

Hello,

Thank you for purchasing VK cellular phone.

VK1000 is a fabulous folder type camera MP3 phone only for brilliant people. 65K CSTN LCD allows you to enjoy multimedia functions through clear and precise screen. The 64 poly brings you incredible sound that is almost similar to that of the original sound quality and it will be your take-out audio system. VK1000 is embedded with cutting edge camera that features 330K pixels, 4x digital zoom, self-timer function, and movie clip recording function.

Thank you again for choosing VK product and we hope you have greatest success in your business with VK1000.

Please read 'Safety Precaution' prior to use.

The content of this manual and functions of cellular phone are subject to change depending on the software version and conditions in business.

# Contents

<b>PRIOR TO USE</b>	<b>6</b>	<b>BASIC FUNCTIONS</b>	<b>24</b>	<b>BASIC FUNCTIONS</b>	<b>44</b>	<b>MENU FUNCTIONS</b>	<b>60</b>
Safety Precaution	7	Basic Operation	25	Contacts Menu Function	44	Menu Tree	61
Unpacking	14	Switching On/Off	25	Menu Function of Selected Items	49	Message	67
Phone Layout and Keys Function	15	Making a Call	26	<b>Character Input Mode</b>	52	Short Message	67
Key Description	16	Answering a Call	28	T9 Mode	52	Multimedia MSG	74
LCD Icon Description	19	Hanging up	28	ABC Mode	55	Voice Mail	80
Inserting SIM Card and Battery	20	Options During a Call	29	Numeric Mode	58	Informational Msg.	81
Charging a Battery	21	Missed Calls	32	Symbolic Mode	58	Memory Status	82
		Volume Adjustment	32	Changing Text Input Mode	59	<b>Calls</b>	83
		Manner Mode	33			Call History	83
		Using Ear-microphone	34			Network Services	87
		Standby Screen Function	35				
		<b>Contacts</b>	<b>36</b>				
		Storing Phone Numbers	36				
		Search Phone Number	40				

# Contents

MENU FUNCTIONS	
Gallery	91
Photo	91
Video-Clip	94
Images	97
Animation	99
Sound	102
Music	104
T-Flash Management	106
Memory Status	108
Camera	109
Photo	110
Video Clip	111
Settings	112

MENU FUNCTIONS	
Settings	114
Display	114
Sound	118
Phone Setting	122
Security	125
Infrared Receive	129
Connection to a Computer	130
Organizer	132
Calendar	132
Alarm	137
Memo	140
Voice Record	141
Calculator	142
Unit Converter	143

MENU FUNCTIONS	
World Time	143
Stop Watch	143
MP3 Player	144
Music Play	144
Edit Play list	147
Joy World	149
Internet	149
Games	155

OTHER FUNCTIONS	
MP3 Editing Tool Installation Guide	156
PCSync Installation Guide	158
Safety Information	160
Using the Batteries	163
Safety Information	165
Care and Maintenance	170
FDA Consumer Update	173
FCC RF EXPOSURE INFORMATION	183
Glossary	186

## PRIOR TO USE

- Safety Precaution
- Unpacking
- Phone Layout and Keys Function
- Keys Description
- LCD Icon Description
- Inserting SIM Card and Battery
- Charging Battery

# VK1000

## PRIOR TO USE

### ■ Safety Precaution

#### Maintaining Safe Use of and Access to Your Phone

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

#### Important Information

This user guide contains important information on the use and operation of this phone. Please read all the information carefully for optimal performance and to prevent any damage to or misuse of the phone. Any changes or modifications not expressly approved in this user guide could void your warranty for this equipment. FAILURE TO FOLLOW THE INSTRUCTIONS OUTLINED MAY LEAD TO SERIOUS PERSONAL INJURY AND POSSIBLE PROPERTY DAMAGE.



To reduce the possibility of electric shock, do not expose your phone to high humidity areas, such as the bathroom, swimming pool, etc.

### Always store your phone away from heat.

Never store your phone in settings that may expose it to temperatures less than 32° F or greater than 104° F, such as outside during a snowstorm or in your car on a hot day. Exposure to excessive cold or heat will result in malfunction, damage and/or catastrophic failure.

### Be careful when using your phone near other electronic devices.

RF emissions from your mobile phone may affect nearby inadequately shielded electronic equipment. You should consult with manufacturers of any personal medical devices such as pacemakers and hearing aides to determine if they are susceptible to interference from your mobile phone. Turn off your phone in a medical facility or at a gas station. Never place your phone in a microwave oven as this will cause the battery to explode.

**IMPORTANT!** Please read the TIA SAFETY INFORMATION on page 137 before using your phone.

### Safety Information

Please read and observe the following information for the safe and proper use of your phone and to prevent any unanticipated damage by accident. Also, keep the user's manual in an accessible place all the times after reading it.

- Unplug the power cord and charger during a lightning storm to avoid electric shock or fire.
- Do not use your phone in high explosive areas as the phone may generate sparks.
- Do not put your phone in a place subject to excessive dust, and keep the minimum required distance between the power cord and heat sources.
- Unplug the power cord prior to cleaning your phone, and clean the power plug pin when it is dirty.
- Do not damage the power cord by bending, twisting, pulling, or heating. Do not use the plug if it is loose as it may cause fire or electric shock.
- Hold the power cord plug firmly to plug and unplug the power cord. Ensure the plug is firmly connected. If it is not firmly connected, it may cause excessive heat or fire.
- Do not place any heavy item on the power cord. Do not allow the power cord to be crimped as it may cause fire or electric shock.
- Be careful not to let the battery contact metal conductors such as a necklace or coins. When shorted, it may cause an explosion.

- Do not disassemble or impact to the battery as it may cause electric shock, short-circuit, and fire. Store the battery in a place out of reach of children.
- Using a damaged battery or placing a battery in your mouth may cause serious injury.
- Do not place items containing magnetic components such as a credit card, phone card, bank book and a subway ticket, near your phone. The magnetism of the phone may damage the data stored in the magnetic strip.
- Do not hold or let the antenna come in contact with your body during a call.
- Talking on your phone for a long period of time may reduce the call quality due to heat generated during the use.
- Do not allow excessive vibration or impact to the phone.
- When you do not use the phone for a long period time, store it in a safe area with the power cord unplugged.

