User Guide

SP120

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● Information For Safe Operation

Please read the following user manual carefully to keep from injuries.

● About Storage And Maintenance

Do not try to disassemble or repair the phone.

Avoid wet and damp places.

Do not use harmful detergent or harmful chemical materials to wash the phone.

Instead, use soft cloth to rub its appearance.

Do not inflict strong shock on the appliance.

The appliance shall be situated near the electronic switch for hands to reach easily when the battery is charged. Do not put the phone in high temperature environment, which may cause defects on the phone. The warranty on this phone will be invalid if it is repaired by an unauthorized person. And its maker does not take responsibility for the breakdown caused afterward.

Never extract the battery from the phone while turned on, which will cause defects on the phone.

Contact the agency you joined if the phone or its parts (charger, battery, and so on) malfunction.

● Menu

1. Calls
2. STK
3. Organizer
4. Sound
5. Phonebook
6. Messages
7. Games
8. Display
9. Settings

● Measurement Of Radio Frequency Exposed (Absorbed Special Rate Information SAR)

This phone is a communication appliance with low-output electric wave. Complying with EU standard requirements related with radio wavelength exposure, the phone has been designed and made not exceeding the energy exposure limit of the radio frequency as recommended by European Union board of directors. The limit specified above is a frequency allowable in general as a world standard.

World standard value was developed, based on thorough and regular scientific researches and estimation (examination) by an independence research institution. The limit is a standard to search for safety of all, regardless of age or present state of health.

Standard value of the phone exposure is displayed in unit of Specific absorption index (SAR).

● Communication Network Service

The mobile conforms to the communication standard laws of GSM850, DCS1800, PCS1900 and GPRS.

Read this user manual thoroughly to understand and learn the functions of this appliance.

Customers should know that the trio function (850-1800-1900) is a feature coming from the communication network.

Make sure that this feature is available via the RED exchange service personnel.

Additional RED services are available for this phone.

For these services, however, customers are required to join the exchange service.

For further information on How To Join, see below.

● Safety On The Road

Please remember that using a mobile phone during driving is prohibited.

Follow the rules as applicable in each country.

Stop the car in a safe place if you need to answer or use the phone.

Please always remember the following before using the phone in emergencies.

Focus on driving only.

Remember the most considerable thing is nothing but your safety.

If you want a Hands-Free device on vehicles, let it installed by an authorized engineer.

● Safety In Hospital

The mobile phone since designed to transmit electric waves can disturb functions of electric or medical appliances.
Remember to turn the phone off always in hospital.

● Safety In Flight

Remember the phone if used in the airplane can disturb functions of electric wave equipment of the airplane.
Therefore, the use of the phone is illegal in the airplane.
Remember to turn the phone off always during flight.

● Safety In Places Where Explosion Is Predictable

In such places as gas stations or chemical factories where explosion is predictable, the use of any electric wave equipment is illegal and prohibited.
Turn off the phone and avoid the use near any gas station.

Infrared Equipment And Safety

This phone includes infrared transmission equipment.
Do not let infrared rays come in contact with eyes of others nor use together with other infrared equipment.

Electrical Equipment

Most electric appliances are secured and protected against the effect of the phone radio frequency.
Nevertheless, there are some products that are not protected against.
A person who works in a manufacturing company of those products, wearing heart pulsimeter is desired to keep at least 15cm away from the phone to avoid the electric wave.
If applicable problems still occur as before to the person with heart pulsimeter, then the phone shall be turned off.
The phone can disturb functions of some kind of microphones.
In this case, please contact the manufacturing factory of such microphones for further information.
Since the radio frequency signal generated from this phone may have an influence on electric equipment of a car (air bag, brake, and so on), please be well informed thereof via its maker.

● Battery And Parts

This phone uses a rechargeable battery of Li-ion Technology.

The battery if completely recharged is usable to call for a duration of 230 minutes and available for standing-by for a duration of 180 minutes.

Do not use any charger or battery if damaged or worn out.

Do not touch any circuit of the battery. It will cause damage thereon.

If the battery is kept in hot temperature, its function and duration may be deteriorated.

Keep temperature always as similar as possible.

The phone if kept in too high or too low temperature may not operate from time to time even if the battery completely recharged.

Time required to recharge the battery may be different according to several factors such as capacity left, type of battery and charger, and so on. For the better performance of recharge, keep suitable temperature.

The battery although completely recharged can be discharged of itself as the time elapses.

Unplug the switch of the charger if not used.

For effective operation of the phone, please stand the phone always lengthwise.

Do not throw the battery in a ditch or a fire.

The battery shall be recycled according to its related laws.

Use only the battery, charger and parts attached to the phone just as provided from the factory.

Parts shall be compatible to be used.

If not, its warranty will be invalid.

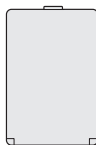If some parts need replacement, contact the agency you joined to order.

Fill up the battery to the maximum prior to its first operation.

For pluggable equipment, the socket-outlet shall be installed near the equipment and shall be easily accessible.

Handset

Battery

User Manual

Charger

Earpiece

LCD Screen

Navigation &
OK Key

Menu Key

Send Key

Back Key

END / Power Key

MIC

Alphabet / Number Key

Charger Port
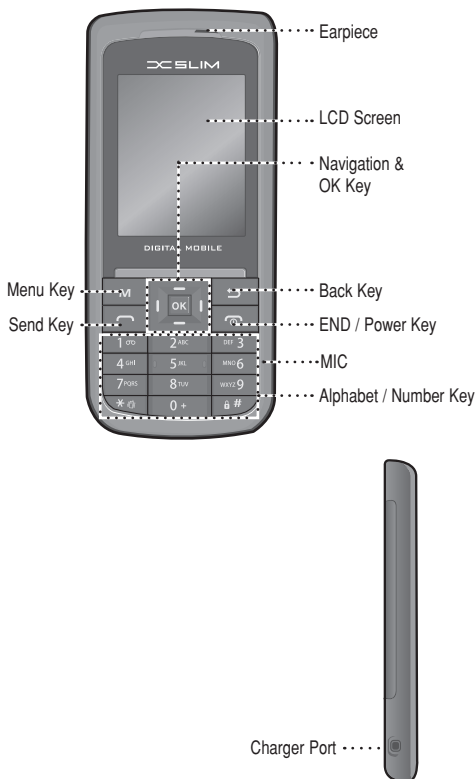
In The Beginning

Installment Of SIM Card

To answer the phone or to call, the mobile needs a available SIM card, which the communication company may have installed already. Note If the mobile is used, installation state of the SIM card will be displayed. If the SIM card is not installed, a confirmation paragraph will be displayed.

