmark’s title ,NEC dream URL.

7.1.3 Go to URL

Input desired website, press **OK** to view it.

7.1.4 Go to the Last page

Scroll to “ last webpage” and press **select** or **OK** to view the webpage last viewed.

7.1.5 History

Look over the history browsed ,press **option** select **browse** browse the history which you select; **Delete** delete the history which you select ;**Delete all** delete all the history.

7.1.6 Offline browse

When browse web ,press **menu** select **option -save snapshot** ,save the web which you browse .select **offline browse** you can browse the web offline which you saved.press **option** select **browse** browse web ;select **delete** delete the web which you saved ;select **delete all** delete all the web you have saved.

7.1.7 WAP settings

1. **Profile** : to select profile;
2. **Clear cache** : clear cache ;
3. **Image download** : to set download image or not ;
4. **background music** : to set background music play or not
5. **Security** : to set security on or off .

7.1.8 GPRS information

View GPRS information Scroll to “ GPRS information”, press **Select** to access GPRS information window. You can view GPRS information of last connection and all connections, and delete records.

7.2 Menu of explorer in the online status

Press **Menu** you can do:*Add to bookmark,Homepage Bookmark,Go to URL,Refresh,stop,Option ,Offline browse,History ,Settings ,GPR Sinfomation* ,press **Pwr** to exit explorer.

8 China Mobile in

China Mobile in are a kind of new mobile data increment service which can provide users convenient and plentiful information such as weather, stock, lottery, sports, joke, interactive game, emotion and life, and make users enjoy mobile services at any time and place. “Terrific recommendation”, “news and weather”, “image and ring”, “ game paradise”, “ chat room” and “financing online” can access network directly. To obtain plentiful contents, please follow the system prompt.

Note: securities and lottery are investment modes with high risk and high income, so all information provided by China Mobile service is only as reference.

9 Customer service

9.1 service guide

The number of service after sale is : 8008207007 (dial by fixed phone)

9.2 GoTone Club

Introduce newest information about China Mobile services such as client feedback plan, preferential activities and service introduction. Only charge GPRS communication fee without information fee.

9.3 Service hotline

Client clicks “client service hotline” and call preset service number. Client can modify preset number in settings.

9.4 Customer manager

After setting, call preset number directly.

9.5 Mobile secretary

Mobile secretary includes message sending, message divert and business service.

9.6 My monternet

Provide consulting, quitting all ordered monternet services.

9.7 Client service setting

Hotline: built-in number is 10086(after 2005) or 1860(before 2005). The setting can not be empty, that is, unless client does not modify parameter, the number must be set and saved.

name of client manager: input name of client manager

Number of client manager: without built-in number, this setting can be empty.

Number of mobile secretary: built-in number is 12580. The setting can not be empty, that is, unless client does not modify parameter, the number must be set and saved.

Area number of long-distance call: without built-in number, this setting can be empty.

10 Phone Book

This chapter describes various kinds of functions of phone book. In main menu, press the direction key to choose the phone book for setting the functions of the phone book (if setting a secret password, the password must be inputted for looking over the contents in the phone book. Please refer to section 4.4.3 for the detailed setting about the password).

10.1 Grouping of phone book

All persons in the phone book of this mobile telephone can be grouped.

Among them, a special group is called SIM card group. The difference between it and other groups is: Its corresponding name can be only stored for a telephone number. SIM card can keep some important telephone numbers at any time, and make you find out the telephone number that you need when you use this SIM card on other mobile telephone too. But the number of records that SIM card can keep and the character and figure is limited and decided by capacity of SIM card.

Except the SIM card group, other groups consist of many records and the contents of everybody's record include the name, group's name, mobile telephone number, office telephone, home telephone, E-mail and mailing address.

When newly creating a person's information record, it will be put into an acquiescence group if not specifying the group.

10.2 Input information

In order to make it convenient for you to input the characters in the phone, such input methods as stroke and spelling, etc are specially built in the N5102 mobile telephone, which makes you look up the relevant characters with less times of key-stroke. You may press up / down /left / right direction key to choose the characters or words needed.

10.2.1 Edition window for inputting the text

It is used to input the text content, including the renaming, editing name, editing remark, and editing message etc.

10.2.2 Switch the input methods

When you want to input characters, you must choose a kind of input method firstly. Press **Switch**, activation input methods, press **Select** select input methods:

The input methods built-in the microphone include as follows:

- Chinese spelling input law
- Chinese stroke input law
- Intelligent English small letter input law
- Intelligent English capitalization input law
- English small letter input law
- English capitalization input law
- Number input law

If you want to choose the appropriate input method, please press: **Switch** key.

- Symbol input law

If you switch the symbol input law, please press: **#** key.

