User Guide

SP210

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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. Special
3. Extras
4. Camera
5. Phonebook
6. Messages
7. Leisure
8. WAP
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

GRUNDIG mobile conforms to the communication standard laws of GSM900, GSM1800, GSM1900 and GPRS.
Read this user manual thoroughly to understand and learn the functions of this appliance.
Customers should know that the trio function (900-1800-1900) 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.

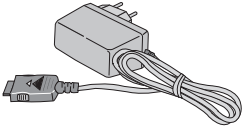
Battery And Parts

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.

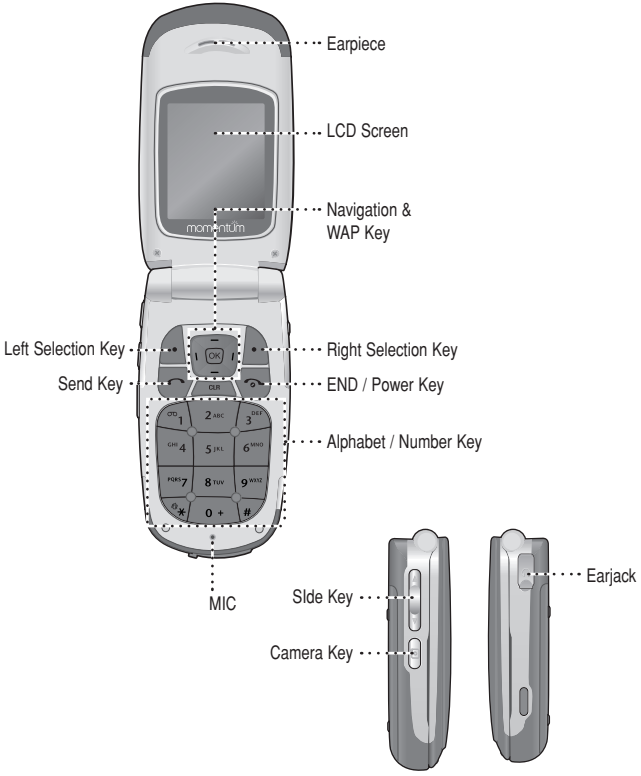
Handset

Battery

User Manual



Charger

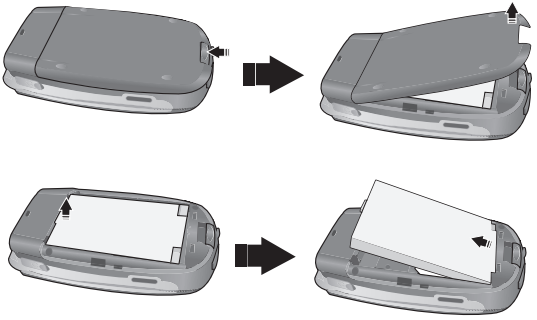

Earpiece
LCD Screen
Navigation &
WAP Key
Left Selection Key
Right Selection Key
Send Key
END / Power Key
Alphabet / Number Key
MIC
Slde Key
Camera Key
Earjack

In The Beginning

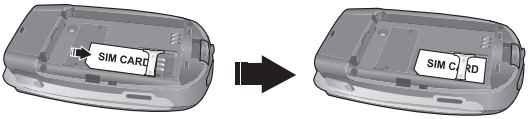
Instaliment Of SIM Card

To answer the phone or to call, GRUNDIG mobile needs a available SIM card, which the communication company may have installed already.
Note If GRUNDIG 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.

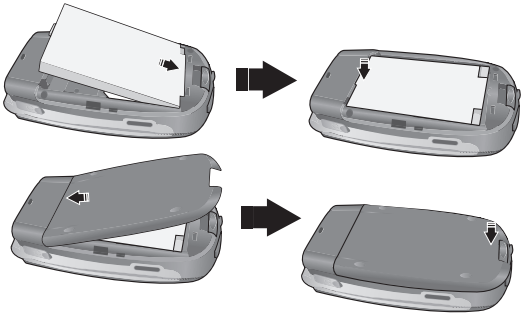
1. Remove the battery after pulling the hook outward with GRUNDIG mobile turned off. The battery since adhered to the cover will come out as one component.



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.



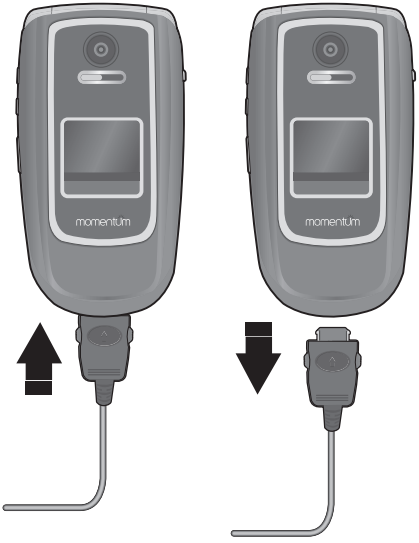
4. Pull the hook and insert the cover and the battery.

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 Select 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 Select Key.
If the date is not correct, input new date using the number on the Key pad and then press Select Key.

If the time is correct, press Select Key.
If the time is not correct, input new time and then press Select Key.

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, day, month, year and present time will be displayed. On the bottom, optional menu Key will be displayed as a selection Key. If services are not ready for the phone, the option is displayed with Menu, WAP and Sandglass typed icon in the center. If service are ready, the center of this selection menu, a room-shaped icon will be displayed.

- Press the left selection Key located below the menu in stand-by screen stat so to display the main menu.
- Press the right selection Key located below the Call Logs 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 Special 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 Multimedia menu.
- Press the OK Key in stand-by screen state so to display the WAP menu.

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

- Keep on pressing End Key in stand-by screen state to turn off the phone.
- When the screen is in a normal state, press Send Key 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.1	Symbol +
*	Symbol*	Manner 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 5 modes available (sound only, vibrate only, sound after vibrate, sound with vibrate, silence).
	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 Multimedia Message	Displayed when a multimedia message 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, Clear Key to delete the last number input.
In order to delete a specific number, move the cursor right behind the number to delete (press the left of OK Key) and then press End Key.

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 Save 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 back 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 and voice messages sent and received.
	Special	To use the Function in the SIM card.
	Extras	To use calendar, calculator, downloading program, information on various events meeting, birthday), etc.
	Camera	To deal with camera and image album.
	Phonebook	To save phone numbers.
	Messages	To read and write text messages.
	Leisure	To download and select new video games and melody images.
	Wap	To move to WAP service menu.
	Settings	To specify volume, calling melody, 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 upper 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 End 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 CLR Key to delete the last number input. Keep on pressing End Key to delete the whole number input (whole number) and to return to stand-by screen state.
- Press OK/Save/Enter Key (menu displayed on the left of the screen) to go to next step. Press Previous Key to go back to the previous step of the screen.
- Press direction Key (up/down/left/right) to move the cursor to the direction as designated.

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.
- <*> Key has no function.
- # Key is used to display the decimal point, excepting in the screen of password 1 and 2.
- Press CLR Key to delete the last number input. Keep on pressing END Key to delete the whole number input.
- Press select Key to go to next screen. Press Previous Key (CLR) to go back to the previous screen.
- Press the direction Key left or right to make the cursor move to the direction as indicated.

Writer Of Text

It is used to input text of names or messages. There are 4 input methods for text writer.

- 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.
- Small letter input: displays all the input text in small letters. This can be used together with Multi Input and Smart Input.
- 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.

In case with Number Input (1), 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, 1.
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 other input method. (Multi Input - Expected Input and Numeric mode)`

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

In the Expected Input method, the method is underlined.
In case with the two accompanied, it will be displayed as below.

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	
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	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 select Key to input applicable character. Characters available are as follows;

All the input methods and all the languages available in GRUNDIG Mobile have been summarized in the following table.

Input type	Input method	Mark	Language
Multi Input	Capital	AB	English & Spanish
	Small	ab	
	Capital & Small	Ab	
	Number	1	
Smart Input	Capital	AB	English & Spanish
	Small	ab	
	Capital & Small	Ab	
	Number	1	

1.Calls

Through this Calls menu, you can move to call Logs, voice mail and mainly used number list.

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 select Key. The Calls option in principal menu will be displayed.

- Call Logs
- Voice Mail
- Options

Call Logs

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

Missed

Select In Missed option on call logs and press Select Key to show record of calls received but not answered. Select the call not answered and press option Key to see the following menu.