1. Remove the battery after pulling the hook outward with the mobile turned off. The battery since adhered to the cover will come out as one component.
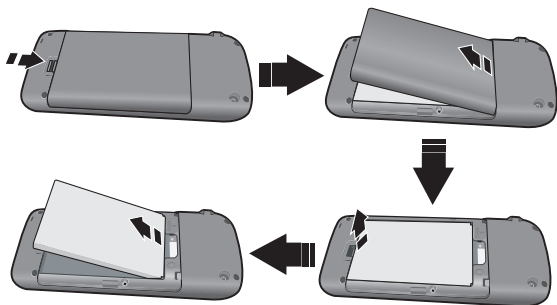
2. After the battery is removed, insert the SIM card to the hole. At this moment, make sure the corner of card fits well on the rim of the hole so to insert the card, checking the remaining aspect. Insert SIM card as shown in the following figure.
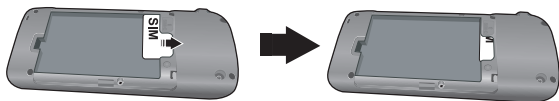
3. As for the two holes, make sure the cover on the rear fits well to insert the battery. Finally, keep pressing the lower of the cover till it sounds Tic.
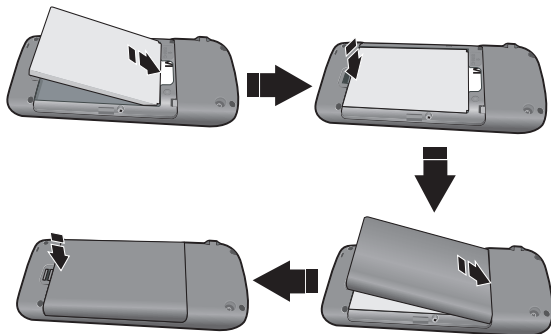
4. Pull the hook and insert the cover and the battery.

Note: Follow these procedures or some defects may occur on the support parts of the entrance, which will not be guaranteed.

Battery Charge

1. Insert the charger as shown in the figure. The screen will display the Battery is being charged while the phone is turned on for several seconds before returning to the previous step. (your phone is available even during the battery is charged). If the phone is turned off, display of Battery is being charged will be continuously displayed.

2. If the charge is completed, the screen will be as shown in the figure. To remove the charger hold and press the both ends to extract.

● Phone ON/OFF

Keep on pressing the End Key 🔲 for 5 seconds to turn on the phone.
This function is designed to avoid unintentional ON or OFF of the phone
when kept in a pocket or luggage.

Start
If PIN enable setting on after the phone is turned on, you will be required to
input 4-digit password. Input correct password and press OK Key.

Note: If password is not input, only emergency call will be available with
SOS Key.

In case the phone has been off for long, you may be asked to make sure if
date and time are correct.

If they are not correct, press edit Key.
If the date is correct, press OK Key [OK] .
If the date is not correct, input new date using the number on the Key pad
and then press OK Key [OK] .

If the time is correct, press OK Key [OK] .
If the time is not correct, input new time and then press OK Key [OK] .

Stand-by Screen

Note For about 1 minute and 30 seconds after the phone is on, it's image and menu may be displayed a little slower than usual. This delayed time is for environmental setting of the menu. And the menu will not be displayed during this duration. After this duration, the speed will be back to normal.Stand-by screen is displayed when the phone is available to answer or use to call.

- **Central Part:** If the phone is not available yet for services, bumpy paper type of background is displayed, where main menus are displayed here too.
- **Lower Part:** On the top, present time will be displayed. On the bottom, will be day, month, year displayed as a selection Key.

- Press the menu Key located below the menu in stand-by screen stat so to display the main menu.
- Press the back Key located below the Call menu in stand-by screen state so to display the Call menu.
- Press the upper of the direction Key in stand-by screen state so to display the Messages menu.
- Press the lower of the direction Key in stand-by screen state so to display the STK menu.
- Press the left of the direction Key in stand-by screen state so to display the Phonebook menu.
- Press the right of the direction Key in stand-by screen state so to display the Entertainment menu.

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The direction Key will be used mainly to appropriate functions of the phone.

- Keep on pressing End Key [icon] in stand-by screen state to turn on/off the phone.
- When the screen is in a normal state, press Send Key [icon] to display the call record.
- In order to make a call, press number first in stand-by screen state and the call Key next. Keep on pressing one number among 2 and 9 and a call to the number as input will be made. In the following table, various functions are described as applicable when number keys are pressed for short or long in stand-by screen state.

They are company mode and individual mode, where a relevant SIM card mode will appear if any password is input in stand-by screen state. Company mode and individual mode have their own numbering system respectively.

	Short	Long
1	No.1	Call connected to voicemail box
2	No.2	Speed Dial
3	No.3	Speed Dial
4	No.4	Speed Dial
5	No.5	Speed Dial
6	No.6	Speed Dial
7	No.7	Speed Dial
8	No.8	Speed Dial
9	No.9	Speed Dial
0	No.0	Symbol +
*	Symbol*	Vibration Mode
#	Symbol#	Lock Keypad

Dual SIM card: Dual SIM card has 2 passwords and 2 relevant modes respectively.

Icon	Name	Description
	Antenna	Always displayed to show service area if reached.
	Service available level	Always displayed to show service available level (0 to 5) in a bar graph.
	Service available level A	The greatest service available level with the maximum bars.
	Bell mode	There are 4 modes available (sound only, vibrate only, sound with vibrate, Manner).
	Roaming state	Displayed while user is in other service area or receiving a call abroad.
	New Message	This will be displayed when a new message is received.
	New voice message	Displayed when a new voice message is received.
	Battery	Battery charging level - the more blocks, the stronger the charge.
	Alarm	Displayed if alarm is set via the calendar.
	Battery charging	

Calls

Making A Call

To make a call, press desired phone number in stand-by screen state and then Call Key ▭.
If you input wrong number, back Key ▭ to delete the last number input.

Press End Key ▭ to finish the call.
In the stand-by state of the phone, input number to display the following screen.

If the inputted phone number is displayed, just press OK Key ▭ and specify a save folder.

If SIM card or the memory of the phone is displayed automatically, specify a related type of the phone too. (Refer to the user manual for more detailed procedures)

Answering The Phone

Press Call (receive) Key ▭ to answer the phone call.
Press End Key ▭ not to answer the phone call.

● **Whole Menus**

In the stand-by state, press the menu Key ▦ to go to standard menu. Press the direction Key ▦ (up/down/left/right) to get into menu desired. While pressing the menu Key ▦ , press relevant number to get into the category applicable. Figures of the icons, names of the categories, brief description of each menu and short-cut keys are as in the following table;

Icon	Menu	Description
	Calls	To look through call record
	STK	To use the Function in the SIM card.
	Organizer	To use calendar, Alarm clock, calculator, World Clock, information on various events meeting, birthday), etc.
	Sound	To setting sounds.
	Phonebook	To save phone numbers.
	Messages	To read and write text messages.
	Games	To select new video games.
	Display	To specify display.
	Settings	To specify network, languages, background image and other environment of the phone.