The corresponding icon to input law is showed on the lower-left corner of the screen. When editing the information, the explanation about the screen contents is showed as follows:

10.2.3 Chinese spelling input law

The icon of spelling input law is:

T9 PINYIN

The spelling input law provided by this mobile telephone is intelligent. So it has fewer keys. When using the spelling input law, you only need to press the number key with the letter and input the spelling letters of Chinese characters wrote. The spelling on the screen will change along with it continually. You may press **L** key or **R** key to choose the spelling you need, press **U** key or **D** key to look over the spelling options across pages and press **OK** key to confirm your selection. At this time, the black cursor will appear on the candidate Chinese character. You may also press **U** key or **D** key to look over the candidate Chinese character across pages and press **OK** key to choose the Chinese character you need. At this time, the Chinese character you need, will appear in the text input area.

For example, inputting the “科”, you only need to press number key **5** and **3** (you may see the corresponding spelling letter on the keyboard), then press **R** key to choose the spelling “ke”. After you press **OK** key for confirmation, the cursor will appear in the Chinese character selected row. Press **R** key to choose the Chinese character “科”. After press **OK** key to confirm your selection, the Chinese character “科” will appear in the text input area. (ü corresponds to V on the number key) .

10.2.4 Stroke input law

The icon of stroke input law is:

T9 ←↖↑↗

Under the status of stroke input law, you may input the Chinese character according its stoke. Under this status, each key represents the stroke as follows:

Key	Corresponding stroke	Key	Corresponding stroke
1	Horizontal	6	? (Omnipotence key represents any stroke) hook
2	Vertical	3	Left-falling
4	Right-falling	5	Horizontal and turning

According to the Chinese character sequence, press the corresponding number key to carry out the stroke input. The stroke clue is showed on the lower-left corner of the screen and the candidate Chinese characters appear in the bottom row.

You may press **U** key or **D** key to look over the candidate Chinese character across pages and use **L** key or **R** key to find out the Chinese character you need and then press **OK** key to input this Chinese character.

Phrase input: after you input the Chinese character, the corresponding Chinese characters will appear on

below the screen for you to choose to make up phrase that you need.

During the input stroke, you may press **6**key to input “?” for replacing the unknown stroke. For example, when you want to input “好”, but don’t know how to input the first stroke “𠂇”, you may press **6**key for replacing it. At this time, the interrogation mark will appear as the stroke clue. Then you can press the corresponding number key **3** (left-falling) ,**1** (horizontal) ,**5** (horizontal and turning) to the residual strokes according to the stroke sequence. You will see the Chinese character “好” appear in the candidate Chinese characters area. Press the **OK** key for confirmation and finish the input.

10.2.5 Intelligent English small letter input law

The icon of Intelligent English small letter input law is:



The Intelligent English small letter input law has the same intelligence as the spelling input law. Use number keys **2-9** to input the corresponding letter. Each letter can be inputted through pressing the key only once and the word on the screen will change along with it. You may press **R** key or **L** key to choose the candidate word or **U** key or **D** key to look over the candidate words across pages and then **OK** key to confirm your selection. At this time, the words you select will appear the text input area. For example, if you want to input “OK”, you only need to press the number key **6** and **5** (you may see the corresponding letter on the keyboard). Then you will see the word “OK” to appear in the candidate area for word. Press **OK** key to confirm your selection and finish the input.

10.2.6 Intelligent English capitalization input law

The icon of Intelligent English capitalization input law is:



The operation procedure of Intelligent English capitalization input law is the same as one of Intelligent English small letter input law. The difference between them lies in that it can capitalize the first letter of word automatically.

10.2.7 English small letter input law

The icon of English small letter input law is:



Under the status of English small letter input law, press the number key once for the first letter on the key and twice for the second letter and analogize sequentially. If the inputted letter and the first letter are on the same key, please wait for the cursor to appear again and then input the new letter. For example, if you want to input “OK”, you only need to continuously press the number key **6** three times for “O”, then continuously press the number key **5** twice for “K” and the input is finished.

10.2.8 English capitalization input law

The icon of English capitalization input law is:



The detailed operation procedure is the same as one of English small letter input law.

10.2.9 Number input law

The icon of number input law is:



The number input law is very convenient for number input. Input 0-9 ten numbers through **0-9** keys. You only need to press the corresponding number key in order to input the number.

10.2.10 Symbol input law

Press **#** key to activate the symbol input law, which is used to input various kinds of symbols conveniently. When choosing the symbol input law, thirty-six symbols will appear on the screen. You may press up, down, left, right key to choose the symbol. After you find out the symbol you need, press **select** key or **OK** key to finish the symbol's input. When you press **#** key again, exit the symbol input law and back to the input law you used at last time automatically.