#### Cautions for Travel Adaptor and Battery

##### Adaptor (Battery Charger) Cautions

- Using the wrong Travel Adaptor could damage your phone and void your warranty.
- The travel adapter is intended for indoor use only.

Do not expose Travel Adaptor to direct sunlight or use it in places with high humidity, such as the bathroom.

**“IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS” and “DANGER - TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS”**

**“For connection to a supply not in the U.S.A., use an attachment plug adaptor of the proper configuration for the power outlet.”**

**“This power unit is intended to be correctly orientated in a vertical or floor mount position.”**

**CAUTION**

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.  
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

- ▶ Do not disassemble.
- ▶ Do not short-circuit.
- ▶ Do not expose to high temperature : 60 °C (140 °F).
- ▶ Do not incinerate.

**Battery Disposal**

- ▶ Please dispose of your battery properly or bring to your local wireless carrier for recycling.
- ▶ Do not dispose in fire or with hazardous or flammable materials.

## ■ Unpacking

### 1. Handset



Cellular Phone

### 2. Battery and Travel Adapter



Battery



Travel adapter

### 3. Accessories



User's Manual



Hand Strap



Ear-microphone



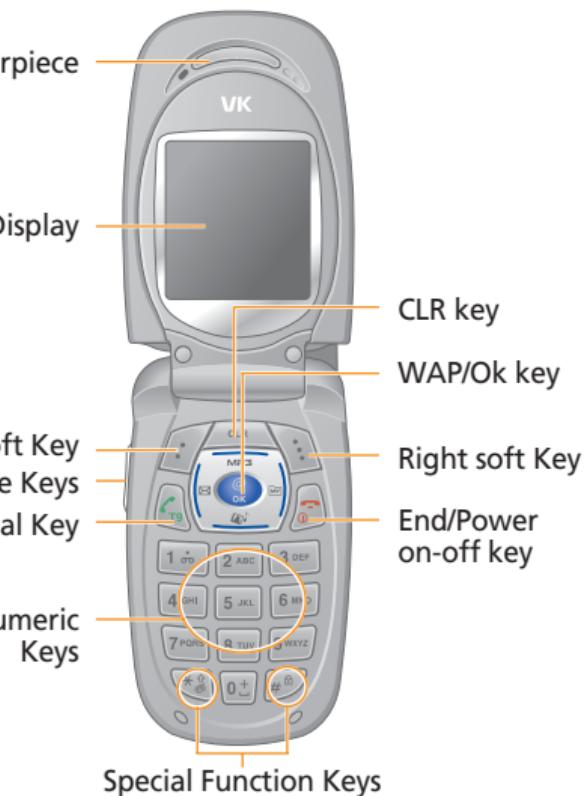
PC Sync CD



Data Cable

Actual product may look different from the above picture.

## ■ Phone Layout and Keys Function



## ■ Keys Description

**Left soft key**

Enter the left bottom menu of the display.

**Send/Dial key**

Make/Answer a calls.

When this button is pressed in standby mode, the last number you dialed will be redialed.

**Navigation key**

Up : MP3 Player

Left : Message

Down : Gallery

Right : My Favorite

**WAP/OK key**

Enter WAP from standby mode.

Access function indicated on the bottom of the display.

**Camera key**

In standby mode enters Camera.

**Right soft key**

Enter the Right bottom menu of the display.

In standby mode enters Contacts.

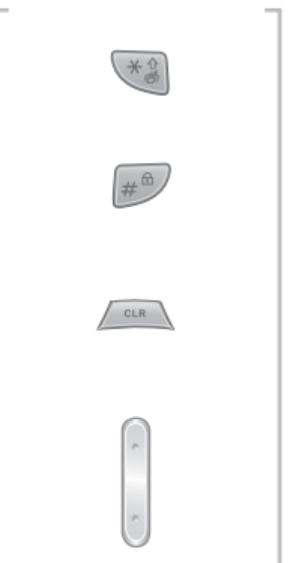
**End/Power on-off key**

End a call. Hold down to switch the phone on and off.

In menu mode, cancels input and returns the phone to standby mode.

**Alphanumeric keys**

Enter number and characters.

**\* key**

Hold down to activate Manner mode on/off.

**# key**

Hold down to activate Lock mode on/off.

**CLR key**

Delete characters from the display.

In menu mode returns to the previous menu level.

**Volume key**

Adjust the button volume from standby mode. Conversation volume adjustment while speaking on the phone. While folder is closed pressing for 2 seconds turns on date and time.

## ■ LCD Icon Description



Shows the received signal strength. [Strong : Weak : ]

Appears when a call is in progress.

Appears when you are out of a service area.

Appears when roaming service is enabled.

Appears when your message box is full.

Appears when you have new or unread message.

Appears when you set the alert type for incoming calls to vibration.

Appears when you set the alarm to ring at a specific time.

Shows the level of your battery.

Appears in GPRS Service.

## ■ Inserting SIM Card and Battery



1. ① Turn off the power of cellular phone.  
② Remove battery as shown in the figure below.



2. Face the gold color contact point of SIM card towards the cellular phone and push in the SIM card into the slot.



3. Push in the battery as shown in the figure below. Align the battery as shown in the figure.



4. Push in the battery until it makes 'Click' sound.



5. Switch on the cellular phone.

## ■ Charging Battery



### Using Desktop Charger

Align the battery with the charger as shown in the figure.



Push in the battery until it makes 'Click' sound.



Connect the traveler's kit to the desktop charger.



Plug in the traveler's kit into the power outlet.

You can confirm the battery charging status with the LED color on the traveler's kit.

Red : In charging  
Green : Charging is complete



### Charging with traveler's kit

Battery can be charged without desktop charger, thus, it is easier to take the charger with you.

Charging through traveler's kit may take longer than using the desktop charger.