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

- **Call:** Tries a call to the phone previously selected.
- **Send Message:** Sends a message (Short or multimedia) to selected number.
- **Details:** Displays information of selected call on screen.
- **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. Press Yes Key to confirm Delete Call.

Received

On the Call logs, select Received option and press Select Key to display the last list of calls answered. Select a call received and press option Key to display option menu as before (Missed).

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

- **Call:** Tries a call to the phone previously selected.
- **Send Message:** Sends a message (Short or multimedia) to selected number.
- **Details:** Displays information of selected call on screen.
- **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. Press Yes Key to confirm Delete Call.

Dialed Numbers

On the Call logs, select Dialed Numbers option and press Select Key to display the list of calls dialed.

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

- **Call:** Tries a call to the phone previously selected.
- **Send Message:** Sends a message (Short or multimedia) to selected number.
- **Details:** Displays information of selected call on screen.
- **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. Press Yes Key to confirm Delete Call.

Voice Mail

It is an automatic answering machine (run by communication company) saying Please, leave your message for me to call back when the call can not be answered or the phone is out of service area or turned off. Follow the procedures below to enter the voice box.

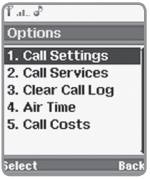
1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select calls menu then press Select.
3. On calls screen, Select Voice Mail and press select to display the following information.

The options are as follow;
Whatever option is selected (Dial, Voice mail number), you may hear instructions if connected to the number you joined. And if any of those is unavailable, an error message will be displayed on screen of the phone.
In case a call is made to voice mailbox, you will see the following display;

Options

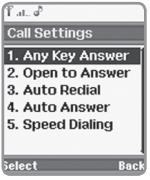
Call logs, Voice mail and Useful number has the identical options as shown below. You may get to its options menu through the following operation;

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



The following is to describe the option.

Call Settings



This option allows you to specify environmental setting through several special options related with call.

- **Any Key Answer:** 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).
- **Open To Answer:** Starts connection if active to any call when GRUNDIG mobile folder is opened. This option is initially kept off.
- **Auto Redial:** If this function of GRUNDIG mobile is selected, dialing will be repeated to any number if the connection is failed since in absence or not answered. In 5 seconds, the phone will try to make a call to the number again automatically. If you don t want to use this function, press Previous Key, or press OK Key to use. The call if the connection is failed again will be retried in 60 seconds. This function can be made on or off, however, kept inactive initially.

- **Auto Answer:** If this is selected, the call received will be automatically answered, which has 4 options (Press OK Key to display those): off, 3 seconds, 5 seconds and 10 seconds. It is the duration just before the phone answers the received call automatically.
- **Speed Dialing:** 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. How to make it available is as follows;

Setting Fast Dial Number

In GRUNDIG mobile, individual phone number can be set to each number Key of 2 to 9. For example, if you want to set Key No.7 for certain fast dial number, the procedures below shall be followed.

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Calls icon and then press Enter.
3. On Calls screen, select Options and press OK to display option creen.
4. Select Calls settings and press OK.
5. Select Speed Dialing option and press OK Key to go into speed dial setup window.
6. Select option 7 and press set to display phone number list saved in address book.
7. Select any contact number you want to connect with Key No.7 and press OK.
8. Press option Key and select Set or Delete if you want to Edit or Delete the fast call connection.
9. Keep on pressing back Key till you reach the screen in stand-by state.

If the fast dial number is presently active, keep pressing Key No.7 till the call is connected.

Call Services

The call service includes such functions stand-by call, environmental setting and restricted display of sender.
The service is available as follows;

The options of this menu have the following functions related.

Call Forwarding
It allows you to make received Call to go to other phone number. Select this option and press OK Key to use this function, which has 4 sub-menus as follows;

- **Voice:** Specifies received voice call.
- **Data:** Specifies received data.
- **Fax:** Specifies received fax.
- **All:** Specifies all received calls.

You can specify the time when you want to set the option for all the received calls (For this operation, select an option of voice, data, fax or all and press OK Key). All calls of data, fax or voice: receives all types of calls selected.

- **Unconditional:** Cancels all the previous options If all the type of calls received is specified.
- **Busy:** Receives all calls selected even 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.

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.
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 OK.
3. Select Activate and press Enter 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 Enter 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 Barring

This makes calls be sent and received only under the specified conditions.
Select this option on menu to make use of this service.
Select Barring Call service and press OK to display its options as follows;

- **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-setted 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 OK. then input the correct existing password first and then new password twice(it is to confirm that the new password is correct).

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. In order to apply this function, select Stand-by call option on call service menu (see the first of the manual if you are not familiar with the route to this screen) and press Enter to display the following options;

- **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 Enter to show the state of stand-by call.

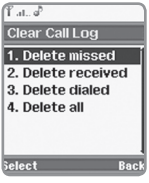
Caller ID

This will let you know the number and the name from which call is sent. In order to apply this function, select Confirm sender option on call service menu and press OK to display the following options;

- **Show Caller:** Shows senders phone number
- **Hide Own:** Hides my phone number for its receiver not to see.
- **Show Connected:** Displays senders number for me conveniently to check the number if dialed wrongly or correctly.
- **Hide Own When Forward:** Hides my number from its receivers phone dialed wrongly. Select applicable option to use and press OK.

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.

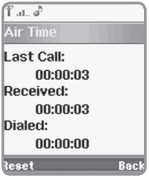


- **Delete Missed:** Deletes all calls in absence saved.
- **Delete Received:** Deletes all received calls saved.
- **Delete Dialed:** Deletes all sent calls saved.
- **Delete All:** Deletes all the lists of calls saved.

The procedures for each case above are identical as follows;
Select desired option and press OK to display a confirming screen.
Press Yes to erase or press No to cancel.

Air Time

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.



2. Press Back Key to go out of this screen.
3. Press Reset Key and select desired option on the menu below to set the counter to 0 (Zero)

   - **All:** Erases all the accumulated time used for calls received and sent.
   - **Dialed:** Erases the accumulated time used for calls sent.
   - **Received:** Erases the accumulated time used for calls received.
   - **Last Dialed:** Erases the time used for the last call.

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

Call Costs

This informs you of the amount of total cost of all calls and the last call including the maximum amount/cost of calls. The cost may be expressed in some unit or currency. Follow the procedures below to go to this option.

- **Last Call:** Displays the cost of the last call, which can be expressed in specific unit or currency through Display calling cost option (described later).
- **All Calls:** Displays the cost of all calls. Press Reset Key to delete the cost displayed. The terminal will ask you to input PIN 2. The password shall be input correctly. If not, the cost of all calls will not be deleted. If so, a message The cost of calls is set to 0(zero) will be displayed.
- **Call Cost Limit:** Limits the maximum cost of calls available. Select this option to display on or off option screen. Then, select on and input PIN 2 correctly to display the screen to write the desired maximum cost of calls on. In order to cancel this option, select off and input PIN 2 correctly.
- **Call Cost Display:** Where display type of calling cost is specified with two options of specific unit or currency. If you want to change options, input PIN 2 correctly.

2. Special

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

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

The options on Extras 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 Extras icon.

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

How to operate each tool will be described later.

Calendar

On Other menus, select Calendar and press OK to go to its related option list, where you can set an alarm for a specific event.

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

Main options related with Calendar will be displayed as shown below;
The title of the calendar screen is the date specified as seen (24-05-2005 on the previous screen). On the other hand, the number of events specified is displayed on the right side of the option line (The number of events is 0 on the previous screen).

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.
2. Go to the screen where you can select the type of event to specify.

   - **Alarm Clock:** Sets an alarm for time Alert.
   - **Meeting:** Sets an alarm for meeting.
   - **Birthday:** Sets an alarm for birthday.
   - **Memo:** Sets an alarm for other types of events.

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

3. Select an event type among three and press Enter (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). Use Up/Down direction keys or 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 Enter.

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

8. Set alarming time to inform you that an applicable event will be open. (Alarming time screen); None, 1 day prior, 30 minutes prior and 15 minutes prior are available, where you can select an exact time option you want. After a time option is selected, press OK.

You dont need to specify details as in alarm types or birthday event.

9. Finally, specify the type of alarm to inform you that an applicable event will be open. There are 2 types of alarm available.
   a. Visual: Uses blinking light to operate the alarm.
   b. Ring Of Visual: Uses sound and light to operate the alarm.

Select a desired alarm type and press OK to finish all the procedures.