Common Screens And System In Various Menus

Input Phone Number

When you start inputting number in stand-by state, the number will be displayed, moving from right to left as it is inputted. If the number input reaches the end of the right, the number will move to the lower line to prepare a space for the next numbers to input.

During inputting number, the screen will be as shown below.

In order to insert a number between numbers just entered, use the direction Key [ ] (up/down/left/right) to move the cursor.

Press Back Key [ ] to delete the number on the left of the cursor.
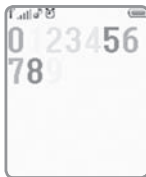
Writer

Writer is used to input phone number, text or number.

All kinds of writers (phone number, number, text) have their own functions respectively.

Writer Of Phone Number

It is used to input phone number from the phonebook. Above all, press number in stand-by screen state to get into the screen of writer function. 0 ~ 9 are available to enter, which has the following features.

- Keep pressing 0 to display + character.
- Press <*> and <#> to input characters of <*> and <#> respectively.
- Press Back Key ⬜ to delete the last number input. Keep on pressing Back Key ⬜ to delete the whole number input (whole number) and to return to stand-by screen state.
- Press OK Key ⬜ to go to next step. Press Back Key ⬜ to go back to the previous step of the screen.

Writer Of Number

It is used to input password 1, password 2 and call-restricted password. Press the following keys to make use of its functions specified.

- Use the keys 0 to 9 to press such number 0 to 9 as applicable.
- <*> and <#> Key has no function.
- Press Back Key ⬜ to delete the last number input. Keep on pressing Back Key ⬜ to delete the whole number input.
- Press OK Key ⬜ to go to next screen. Press Back Key ⬜ to go back to the previous screen.

Writer Of Text

It is used to input text of names or messages. There are 6 input methods for text writer.

- [AB] Capital letter input: displays all the input text in capital letters. This can be used together with Multi Input and Smart Input which will be later described.
- [ab] Small letter input: displays all the input text in small letters. This can be used together with Multi Input and Smart Input.
- [Ab] Capital & & Small letter input: In case with Multi Input accompanied, this will change the text if once input by user, to small letters automatically. In case with Smart Input accompanied, this will make the first letter be a capital letter, and the rest be small letters automatically.
- [12] Number Input, number input is available fast. (Press number 0 to 9 to display 0 to 9 as applicable, and press # Key to display the decimal point.)

Note: Press <*> shortly to change input sequence as follows;
AB, ab, Ab, 12.
Input method is displayed between the two menus in the center of the bottom line of the screen.
(See below):
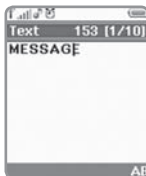
As described above, there are two input methods.
- Multi Input (Multiple Input)
- Expected Input (Smart Input)

Note: Keep on pressing <#> Key in text writer to change to symbol input mode.

Multi Input

This method operates differently according to the language specified.
If Spanish has been specified, following text will be displayed when you
press one numeric Key repeatedly.

Key Press	1a Press	2a Press	3a Press	4a Press	5a Press	6a Press	7a Press
1	Space	,	1	?	!	1	
2	A/a	B/b	C/c	2	Á/á	À/à	Ç/ç
3	D/d	E/e	F/f	3	É/é	È/è	
4	G/g	H/h	I/i	4	Í/í	Ì/ì	
5	J/j	K/k	L/l	5			
6	M/m	N/n	O/o	6	Ñ/ñ	Ó/ó	Ò/ò
7	P/p	Q/q	R/r	S/s	7		
8	T/t	U/u	V/v	8	Ú/ú	Ü/ü	
9	W/w	X/x	Y/y	Z/z	9		
0	Space	*	#	0			
*							
#							

Smart Input

This makes fast text input available. With the improved technology of (Press
and Expect), a function to expect is realized, making use of the dictionary
prepared in the language specified. In this way the writer provides the serial
expected characters of text when the user presses the Key once.

Text Selector

Press # Key shortly in the screen of text mode to display text selector which can display special characters which are not available in general text mode. Move the direction Key (up/down/left/right) on the text desired to select those special characters.

If you select the special character. Press OK Key to input applicable character. Characters available are as follows;

1. Press menu when the phone is in stand-by state to display options on main menu.
2. Use the direction Key to select a Calls icon.
3. Press OK Key. The Calls option in principal menu will be displayed.
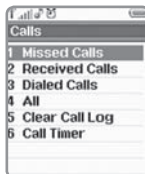
- Missed Calls
- Received Calls
- Dialed Calls
- All
- Clear Call Log
- Call Timer

● **Missed Calls**

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Calls menu then press OK Key.
3. On Calls screen, Select Missed Calls and press OK Key to display the following information.
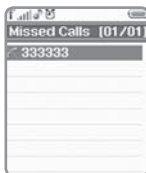
Select a call desired and press menu Key to display new menu with the following options;

- **Send Message:** Sends a message to selected number.
- **Save:** Allows you to add new contact to address book conveniently. You should specify where to save information and details of contact name, phone type, etc., as described previously in address book options.
- **Delete:** Deletes selected number from call list, which needs your confirmation. Select Yes then Press OK Key to confirm to Delete Call.

● Received Calls

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Calls menu then press OK Key.
3. On Calls screen, Select Received Calls and press OK Key to display the
   following information.

Select a call desired and press menu Key to display new menu with the
following options;

- **Send Message:** Sends a message to selected number.
- **Save:** Allows you to add new contact to address book conveniently. You
  should specify where to save information and details of contact
  name, phone type, etc., as described previously in address book
  options.
- **Delete:** Deletes selected number from call list, which needs your
  confirmation. Select Yes then Press OK Key to confirm to Delete
  the Missed.

● Dialed Calls

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Calls menu then press OK Key.
3. On Calls screen, Select Dialed Calls and press OK Key to display the
   following information.

Select a call desired and press menu Key to display new menu with the
following options;

- **Send Message:** Sends a message to selected number.
- **Save:** Allows you to add new contact to address book conveniently. You
  should specify where to save information and details of contact
  name, phone type, etc., as described previously in address book
  options.
- **Delete:** Deletes selected number from call list, which needs your
  confirmation. Select Yes then Press OK Key to confirm to Delete
  the Missed.

All

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Calls menu then press OK Key.
3. On Calls screen, Select All and press OK Key to display the following
   information.

Select a call desired and press menu Key to display new menu with the
following options;

- **Send Message:** Sends a message to selected number.
- **Save:** Allows you to add new contact to address book conveniently. You
  should specify where to save information and details of contact
  name, phone type, etc., as described previously in address book
  options.
- **Delete:** Deletes selected number from call list, which needs your
  confirmation. Select Yes then Press OK Key to confirm to Delete
  the Missed.