Connect traveler's kit to the external connector of cellular phone.

Connect the traveler's kit to the power outlet.

## BASIC FUNCTIONS

- Basic Operation
- Contacts
- Character Input Mode

# VK1000

## BASIC FUNCTIONS

### ■ Basic Operation Switching On/Off

**Switch On** : Hold down  button for 2 seconds or longer.

If no SIM card is inserted in the cellular phone, a message window that states no SIM card is inserted is displayed.

In this case, only emergency call can be used and the rest of functions cannot be used.

If you are asked with password, enter the password and press 'OK' button.

The default password is set to '0000'.

When your cellular phone is set to Manner mode, the cellular phone vibrates as it is switched on.

**Switch Off** : Hold down  button for 2 seconds.

## Making a Call

### [Dialing]

1. Enter area code and phone number in standby mode.
2. Press  button.

When you entered a wrong number, press  button to erase one number at a time.

Hold down  button for 2 seconds to erase all entered numbers.

When the call receiver is on the line or did not answer your call, the number is automatically redialed.

### [Making a Call from Contacts]

You can make a call without entering phone number. Using phone numbers that are pre-stored, you can make a call.

Press the right soft key to enter the contacts.

For more details on contacts, see page 32.

### [Latest Call List]

You can make a call using the latest call list.

1. Press  button shortly to display the latest call list in order of call time. Or, enter by accessing Menu  
 3. Calls  1. Call History

2. Select desired phone number using up/down button of  key.

3. Press  button.

For more detail, refer to Call History on page 84.

### [Speed Dialing]

You can make a call using speed dialing.

Using number keys from 2 to 9, hold down the pre-stored speed dial number for 2 seconds.

If the phone number is stored in your cellular phone hold down the speed dial number.

If the phone number is stored on SIM card press the speed dial number first, press  key, and press  key. Speed dial number can be configured from 2 to 99.

For more detail, refer to Contacts on page 32.

### [Making an International Call]

1. Holding down 0 button for 2 seconds displays  symbol.

2. Enter the country code, area code, and phone number after  symbol.

3. Press  button.

## Answering a Call

1. When there is an incoming call, either bell tone or vibration is activated depending on the configuration.
2. Open the folder or press  button.
3. To hang up, either close the folder or  button.  
If a caller ID service is activated and if the incoming phone number is already stored in your contacts, the name you have stored for the phone number is displayed.

## Hanging up

Close the folder or press  button to hang up.

## Options During a Call

You can use a variety of functions while talking on the phone.

### [Call Standby]

This function is available only when a network service is provided. When this function is used, Using this function, you can make a call or answer other calls during any time of call.

During a call, use either the right soft key or option key to enter the call option. Confirm that you have flashed back to the previous call and press  button to go back to the previous call.

### [Ending a Call]

**End a call during a Call** : This function ends the current call.

**End a call on hold** : This function ends a call on hold.

**End all calls** : This function ends both the current call and the call on hold.

**Add a call** : With this function, you can make a new call during a call.

**[Flash]**

When there is a new incoming call, you can either answer the call or put it on hold. Also, you can switch the current call with the new incoming call.

**[DTMF Function]**

You can enter numbers and send it during a call.

In case where you need to enter a long sequence of numbers such as paging, ARS, or Telebanking, you can store the frequently used numbers (social security number or bank account number) to send them with greater convenience.

**[Switching Microphone Off]**

You can turn off the microphone so that the caller on the other side cannot hear you.

Select a call list and select 'Turn Mic Off'.

When a call is ended, 'Turn Mic Off' function is automatically released.

**[Contacts]**

You can search the contacts during a call.

**[SMS Function]**

When this function is used during a call, you can send/SMS without handing up a call.

**[Conference Call]**

This function is available when a network service is provided.

Up to 6 people can talk at a time.

For more details, please contact your service provider.

**[Private Call]**

While using Conference Call function, you can use this function to talk to a specific person.

**[Sending Out My Phone Number]**

This function comes very convenient when you need to enter your phone number for paging or ARS calls.

**[Using Menu Function]**

Menu function can be used during a call. However, the available menu function during a call is limited.

For more details, refer to Menu Tree on page 57.

**[Volume Adjustment During a Call]**

You can adjust the volume during a call using  button located on the side of your cellular phone.

The volume can be adjusted in five steps.

## Missed Calls

Missed calls are displayed with the Caller's phone number and how many times the caller had called you.

Press  key to exit Missed Call window.

Missed call phone number can be edited, stored or deleted.

For more detail, refer to Call History on page 79.

## Volume Adjustment

You can adjust the conversation volume using  button located on the side of your cellular phone during a call.

Open the slide in standby mode and press  button on the side of the cellular phone to adjust the button volume.

Press UP button of  key to increase the volume. Press down button of  key to decrease the volume.

For more information on opening/closing slide, power on/off, and volume, refer to phone setting on page 118.

## Manner Mode

This function puts the cellular phone into Manner mode. Bell tone and button sound are changed to vibration, ramp blinking and Manner mode.

In areas where etiquette is required, such as public area, concert hall, lecture hall and conference room, this function is convenient.

Hold down  key to setup Manner Mode.

Hold down  button again to release Manner Mode.

When Manner Mode is configured,  icon is displayed on the screen.

When Manner Mode is set up, schedule/anniversary/alarm/message are notified through vibration.

When the cellular phone is turned off in Manner Mode, the cellular phone stays in Manner Mode when it is turned on later.

## Using Ear-microphone

Ear-microphone frees your hand during a call.

To use ear-microphone, insert the ear-microphone into ear-microphone slot on the side of the cellular phone.

When there is an incoming call, press  located on the side of cellular phone, or press  button on the ear-microphone to answer the call.

## Standby Screen Function

Run the standby screen function using  and  keys.



The left soft key executes function that left bottom line of the display.

In standby mode, pressing this key enters menu.

The right soft key executes function that right bottom line of the display.

In standby mode, pressing this key enters Contacts.