Note: The sound of the time alarm is different from that of the event alarm. When a call is received while an alarm operates, the alarm will stop till the call is finished. In the beginning the alarming bell will go on for 1 minute, and then for 5 minutes if not stopped by user. After the third bell, the alarm will stop then.

The following icons will be displayed on the icon bar of the upper screen when you specify the alarm. The screen of event alarm is as shown below;

View Calendar

Any event once after specified can be checked everyday through the following options displayed on calendar screen;

- **Events:** Creates or changes events, which is previously described.
- **Scroll All Days:** Checks events displayed on calendar everyday. If this option is selected, the option Key will have names of Next and Previous. Press Next Key to go to next day on calendar, where the day s specified events will be displayed. Press Previous to go to previous day on calendar.
- **Scroll Event Days:** Shows the event specified date only on calendar. Next and Previous option keys will be displayed.
- **Today:** Leads you directly to present event. With this option specified, select Option and press OK.
- **Week View:** Shows the week of the present date. Any day if with any event will be displayed in x mark (See the figure below).
- **Month View:** Shows the month of the present date.

Other Event Options

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

- **Details:** Shows details of the event selected (type, date, operation time, related expression and alarming time)
- **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. See below;

- **Alarm:** Description, time and date.
- **Meeting:** Description, date, start time, end time, frequency, alarm type, alarm time.
- **Birthday:** Description, date, time and alarm type.

Return to calendar menu, select Event option and press Option Key to display the list familiar to you, where event options are available, however, some are not mentioned yet.

- **Select:** You can select the reserved events.
- **Add Event:** You can add a event.
- **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.

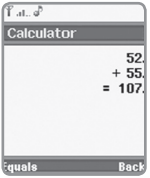
- **Delete All Events:** Deletes all the events specified, which will ask you to confirm.

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

Calculator

GRUNDIG 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 Extras menu then press Select.
3. On Extras screen, Select Calculator and press select to display the following information.



- 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 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 Equals Key (See the figure below).
- You can use the acquired result to apply to other calculation with Down Navigation Key keys. This calculator does not support simultaneous multi-calculation. You should divide the object into several in such a case and then perform each calculation in due consideration of calculation priority.

Press Back Key to return to previous screen.

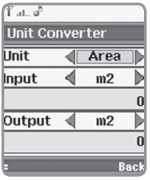
World Clock

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 Extras menu then press Select.
3. On Extras screen, Select World Clock and press select to display the following information.

Unit Converter

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



4. Select the desired type of measurement

Note: Length/ Weight/ Volume/ Area/ Temperature.

5. To change the unit type (for example: m, cm), use the direction Key and then use the keypad to input the number to convert

Stop Watch

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

- To start, press OK Key. [Select]
- To stop a time period and continue measuring another one, press left selection Key. [Lap Time]
- To reset it, press left selection Key. [Reset]
- To back, press right selection Key. [Back]
- To stop, press OK Key.

The Camera menu has a function related with taking pictures with digital camera built-in GRUNDIG mobile.
Follow the procedures below to go to the Camera menu.

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

A list for multimedia menu will be displayed, whose options are as follows;

- **Camera:** Operates image camera.
- **My Pictures:** Displays list of images taken by the built-in camera.
- **Motion Album:** Displays list of video files saved.

Camera

There are Two methods to take a picture with GRUNDIG mobile.

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

- **Enter Via Main Menu:** On the menu screen, select camera . Press Enter again. If the camera operates anyway, let the phone stand lengthwise with its number pad downward, then catch hold of an object to take a picture of using the direction Key (ensure that camera controller is located at the rear central upper of the phone) and press OK in the center to take a picture.
- **Hot Key:** In stand-by screen, press camera Key on the center of the direction Key to initializ camera mode.

Note: - Wait a few seconds for the digital sensor to adjust to digital tone of color when starting camera operation, which will make the quality of images excellent.

- Sound similar to the shutter of a camera will be heard for you to feel the same as with the actual camera when the moment a picture is taken. If you want to delete the picture just taken, press Cancel and return to camera mode. On the contrary, if you want to save the picture, press Save in the album with a name you want. After then, the camera mode will be ready again. The automatically created names of the pictures taken and saved are of numeric date containing Year (2 digits), Month (2 digits) and Day (2 digits) with

the sequence number of the pictures. Ex.) 050212-007 means image number 007 taken on Feb. 12, 2005)

- Mode: Sets camera mode as necessary. (3 modes available)
  - Nomal Mode: Take a normal picture.
  - Multishot Mode: Take 9 pictures continuously.
  - Motion Mode: Change the mode to Camcorder.
- Resolution: Sets the resolution of images (3 levels available): (VGA(640*480), QVGA(320*240). Normal(128*160)).
- Quality: Sets image related quality. (3 levels available: high, medium and low)

Other Options

The camera built-in GRUNDIG mobile includes functions of digital zooming and glossy adjustment. If the camera starts to operate, the following icon will be displayed on the option below the screen. (see Take a picture)

- You may enter camera setting option described above.
- If you want to enlarge or reduce image size, select the upper Key (Enlarge image). You can enlarge the image 5 times gradually. Pressing the upper again at the maximum zooming will lead to the minimum zooming function. The maximum zooming is available based on the size-related environment specified. (5 times of zooming will be available as described)
- Brightness can be adjusted higher or lower. If you want to apply this function, select left selection Key.
- Effectiveness can be adjusted to each mode(eg. Normal, Black and White, Sepia, etc). If you want to apply this function, select right selection Key.
- If you press right selection Key and select the icon, the camera mode will be cancelled and multimedia menu will be displayed again.

My Pictures

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

It easily allows you not only to see, save or delete images taken but also to change their names as follows;

Image management

These images will be arranged in date/time sequence. On the list, select any image you want to work on and press Option to display the following menu;

- **Open:** Opens images on the phone screen.
- **Send:** Sends images via infrared rays to user of text messages.
- **Rename Photo:** Writes or edits names of images with name writer.
- **Delete:** Deletes selected images.
- **Delete All:** Deletes all images.

The procedures described above will ask you to confirm.

Note: You can select internal or external memory what you want to use.

Motion Album

On multimedia menu, select camcorder option and press OK. In several seconds, the list of videos will be displayed just like downloaded or received videos. These videos will be also arranged in date/time sequence. On the list, select any video you want to work on and press Option to display the following menu;

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Camera menu then press select.
3. Select My pictures on Motion Album menu and press select Key.

- **Open:** Opens images on the phone screen.
- **Rename Motion:** Writes or edits names of videos with name writer.
- **Delete:** Deletes Selected videos.
- **Delete All:** Deletes all videos.

The procedures described above will ask you to confirm.

Note: You can select internal or external memory what you want to use. Use the converter tool to convert a AVI file, and use memory card to play in the Phone. (Only use the converter tool which has given from Operator, otherwise it will occur some problem)

Send image

You can send image or video saved in album using multimedia message via infrared rays. Follow the procedures below to apply this option.

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Camera menu then press select.
3. Select My pictures on Camera menu and press select Key.
4. Select an image to send and press Option Key.
5. Select Send and press Enter to display the menu with two options as follows;

a. MMS: Where you can send image to selected receiver using multimedia message. Press Enter to display the screen to write multimedia message on. Follow the procedures as described in Multimedia Message.

b. Infrared: Where you can send image to other device or equipment using infrared port. (only if there is no reserved right to the image).

Note: Video file can t be sent while attached to multimedia message or infrared port.

In address book, 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.

Besides, there are two address books.
1. **Phone Memory:** Shows all contacts saved in SIM memory and phone memory.
2. **SIM Memory:** Shows double-saved contacts in both sides and information saved in SIM memory only.

A special icon represents each contact.
In this way, duplicate contact uses visit card-shaped icon , and SIM contact uses SIM card-shaped icon , and the next 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.

Group will be represented by a special icon.

- Information in the phone book is displayed in alphabet order. Phone number correspondent to each name is marked on the right of the line under the screen.
- Up to 14-character and 20-digit input can be saved in the phone book. (If the first text input is some symbol to represent international call, up to 21 is available)
- Up to 4 phone numbers are available for a name.
- Up to 250 addresses can be saved in SIM memory. (The number of addresses available differs from each other according to card capacity)
- Up to 500 entries can be saved in phone memory.
- If all the information of a name can not be displayed at a time on screen, press the direction Key to move the information vertically so to display and read the rest on screen (being accordingly changed) to the end.

"....." if displayed in the end of the screen means that there is more information to come.