10.3 Newly create phone record

After entering into the phone book, activate **menu** key and choose the **NEW** option. You must confirm the save type firstly. There are two selections: save to SIM card and save to mobile phone. If "full memory " appears, which means the mobile phone's memory has no enough space to save the record, you must clean up the memory to vacate the space.

If you choose "save to mobile phone", in the new record window, you may choose to input grouping, name, mobile telephone, home telephone, office telephone, company telephone, department, duty, fax, mobile phone's address, birthday, email, remark and major part photo.

When inputting such text as name, email and remark, enter into the input window for character. For compiling the character content, you may save the email address in the remark. Please refer to the section 4.2 for operation of compiling character.

If you want to choose the grouping, please press **OK** key to enter into the grouping window for choosing. Press up and down key to choose the grouping and then press **Ok** key to confirm the chose content.

When inputting the mobile phone number, office telephone and home telephone, enter into the input window for number. Press **Ok** key for confirmation.

When press **OK** key after finishing the input, the mobile phone will prompt " save successful".

If you choose "save to SIM card", you can save only one telephone number for one name.

10.4 Copy

The grouping copy is a kind of shortcut function provided to replace the mobile phone and copy the information. It is possible to copy the phone records in the phone book with multi-ways.

Copy: copy the contact ways of current linkman;

Copy multi-items: choose the linkman that needs to be copied, then press **OK** key for confirmation. You may choose from SIM card and mobile phone.

For copy from mobile phone to SIM card, please choose the grouping you expect to copy. Three phone records in each record will be saved in three records with same name in SIM card, respectively. E-mail address and address list can't be copied.

For copy from SIM card to mobile phone, each record in SIM card will occupy a record in the mobile phone book, including name, grouping and mobile phone. When copying, the record will be copied to the default

group in the mobile phone.

If space is not enough during the copy, such prompts, as “SIM card full, stop copying “and” Mobile memory full, stop copying will appear.

10.5 Move

The move is a kind of shortcut function provided to replace the mobile phone and copy the information. It can move the phone records in the phone book with multi-ways.

Move: move the contact ways of current linkman to mobile phone or SIM card;

Move multi-items: choose the linkman that needs to be moved, then press **OK** key for confirmation. You may choose from SIM card and mobile phone.

If space is not enough during the move, such prompts, as “SIM card full, stop moving “and” Mobile memory full, stop moving will appear.

10.6 Delete

This mobile phone has the function of deleting the record in the phone book. You may delete the linkman with single way. Choose the linkman you hope to delete, and then choose **delete** to delete the record about current linkman.

10.7 Delete multi-items

Delete the record with selection. Choose **delete multi-items** to enter into the window for choosing name. Press up and down key to choose the record you want to delete. Press **select** key to choose the linkman and then press **Ok** key for confirmation.

10.8 Delete all

Phone Delete all the number which save in the phone ;

SIM: Delete all the number which save in the sSIM;

All: Delete all the number ,phone and SIM.

All: delete all records in the SIM card or mobile phone only once.

10.9 Grouping

Classify the phone records according to the different properties and put them into the different groups, which is convenient to look for them.

There are twelve groups in this mobile phone. When using the grouping list, after choosing the special group, you can conduct such operations as enter, send short message and multimedia message and edit through activating the **menu** key.

You may choose **enter** to enter into the list window of the selected group. If not set it, nothing is displayed. Through pressing the menu key, you can conduct such operations as add, call, send short message and multimedia message and delete.

Send short message: send the short message to all linkmen in the selected group.

Send multimedia message: send the multimedia message to all linkmen in the selected group.

If you choose edit option, you may carry out such operations as renaming, name list, incoming telephone ring and icon selection:

Rename option: rename the group's name with your favorable name (for renaming window and text compiling window, please refer to section 10.2).

Name list option: list all records belonging to the group. Press **menu** key and you may conduct such operations as newly create and delete. Press **OK** key and you may look over the detailed content about the selected linkman.

Incoming telephone ring option: choose and confirm the ring type when the telephone in this group incomes (for ring type, please refer to section 4.1.4).

Icon selection option: choose and replace the icon that represents this group.

Note: SIM card group only has the name list function.

10.10 Find

After entering into the phone book, choose **Find** menu option to show finding type as follows:

Choosing **Name** means to input the special key words in the input window, find the phone record containing the specified character string in the name title of all phone records;

Choosing **Number** means to input the number key words in the input window, find the phone record containing the specified character string in the number title of all phone records;

You may choose the corresponding type according to the content you hope to find. For example, when you choose the “number” finding type, you may input “1390” to find all the telephones containing “1390” and then get a list for finding result. If no matched contents are found, the mobile phone will prompt “not find the matched content!”.