## ■ Contacts

You can store phone numbers and name in the contacts and retrieve to make a call. Data can be stored both in SIM card and your cellular phone, while you can search through one contacts list for data.

Note that the maximum amount of data stored depends on the type of SIM card.

When you purchase a new cellular phone, the phone numbers stored on SIM card can be inserted into the new cellular phone and retrieved.

### Storing Phone Numbers

Phone numbers can be stored using either of two methods.

Directly Entering Phone Number.

Access Contacts and store a new phone number.

#### [Directly Entering Phone Number]

1. First, enter the phone number you want to store in the standby screen.

2. 'Save' is displayed on the left-bottom of the screen.

3. Confirm the entered phone number and press  key to save.

When you entered incorrect number, press  key to erase.

Press  key once to erase one number at a time. Hold down  key for longer than 2 seconds to erase all entered number.

4. Select whether to save on your cellular phone or on SIM card.

5. Set up the type of phone number.

Phone number types such as Mobile, Home, Office number can be saved on the cellular phone.

When the phone number is stored on SIM card, only one representative phone number for the individual can be saved.

6. Enter the name.

7. Set up the group type.

8. Two more phone numbers other than the first phone number you have saved, can be stored.

Enter the related phone numbers next to each icon.

Note that only one phone number can be saved for the individual on SIM card.

9. Set up the default phone number.

10. Configure the speed dial number. The speed dial number can be configured from 2 to 99.

11. Configure the image to be displayed for the phone number.

12. Enter e-mail address.

13. Enter homepage address.

14. Enter fax number.

15. Enter home address.

16. Configure special bell tone.

When this bell phone is configured, an incoming call from the configured phone number plays the selected number.

17. Enter Job title.

18. Enter name of company.

19. Enter note.

20. Confirm all the entries and press  key to save.

Functions from 9 to 19 can only be used when the phone number is stored on the cellular phone. Only name, phone number, and group type can be configured on SIM card.

#### [\[Access Contacts and store a new phone number\]](#)

1. Press  key in standby mode to enter contacts.

2. The entire phone list is displayed.

3. Enter option screen by pressing  key.

4. Press 1 to enter 'New' screen.

5. Select whether to store phone number on the cellular phone or SIM card.

6. Set up the type of phone number.

Phone number types such as Mobile, Home, Office number can be saved on the cellular phone.

When the phone number is stored on SIM card, only one representative phone number for the individual can be saved.

7. Enter the name.

8. Configure group type.

9. Enter phone number and relevant phone number into fields located next to each icon.

Note that only one phone number can be stored on SIM card.

10. Set up the default phone number.

11. Configure speed dial number. Speed dial numbers can be configured from 2 to 99.

12. Configure the image to be displayed for the phone number.

13. Enter email, homepage URL, fax number, home address.

14. Configure the bell tone.

15. Enter occupation, name of company, and note.

16. Confirm all the entries and press  keys to save.

Functions from 9 to 15 can be used only when the phone number is stored on the cellular phone. Only name, phone number, and group type can be configured on SIM card.

## Search Phone Number

You can search phone number from the entire contacts list or perform selective search using various methods. (name, phone number, speed dial, group and etc.)

### [Search All]

This function displays all phone numbers stored in the contacts. (The list includes stored in the cellular phone and SIM card)

1. Press  key in standby mode to enter the contacts.
2. The entire contacts list is displayed.
3. Select a phone number and press  key to make a call to the selected individual.

### [By Name]

1. Press  key in standby mode to enter contacts.
2. Press  key to enter the search option.
3. Select 1 to enter 'By Name'.
4. When an edit window is displayed, enter the name of individual and press  key.  
Entering only one character searches all names that contain the entered character.

5. Press  key to make a call to the selected individual.

### [By Group]

1. Press  key in standby mode to enter the contacts.
2. Press  key to enter the search option.
3. Select 2 to enter 'By Group'.
4. Using left and right button on  key to select a group.
5. Search a phone number from the selected group.
6. Press  key to make a call to the selected individual.

### [By Speed Dial]

You can save the phone number and then dial them easily whenever you want, simply by pressing the associated number key.

1. Press  key in standby mode to enter the contacts.
2. Press  key to enter the search option.
3. Select 3 to enter 'By Speed Dial'.
4. The entire speed dial number list is searched.  
Using  key, either select or enter the speed dial number to be searched.
5. Press  key to make a call to the selected individual.

#### [By Number]

1. Press  key in standby mode to enter the contacts.
2. Press  key to enter the search option.
3. Select 4 to enter 'By Number'.
4. Enter the number to search.  
Entering only one number searches all phone numbers that contain the entered number.
5. Press  key to make a call to the selected individual.

#### [SDN]

You can search special service dial number via SDN. You can use this function in emergency paging. You can search items such as address, phone number, and voice mailbox number. Telephone numbers supplied by your network provider and giving access to special services, such as voice mail, directory inquiries, customer support and emergency services.

1. Press  key in standby mode to enter the contacts.
2. Press  key to enter the search option.
3. Select 5 to enter 'SDN'.
4. Using  key, select a phone number.
5. Press  key to make a call to the selected phone number.

#### [DDD]

With this function, you can search for the area code.

1. Press  key in standby mode to enter the contacts.
2. Press  key to enter the search option.

3. Select 6 to enter 'DDD'.

4. When the list of area code appears, select an area code using  key.

## Contact Menu Function

You can use variety of contacts functions.

1. Press  key in standby mode to enter the contacts.
2. Press  key to enter the option.

### [New]

This function stores a new phone number.

Standby Mode    Press 1

For more information, refer to 'Storing Phone Numbers' on page 32.

### [Details]

This function shows details of the selected item.

Standby Mode    Press 2

You can also enter this function by pressing  key in the entire phone number list of contacts.

### [Delete]

You can either delete an item or the entire contacts.

#### Delete

Standby Mode    Press 3  Press 1

Only the selected phone numbers are deleted.

#### Delete All

Standby Mode    Press 3  Press 2

All phone numbers in contacts are deleted.