Mixed Phonebook

This address book shows all the contacts saved in phone memory and SIM card memory. The following figure shows the appearance of this screen.

Below this screen (just above the option and the previous keys) expected contact number is displayed.

Remember the icon will appear from this line if the contact is a group. Up to 750 contacts can be shown via the whole address book. (Phone memory plus SIM card memory in total)

How To Enter Phonebook

There are two methods to get into whole address book.
1. Press the left selection Key in background screen.
2. In the basic menu screen, press select 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.

Press option Key up/down (any Key if selected and kept on pressing, the selected one keeps on going up or down) to show option list which can be selected.
The options are as follow;

- View Card
- Call Contact
- New Contact
- Send Message
- Delete Contact
- Delete All

- Copy Contact To Phone
- Change Phonebook
- New Group
- Search
- Receive Card(S)
- Service Number(S)
- Own Number
- Memory Status

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

View Card

This option shows details on contact being selected.
(See the figure below)

- Name of contact is used as a title of View Card.
- It shows phone number of contact selected.
- Information correspondent to contact is displayed in the following order.

  - Name of contact (it appears on the upper of the screen)
  - Home phone number
  - Cell phone number

- Company number
- Fax
- E-mail address
- User s configuration (memo)
- Attached image
- Attached sound
- Group joined

Note: Use SIM card to display the phone number of the name selected only. Press Previous Key to go back to the previous screen. Press option Key to display options which can be applied to the name selected.

Call Contact

Make A Call

It makes a call to the name (person) selected.

Send A Message

It sends a message to the name selected.

Change

This option if selected can change the information of the name selected. Select information to change and press Left softkey to display various options related with.

These options are different from each other according to the location where the name is (SIM address book, phone address book).

For example, the following options will be displayed if Left softkey is pressed with the number selected.(See the figure below)

New Contact

This option adds new contact to address book. Select this option to display the following screen.

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 Enter Key. Press Previous Key to return to address book screen again and the name just input will be displayed.

Send Message

This option is used to send SMS (Short message) or MMS (multimedia message) to previously selected contact. Details on these two messages are as follow;

Short Message

Select short message on option screen and press Select Key to display number list applicable to the selected contact. If just one number is found available in the selected contact, start writing text message right there.

Note: If a message needs to be sent to several persons, you should select add their numbers in Add new recipient options before writing the message. After a message is written (up to 1042 letters available for a message), press option Key to display the various message functions as follows;

- **Send:** Sends a text message to a receiver with this option designated (Press Enter Key).
- **Add New Recipient:** Selects other SMS message receivers. To enter receiver setting screen, press Enter Key to display the screen, and there write receivers name desired or press the name to enter address book to select receivers.
- **Recipient List:** If this option is selected, previously selected list of receivers of text messages will be displayed. If you want to change the list, press option Key again to display the screen, where you may add recipient, Delete or Delete all as desired.
- **Save:** Saves the just written message in memory.
- **Alphabetic or numeric mode:** This option is used to select a function to write messages (characters, capital letter, small letter and numbers).

- Insert: Inserts selected Picture, animation, melody, sound, symbol and Template to a message to send. For example, you may select sound from the list as desired to insert. (When you selected, melody will sounds for a little while). The selected sound or melody will be heard when its receiver confirms the message. In this manner, choose Template option to select text prepared before on the list (e.g. Urgent! Please call! Where are you? etc.)

- **Dictionary:** This option is used to correct or cancel spelling of the written message. Select On to start correcting spelling.
- **Sending Option:** On this screen, you may select the valid period of written message (1 hour, 6 hours, etc.) and ensure the message is received.

Valid period of a message means time duration during the message stays in the communication network if not sent to its receiver. After this time, the message will be erased automatically even if not sent to its receiver.

This option sends multimedia message to previously selected contact. How to send multimedia message is as follows;

Multimedia Message

- Select Messages on option screen and press Enter.
- If the screen with several options appears, select multimedia message and press Enter again.
- If there are several phone numbers in previously selected contact, you should select a number to send the message first.
- New multimedia message screen will be displayed with the following options.

- **To Nr:** Where message receivers contact will be displayed.
- **Cc:** Where other receivers contact will be displayed.
- **Subject:** Where title of message to send will be displayed.
- **Message:** Where text message to send will be input.

• Press option to add a new receiver. First, press option Key, select Add recipient option and then press Select to get into number input window. And then, write receivers number or press name Key to select in a address book list. Press OK Key to return to new multimedia message screen. If the number of the multimedia message receivers are 2 or more, there will be all the numbers available to receive on the upper blank.
• Select Cc on new multimedia message screen to send the multimedia message copy to other receivers, and follow the procedures as specified above.
• Select Subject option to add title to a message to send and press Select Key. On the screen displayed, write title and press OK Key to finish.
• To add a message select Message option and press Select Key. If the option Key is pressed, the following options are displayed.

- **Send Message:** If this option is selected, you may send the just written message to previously selected receiver(s).
- **Add/Edit Text:** It is used to Add/Edit text. (You may change text using Write Text or Delete Text function in the option menu of previously written text.)
- **Remove Text:** It is used to remove the pre-inputted text.
- **Add Picture:** It is used to attach picture or image already saved in the phone.
- **Add Sound:** It is used to add desired sound to multimedia message. (You may select the sound saved in the phone or the sound being recorded to the phone using the microphone)

- **Add Page:** It is used to add up to 5 slides to a message to send. Each message is made up of one or more slides. Text, image and sound can be saved in each slide. Use the following options in option menu to add a new slide and its details. If a new slide is added, there will be 2 new options in the menu. They are Remove current page (used to delete attached file applied) and Go to page. (used to apply another attached file among attached files saved)
- **Save As Draft:** Saves the written multimedia message in Draft MMS folder. Alphabetic or numeric mode: You may select a mode to input messages. (Capital letters, small letters, etc.)
- **Alphabetic Or Numeric Mode:** This option is used to select a function to write messages (characters, capital letter, small letter and numbers).
- **Dictionary:** You may correct spelling of the message written.
- **Page Preview:** Displays the appearance of the present messages page.
- **MMS Preview:** Displays all details of the completed multimedia message.
- **Page Timing:** Displays the play time in second during the attached file is played. (Up to 99 seconds available)
- **MMS Priority:** Displays priority of multimedia messages sent. (High, Medium, Low)
- **MMS Information:** Displays various details included in message. (It is a brief list.) Sender's name, receiver's name, title, specified priority, date sent, message capacity, etc.

Delete Contact

Deletes selected contact from address book. How to delete from whole address book is as follows;

Contact type	Execute	Result
Mixed Phonebook	If Delete Contact option is selected, screen will be displayed to confirm.(Are you sure to delete?)	The contact is left only in SIM address book
Terminal Phonebook	If Delete Contact option is selected, screen will be displayed to confirm.(Are you sure to delete?)	The contact from Terminal Phonebook will be deleted
SIM Phonebook	If Delete Contact option is selected, screen will be displayed to confirm.(Are you sure to delete?)	Delete contact from whole address book

Press No/Cancel to cancel the execution. Press Yes to delete contact, a message Operation complete! will appear.
After that, address book list will be displayed again. (You can see the deleted details.).

Delete All

Deletes all contacts saved in selected address book (SIM, cell phone or whole address book).

Copy Contact To SIM

Used to copy selected contact. You should copy only the name and number of contact as expected. This option can be executed to cell phone memory from SIM memory or to the contrary according to the following rules. (it is different according to the type of contact or copy.)

Contact Type	Execute	Result
Copy	Copy Contact	Since the contact is previously saved in both memories, copy of the contact to SIM memory is not available.
Only From Cell Phone		

If you want to copy contact saved in SIM or cell phone memory, or if the contact with the same name exists, you should newly make the contact with the same name in both memories. (Including all the phone numbers which belong thereto) (However, the phone number will not be changed)

During copying contact, In progress screen will be displayed.

Completed or Error in progress screen will be displayed to inform you of the state. If memory is full, progress will not be successful but a message will be displayed to let you know insufficient capacity of the memory.

Change Phonebook

Opens other address book. If this option is selected, the following options of menu will be displayed.

Mixed Phonebook
Means both address books saved in SIM and Terminal.

SIM Phonebook
Means address book saved in SIM card.

Terminal Phonebook
Means address book saved in cell phone memory.
Select address book to open, and then press OK. The name of this option is Mixed phonebook where contact information is available after confirmed.