● Clear Call Log

This option is used for you to erase all the call lists through call option menu. (Missed, Received, Dialed, All)
It will erase all the record of calls with ease.

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Calls menu then press OK Key.
3. On Calls screen, Select Clear Call Log and press OK Key to display the following information.
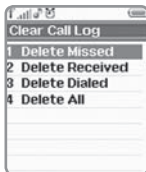
- **Delete Missed:** Deletes all calls in absence saved.
- **Delete Received:** Deletes all received calls saved.
- **Delete Dialed:** Deletes all sent calls saved.
- **Delete All:** Deletes all the lists of calls saved.

● Call Timer

This provides information on calling time used in total (time used for calls dialed and received including the last one). Follow the procedures below to use this option.

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Calls menu then press OK Key.
3. On Calls screen, Select Call Timer and press OK Key to display the following information.
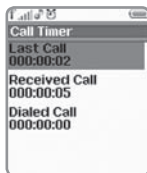
5. Press Back Key to go out of this screen.
6. Press Reset Key and select desired option on the menu below to set the counter to 0 (Zero)

   • **Last Call:** Erases the time used for the last call.
   • **Received Call:** Erases the accumulated time used for calls received.
   • **Dialed Call:** Erases the accumulated time used for calls sent.

7. Every option if selected will ask you to confirm.

   • **Reset:** Erases the accumulated time used for calls received and sent.
   • **Reset All:** Erases all the accumulated time used for calls received and sent.

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select STK menu then press OK Key.

Note: It displays the menu that the SIM card could supports.

The options on Organizer menus allow you to connect to other functions of the phone and SIM card (My services, Calendar). Follow the procedures below to enter Extras menus.

1. Press menu when the phone is in stand-by state to display options on main menu.
2. Use the direction Key to select a Organizer icon.

Option list related with Organizer menus will be displayed as shown below;

- Calendar
- Alarm Clock
- Calculator
- World Clock

How to operate each tool will be described later.

● Calendar

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Organizer menu then press OK Key.
3. Select Calendar on Organizer menu and press OK Key

Main options related with Calendar will be displayed as shown below;

Add Events

On Calendar screen, select Events option and press OK to display the screen, where you can add, delete or execute an event.
Follow the procedures below to apply this function;

1. On option screen, select Add event and press OK Key.
2. Go to the screen where you can select the type of event to specify.

- **Schedule Alarm:** Sets an alarm for Shcedule.
- **Meeting:** Sets an alarm for meeting.
- **Birthday:** Sets an alarm for birthday.

Note: Definition of each alarm differs a little according to each case as follows;

3. Select an event type among three and press OK Key (Up to 20 events can be added. And date and time of the phone are always used when a new event is added).

4. The following describes how to add text for event being specified. A text writing screen will be displayed for you to input 64 characters. After text is written, press OK Key.

5. The next procedure is how to input event date (Default is the present date of the phone). input numbers directly on the key pad so to specify the date.

Note: Setting of starting time only will be enough for an event type of birthdays.

6. Now, Start and End time (when the phone operates the alarm) of desired event shall be set. Use the phone Key directly or Up/ Down Key to input.

7. Now, how many times the event will be repeated shall be specified, where the following options are available. Select a desired option and press OK Key.

You don t need to set the period in case of birthday event.

View Calendar

Any event once after specified can be checked everyday through the
following options displayed on calendar screen;
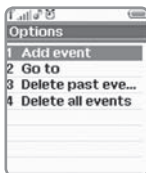
- • **Add Event:** You can add a event.
  - **- Schedule Alarm:** Description, time and date.
  - **- Meeting:** Description, date, start time, end time, frequency, alarm
    type, alarm time.
  - **- Birthday:** Description, date, time and alarm type.
- • **Go To:** Goes to the date designated on calendar in order to see the
  event set on the date described.
- • **Delete Past Events:** Deletes all the events which happened before
  today. Select this option and press OK. Then you
  will be asked to confirm.
- • **Delete All Events:** Deletes all the events specified, which will ask you
  to confirm.

Press Back Key to return to previous menu (It is the fastest route to get out
of the calendar menu).

Other Event Options

You can execute other operation on calendar menu. Select Event option on the displayed screen and press Select. Then, choose Select and press Select to display the event list arranged, based on specified date and its operation time (See the figure below).

- **Edit:** Edits specific details related with event (Description, Date, start time, end time, frequency, etc.)
- **Delete:** Deletes selected event. You will be asked to press Yes to confirm).

Note: Factors to be written for event are different according to its type. That is to say, all kinds of events do not have the same factors.

● Alarm Clock

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Organizer menu then press OK Key.
3. Select Alarm Clock on Organizer menu and press OK Key.

- • **Alarm:** Select On or Off.
- • **Time:** Setting time with number key.
- • **AmPm:** Select Am or Pm. Select Am or Pm. (This option will not be shown in 24hours time mode)
- • **Frequency:** Select (Once, Weekend, On weekdays, Daily).

● Calculator

The mobile calculator helps you to perform basic calculation work. Follow the procedures below to use the calculator.

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Organizer menu then press OK Key.
3. Select Calculator on Organizer menu and press OK Key.
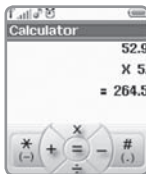
- Use number keys to input numbers desired.
- Use # key to display a decimal point.
- Use * key to make a negative number.
- After desired number is input, press up/down/left/right Navigation key to input the signs of x, ÷, +, and -.
- Input the first number and then the second number to calculate.
- Te get the result of the calculation, press OK Key.

Press Back Key to return to previous screen.

● World Clock

The World Clock can be uesd to check the Time of the Capitals in the world.

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Organizer menu then press OK Key.
3. Select World Clock on Organizer menu and press OK Key.

Setting World Clock

- **Save**
- **Set DST:** Setting DST.

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Sound menu then press OK Key.

- **Volume**
- **Ringer Tone**
- **Alert Mode**
- **Message Tone**
- **Key Tone**
- **Error Tone**
- **Connect Tone**
- **Power On Sound**
- **Power Off Sound**

4. Sound

● Ringer Tone

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Sound menu then press OK Key.
3. Select Ringer Tone on Sound menu and press OK Key.

Sets melody for received call. Select this option and press Select to display
My melodies (melody 1~10).

● **Alert Mode**

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Sound menu then press OK Key.
3. Select Alert Mode on Sound menu and press OK Key.

Set the alert mode when the phone operates.

- **Ring Only:** Alerts(Ring) only with sound when you have a call or/and operates the phone.
- **Vibrate Only:** Alerts(Ring) only with vibration when you have a call or/and operates the phone.
- **Ring + Vibrator :** Alerts(Ring) sound with vibration when you have a call or / and operates the phone.
- **Manner mode :** Alerts only with vibration when you have a call or/and operates the phone.[Only can be set in Idle screen, with long pressing * Key]

● **Key Tone**

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Sound menu then press OK Key.
3. Select Key Tone on Sound menu and press OK Key.