10.11 Black list

10.11.1 Dnable operator

Select **Enable operator** go to the operator list screen , you must enactment the list number before you startup the enable operator, else system will prompt “List empty ,can't startup”.press **option** you can do Enable operator,Set name list :set name list,service time ,rename .

10.11.2 Set name list

Access list

Press **option** you can do:

Select add new :add new number , You can input the desired number directly or select the receiver's number from phone book (when there is number in input window, **pb** on the bottom left corner will change to

enter). Press **pb** and access receiver window, press **U** or **D** to select the receiver, press **OK** and **enter** then finish the operation.

Select **Delete** to delete the number which you select ;

Select Complete : confirm the name list which you add .

Denied list

The same as access list.

10.11.3 Service time

Set the blacklist's service time .Beyond the service time the blacklist can not work.

Setup time : setup start and end time;

Setup period : set blacklist's repeat mode .

10.11.4 Rename

Rename the blacklist' .

10.12 My number

Under the main menu mode, press **0** key for a long time or under the ready and waiting mode, choose “**Phone book**” and “**My number**” option in turn and then input, modify and look over the local phone number.

10.13 Memory status

Capacity inquiry function set in this mobile phone makes user understand the current use situation of the mobile phone clearly.

Capacity inquiry mainly provides the total amount of mobile phone and SIM card and record numbers that has been used.

10.14 Phone list

List all the phone records in the phone book according to the sequence of name's pronunciation and English letter. After choosing the record, you may press **Snd** key to dial the telephone, or press **OK** key to look over the detailed information. When you press **OK** key again, you can modify the information about linkman. After you press **menu** key, you can conduct the operations as follows:

Call: call the number which you select ;

Send SMS: send SMS to the select number ;

Send MMS: send MMS to the select number ;

Delete: delete the phone records that don't need to be saved;

Send name card : send information about linkman with short message way.

Edit : modify the information about linkman ;

Copy : copy the information about linkman in the SIM card (mobile phone) to mobile phone (SIM card);

Move : move the information about linkman in the SIM card (mobile phone) to mobile phone (SIM card);

Delete : delete the number which you select .

10.15 Save telephone number

When you dial a new telephone (please refer to section 2.2.1), inquiry the call records (please refer to section 12.1) and look over the short messages, you may choose the option of saving telephone number in the pop-up menu to save it in the phone book.

Note: save telephone number menu doesn't appear in the main menu.

11 Accessories

11.1 Camera

The use of application program “Camera” may allow you to take photos for the people or event around you at anytime. And the mode change could be made easily across different mode boxes. Photos, which may be saved in the application program “album”, could be renamed under the same box.. And all photos by Camera are in JPG format.

In case that the remaining storage capacity in cell phone is insufficient to take new photos, the deletion of old ones is required to release space. For this purpose, you may check the storage state via capacity inquiry.

Note: The preview and the shooting at the place where light is insufficient might decrease the image quality.

Enter the camera shooting box before the photo to be taken is displayed on the screen of cell phone, and press the key **menu** to activate the menu.

Select **mode** :Mode setting: the modes include single shooting, continuous shooting or video;

Select **environment** : to fix any condition from standard , roon , darkness ;

Select **effect** :select effect include normal , sepia , monochrome ;

Select **photo size** :set the photo size include 96×96、128×96、128×160、320×240、640×480、1280×960;

Select **image quality** :set image quality , include super fine , fine , normal ;

Select **self mode**: It is allowable for the self-shooting duration to be 5/10/15 seconds or to be closed.

Select **Photos**: The photos having been saved in cell phone may be reviewed. And they can be renamed, copied, transferred to SIM card, or deleted by part/full delete.

Select **My movies** : The videos having been saved in cell phone and SIM card may be reviewed.

For photos being taken, the shoot effect may be changed by pressing the direction key “left” while the focal length may be changed by pressing the direction key “up” to view more clearly some part of the image.

11.1.1 Setting

Select **brightness**: to set up the shoot brightness;

Select **zoom**: to determine the zoom size;

Select **Finder** : set main LCDor 2nd LCD for finder ;

Select **Shutter sound**: to make three shutter sounds available for audition by pressing the key

Play or for confirmation of the selection by pressing the key **OK**;

Select **number** set the continuous shooting number ;

Select **Show icon**: to set up the open or close of the display icon.

11.2 Tools

11.2.1 Alarm

This cell phone is available with five alarms, which are all the same in function and use. They may be set to on or off separately.

Under alarm function box, the working state for five alarm groups shall be displayed.

The alarm on or off is indicated by different icon: for instance, when alarm is on, the icon 'on' and the set alarm time following characters will be shown; when alarm is off, the icon 'off' is shown while the set alarm time will not.

11.2.2 Alarm on

Upon the selection of an alarm by user, press the key **select** to enter this alarm state box to check its setting in details.