New Group

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 5 groups available.
Follow the procedures below to specify a group with new contact.

1. Select New Group on option screen. (From address book menu)
2. Press select Key to display Group Name screen.
3. Write desired name using alphabet buttons. (Up to 14 characters available for a name)

Press OK Key to finish. And you can see that the new group name is displayed on the next screen as specified.

4. It is empty at first since the group is newly specified (Empty list). Press Add Key to add another contact to this group.
5. The following options will be displayed.
   - **a. New Member:** It is used to appoint the contact on the established contact list to be a new member.
   - **b. Create Member:** In order to make a new member in a group, contact, its phone number and other procedures than described above for Make New Contact shall be fulfilled.
   - **c. Rename Group:** Displays the screen to change previously specified group name to another name.

6. If new contact is made or added to group, Call member, Add member (with contact selected from established address book), Create member (starting from 0), Remove member, Set Group melody (any call to the group members will make specific melody sound) and Set group Photo are available.

If new group is made, press Previous Key to display its name on the list.

Search

This option is used to search for other contacts on the contact list.
Select Search option to display Search by name screen.
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).

Receive Card(s)

It receives a phonebook data from PC through an infrared port.
If this option is selected, receive card screen appears, where Via infrared rays option is available.
Press Enter Key to start to receive messages via an infrared device.
If transmission is normal, new card will be added to address book.

Service Number(s)

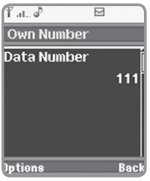
Setting service numbers. Select service numbers then press Call Key.

Own Number

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 Enter 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.).

How to add or cancel number is as follow;

1. Select specific number, press Add/ Delete, and then Select.
2. On the next screen all numbers belonging to the specific number are displayed. : Data, fax...*f* (see next figure)



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 Enter to finish.

Memory Status

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.

- Names saved in cell phone memory (up to 250 available)
- Phone numbers saved in cell phone memory (up to 500 available)
- The number of groups saved in cell phone memory (up to 5 available)
- The number of names saved in SIM card memory (up to 40 available)

Group Setting / Group Work

If a user group is made, select address book option on the main menu and then desired group on the contact group list to perform group work.
Click /Option Key to display the following lists;

- View Group
- Send Message To Group
- New Group
- Rename Group
- Delete Group
- New Contact
- Receive Card(s)
- Service Number(s)
- Change Phonebook
- Memory Status

Functions of these options are as follow;

View Group

It is used to view all the members belonging to selected group. On the list select a member and press/Option Key to apply the followings:
Make a call to members, Delete, Add new member to group, Group melody or image setting.

Send Message To Group

It is used to send SMS text message or MMS multimedia message to selected group members.

- In the first case (Shot message), SMS message screen will be displayed to write message. Use the function with alphabet / number Key or press option Key to display message option. (Refer to Send Message described above). If SMS message has been written with its receiver specified, press Send option to send the message to the designated number of the selected contact.
- In the second case (MMS message), this option sends MMS multimedia message to selected members. First, select multimedia message on Select screen and press OK to display new MMS screen. How to use this screen and its options has been described above (see Send Message). If MMS message is written (including text, image, sound, etc.) with its receiver designated, you may send the message in the following procedures;

1. Select message on new MMS screen.
2. Press Select Key to display message screen.
3. Press Select/Option Key and select Send Message on the list displayed. (first option of the list)
4. Press OK Key to send the message.

New Group
This option is used to add new group to address book. Select new group on Select/screen and press OK Key to display Group Name screen. How to use this screen and its options has been described above (see New Group).

Rename Group
It is used to change selected group name. Select Rename group on Select screen and press OK to display Write Rename group screen. Use alphabet/number buttons to change to new name. Press OK Key to finish.

Delete Group
It is used to delete selected group. Select Delete Group on Select screen and press OK to display the following message screen to confirm “Delete?” Press Yes Key to delete the selected group and its all information, which will never be recovered. Now contact list in address book will be displayed. Press No Key to cancel Delete and return to address book screen.

New Contact
It is used to add new contact to address book. Select New Contact on option screen and press OK to display option screen. How to use this screen and its options has been described above. (see New Contact)

Receive Card(s)
It is used to receive card through infrared port. If this option is selected, Receive card screen appears, where Via infrared rays option is available. Press OK Key to start to receive messages via infrared rays.
If transmission is succeed, new card will be added to address book.

Service Number(s)
Setting service numbers

Change Phonebook
As described in Change Phonebook above.

Memory Status
As described in Memory Status above.

Terminal Phonebook

It displays the contacts saved in phone memory and the contacts saved in both (cell phone and SIM card) only, thus to show details of whole address book always.
Follow the procedures below to set and apply phone address book.

1. Press menu Key on background screen to display main menu with phone options.
2. Select phonebook and press OK to display phonebook screen.
3. Press option Key to display option screen.
4. Select Change Phonebook and press OK to display Change Phonebook screen.
5. Select the last option on this screen and press OK Key to set and apply Terminal phonebook.

Note: From now on, the Terminal phonebook will operate till other type of phonebook is selected (even if GRUNDIG mobile is turned off).

All the options related with phonebook are as specified in Mixed phonebook (excepting the following).

- **New Contact (name):** Newly input contacts are saved all in the phone memory (they become the contacts only for the cell phone). Thus, right after this option is selected, Name screen will be displayed, where you should write new contact name and select a location to save this information (similar to whole address book).
- **Erase/Delete Contact:** If this option is selected, only the contacts saved in phone memory will be deleted. In other words, if the same contact is saved in both, copy of the contact in SIM card is kept (still displayed in whole address book or SIM address book).
- **Copy Name To SIM:** If this option is selected, copy of contact to SIM card memory is available. If the contact exists already in SIM card, a message will appear to let you know. Contact name and selected number only will be copied.

SIM phonebook

SIM phonebook shows only the information saved in SIM card memory and the information saved in both, thus displaying whole address book always. Follow the procedures below to set and apply SIM address book.

1. Press menu Key on background screen to display main menu with phone options.
2. Phonebook and press OK to display address book screen.
3. Press option Key to display option screen.
4. Select Change Phonebook and press OK to display Change phonebook screen.
5. Select the second option on the screen and press OK Key to set and apply SIM phonebook.

Note: From now on, the SIM phonebook will operate till other type of phonebook is selected (even if the terminal is turned off). All the options related with SIM phonebook are as specified in Mixed phonebook (excepting the following).

- **View Card:** With this option selected, SIM address book shows the following information only: Phone number included in contact, group the contact joined (if any).
- **New Contact:** Newly input contacts are saved all in the SIM card memory. Thus, right after this option is selected, Name screen will be displayed, where you should write new contact name but you don t need to select a location to save this information (similar to whole address book)

- **Delete Contact:** If this option is selected, only the contacts saved in SIM memory will be deleted. In other words, if the same contact is saved in both, copy of the contact in phone memory is kept.
- **Copy Name To Phone:** If this option is selected, copy of contact to phone memory is available. Contact name and selected number only will be copied.

The menu option named Message allows settings of text message, multimedia message, chatting, and environmental services for messages.

6. Messages

The menu defined as message allows text message, multimedia message, chatting, cell phone mailing, and connection to environmental services for messages.

Follow the procedures below to connect to message menu.

1. Press the left selection Key in background screen.
2. In the basic menu screen, press select Key while Messages icon is selected.

The options on this menu are as follow;

- Short Message
- Multimedia Message
- CB Message

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

Receive Message

Text Message

If receiving a new text message, the phone (SMS and EMS) will sound (sound can be cancelled if requested). And a screen appears to display the number of messages received.

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

- **Open:** Opens the text message for you to read its details.
- **Delete:** Deletes received messages from the list.

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

Multimedia Message

Reaction of the phone which received MMS message (multimedia message) is different based on the specified display option.
Recovery display can be defined as specified in the described procedures in <multimedia message>.

Send New Message

As previously described, two different types of messages can be sent.

- One is short message (SMS) composed of text only and the other is multimedia message (MMS) composed of text, image and music. How to use these is as follows;

SMS 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 select.
3. Select shot messages on message menu and press select Key.
4. Select new messages on shot message menu and press select Key.