• **On**
• **Off**

Allows you to apply or cancel the sound function operated if a Key is
pressed. Each Key has an individual tone. Select off option if you want to
make no sound when a Key is pressed.

● **Error Tone**

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Sound menu then press OK Key.
3. Select Error Tone on Sound menu and press OK Key.

• **On**
• **Off**
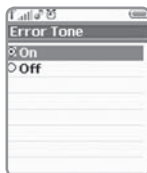
Allows you to apply or cancel the sound function operated if an error occurs on the phone (Default is set on).

● Connect Tone

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Sound menu then press OK Key.
3. Select Error Tone on Sound menu and press OK Key.

• **On**
• **Off**

Allows you to apply or cancel the sound function operated whenever your phone is connected to the other devices.

● Power On Sound

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Sound menu then press OK Key.
3. Select Error Tone on Sound menu and press OK Key.

- **On**
- **Off**

Allows you to apply or cancel the sound function operated whenever your phone is power on.

● Power Off Sound

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Sound menu then press OK Key.
3. Select Error Tone on Sound menu and press OK Key.

   • **On**
   • **Off**

Allows you to apply or cancel the sound function operated whenever your phone is power off.

In Phonebook, phone number, name and other information are saved and displayed.

There are three points of contact in address book.
1. **SIM:** Information related with contact is saved in SIM memory only.
2. **Only The Phone:** Information is saved in phone memory only.
3. **Double (copy):** Name and phone number of these contacts are saved in SIM memory and phone memory.

A special icon represents each contact.
In this way, SIM contact uses SIM card-shaped icon [icon] , and the next icon [icon] is used for phone contact.

The followings are several rules used in address book.

  • As specified, address book displays whole address book on the screen to show all contacts.

● How to enter Phonebook

There are two methods to get into whole Phonebook.
1. Press the Menu Key in background screen.
2. In the basic menu screen, press OK Key while Phonebook icon is
   selected.

To make a call, select the one desired and press Call Key .
Or find the entry to call directly on the list. Press only the first letter of the
contact desired to call to display in alphabetic order all the names which
have the letter in front.

The options are as follow;

- **Find Entry**
- **Add Entry**
- **Group Search**
- **Speed Dial**
- **Memory**
- **Copy To Phone All**
- **Delete All**
- **Own Number**
- **Service Number**

The function of each option is as follows;
In order to select one of them, select direction Key first and then press OK Key.
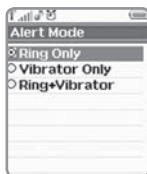
● Find Entry

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Phonebook menu then press OK Key.
3. Select Find Entry on Phonebook menu and press OK Key.

This option is used to search for other contacts on the contact list.
On the screen write more than 1 characters of the contact name to find.
If written, the applicable name with the same characters is displayed.
Now you may search up and down to find the name on the list.
For example, press No.2 Key to fast reach names with the first character of C.
If there is no name with such a character, the Key will show names with the next character (in alphabetical order).
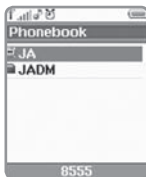
● Add Entry

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Phonebook menu then press OK Key.
3. Select Add Entry on Phonebook menu and press OK Key.

This option add entry to phonebook. Select this option to display the following screen

- **To Phone Memory**
- **To SIM Memory**

Note: New contact can not be made directly to whole address book.For this operation, you should make it first in SIM or phone address book and then copy the contact to address book next. Select In phone memory to make contact in address book. Select In SIM memory to save contact in card. Select option as desired and press Select Key.

Note: Press * (asterisk) to specify phone using capital or small letters or shortcut Key. (Ab - change capital to small; 1 - number, AB - all capital, ab - all small) Press Previous Key to display option screen again. Use numeric keys to write name and then press OK Key to save it. Press this Key to display address book screen.

Input number with numeric keys and then press OK Key to save this number in memory and to display option screen of type. From here select the type of the phone number (home, mobile, work, fax) and press OK Key. Press Back Key to return to address book screen again and the name just input will be displayed.

● Group Search

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Phonebook menu then press OK Key.
3. Select Group Search on Phonebook menu and press OK Key.

specifies group of contacts. The group of contacts means a meeting for user to send call and message to at once. For example, if one group is classified into family, friends, co-workers, etc., you may use this option conveniently to send the same message to all the members of a specific group as classified.
Specify groups as applicable to receive group messages.
Up to 8 groups available.

● Speed Dial

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Phonebook menu then press OK Key.
3. Select Speed Dial on Phonebook menu and press OK Key.

If this option is applied, you can make a fast call. Select number and then
press it to make a fast call thereto in stand-by state.

Individual phone number can be set to each number Key of 2 to 9.

● Memory

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Phonebook menu then press OK Key.
3. Select Memory on Phonebook menu and press OK Key.

This option is used to confirm the capacity and the condition of SIM card or phone memory.
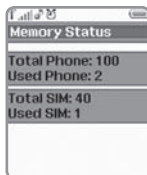
On the state window, the following information is provided.
   • **Phone Memory (up to 100 available)**
   • **SIM card Memory (up to 40 available):** The memory for SIM is
                                          different each other.

● Copy To Phone All

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Phonebook menu then press OK Key
3. Select Copy To Phone all on Phonebook menu and press OK Key.

Used to copy selected contact. You should copy only the name and number of contact as expected.

● Delete All

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Phonebook menu then press OK Key.
3. Select Delete All on Phonebook menu and press OK Key.

Deletes all contacts saved in selected address book (All Phonebook, Phone, SIM, or Group).

● Own Number

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Phonebook menu then press OK Key
3. Select Own Number on Phonebook menu and press OK Key.

My phone number(s) is saved in special address book inside SIM card.
Select My Number option on the phone call service menu and press OK
Key to have access to this function. (If not informed of this route, please ask
from the first).
All the lists of phone numbers belonging to Own Number will be displayed
(For example, cell phone number, fax number, etc.).

Press Select
   a. Add: Adds new phone number onto list.
   b. Edit: Writes or changes name added to the specific number or other
            number.
   c. Delete: Deletes selected phone number. Press OK Key to finish.

Service Number
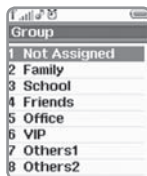
1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Phonebook menu then press OK Key.
3. Select Service Number on Phonebook menu and press OK Key.

Select service number then press Call Key.

The menu defined as message allows new message, received messages, sent messages, unsent messages, settings, and CB message to environmental services for messages.

Follow the procedures below to connect to message menu.