Refer to the figure shown above: the time setting for alarm1 is 00:00, whereby 00:00 indicates the alarm time; and the period is set to only once, meaning the alarm is on.

To make alarm on, the confirmation on the correctness of alarm time is needed. For example, if the required alarm time is 0:00, you may select the option **time setting** in the alarm display box to enter the **time setting** box, and then enter the required time value by digit keys.

The foresaid alarm works only for one time except that the alarm period is set and confirmed on its correctness. For other settings, select from four different modes the period needed after enter the option **period settings**:

Only once: the alarm works only for one time subject to the setting and then will be off.

Daily: the alarm works at the same set time everyday subject to the setting.

From Monday through Friday: the alarm works at the same set time from Monday through Friday subject to the setting.

Saturday &Sunday: the alarm works at the same set time only on Saturday &Sunday subject to the setting.

Then select **alarm tune** to set up the alarm tune.

The next, select **rename** to give another name preferred to the alarm.

The last, select the option **state** menu to set the alarm on or off.

11.2.3 Alarming

When it is up to the set alarming time, the cell phone will play the alarm prompt sound (if the setting allows) and show on the screen the alarm prompt picture.

In the event that cell phone is power off, the alarm will still work and may be stopped by any key.

It is noted that the alarming will still work per previous time setting even the date and time of cell phone are readjusted. Therefore, the next alarming date and time shall be re-determined subject to the changed date and time in the cell phone.

11.2.4 Scheduler

11.2.5 Function description

Under the personal information management box, the following four functions are available: calendar, task arrangement, schedule list and capacity inquiry.

Within calendar, user may read &check information for current month, specify the date for check &reading,

and perform management on event, including: add to &delete recorded event, change the prompt content as well as the date and time correspond to recorded event.

Under task arrangement, sixty events may be recorded.

The capacity inquiry provided in personal information management is for user's purpose to check the total/available space for recorded event &task arrangement.

11.2.6 Calendar

The monthly calendar for current date will be shown after entering the Calendar, then select the date preferred by shifting square icons with the key **U**, **D**, **L**, **R**, and the Gregorian calendar year &month are specified for the calendar on display at the right upper corner of screen. Besides, any date with event record under the Calendar will be shown in red (yet dates without events will be in black) .

Press the key **menu** to activate it, which covers: select date, add scheduler, scheduler list and storage state.

11.2.7 Select date

Using this function, select any day (within valid time limit) and complete other functions.

After the first access, the current date is shown; upon the selection of any other day, the calendar returned to by pressing the key **confirmation** displays that calendar the date selected belongs to.

And the calendar returned to by the key **return** shall be the one before entering "select date " (note: subject to your date operation, it may not be the calendar for current day) .

11.2.8 Add scheduler

The adding of scheduler requires information relevant to this event, and then the date &time for reminding purpose must be set up.

Press the key **menu** under calendar /event list box to activate the menu, and add the event by selecting the option **add scheduler**.

The setting of new event covers the following:

Date: refers to the date to be reminded for event, this function shall be activated by entering the date value with digit keys under select date box after this option is selected;

Time: refers to the time to be reminded for event, which may be set up under set time box after this option is selected;

Event: refers to the description of event itself, with contents to be entered under text edit box. See Section 10.2;

Period: the period of event to repeat;

State: to make the scheduler on or off.

11.2.9 Scheduler list

Simply press the key **OK** under calendar box to enter scheduler list box, which is used to check all schedulers. Activate the key **menu** for following operations:

Check scheduler: to check the content of scheduler selected;

Add scheduler: to add a new scheduler;

Delete scheduler: to delete the scheduler selected;

Delete all schedulers: to delete all schedulers.

11.2.10 Storage state

Under storage state, the total/unused number of scheduler is shown. And then return to calendar box by pressing the key **return**.

11.2.11 Notebook

The recorded event is applicable to any memorandum and simple statement. And the description of task arrangement is entered under text edit box. Its detailed operation method as shown in section 4.2; After the activation of the key **menu** under recorded event list box, following operations may proceed:

Edit: to edit the recorded event selected;

Send short message: to send out the content of recorded event by short message;

Delete: to delete the recorded event selected;

Delete all: to delete all recorded events.

11.2.12 PowerWord

PowerWord provided in this cell phone supports the inter-translation across English and Chinese, which means that the entered word may be translated from English/Chinese into Chinese/English.

PowerWord is activated by the selection with the key **select**. Upon the completion of word or text enter, press the key **confirmation**, and word containing this character string is shown in this bilingual dictionary box. Press the direction key “up” or “down” to search for the target word, then the key **select** for its detailed information, and the key **exit** to return to word enter box; The cell phone reminds that “your word not available” when any content can't be found to match your word.