**[Copy]**

Selected phone numbers can be copied. When a phone number stored in the cellular phone is copied, the phone number is copied to SIM card and vice versa. When 'copy all' is selected, all phone numbers are copied from the current storage medium to the other.

**Copy**

Standby Mode ➔ ➔ ➔ Press 4 ➔ Press 1

**Copy All**

Standby Mode ➔ ➔ ➔ Press 4 ➔ Press 2 ➔ Select 'phone to SIM' or 'SIM to phone'

**[Move]**

A selected phone number is moved from the cellular phone to SIM card, and vice versa.

Standby Mode ➔ ➔ ➔ Press 5

**[Group Manager]**

Phone numbers can be categorized into groups. Selected bell tones can be configured for each group.

Standby Mode ➔ ➔ ➔ ➔ Press 6

Select a group using key.

**New**

1. Press key to enter to make a new group.
2. Enter the new group name.
3. Configure the bell tone.
4. Configure the image to be displayed for the phone number.
5. Select the members of the new group.
6. Confirm all the entries and press key to save.

**Edit**

Group bell tone, image, and group members can be edited.

Selecting image enters gallery.

Select one of stored images from the gallery and press to save.

Group member can be selected from all phone number list stored in the cellular phone.

**Delete**

Delete a selected group.

**[Speed Dial]**

Standby Mode  Press 7

A list of phone number for speed dial numbers is displayed.

Press  key from a selected item to display 'Add', 'Delete' and 'Goto' menus.

Press 'Add' to edit the selected speed dial number to other number.

Pressing 'Delete' removes the selected speed dial number item.

Press 'Goto', if you want to confirm in use, you can check speed dial number whether you can use it or not.

If you have not set up speed dial number, <Empty> message is displayed.

**[Own Number]**

Enter a desired number to set up speed dial.

Standby Mode  Press 8

Only name and phone number can be stored using 'Own Number'.

**[Memory Status]**

This function displays the currently used memory by numbers.

Standby Mode  Press 9

This function shows the status of SIM card and the cellular phone separately.

**Menu Function of Selected Items**

1. Press  in standby mode to enter the contacts.
2. Select a phone number to edit and press  key to see the details.  
Or, press  key and press 2 key to see the details.
3. Press  key to display the menu for the selected number.

**[Edit]**

All configured items such as name, group, phone number, default number, image, email address, address, and etc. can be edited.

Standby Mode   Select a phone number    Press 1

For more details, refer to 'Storing Phone Numbers' on page 32.

**[Send message]**

You can send SMS message to a selected phone number.

Standby Mode   Select a phone number    Press 2  Select 'Short message' or 'Multimedia message'  Enter message  Send

For more details, refer to 'Message' on page 63.

**[Send Contact]**

You can send the selected phone number to other people.

Standby Mode   Select a phone number    Press 3

- Via Short MSG : Send the selected phone number via SMS.
- Via Infrared : Send the selected phone number via IrDA port.

**[Delete]**

This function deletes the selected item.

Standby Mode   Select a phone number    Press 4

**[Copy]**

This function copies a selected item. A phone number stored in a cellular phone is copied to SIM card, and vice versa.

Standby Mode   Select a phone number    Press 5

**[Move]**

This function moves a selected phone number from the cellular phone to SIM card, and vice versa.

Standby Mode   Select a phone number    Press 6

## ■ Character Input Mode

### T9 Mode

This mode allows you to enter English words with only one keypress per letter.

Each key on a keypad has more than one letter a single press on the 5 key could be J, K or L. The T9 mode automatically compares your key presses to an internal linguistic database to determine the correct word. This mode is based on a built-in dictionary.

This mode requires far fewer keystrokes than the traditional multi-tap method.

#### Typing English Words

To type a word, press keys corresponding to the letters you need. Remember the following as you are typing :

1. Press key on the phone just once per desired letter. For example, to enter 'hello', press the following keystrokes : 4,3,5,5,6.
2. The word you are typing appears in the display. It may change with each key you press.
3. Type to the end of the word before editing or deleting any keystrokes.
4. Press the  key, you can display alternate word choices for the keys that you have pressed.
5. Complete each word with a space by pressing the  key.

If the word that appears in the display is not the word that you desire, press the  one or more times to display alternate word choices for the keys you have typed. (For example, 'of' and 'me' both share the sequence 6, 3) The phone displays the most commonly used choice first.



This mode displays all the words which are containing the letters you have entered. By doing this, the T9 mode saves you typing extra keypress.

#### Smart Punctuations

Full stop, hyphen and apostrophe are available on the 1 key. The T9 mode applies rules of grammar to insert the correct punctuation.

Notice that the 1 key is used twice in this example to display two punctuation marks :



### Shifting a Case

To change the case of another characters that you type, press the  key.

You can select many kind of character input mode that you want.

e.g. T9 mode, ABC mode, Numeric mode, Symbolic mode.

Also, to change the case in T9 mode, press the  key. Lower case, Capital lock and Initial capital are available.

### Scrolling

The  key scrolls to the alternative characters corresponding the keypress.

To view your message without moving the cursor, press  keys on the left side of the phone.

To move the cursor left or right through your text message, press the  key. Note that pressing the key without completing a word by the 0 key displays the alternative word.

### Clearing Characters

Press the  key one or more times to remove characters from the text area.

### ABC Mode

When typing in ABC mode, you should press numbers key labeled with the required character:

- Once for the first character.
- Twice for the second character and so on.

For example, you press the 2 key three times quickly to display the character "C", the 5 key three times quickly to display the character "L".

So, this method is called Multi-tap typing.

The cursor moves to the right when you press a different key. When entering the same character twice (or a different character on the same key), just wait for a few seconds for the cursor to move right automatically, and then select the next character.

Refer to the table on page 53 for the list of characters assigned on each key.

### Shifting a Case

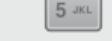
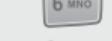
To change the case of another characters that you type, press the  key.

There are many kinds of shift states.

**Scrolling**

To view your message without moving the cursor, press  keys on the left side of the phone.