1. Press the Menu Key in background screen.
2. In the basic menu screen, press OK Key while Messages icon is selected.

The options on this menu are as follow;

- New Message
- Received Messages
- Sent Messages
- Unsent Messages
- Settings
- CB Message

The following is about text messages, multimedia messages and options related with environmental settings.

● New Message

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Message menu then press OK Key.
3. Select New Message on Message menu and press OK Key.
4. Typing shot Message then press OK Key.

5. The options on this menu are as follow;

- **Send Only:** Send a message to a specific receiver only.
- **Save Only:** Saves text which is not yet sent in phone memory.
- **Send+Save:** Send message then save message in phone memory.
- **Text Template:** Select Template of User inputted.
- **Add Picture:** Allows user to insert picture in a message.
- **Add Animation:** Allows user to insert animation in a message.
- **Add Sound:** Allows user to insert sound in a message.

6. Go to Address writer separately specified and input Number as desired then press OK Key.
7. Select Yes or No to send a Message or not.

● Recevied Messages
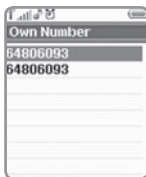
1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Message menu then press OK Key.
3. Select Recevied Messages on Message menu and press OK Key.
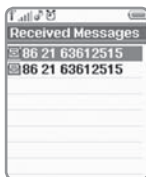
Press OK Key to confirm the new text message, and press Back Key to return to the previous screen.

Select Open to display the received message including senders received date and time, and its details. (See the figure below)

5. Press option Key to display message option screen.

- **Reply:** Displays Write Text Screen to replay to the message received. Write message as desired. If you want to know how to write and send text message (SMS), refer to <New Message>.
- **Forward:** Delivers the received message to others. Input the phone number directly thereon or select a receiver on address book. Then press OK Key.
- **Delete:** Delete selected.
- **Delete All:** Delete all messages.

- **Cut Address:** Allows you to make use of the phone number saved in the text message received.
- **Save Number:** Save phone number.

- **Call:** Makes a call to message senders number. Press option Key to display the menu where Save address book, Make a call, Send number using SMS, and Send SMS message are available.

- ✉ : This icon means that the message in the Inbox is not read yet.
- ✉ : This icon means that the message in the Inbox is read already.

● Sent Messages

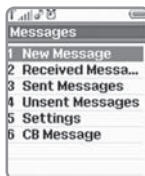1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select message menu then press OK Key.
3. Select Sent Messages on message menu and press OK Key.

Press OK Key to confirm the new text message, and press Back Key to return to the previous screen.

Select Open to display the received message including senders sent date and time, and its details. (See the figure below)

4. Press option Key to display message option screen.

- **Send:** Resend this message.
- **Delete:** Delete selected.
- **Delete All:** Delete all messages.

● Unsent Messages

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select message menu then press OK Key.
3. Select Unsent Messages on message menu and press OK Key.

Press OK Key to confirm the new text message, and press Back Key to return to the previous screen.

Select Open to display the received message including senders sent date and time, and its details. (See the figure below)

4. Press option Key to display message option screen.

- **Send:** Resend this message.
- **Delete:** Delete selected.
- **Delete All:** Delete all messages.

● Settings

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Message menu then press OK Key.
3. Select Settings on Message menu and press OK Key.

- **Center Number:** Specifies number of message center. It is the phone number of the center for you to call in order to send or receive messages. Its service provider shall specify this number previously.
- **Reply Path:** Makes the application of the center on or off as necessary to send or receive messages.
- **Status Report:** To get the status report from the SMS Center
- **Memory:** Check the memory that can storage in Phone and SIM.
- **Erase Messages :** Deletes all messages saved (All, Received Box, Sent Box or Unsent Box).
- **Voicemail :** Set/Edit the voicemail number.
- **Add new words :** Add new words that are using in Smart input editing.

● CB Message

Group message means a text message which will be sent to all the members who have joined the communication company.
(Messages for common interest, ads, PR, etc., as displayed on the main menu of the phone) These messages will be sent to all the phones located in designated places with the applicable channel setting.

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select message menu then press OK Key.
3. Select CB Message on message menu and press OK Key.
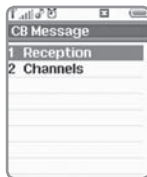
• **Reception:** Allows you to receive group messages if this option is selected. (Default is set to off)
• **Channels:** Defines a channel to receive this kind of messages. Select a new channel from the list to display on screen and use option Key to execute. If you want to add a new channel to list, select any channel and press option Key and then Add. Input new channel number to number writer and press OK Key (Up to 3-digit number is available and the number shall be surely input. If not, channel setting will not be available) The Write option of sub-menu edits name and number assigned to the selected channel on the list. Up to 10 channels are available.

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Games menu then press OK Key.

- **Gaza2**
- **Blackjack**

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Display menu then press OK Key.

Option list of Settings menu is as shown below;

- **Wallpaper**
- **Idle Screen**
- **Greetings**
- **Backlight**

● **Wallpaper**

On the phone screen, select wallpaper option. On wallpapers screen, select an image.

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Display menu then press OK Key.
3. Select Wallpaper on Display menu and press OK Key.

● Idle Screen

Select screen mode.

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Display menu then press OK Key.
3. Select Wallpaper on Display menu and press OK Key.

● Greetings

This is used to specify an initial greeting which will be shown on the screen for a few seconds when the phone is turned on (How to set is described as shown below).

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Display menu then press OK Key.
3. Select Greetings on Display menu and press OK Key.
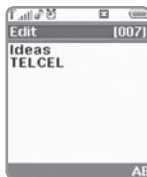
- **Set:** Select on or off.
- **Edit:** This may or may not show text messages. Select a proper option and press OK Key. Select On and press OK Key to input a text message you want to display on the screen of the phone when it is turned on (up to 20 characters available). After desired text is input, press OK Key.

● Backlight

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Display menu then press OK Key.
3. Select Backlight on Display menu and press OK Key.
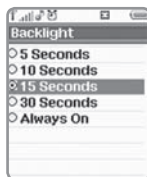
Backlight the display (5 seconds, 10 seconds, 15 seconds, 30 seconds, or Always on).

In Settings menu, you can specify all appearances of DIGITAL: (for Security, Network, Sound, Languages, Time & Date, Any Key Answer, Minute Minder, Keypad Lock Reset Settings) Follow the procedures below to get to Setting menu.

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Settings menu then press OK Key.

Option list of Settings menu is as shown below;

- Security
- Network
- Languages
- Time & Date
- Any Key Answer
- Minute Minder
- Keypad Lock
- Reset Settings

● security

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Settings menu then press OK Key.
3. Select Security on Settings menu and press OK Key.
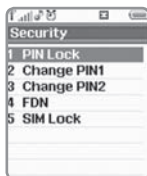
How to apply or cancel password

Password input screen will appear whenever the phone is turned on if password has been specified. Correct password shall be input in order to use the phone (See the figure below).