11.2.13 Calculator

Using calculator, four calculations including addition, subtraction, multiplication and division may be performed by user's entering digits &calculation symbols, which are shown in edit box.

Take the calculation of 123456789x7.2 for example:

First step: enter digits "123456789", and press **#** to change between plus and minus;

Second step: press operation symbol "x";

Third step: enter digit "7.2", whereby the dot can be made by the key *****;

Four step: press operation symbol "=";

The result from calculation is shown in the bottom line.

A new calculation shall be made by pressing the key **delete** to delete first the content in edit box and entering new digits &calculation symbol, or you may press the key **return** to exit calculator box.

The key **Pwr** is used whereby to cancel the entering of digits or symbols and to exit calculator box and return to the previous box are required. Or for the same purpose, the key **return** needs to be pressed to exit calculator box after the deletion of contents is made under edit box.

In case that the calculation of any digit divided by zero produces a result other than zero, or the result is above 999999999 or below -999999999, the prompt “E” shall occur to indicate an error.

11.2.14 Stopwatch

The stopwatch box is shown on the screen of cell phone by selecting the option stopwatch menu.

The time starts from zero by pressing the key **start**, may be stopped by pressing the key **pause**, and may continue by pressing the key **continue** ; or may return to zero by pressing the key **zero** (in such case, time may be re-started), or may exit from stopwatch box by pressing the key **return** .

After the start up of timing, press the key **Pwr** to return to normal standby mode and enter other working states, and the timing operation on stopwatch may continue after entering this box again.

11.2.15 Countdown

This function is mainly applicable to the prompt operation at given time. Such as: dial up after ten minutes, etc. It provides no content for prompt, and easy for operation.

The countdown may be used in two methods:

Method1: select the menu option **tool –countdown** under accessory box after entering main menu, the cell phone displays the countdown state, whereby the countdown time may be entered, such as: one hour plus twenty minutes denoting eighty minutes; forty five denoting the prompt after forty five minutes. After fixing the time, press the key ‘start’ for the startup of countdown, you may also press the key **return** to return to previous menu, with time duration not included.

Method 2: This function may be activated by simply pressing the minute values under normal standby mode, and the key **option** for the selection of menu option **countdown start**.

For example: if you need to be reminded after forty five minutes, just press the digit key "45" under normal standby mode, then the left function key to pop up the function menu. After the selection of **countdown start** option, the cell phone will prompt: “countdown starts up! ”

The cell phone will prompt in 45 minutes that the set time is available.

Note: the way for prompt is the same as that for alarm, relevant information as shown in section 12.2.1.2.

Note:

- Enter values for minutes;
- Values for minutes shall not exceed 99 (countdown values entered for minutes under standby mode) .
- The prompt box may produce under standby mode for the availability of countdown time. The prompt for other working states shall be made by a prompt tune.

11.2.16 Currency exchange

Using this function, an amount of currency may be exchanged to other equivalent foreign currency.

This cell phone has one type of preset currency exchange, which is changeable, and may be reset with various currency exchange rates. For this purpose, select the item to be set with direction key “up” and “down” as well as scroll bar, then press the key **select** or **OK** to enter respective setting box. After the setting for exchange rates, the amount of currency to be exchanged to will be displayed.

11.2.17 Worldwide clock

With an easy operation method, the worldwide clock provide great convenience for travelers all over the world.

Under the box of worldwide clock, **U** & **L** may be used to move westward the time zone indicating line located in the upper position, and **D** & **R** may be used to move the line eastward. During the course of movement, items located in the lower position, including time zone, name of city, time and date, will change by your random selection respectively. And the name of famed city within this time zone is shown when shifting this indicating line, in such mode, activate the key **setting** or **OK** to set the time of city selected to its local time.

So far, this cell phone could provide following cities correspond to respective time zones:

City	Time zone	City	Time zone	City	Time zone
Beijing	East zone 8	Los angels	West zone 8	Moscow	East zone 3
Hongkong	East zone 8	Mexico	West zone 6	Baghdad	East zone 3
Taibei	East zone 8	Chicago	West zone 6	Kuwait	East zone 3
Singapore	East zone 8	Ottawa	West zone 6	Teheran	East zone 3
Pyongyang	East zone 9	Miami	West zone 5	New delhi	East zone 5
Seoul	East zone 9	Washington	West zone 5	Calcutta	East zone 5
Tokyo	East zone 9	New York	West zone 5	Rangoon	East zone 6
Osaka	East zone 9	London	Zone 0	Hanoi	East zone 7
Manila	East zone 9	Madrid	East zone 1	Bangkok	East zone 7
Sydney	East zone 10	Rome	East zone 1	Jakarta	East zone 7
Hawaii	West zone 10	Paris	East zone 1		
Alaska	West zone 9	Frankfurt	East zone 1		
Seattle	West zone 8	Berlin	East zone 1		

11.3 Games

11.3.1 Java

Wireless JAVA, as somewhat like a mobile multi-purpose box for cell phone, may provide you with various JAVA software at anytime or any place through downloading operation for an easy enjoyment of diversified internet services on cell phone, such as games, flash cartoon, mini-novel, as well as various online applications, eg, internet Games, receiving & sending mails, securities & stock-trade operation, and information consult, so on and so forth. In this sense, the cell phone becomes at anytime a game/stock-trade operation apparatus.