5. Press option Key.

- **Introduce Recipient:** Displays receivers of message. You may select receiver s name using phonebook or directly input phone number. You can select Add new recipient to send the same text to all receivers added at a time.
- **Save:** Saves text which is not yet sent in phone memory. The text will be saved in unsent box in outbox folder.
- **Alphabetic Or Numeric Mode:** Shows how to input capital letters, small letters, capital and small letters, or numbers. Press <*> Key shortly to step to other various modes (Ab, AB, ab, 123).
- **Insert :** Allows user to insert some object in a message. For example, picture (simple static picture), animation (small moving picture), melody (music), sound (simple bell), symbols (press <#> Key to display text writer to select symbol as desired thereon), or Template are available. Insert one of 4 objects in a message to display a series of icons on the message (simple musical note, square).
- **Dictionary:** Makes spelling dictionary on or off.

- **Sending Option:** Makes active or inactive the information menu on valid period of message (1 hour, 6 hours, 12 hours, 24 hours, 72 hours, 1 week, maximum) or select report options On or Off.

The message whose valid period is over will not be sent but deleted. Confirmation of message allows you to ensure that the message is received. If once details of message are specified, the receiver will display menu list related with the message. (see the figure below)

- **Send:** Sends a message to a specific receiver only. The number of text letters will be displayed on the screen as follows. Press OK Key to send the message.
- **Add New Recipient:** Adds a new receiver of message.
- **Recipient List:** Shows the list of receivers of message. Press option Key to input a new receiver or to delete the existing receiver.
- **Other Options:** (Save, Alphabetic/Numeric mode, Insert, Dictionary, Sending option) are previously described.

Multimedia Message

Follow the procedures below to send a multimedia 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 select.
3. Select multimedia messages on message menu and press select Key.
4. Select new messages on multimedia message menu and press select Key.

- **To Nr:** Where main receiver's phone number will be surely specified. Up to 1024 characters are available for receiver and up to 20 numbers for the phone number. Press names menu to set receivers.
- **Cc:** Where other receiver s contact will be displayed to receive copy of message. How to select receivers is as described previously. You may input several phone numbers or E-mail addresses to send a message to many receivers at a time through address book screen.
- **Subject:** Where title of message will be displayed. Select this option and press Select Key to go to Subject screen described previously to input up to 100 characters.
- **Message:** Where details of message are written. This option is applied as described in "Send Message" and "Multimedia Message". Press option Key on Send Message to send the message written. On the next screen the capacity of the message will be displayed.

Press OK Key to send the message. If you want to save the message before sending, select Save as Draft Key on the menu and press Execute Key.

Inbox

It is a space to save all the messages received including SMS, MMS and other messages to send. The received box includes all the lists of the messages received.
If a message is received, separately specified sound of bell will operate. And as shown below, an image will be displayed on the screen.

View Saved Message Not Read Yet
Follow the procedures below to read new message saved.

1. Select Inbox on message menu and press option Key.
2. Following options are available on the Inbox menu.

a. Read Text Message: Select text message option to display text message list, received. Each message has an icon and senders number. There are two kinds of icons;

- 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.

Select a text message to read now and press option Key. Select Open (press Delete Key if you want to delete it) and press OK Key to display the following screen showing such information as text message, senders phone number, date and time when the message was sent.

- **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.
- **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 MMS or SMS, and Send SMS & MMS message are available.
- **Delete:** This option allows you to erase text message that you read or get vid of all message.
- **Save Number:** Saves the phone number of text senders in phone memory or SIM card (name of the phone user, type of the phone and number of home, company, cell phone, fax, etc.)
- **Extract Data:** Allows you to make use of the phone number, E-mail address or URL address saved in the text message received.

b. Read Multimedia Message (MMS): Select multimedia message option to display the list of multimedia messages received and saved. Select message to read and press option Key to display various option menus.

- **Save Object:** Saves melody and image attached.
- **Previous Page:** Shows the previous slide.
- **Next Page:** Shows the following slide.
- **Reply:** Replies to message received.
- **Reply To All:** Replies to all senders.
- **Forward**
- **MMS Information:** Displays additional information on the received MMS message.
- **Delete:** Deletes selected MMS.
- **Delete All:** Deletes all MMS.
- **Call Sender:** Makes a call to MMS sender.
- **Extract Data:** Allow you to make use of the phone number, Email address or URL address saved in the text message received.

Sent

It is the place all sent messages are saved (messages sent or saved after written). The sent box saves two types of messages, which are SMS (text message) and MMS (multimedia message). Follow the procedures below to go to the sent messages box.

If a message is opened, the details of the message will be displayed on screen. The options related with Open Text Message are as follow;

SMS Message

- **Forward:** Forward text message
- **Call:** Makes a call to receiver of text message.
- **Delete:** Deletes text message.
- **Save Number:** Saves receiver s phone number in SIM card or phone memory. The options related with multimedia message displayed on screen are as follow;

Multimedia Message

- **Write:** Edits all information related with To, Cc, details or message.
- **Resend:** Resends text message.
- **MMS Information:** Displays brief information related with multimedia message.
- **Delete:** Deletes multimedia message.
- **Delete All:** Deletes all multimedia messages saved in Sent Box.

Unsent

Shows text message or multimedia message not sent but saved only. Other functions related with this option are the same as specified in Sent messages.

Draft MMS

Use Save Key to display temporary box of multimedia messages saved. Refer to <Multimedia Message>. Go to Draft MMS screen to find MMS messages saved. Press Details Key on the temporary box list to edit. Press option Key simply to have access to options related with selected temporary box. The options (Edit, Send message, MMS information, Delete, Delete all) are the same as described in Sent Messages.

Delete All SMS

Delete all short messages.

Delete All MMS

Delete all multimedia messages.

Options

SMS Setting

It is used to define a series of text message options. The options displayed on screen are as shown below;

- **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.
- **Edit Preset:** Edits details of messages saved in dictionary. Up to 5 messages can be saved in dictionary. The message saved in the phone is of up to 70 characters as described below;
- **SMS Configuration:** Specifies sending type.
  - **GPRS Only:** Makes messages be sent only in GPRS type. And messages if not in GPRS type will not be sent.
  - **GPRS Preferred:** Makes messages be sent in GPRS type. And messages even if not in GPRS type will be sent in GSM type instead.
  - **GSM Only:** Makes messages be sent only in GSM type. And messages if not in GSM type will not be sent.

MMS Setting

It is used to define a series of options for multimedia message. The options displayed on screen are as shown below;

- **Valid Period:** Maximum period can be specified as necessary to make message sent. If once the period is over, the message will be automatically deleted. 1 hour, 12 hours, 24 hours, 72 hours, 1 week and the maximum are available for the period. The maximum has been previously established by its service provider. However, the minimum is 1 hour as described above.
- **Read Report:** If this option is executed, you can be sure if its receiver has read the message or not. Once the receiver read the message, the time and date when the message was read will be sent to its sender. No option is available for this function. It lets you be sure if the message has been read by the receiver or not.
- **Delivery Report:** If this function is executed, the message sender will have information on message transfer from MMS service center, through which the message sender can be sure if the message has been read by the receiver or still saved in MMS service center. This information includes the receivers phone number, message details, present state (if transferred or kept in MMS service center), transfer time and date.
- **Connection Server:** It is used to specify the options related with multimedia message server. In other words, it means the computer which sends multimedia message (MMS) sent or received by user.
  - **MMS Profile:** This option is used to make MMS information transfer function active. Select desired information and press option Key. And press Details Key to show details of the information described above.

- **Advanced Settings**
  - **MMS Retrieval:** Select MMS retrieval type (Automatic, Automatic in home network, With user confirmation, or Via inbox)
  - **Adverts Reception:** Select on or off

Use Modify option to edit information.

- **Rename:** Changes the name of information.
- **GSM Settings:** Displays environmental setting of GSM connection and specifies number to call, type of terminal (analog or digital), and inactive duration till the service is available.
- **GPRS Settings:** Helps to change the address of APN or communication network.
- **GSM/GPRS Preference**: Specifies connection type to use. (GPRS preferred, only GPRS or only GSM)
- **Login Name:** Specifies name of the user.
- **Password:** Means password to be used.
- **Gateway Address**: Shows IP address of gateway.
- **Connection Type:** Displays connection type. (connection oriented, secured connection oriented, connection less, secured connection less)
- **DNS Address:** Shows IP address of DNS server.
  - **MMS Server Address:** Shows connection address to MMS service Select MMS server address and press OK Key to change server address or to get into the server. Press OK Key to make the address valid.

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.

- **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.