Note: Correct password of 4 digits shall be input.

3 times of wrong password input

The phone will warn you that it would be the last chance for you to have access, displaying <One more incorrect password will close the password input screen>)The password while input will be displayed in black dot on the screen to keep from exposed. 3 times of wrong password input will display PUK screen. PUK (personal unlocked password) is of 8 digits necessary to cancel SIM card. If PUK appears, press Confirm. Before the phone confirms PUK just input, you should input a new number. If they are identical, the phone will cancel the lock and you should remember the password just inputted. If PUK number is inputted incorrectly, all the procedures above shall be repeated.

Retrying is available for 10 times. More than 10 times will make your card keep locked till repaired only by the communication company.

While the PIN and PUK is input, press SOS Key to connect to emergent call.In order to make password required whenever the phone is turned on, select PIN lock option and press Select to get to PIN lock screen. Select On and press Select to input password.

If the message <Input password> is displayed, input 4-digit password of the phone (You have 3 chances only as described) and press OK Key.

If password is correct, Password executed will be displayed.

If you want to cancel the password which was once set, go to PIN Lock screen and select off. Then press OK Key and input correct password.

Change PIN 1 & 2

1. Select Change PIN 1 or 2 on Security screen and press OK Key (See <Setting security environment> for the route to this option).
2. A message will be displayed, saying <Input old PIN>. Then input the previous password and press OK Key (You have 3 chances only. If the third password is incorrect again, the phone will be locked).
3. A message will be displayed, saying <Input new PIN>. Then input new 4-digit password and press OK Key.
4. A message will be displayed again, saying <Verify new PIN>. Then input new 4-digit password again and press OK Key. If they are identical, your password has been changed. If they are not identical for 2 times, a message <You must enter same PIN> will be displayed, which means restart of the process from the beginning.

Note: Password 1 and 2 are of the identical system as described above.

Setting FDN Environment

Restricted call list is used to restrict the call only to specific phone number.
On Security screen, select FDN option and press OK Key to display FDN
screen with 2 options as follows;

- **FDN Only:** Decides to execute fixed phone as necessary. However,
  its default is Inactive. In order to execute this function,
  select On and press OK Key, where you will be asked to
  input correct PIN 2 (You have 3 chances only. If the third
  password is incorrect again, the phone will be locked).
  Now, press OK Key. If PIN 2 is correct, FDN call mode will
  operate and allows the call to be connected only to the
  number in FDN address. If you want to cancel this mode,
  follow the same procedures as above.
- **Numbers:** Specifies the number allowed to call when Only FDN mode
  is set active (which will be saved in FDN address book).
  Select Numbers option and press OK Key to display the list
  of existing phone numbers. If you want to add other number
  or cancel, press Option to display the following list for your
  easy access.

SIM Lock

Lock SIM card is used to keep the phone from robbed. If environment of the phone is specified only for a specific SIM card, it will not be compatible with any other SIM card.

The phone will have specific SIM code when SIM code of a specific SIM card is saved in phone memory. When the phone is turned on and when SIM card is inserted in the phone, it will be checked if identical to SIM code saved in the phone. if not identical, 112 emergency call mode only is available. Select Lock SIM option and press OK Key to specify Lock SIM card.

SIM Lock setting screen has the following options.

- On
- Off

Note: 3 chances are allowed for you to input correct PCK code. If all failed, PCK will be locked and you shall turn the phone off and then on.

Note: If you try to turn the phone on with different SIM card while SIM is set locked, the phone will show a message <This is an invalid SIM card>. Emergency call only will be available again.

● **Network**

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Settings menu then press OK Key.
3. Select Network on Settings menu and press OK Key.
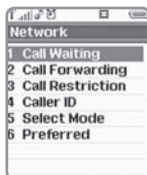
 • Call Waiting
 • Call Forwarding
 • Call Restriction
 • Caller ID
 • Select Mode
 • Preferred

Call Waiting

This service is used to make other call stand by while a precedent call is connected, which can be applied or cancelled as necessary. On Network screen, select call waiting option and press OK Key to display call waiting screen.

• **Activate:** Activate Call Waiting call option.
• **Cancel:** Cancels Call Waiting call option.
• **Status**: Displays the status of Call Waiting call.

Select state option and press OK Key to show the state of stand-by call.

Call Forwarding

On Network screen, select call forwarding option and press OK Key to display call waiting screen.

• **All Calls:** Receives all types of calls selected.
• **Busy:** Receives all calls selected during you are connected with other phone.
• **No Answer:** The service provider shall specify the number of bells to make In-absence mode active if call is not answered.
• **Unreachable:** Receives all calls sent even if out of service area.
• **Cancel All:** Cancels all the previous options if all the type of calls received is specified.

Once after the type and the number of calls received are specified, you should execute the applicable option.
First,

1. On the voice menu, select one of the present options (Unconditional, Busy, No answer, Unreachable) and press OK Key.

2. Select Activate to perform Received Call on the displayed menu. In addition, select Activate to specify calls received, select Cancel to cancel and select State to know the state of call received. And then press Select.
3. Select Activate and press OK Key to display the following options;

- **To Voicemail:** If this option selected, calls will be sent to the voice box number as specified in your phone.
- **To Phonebook:** If this option selected, calls will be sent to the single phone saved in address book. Select this option and press OK Key to display details of address book.
- **To Other Number:** If this option selected, calls will be sent to designated number (number writer will be displayed where up to 21 digits are available).

Call Restriction

This makes calls be sent and received only under the specified conditions.

- **All Outgoing:** Restricts All outgoing calls, which is controlled by password.
- **Int'l Outgoing:** Restricts All outgoing calls to abroad, which is controlled by password.
- **Int'l Expect Home**
- **All Incoming:** Restricts All incoming calls which is controlled by password.
- **Inc When Roam**
- **Cancel All:** Cancel All the pre-set restricts at a fine, which is controlled by password.

- **Change Password:** In order to change password for call barring, select change password option and press select. then input the correct existing password first and then new password twice(it is to confirm that the new password is correct).

Caller ID

This will let you know the number and the name from which call is sent.

- **Show Caller:** Shows senders phone number.
- **Hide Own:** Hides my phone number for its receiver not to see.

Select Mode

On Network screen, choose select mode and press OK Key to display select mode screen with 2 PLMN communication network options.

- **Automatic:** PLMN of desired communication network list can be selected automatically. The highest frequency of PLMN will be always selected.
- **Manual:** While this option is selected, frequency of available PLMN communication network can be selected by hand. If this option is executed, Search screen will appear to search for all available PLMNs.

ROM of the phone if reserving PLMN information will display its name. Or national codes for communication network will be displayed. After such a communication network is selected, the phone will try to enter the communication network. The cell phone if registered completely will be in stand- by state. If not, the cell phone will display a list for you to search for other communication network.