To move the cursor left or right through your text message, press the  key. Note that pressing the key without completing a word by the 0 key displays the alternative word.

Key	Characters in the Order Displayed	
	ABC	abc
	. , ? ! 1 - / @	. , ? ! 1 - / @
	A B C 2 à Ä Å Æ Ç	a b c 2 à ä å æ ç
	D E F 3 è É	d e f 3 è é
	G H I 4 ì	g h i 4 ì
	J K L 5	j k l 5
	M N Ñ O 6 Ö Ø ò	m n ñ o 6 ö ø ò
	P Q R S 7 ß	p q r s 7 ß
	T U V 8 Ü ù	t u v 8 ü ù
	W X Y Z 9	w x y z 9
	□ 0 * < > % # £	□ 0 + ( ) & _ \$

**Clearing Strokes and Characters**

Press the  key one or more times to remove characters from the Text Area.

For list of characters available see table.

## Numeric Mode

Numeric mode is indicated by 123. It enables you to enter numbers into a text message. Press number keys corresponding to the desired digits.

## Symbolic Mode

Symbolic mode enables you to enter symbols into a text message.

To scroll through the available symbol categories, press the  key. When you see the desired symbol on the display, press the appropriate number key (1 to 7) to insert the symbol. The phone automatically switches back to the text entry mode used just prior to selecting Symbolic mode.

## Changing Text Input Mode

When you are in a field that allows characters entry, you should notice the text input mode indicator in the display.

To change to another text input mode :

1. Press the  key repeatedly until you find the desired input mode.
2. Press the  key. You will see the text input mode indicator in the top line of the display.

- T9 mode > T9 ABC (T9 Abc, T9 abc)
- ABC > ABC (Abc, abc)
- Numeric > 123
- Symbol > Symbol

Directions for using each of the text input modes appear later in this chapter.



You can also change the text input mode by pressing the key repeatedly in text entry screen. Each time you press the key, the mode is changed in the following order :  
T9 ABC (T9 Abc, T9 abc) > ABC (Abc, abc) > 123 > Symbol

## MENU FUNCTIONS

- Menu Tree
- Message
- Calls
- Gallery
- Camera
- Settings
- Organizer
- MP3 Player
- Joy World

# VK1000

## MENU FUNCTIONS

### ■ Menu Tree

#### Message

##### Short Message

- Inbox
- Outbox
- Write
- Settings

##### Multimedia Message

- Inbox
- Outbox
- Write
- Settings

##### Voice Message

- Listen to Voice MSG
- Set Voice MSG NO.

##### Information Message

- Read
- Receive
- Topics
- Test Result

##### Memory status

#### Calls

##### Call history

- Missed calls
- Received calls
- Dialed calls
- Temp Number
- Delete All
- Call Duration

- Network services
  - Call Diverting
  - Call Barring
  - Call Waiting
  - Send My No.
  - Network Selection
  - Band Selection

## Gallery

### Photo

- Send via Message
- Use as Wallpaper
- Delete
- Copy to T-Flash
- Move to T-flash
- Rename
- Lock
- Details

### Video-clip

- Play
- Copy to T-Flash
- Move to T-flash

### Images

- Delete
- Rename
- Lock
- Details
- Send via Message
- Use as Wallpaper
- Copy to T-Flash
- Move to T-flash
- Delete
- Rename
- Details

### Animation

- Send via Message
- Use as Wallpaper
- Copy to T-Flash
- Move to T-flash
- Delete
- Rename
- Details

### Sound

- Send via Message
- Ring tone
- Copy to T-Flash
- Move to T-flash
- Delete
- Rename
- Detail

### Music

- Delete
- Rename
- Detail
- Ring tone
- Copy to T-Flash
- Move to T-flash
- Delete
- Rename
- Detail
- Go to MP3 player

### T-Flash Manager

- Copy to photo
- Move to photo
- Delete
- Rename
- Detail
- Memory status

### Memory status

**Camera**

- Photo
- Video-clip
- Settings**
  - Quality
  - Sound
  - Auto Save
  - Default Title Name
  - Memory Use

**Settings**

- Display**
  - Main LCD
  - Sub LCD
  - Lighting
- Sound**
  - Incoming Calls
  - Message Alert
  - Key Tone
  - Folder
  - Volume

**Phone Setting**

- Date & Time
- Language
- Answer Key
- Auto Answer
- Auto Redial
- Factory Set
- My Favorite

**Security**

- PIN
- Change PIN
- Lock

**Infrared Receive**

- FDN
- Change PIN 2
- Off
- 1 min
- 3 min
- 10 min
- 30 min
- Always

**Organizer**

- Calender**
  - New
  - Delete All
  - Schedule List
  - Go to Date
- Alarm**
  - Morning Call
  - Reminder
- Memo**
  - Edit
  - Delete
  - Delete All

- Voice Record**
- Calculator**
- Unit Convert**
- World Time**
- Stop Watch**

**MP3 Player**

Music Player

Edit Playlist

- Select all
- Clear all
- Invert
- About Track

**Joy World****Internet**

- Home
- Bookmarks
- Go to URL
- Profile Settings
- General Settings
- History
- WAP Inbox
- Clear Cache

**Games****Message**

Messaging is a network service.

Using this function, you can input, send, receive, check and edit messages.

The VK1000 model supports sending and receiving both Short Messaging Service (SMS) and Multimedia Message (MMS) types.

A new message notification is displayed on the screen when a message arrives.

In Standby mode, press the left key  to quickly enter Messages mode.

**Short Message**

This function enables a user to write and send a new message. You can check and save received or sent messages.

1. In Standby mode, press the  key to display the menu screen.
2. Press number 2 to enter Messages.
3. Press number 1 to enter Short Messages.

**[Inbox]**

Check received messages.

Standby mode ➔  ➔ Press 2 ➔ Press 1 ➔ Press 1

On the screen with the list of received messages, press the  key to enter the Options menu.

**Delete**

Deletes messages stored in your Inbox.

Inbox ➔  ➔ Press 1

**Delete All**

Deletes all the messages stored in your Inbox.