- **Mode:** Shows 5 methods to display received message on screen via this sub-menu. (These methods specify environment of received group message or each channel used) (see the figure below)
- **CB List:** Shows group messages recently received, not saved nor deleted on this screen. If there is no message, List is empty will be displayed. If there is any message, its related title will be shown. Press details Key for further information. To save the message press Yes Key, and press No to delete.
- **Saved CB List:** Shows group messages previously saved on screen. (refer to Previous Option) If there is no message, List is empty will be displayed. If there is any message, its related title will be shown. Press option Key to delete messages open or saved.

Games

Follow the procedures below to go to Games menu.

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Leisure menus icon and then press OK. The icons are as shown below;
3. Select Games and press OK to go to Games screen with the options as follow;

• My Videogames

Melodies

Follow the procedures below to go to Melodies menu.

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Leisure menus icon and then press OK. The icons are as shown below;
3. Select Melodies and press OK to go to Melodies screen with the options as follow;

- My Melodies
- Default Melodies

Images

Follow the procedures below to go to Melodies menu.

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Leisure menus icon and then press OK. The icons are as shown below;
3. Select Images and press OK to go to Images screen with the options as follow;

- My Images
- Default Images

Memory

1. In stand-by state, press menu Key to display main menu option.
2. Use the direction Key to select Leisure menus icon and then press OK. The icons are as shown below;
3. On Leisure screen, select Memory and press select to display the following information.

You may have access to WAP via two routes.

- In stand-by state of GRUNDIG mobile, press OK Key .
- In stand-by state, press menu Key and with WAP option selected, press OK to display the option list as shown below;

The following is available with the options displayed on this screen.

- Open
- Goto URL
- Bookmarks
- History
- Cache
- WAP Settings
- Service Indication

If you want to have information on such services, please contact your service guide of the communication company.

In Settings menu, you can specify all appearances of GRUNDIG: (for bell volume of call received, calling bell melody, background screen image, other setting options of communication network, security and connection) 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 menus icon and then press OK. The icons are as shown below;

- **Alert Type/Vol:** Sets bell volume of call received, or other options.
- **Telephone:** Sets options related with the cell phone.
- **Network:** Sets communication network to connect to the phone.
- **Security:** Sets the appearance of security for Reject access or View phone list.
- **Connectivity:** Sets infrared connection or modem. Details of each option are as follows;

Alert Type/Vol

• On Settings menu, select Alert Type/Vol option to specify bell volume of call received or other options.

Note: In stand-by state of the screen, keep pressing #(sharp) for a few seconds to change the option to manner mode, if you keep pressing #(sharp) for a few second again in manner mode it will change to the predefined mode.

1. Volume: Sets volume from Speaker & Earpiece and Ringer for hearing or speaking. Select applicable option and press OK. Press the upper of the center Key to turn the volume up, or the lower to turn the volume down. After the volume is set, press OK to return to volume menu.

Note: 5 levels of volume are available; Min (1 bar), Low (2bars), Middle/ Normal (3 bars), High (4 bars) and Max (5 bars).

2. Tone: Set Ring tone and other sound options.

a. Ringer Tone : Sets melody for received call. Select this option and press OK to display My melodies (downloaded), Default Ring call(Boccherini ~ Maquina Escribir) and MP3 melodies.

b. Message Tone : Allows you to apply or cancel the sound function operated whenever the message is received. (Off, Tone1 ~ Tone5)

d. Power Tone : Allows you to apply or cancel the sound function operated whenever you on/off your cell phone.

e. Key Tone : 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.

f. Error Tone : Allows you to apply or cancel the sound function operated if an error occurs on the phone. (Default is set on)

g. Connect Tone : Allows you to apply or cancel the sound function operated whenever your phone is connected to the other.

3. Bell/Vib: Set the sound mode when the phone operates.

a. Sound Only: Alerts(Ring) only with sound when you have a call or/and operates the phone.

b. Vibrate Only: Alerts(Ring) only with vibration when you have a call or/ and operates the phone.
c. Sound After Vib: Alerts(Ring) with sound after the vibration when you have a call or/and operates the phone.
d. Sound With Vib: Alerts(Ring) sound with vibration when you have a call or/and operates the phone.
e. Silence: No Alerts(Ring) except LED blinking when you have a call or/ and operates the phone. [Sound in games, Alarm]

Telephone

• On Settings menu, select Telephone option to specify bell volume of call received or other options.

Ringingtones

On Ringingtone screen, select an ringingtones. (taken or saved in ringingtones file, or downloaded via service provider)

Wallpapers

On the phone screen, select wallpaper option. On wallpapers screen, select an image (taken or saved in Picture file, or downloaded via service provider, or existing) to use a background screen. The procedure to select is described in Image Option of Leisure menu.

Note: You can select internal or external memory what you want to use.

Time And Date

On the Telephone screen, select Time and date option and press OK to display the 4 options as follows;

- **Date:** Select this option and press OK 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 OK.

- Change Date Format: Select this option and press Enter to edit Date form displayed on the phone, where 3 options are available.
  - **DD-MM-YY:** Established form (day-month-year)
  - **MM-DD-YY:** Form in English (month- day- year)
  - **YY-MM-DD:** 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 OK to edit Time displayed on the phone. With number Key, change Time as desired 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 OK.

Note: If Time is based on 12 hours system, AM or PM can be selected as necessary. Select AM or PM and press Up/Down Key.

- **Change 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 to return to previous screen.

Languages

On the Telephone screen, select Language option and press OK to display Language screen, where you can choose a language you want to use. (If a language is selected, all menu options, option Key, message, form, etc. will be displayed in the language selected) Available languages are as follows:

- Automatic
- Español
- English
- Français

On the list, select a language you want to apply and press OK. If Automatic is selected, the phone will select a language as specified in SIM card.

The phone will choose applicable country s cell phone code (MCC) and install its applicable language. If such information is not available or there is no SIM card in the phone, Spanish will be applied for you to use.

Backlight

On the Telephone screen, select Setting Backlight option and press OK to display Backlight screen, where 2 options are available;
Lighting (screen and Key pad) and Time (duration the backlight is kept on when the phone is not operated). Lighting has two options;

- **Normal Mode:** With the highest illuminance, it operates whenever the user operates the Key pad.
- **Dimmed Mode:** With low illuminance, it operates if the user does not operate the phone for some specified time.

If you want to make the mode active in case the phone is not operated for some specified time, select desired mode on Backlight screen and press OK to display 2 options;

- **Normal:** Press OK to display time setting screen where you can set the time as desired to make the screen dim automatically if there is no Key operation for specified time. 10 to 60 seconds are available. If an applicable option is selected, press OK Key to return to previous screen.
- **Dimmed:** Press OK to display time setting screen where you can set the time duration how long the screen shall be kept dim. 10 to 60 seconds are available. If a desired option is selected, press OK Key to return to previous screen.

Dictionary

On the Telephone screen, select Dictionary option and press OK to display 3 setting items.

- **Personal Dictionary:** It is used in Expected Mode when you write a message. If your phone dose not expect a word to input when you are writing a new message, you can add the word to the Personal dictionary for the phone to expect it later. Select Personal dictionary option and press OK. And then, press On and OK Key.
- **Used Word Dictionary :** If this option is selected, a word whenever input will be automatically saved in this dictionary, which will apply Expected mode for next messages.

If you want to apply this, press OK and select On to Confirm.

- **Secondary Language:** Expected mode is also applied to the Secondary language. In case with this option executed a word is not found in main language dictionary, the word will be searched for in the Secondary language dictionary. If you want to apply or cancel this option, with the option selected press OK and choose English or another as necessary or None (if Secondary language is not necessary). After then, press OK Key.

Welcome Message

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). The greeting is of text factor and graphic factor, which are all available for you to set. Select <Setting phone environment> and press Enter on the Greeting option to display greeting message with 2 options as follows;

- **Message:** This may or may not show text messages. Select a proper option and press OK. Select On and press OK to input a text message you want to display on the screen of the phone when it is turned on (up to 13 characters available). After desired text is input, press OK.
- **Animation:** You may set animation option or may not if not necessary. Select a proper option and select on to Confirm to display the image played.

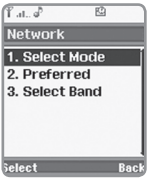
Reset Setting

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 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.

Network

Select Network on the setting menu to go to the setting option of network environment and press OK to display network related screen with menu options as follows.



- **Select Mode:** Sets how to find communication network (Automatic, Manual)
- **Preferred:** Specifies environmental setting of communication network list as desired by user.
- **Select Band:** Allows you to select frequency Automatic, GSM900 / DCS1800 and PCS1900.