Prefeffed

It helps you to define PLMN list in preferred sequence.
Select Preferred on Network screen and press OK Key (See < Setting communication network environment> for the route to this option>).
Preferred is as shown below;

PLMN communication network connected will be displayed on this screen in preferred sequence.
Available option Keys are as follows:

- **Insert:** Allows you to attach communication network code preferred. Input 5 digits of communication network code and press OK Key. The code just specified will be input in front of the communication network code specified prior to this process.
- **Move:** Moves a code onto other list. First, select a desired code and press option Key. Then select Move and press OK Key. On Table of contents screen, a location desired on the list shall be specified. Press OK Key to finish.
- **Delete:** Deletes desired communication code from communication network list. Select communication network code to delete from the preferred. Choose its option and press Delete then OK Key. Then press Yes to confirm.

● Languages

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Settings menu then press OK Key.
3. Select Languages on Settings menu and press OK Key.

• Auto
• English
• Spanish

Time & Date

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Settings menu then press OK Key.
3. Select Time & Date on Settings menu and press OK Key.

• **Date:** Select this option and press OK Key to edit the date on the phone. Write new date on designated form (DD/MM/YYYY). With number key, write down Day (2 digits), Month (2 digits) and Year (4 digits), and press OK Key to confirm the change and return to previous screen. If you want to cancel the change or return to previous screen, just press back without pressing Select.
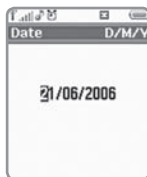
• **Date Format:** Select this option and press OK Key to edit Date form displayed on the phone, where 3 options are available.

- **D-M-Y:** Established form (day-month-year)
- **M-D-Y:** Form in English (month- day- year)
- **Y-M-D:** Commonly used form in communication (year- month-day)

Select a desired form and press Confirm to return to previous option screen.

• **Time:** Select this option and press Select to edit Time displayed on the phone. With number key, change Time as desired and press Select Key to confirm the change and return to previous screen. If you want to cancel the change or return to previous screen, just press Back without pressing Select.

Note: If you try to turn the phone on with different SIM card while SIM is set locked, the phone will show a message <This is an invalid SIM card>. Emergency call only will be available again.

• **Time Format:** Select this option and press OK to edit Time form displayed on the phone, where 2 options are available.
  - **24 hours:** It is an established option, where time is displayed 00:00 to 23:59 regardless of AM or PM. If you want this option, select Option and press Confirm to return to previous screen.
  - **12 hours:** This option is based on 12 hours system, where 00:00 to 12:00 of AM and PM (before and after noon) is displayed. If you want this option, select Option and press OK Key.
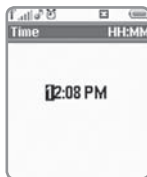
● Any Key Answer

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Settings menu then press OK Key.
3. Select Any Key Answer on Settings menu and press OK Key.

Starts connection if active to any call when any Key on the pad is pressed. This option can be made on or off (Press OK Key to have access to this option).

● Minute Mind

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Settings menu then press OK Key.
3. Select Minute Mind on Settings menu and press OK Key.

If this is selected, the call received will be automatically answered.

● Keypad Lock

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Settings menu then press OK Key.
3. Select Keypad Lock on Settings menu and press OK Key.
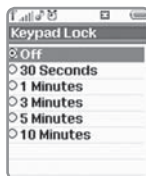
• Select off, 30 seconds, 1 minutes, 3 minutes, 5 minutes, or 10 minutes.

● Reset Settings

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Settings menu then press OK Key.
3. Select Reset Settings on Settings menu and press OK Key.

If you want to go back to initial environment after some environmental settings have been applied to the phone, simply select reset setting option and press OK Key to display Reset setting to default?. Select Yes or No as necessary.

Note: If once the initial setting is recovered, all the saved environment information will be deleted.

Physical Parameters
- **Weight:** less than 65grams including standard battery
- **Dimension:** 98.5 x 42 x 16.4mm

Battery
- **Type:** Lithium Ion
- **Capacity:** 660mAh
- **Load time:** Maximum 4 hours
- **Standby time (DRx=3):** Up to 120 hours in standard mode
- **Talk time:** 150min

CAMERA
- **Resolution:** 300K CMOS

RF Characteristic
- GSM Triband 900/1800/1900 or 850/1800/1900.

Safety Information

1 . SAFETY INFORMATION FOR FIXED WIRELESS TERMINALS
.POTE NTIALLY EXPLOSIVE ATMOSPHERES
Turn your phone OFF when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cauls e an explosion or fire resulting in bodily injury or even death.

INTERFERENCE TO MEDICAL DIVICES
Certain electronic equipment may be shielded against RF signal from you wireless phone. (pacemakers, Hearing Aids, and so on) Turn your phone OFF in health c are facilities when any regulations posted in these areas instruct you to do so. RF signals may affect improperly installed or inadequately shielded electronic system in motor vehicles.

.EXPOSURE TO RF ENERGY
Use only the supplied or an approved replacement antenna. Do not touch the antenna unnecessarily when the phone is in use. Do not move the antenna close to, or couching any exposed part of the body when making a call.

SAFETY INFORMATION FOR RF EXPOSURE

Body worn operation

This device was tested for typical body-worn operations with the back of the phone kept 15 mm. from the body. To maintain compliance with FCC RF exposure requirements, use only belt-clips, holsters or similar accessories that maintain a 15 mm. separation distance between the user's body and the back of the phone, including the antenna. 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.

SAR INFORMATION

**THIS MODEL PHONE MEETS THE GOVERNMENT'S
REQUIREMENTS FOR EXPOSURE TO RADIO WAVES.**

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radiofrequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health. The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg. *

Tests for SAR are conducted with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output. Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) as required by the FCC for each model. The highest SAR value for this model phone when tested for use at the ear is 0.935 **W/Kg**and when worn on the body , as described in this user guide, is **0.307 W/Kg** . (Body-worn measurements differ among phone models, depending upon available accessories and FCC requirements). While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement for safe exposure. The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of http://www.fcc.gov/ oet/fccid after searching on **FCC ID: UDTSP-120.**

Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications Industry Asso-ciation (CTIA) web-site at http://www.wow-com.com. * In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a sub-stantial margin of safety to give additional protection for the public and to account for any variations in measurements.

U.S.A.

U.S.FEDERAL COMMUNICATIONS COMMISSION
RADIO FREQUENCY INTERFERENCE STATEMENT

INFORMATION TO THE USER

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

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

Changes or modification not expressly approved by the party responsible for Compliance could void the user's authority to operate the equipment. Connecting of peripherals requires the use of grounded shielded signal cables.

FCC Compliance Information

This device complies with Part 15 of FCC Rules.
Operation is subject to the following two conditions:

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