Inbox ➔  ➔ Press 2

On the screen with the list of received messages, press the  key to display the content of the received messages.

On the screen displaying the message content, press the  key to enter the Options menu.

**Delete** : Deletes the selected message.

**Reply** : Send a reply to the message sender.

**Forward** : Forward (with or without editing) a received message to another recipient.

**Call Back** : Call the message sender.

**Extract** : Extracts the message sender's telephone number, pictures, flashes, ring tones and other items.

**Extract All** : Extracts all of the message sender's info, including: telephone number, pictures, flashes, ring tones and other items.

**Detailed Data** : Displays the time and sender info for the selected message.

**[Outbox]**

The Outbox can store sent messages and message drafts to be sent.

Standby mode ➔  ➔ Press 2 ➔ Press 1 ➔ Press 2

**Unsent messages**

Unsent messages, whether due to a sending failure or those explicitly saved before sending, are stored.

**Delete**

Deletes stored messages in the Outbox.

Outbox ➔ Press 1 ➔  ➔ Press 1

**Delete All**

Deletes all the messages stored in the Outbox.

Outbox ➔ Press 1 ➔  ➔ Press 2

On the screen with the list of unsent messages, press the  key to display the content of those unsent messages.

On the screen displaying the message content, press the  key to enter the Options menu.

**Send** : Resend a selected message.

**Edit** : Edit a selected message.

**Delete** : Delete a selected message.

**Detailed Data** : Displays the following info for the selected message: time the message was saved, the time it was sent and number it was sent to.

**Sent Items**

Stores sent messages.

**Delete**

Outbox ➔ Press 2 ➔  ➔ Press 1

**Delete All**

Outbox ➔ Press 2 ➔  ➔ Press 2

On the screen with the list of sent messages, press the  key to display the content of the sent messages.

On the screen displaying the message content, press the  key to enter the Options menu.

**Send** : Resend a selected message.

**Edit** : Edit a selected message.

**Delete** : Delete a selected message.

**Detailed Data** : Displays the following info for the selected message: time the message was saved, the time it was sent and the number it was sent to.

**[Write]**

This function enables the user to write and send new messages.

Standby mode ➔  ➔ Press 2 ➔ Press 1 ➔ Press 3

1. Write the message to send.

2. After inputting the message, press the  key to enter the Options menu.

**Inserting Multimedia** : Using this function, you can add simple pictures, flashes and ring tones to your message.

**Save** : You can save edited messages to send later. These messages will be saved under the Unsent Messages tab in the Outbox and you can edit and send them later.

**Exit** : Return to the Message menu.

3. Press the  key to enter the screen for keying in the sender's number. After you input the number, press the  key to send it.

If you have forgotten the telephone number, press the  key, while on the screen for keying in the sender's number, to enter the telephone directory.

#### [Settings]

You can set various options for SMS Center, delivery report, and validity period.

Standby mode ➔  ➔ Press 2 ➔ Press 1 ➔ Press 4

#### SMS Center

Set SMS Center No.

#### Delivery Report

Report whether the message successfully reached the SMS Center.

**On** : Reports whether or not the sent message was delivered.

**Off** : Does not report whether or not the sent message was delivered.

#### Validity Period

Sets the storage period of a message.

If this function is selected, received messages will expire and be automatically deleted after a set period of time.

Be sure to save important pictures, sound clips and messages in the gallery before they expire.

## Multimedia MSG

Multimedia message is a service that enables the sending of messages including images, pictures and sound clips in addition to the text.

Using this function, you can send a message to mobile phones and e-mail recipients.

In addition, you can save multimedia resources such as images, pictures and sound files attached to received multimedia messages, into your gallery.

Multimedia message service is available only when the service provider supports the service, and can be displayed only on a mobile phone that supports the service.

1. In Standby mode, press the  key to display the Menu screen.
2. Press 2 to enter Messages.
3. Press 2 to enter Multimedia MSG.

### [Inbox]

Check received Multimedia messages.

Standby mode  Press 2  Press 2  Press 1

On the screen listing the received messages, press the  key to enter the Options menu.

#### Delete

Deletes messages stored in your Inbox.

Inbox  Press 1

#### Delete All

Deletes all messages stored in your Inbox.

Inbox  Press 2

On the screen listing the messages received, press the  key to display the content of the received message.

On the screen displaying the content, press the  key to enter the Options menu.

**Delete** : Deletes the selected message

**Reply** : Send a reply to the message sender.

**Reply All** : Send a reply to all people.

**Forward** : Forward or send after editing a received Multimedia MSG to another recipient.

**Call Back** : Call the message sender.

**Extract** : Extracts the message sender's phone number, pictures, flashes, ring tones and other items.

**Detailed Date** : Displays the message topic, storage capacity, sender, all the recipients, and delivery time.

**[Outbox]**

The Outbox stores both sent messages and messages waiting to be sent.

Standby mode ➔  ➔ Press 2 ➔ Press 2 ➔ Press 2

**Unsent Messages**

Unsent messages, whether due to a sending failure or those explicitly saved before sending, are stored here.

**Delete**

Deletes messages stored in your Inbox.

Outbox ➔ Press 1 ➔  ➔ Press 1

**Delete All**

Deletes all messages stored in your Inbox.

Outbox ➔ Press 1 ➔  ➔ Press 2

On the screen listing the unsent messages, press the  key to display the content of the unsent message.

On the screen displaying the message content, press the  key to enter the Options menu.

**Send** : Resend the selected message

**Edit** : Edit the selected message.

**Delete** : Delete the selected message.

**Detailed Data** : Displays the time the selected message was saved, sent and the number to which it was sent.

**Sent Messages**

Stores sent messages.

**Delete**

Outbox ➔ Press 2 ➔  ➔ Press 1

**Delete All**

Outbox ➔ Press 2 ➔  ➔ Press 2

On the screen listing the sent messages, press the  key to display the content of sent messages.

On the screen displaying the message content, press the  key to enter the Options menu.