The JAVA mobile multi-purpose box is available with “TV program forecast” and “mobile securities” . The multi-purpose box with different contents may provide cell phone with diversified changes &services as well as endless space.

11.3.2 Games

Box man

The game principal is that the box man may be controlled with direction key “up”, “down”, “left” and “right” to move all boxes only forward to target location, and upon the completion of one stage, the next one shall commence. Besides, press the left Soft key to replay this game from current state, or the right Soft key and the End key to auto-save and exit this game.

Snake

The game principal is that one snake may be driven in any direction other than forward with the key "up", "down", "left" and "right" to eat food and avoid the touch with its body and wall. Besides, press the left soft key once to pause this game and again to restore it, or the right soft key under game state to manual save and exit this game, or the End key to auto-save and exit this game.

Russian diamonds

The screen under the game is composed of two zones: game play zone and prompt zone. Diamonds are typical Russian diamonds in nine schemes. The game principal is that if each line is full filled with diamonds, it shall disappear and a bonus shall be given (more bonus shall be given if more lines disappear at one time), and that this game is ended if diamonds are up to the top resulting in the insufficient space for new diamonds to fall. Beside, the prompt zone shows user's current credit and the shape of next diamond, and the degree of difficulty is adjustable.

11.4 Connection tools

11.4.1 Document transmission

This cell phone is capable to transmit phone book, preferred rings &pictures to user using the connection between data lines (special accessory) and PC computer. When data lines are used, this cell phone supports Windows95, Windows98, Windows NT and Windows2000. If data lines are not included in the purchase of cell phone, place an order from your local retailer. To activate the function as to transmit documents, the installation of synchronized software is required in PC computer.

11.4.2 Internet services by GPRS

It stands for General Packet Radio Service (GPRS). Using GPRS technique, user is able to send or receive data through cell phone network. In this sense, GPRS is a way for data transmission, which supports user's wireless connection with internet data network. And the GPRS application covers such services as WAP, multi-media information, short message, the downloading of JAVA application program, and GPRS dial-up program (eg. Internet &e-mail) .

Events to be noted before the use of GPRS technique:

1. Consult the local network operator or service supplier for the availability or the application procedure (if GPRS not available) for GPRS service;
2. Save GPRS settings necessary for each application concerning GPRS data transmission;

Price for GPRS and other applications

Both the use of GPRS connection and various applications concerning GPRS data transmission need to be paid respectively. The payment for normal data dial-up is calculated by the time duration of internet connection, while that for GPRS mode is calculated by the data amount downloaded from internet. Please consult local network operator or service supplier for detailed information relevant to price.

12 Call record

The call record covers recent missed/received/dialed calls and call time as well as such function as to delete records.

If the cell phone is unlocked under normal standby mode, press the key **Snd** to check recent dialed calls (If security password has been set, just enter this password to check the contents in call records, and the detailed setting method for password as shown in section 4.4.3) .

Press the key **menu** to enter main menu before direction key is pressed for the selection of call record menu, then press the key **select** to enter call record box, which is available with four items: missed/received/dialed calls and call time.

Subject to the above, you may consult recent received/missed calls (call duration not shown in detailed information) , time &duration for dialed calls, phone number and times for received calls.

12.1 Missed calls

After the selection of option "missed calls" by pressing the key **u** or **D** under call record box, the key **select** may be pressed to enter missed calls box. For operations on selected call record as shown below under this box, the menu needs to be activated by pressing the key **option**:

Select **Call** to dial phone numbers selected, and relevant information as shown in Section 2.2.

Select **Send SMS** to perform operations in connection with the function of short message; relevant information as shown in 6.2;

Select **Send MMS** to perform operations in connection with the function of Multimedia Messaging Service;;

Select **Save** to save numbers necessary to be kept to phone book; relevant Information as shown in 10.12. ;

Select **delete** o delete records unnecessary to be kept;

Select **delete all** to clear records unnecessary to be kept;

Select **reco rd** to be viewed by pressing the key **OK** to view detailed information for missed calls, including user's name for missed call (if this phone number available in phone book), phone number, time &date, and group names. Following operations may be activated by pressing the key **option**:

Select option **Call** to dial phone numbers selected; relevant information as shown in section 2.2;

Select **Send SMS** to perform operations in connection with the function of short message; relevant information as shown in 6.2;

Select **Send MMS** to perform operations in connection with the function of Multimedia Messaging Service;

Select **save** to save numbers necessary to be kept to phone book; relevant Information as shown in 10.12;

Select **delete** to delete records unnecessary to be kept;

12.2 Answered calls

Operations on missed calls.