Each option will be described later.

Select Mode

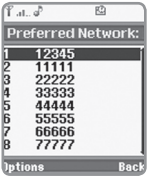
On Network screen, choose select mode and press OK to display select mode screen with 2 PLMN communication network options.

- **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.

Preferred

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

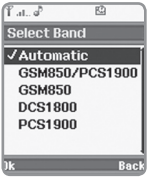


PLMN communication network connected will be displayed on this screen in preferred sequence.
Available option buttons are as follows:

- **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. 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 and Enter. Then press Yes to confirm.

Select Band

This option is used to set environment of the phone in order to search for communication network automatically or by hand.
In case of manual mode, GSM900/DCS1800 or PCS1900 of frequency can be selected. For its details, choose select Band on Network screen and press OK to display Band option screen with previously described options.



- Automatic: previously specified option
- GSM900/DCS1800
- PCS1900

Select a desired option and press Confirm.

Security

The cell phone is of security system necessary to specify environment accordingly to personal need.
On Adjust menu, select Security to enter Setting security environment option (See <Setting> menu for the route to this). Then the following screen will be displayed, whose options are also available in other menu.

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 OK to get to PIN lock screen. Select On and press OK 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

In case you don t like the password 1 or 2 which was input in your phone, you can easily change it.

1. Select Change PIN 1 or 2 on Security screen and press OK (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 (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.
4. A message will be displayed again, saying <Verify new PIN>. Then input new 4-digit password again and press OK. 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: Correct password of 4 digits shall be input.

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 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, 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 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 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.

Connectivity

It allows your phone to connect to other equipment, which is available via built-in infrared port and WAP connection as well. Select Connectivity submenu on the Setting option to specify connection environment as shown below;

InfraRed

You can use the phone as a modem or receive data from other equipment via infrared port. Select Infrared option on Connectivity screen to apply this function (See <Connectivity>)
Press OK to go to the screen with the following option.

- Modem: Makes the infrared port active or inactive necessarily to receive instructions from other equipment (Two options are available; On and Off. The existing option specified has been through confirmation).

Select On option and press OK to execute the infrared connection.
After the connection is set, infrared connection icon will be displayed on the upper screen. While data is sent, this icon will blink.

Note: When the modem is operated by infrared rays, the connection via serial port will be cut off. And once the infrared connection expires, it will change to serial port connection.

- **IR Reception:** Executes infrared connection in order to receive external data. Select the on On option to apply this function. If this option is executed, infrared modem will be canceled automatically.
- **Connection Duration:** Specifies connection duration via infrared rays. 1, 5, 10 and Until Deactivation are available. Default is 5 minutes.
- **My Objects:** Displays MMS messages and data moved or received from infrared port or applications, any of which can be sent to others, being attached to a multimedia message later. All its saved files which have 5 sub files available respectively can be sent via infrared port.
  - **My Pictures:** Saves applicable format of images and allows you to connect to the images saved in Image album, where you can open the image file you want to send to other user, change its name or delete.
  - **My Animations:** Saves applicable format of animation and allows you to connect to the animation saved in the file folder, where you can open the animation file you want to send to other user, change its name or delete.
  - **My Melodies:** Saves applicable format of sound and melody and allows you to connect to the melody saved in the file folder, where you can open the melody file you want to send to other user, change its name or delete.

- **Various Objects:** Saves other formats of files than compatible and allows you to save all kinds of files. This option has the same procedures as described above.
- **Object Inbox:** Saves all the files related with multimedia messages, saved or received from other applications which have no file folder. How to apply this option is as described previously.

Note: The phone may receive various types of data (image, animation, melody or sound) from other equipment via WAP page, infrared port or cable. All the data will be saved in the Object inbox folder upon received. Press Object inbox folder option to enter the folder to manage the data saved therein. Press option Key to go to the following menu option.

- **Details:** Shows details of a file saved (Number of files, Directories, size, Available Phone memory).
- **Open:** Opens a file with suitable application. For example, JPEG image files will be opened by an image viewer, and MIDI sound files by a sound player.
- **Rename:** Changes the name of a folder.
- **Delete:** Deletes a folder selected.
- **New Folder:** Makes a new file folder to save a group of files therein.

Your SP210 is authorized to be used in the GSM network. It meets the following directives of the European Union:

a. The ETS 300-342-1 <Electromagnetic Compatibility> (CEM) for European digital mobile radio-communication system.
b. Meets the basic requirements of European Directive 1999/15/EC.
c. 73/23/EEC (Directive of low voltage) as amended in 93/68/CEE.
d. Meets the ETSI version for GPRS.
e. Meets the ETSI version 1996 for GSM.
f. Meets the SMG numbers 30 bis, 31, 31 bis and 32.

Technical Specifications

Physical Parameters

- Weight: less than 78 grams including standard battery.
- Dimension: 83(118) X36X21mm.

Battery

- Type: Li-ion
- Capacity: 650mAh
- Load time: Maximum 4 hours
- Standby time (DRx=): Up to 150 hours in standard mode, and up to 330 hours in saving mode.
- Talk time: 210 min

CAMERA

- Resolution: 1.3 MEGAPIXEL

RF Characteristic

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

Hereby, Vitelcom Mobile Technology S.A. declares that this product is in compliance with the essential requirements and other relevant provisions of Directive 1999/05/EC of the European Parliament and the European Council from 9th March 1999, which was alienated in Spanish Law subject to the Royal decree 1890/2000 from 20th November 2000.

CE 0700

PRODUCT
Product description: Mobile Telephone Triband. (900/1800/1900 MHz or 850/1800/1900 MHz)
Model: SP210

MANUFACTURER
Vitelcom Mobile Technology Avda Juan López Peñalver, 7 29590 Campanillas Málaga SPAIN.

If you want to get in contact with the manufacturer of this mobile phone please do this by post (by regular mail?) under following address:Vitelcom Mobile Technology, Avda Juan López Peñalver 7; 29590 Campanillas Málaga, SPAIN or by sending an email to infovmt@vitelcom.es.

WARRANTY

Exception Of Quality Warranty

This warranty will be void in the following cases;

1. In case the product is misused or used for other purposes than specified in the present safety standard of its applicable country, or any instruction described in the manual is violated.
2. This warranty dose not include normal defects unavoidable during use.
3. This warranty dose not include normal defects unavoidable on plastic, paint, Key pad or antenna.
4. GRUNDIG is not liable to any defect caused by repair, change, or technical support provided by unauthorized service center or person, or any defect caused by other accessories than original. The original accessories are to be manufactured by Skyspring&Vitelcom and certified by GRUNDIG.
5. This warranty dose not include defects on personal paint or parts.
6. Battery and charger will be guaranteed for 6 months only. If the battery is charged through other charger than GRUNDIG, this warranty will be void.
7. In case of defects caused by robbery, theft, thunder, fire, moisture, flood, electric waves of other equipment, electro-magnetic variables, electric wire, or natural disasters.
8. If the serial number is removed from the product, or erased, or illegible.

Separately from the legal warranty, those clauses above are the only resource for its maker or dealer to use in case of defects. In addition, this warranty excludes other warranties tacitly related with goods sales. GRUNDIG has a right to hand over the freight expense (caused by delivery to service center) to user.

Conditions For Complete Warranty

The quality of the product will be guaranteed by its provider GRUNDIG for a period of one year upon purchased against defects or abnormal operation due to faulty materials or workmanship, when authorized engineer can repair or change the defective parts based on his judgment. If the customer is not satisfied with the result or the product falls still short of the optimum performance, the customer has a right to exchange the product for an equivalent one or to ask an equivalent refund to the product only providing that GRUNDIG as the subject of quality warranty is informed of such fact within 10 days after the product repaired.

The person in charge of quality warranty shall pay back all the expenses paid first for the product and the phone card to complete the refund of the product.

During the warranty period, all the replaced defective parts will belong to the manufacturer.

Any customer who wants to make a protest against the warranty is to present the followings;
a) The customer able to read, shall present the original warranty where purchase date, purchase shop, type of product, serial number, IMEI number, accessories manufacturing date and code are described, and the original statement of tax account.

GRUNDIG considers that the period of quality warranty on the product is for 12 months after the date of purchase. The agent shall repair all the defective parts or product free of charge (parts, labor).

MEMO

MEMO

MEMO

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 0.693 **W/Kg**and when worn on the body , as described in this user guide, is **0.193 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: TKHSP-210.**

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.