12.3 Outgoing calls

Operations on missed calls.

12.4 Call duration

The option **call duration** can be activated by pressing the key **U** or **D** under call record box and pressing the key **select** for an access to **call duration box**. Under this box, following may be viewed: last call duration, total duration for dialed & received calls, total call duration.

To clear call duration to zero, just press the key **zero** , and confirm with the key **confirmation** ; for the same purpose, press the key **return** to exit from current operation, and a prompt will be given respectively by cell phone.

13 Common symptoms

Cell phone unable to be switched on

- The cell phone is unable to set up the dial-up and power off due to lower battery. Please charge the battery.

Unable to dial some calls

- The call barrier having been set in the cell phone constraints the use of cell phone, please check and cancel it.

Someone is receiving my call

- The cell phone has been set to transfer your call to another number, please check and cancel it.

Display information

During the operation, the cell phone may display information prompt due to following error operations:

”Insert SIM card”

- SIM card must be inserted into cell phone before its use, or taken out (If already inserted) for cleanup on its golden area with dry cloth and then inserted again.

”Network not available”

- Your cell phone is out of the coverage by network (or physical barriers might exist between you and transmitter), and unable to dial up or receive calls. Please be near to the window when you're indoors.

”Emergent call only”

- If your cell phone is not covered by service supplier's network, another network within your area may allow you to dial emergent call subject to the signal intensity.

”Invalid SIM card”

- The SIM card has been locked up, which is unable to be received by the cell phone. Please insert correct SIM card or contact with the seller.

”Enter PUK code”

- SIM card has been locked up due to a continuous input of the wrong PIN code for three times. Under such case, a new special eight-digit PUK code must be applied from the network supplier to unlock the SIM card (PUK code may be supplied with PIN code at one time).

Warning: After entering continuously the wrong PUK code for ten times, SIM card will be locked up permanently. Under such case, a new SIM card should be applied from the network supplier.

14 Accessory

Charger

- It will charge the Li battery quickly and completely. The charge duration varies subject to the capacity of battery.

Li battery (one piece)

- The Li battery xxxxmAh can provide standby duration lasting for XXX-XXX hours or call duration lasting for XX-XXX hours.

***Specific standby &call duration shall be determined subject to the actual condition for the use.**

Note:

Only approved battery, charger and other accessories by cell phone manufacturer may be used. And the use of other types of accessories will infringe the quality certification and maintenance license for this cell phone and leads to dangers.

15 Maintenance guideline

Welcome to use cell phone produced by NEC company. Whereby a failure occurs in the use of your cell phone, you're requested to contact with your seller or consult NEC maintenance center; whereby maintenance is needed, your cell phone may be sent/brought to local maintenance point (the specific maintenance points as shown in 'Three Warranty License' provided with cell phone) ; whereby a maintenance point is not available in your place, you're requested to bring your cell phone and the copy of respective invoice to seller for EMS mailing.

You shall be cautious to the use of cell phone as it's made using excellent design and technique. To prolong the life of cell phone, you're required to perform obligations as specified in Maintenance Warranty License as per following recommendations:

- Keep cell phone and its accessories out of the reach of children;
- Keep cell phone always dry as rain water, moisture, various liquid, and water contain mineral materials, which may results in the corrosion of electronic circuit.
- Do not use, store or keep cell phone in places containing dusts, or its removable parts might be damaged;
- Do not store or keep cell phone in hot places, as the high temperature might shorten the life of electronic parts, damage the battery, and deform or even melt some plastic parts;
- Do not store or keep cell phone in cold places, or a humidity may form inside cell phone when the temperature on cell phone rises (up to normal temperature) , which causes the damage on electronic circuit board;
- Do not attempt to disassembly cell phone as the operation by unauthorized personnel will damage it;
- Do not throw, beat or make a vibration to cell phone, or internal electronic circuit board might be damaged;
- Do not clean and wash cell phone with strong chemical produce, abluent, or strong detergent;
- Do not apply coating to cell phone, or its normal operation may be affected due to a blockage in removable parts, which results from coating.
- To change antenna, only authorized or matchable antenna shall be used, and any use of unauthorized antenna or modified accessory may damage cell phone and infringe relevant stipulations for wireless apparatus.

Allforesaid recommendations are applicable to your cell phone, battery, charger and each spare part. If they can not work normally, please bring/send them to the qualified maintenance organization nearest to you.