**Send** : Resend the selected message.

**Edit** : Edit the selected message.

**Delete** : Delete the selected message.

**Detailed Data** : Displays the time the selected message was saved, sent and the number to which it was sent.

#### [Write Messages]

This function enables the user to write and send a new message.

Standby mode  Press 2 Press 2 Press 3

1. Write the message to send.

2. After inputting the message, press the  key to enter the Options menu.

**Inserting Multimedia** : Using this function, you can add simple pictures, flashes and ring tones to your message.

**Slide** : The slide function enables you to send several pictures, ring tones and other items in a row, rather than splitting them into several segments. A single slide can include one picture and one voice attachment.

You can send several slides in a row.

**Editing Topic** : Save edited messages to send later. The messages will be kept under the Unsent Messages tab in the Outbox. You can edit and send these messages later.

**Preview** : Check the message before sending.

**Exit** : Return to the Message menu.

3. Press the  key to enter the screen for keying in the recipient's number. Send the message by pressing the  key.

If you have forgotten the telephone number, press the  key, while on the screen with the recipient's name, to enter the telephone directory.

#### [Settings]

You can set various options for the SMS Center, delivery reports, validity periods, as well as setup a proxy server.

Standby mode  Press 2 Press 2 Press 4

##### Normal Setting

Displays the validity period, delivery report, read report, and automatic download.

##### Setup a Proxy Server

You can setup the option of a WAP browser using this function.

## Voice Mail

When a new voice mail arrives, an indicator icon is displayed on the screen. You can listen to the voice mail using this function.

Press the voice mailbox number if the number is stored in the handset's memory, or input the number manually.

Voice mail is a network service. For further details, consult your nearest service center.

1. In Standby mode, press the  key to display the Menu screen.
2. Press 2 to enter Messages.
3. Press 3 to enter Voice Mail.

### [Listen to Voice Mail]

Listen to Voice Mail waiting in the Voice Mailbox.

Voice Mail ➔ Press 1 ➔ Enter a Voice Mailbox Number ➔ 

### [Set Voice Mail Box]

Stores the Voice Mailbox Number.

Voice Mail ➔ Press 2 ➔ Enter a Voice Mailbox Number ➔ 

## Informational Msg.

Informational Msg. is a network service that provides Informational Messages to many GSM mobile phone users.

For example, it provides information on weather forecast, traffic and stock prices.

1. In Standby mode, press the  key to display the Menu screen.
2. Press 2 to enter Messages.
3. Press 4 to enter Informational Msg.

### [Read]

You can search and read the desired message.

Information Msg. ➔ Press 1 ➔ Select a desired message

### [Reception]

Choose whether to receive informational messages or not.

Informational Message ➔ Press 2 ➔ Please select an item 1 : Open, 2 : Close

**[Topics]**

Choose the message topics.

Information Msg.  Press 3  Select a message topic.

## Memory Status

You can check the Memory Status of your handset's memory.

1. In Standby mode, press the  key to enter the Menu screen.
2. Press 2 to enter Messages.
3. Press 5 to enter Memory Status.

## Calls

You can check your call history and utilize various network services in Calls.

### Call History

Using this function, you can check recent calls you made, calls received and missed calls.

Also, you can check the time of each call.

1. In Standby mode, press the  key to display menu screen.
2. Press number 3 to enter Calls.
3. Press number 1 to enter Call History.
4. Full list of the Call History is displayed.
  - Pressing the  key displays currently selected call's information such as phone number, name and time spent.
  - Press the  keys to enter menu screen and following menu items will be displayed:
    - **Save** : Saves the phone number in your Contacts.
    - **Delete** : Deletes the phone number.
5. When the full list of Call History is displayed, press the  key to enter option screen.

**[Missed Calls]**

Displays phone numbers of calls you missed.

Standby Mode ➤ ➤ Number 3 ➤ Number 1 ➤ ➤ Number 1

Pressing the key displays information of caller's phone number, name and calling time.

Press the key to enter menu screen and following menu items will be displayed :

- **Save** : Saves the phone number in your Contacts.
- **Delete** : Deletes the phone number.

**[Received Calls]**

Displays phone numbers of received calls.

Standby Mode ➤ ➤ Number 3 ➤ Number 1 ➤ ➤ Number 2

Pressing the key displays currently selected call's information such as phone number, name and time spent.

Press the key to enter menu screen and following menu items will be displayed :

- **Save** : Saves the phone number in your Contacts.
- **Delete** : Deletes the phone number.

**[Dialed Calls]**

Displays phone numbers of dialed calls you made.

Standby Mode ➤ ➤ Number 3 ➤ Number 1 ➤ ➤ Number 3

Pressing the key displays currently selected call's information such as phone number, name and call time.

Press the key to enter menu screen and following menu items will be displayed :

- **Save** : Saves the phone number in your Contacts.
- **Delete** : Deletes the phone number.

**[Temp Number]**

Displays Temp Number saved during phone calls.

Standby Mode ➤ ➤ Number 3 ➤ Number 1 ➤ ➤ Number 4

Pressing the key displays currently selected call's information such as phone number, name and call time.

Press the key to enter menu screen and following menu items will be displayed :

- **Save** : Saves the phone number in your Contacts.
- **Delete** : Deletes the phone number.

#### [Delete All]

Deletes call History information.

Standby Mode ➔  ➔ Number 3 ➔ Number 1 ➔  ➔ Number 5

Select among Missed Calls / Received Calls / Dialed Calls / Temp Number / All Calls.

#### [Call Duration]

Displays the duration of selected calls including received and dialed.

Call Duration time displayed on your handset may differ from the actual time recorded by the service provider according to network performance, calculation formula and other reasons.

Standby Mode ➔  ➔ Number 3 ➔ Number 1 ➔  ➔ Number 6

#### Voice Call

Show the every variety of call duration.

- **Last Call** : Displays last call's duration.

- **All Calls** : Displays the sum of all received and dialed calls' duration.
- **Received Calls** : Displays the sum of all received calls' duration up to now.
- **Dialed Calls** : Displays the sum of all dialed calls' duration up to now.

#### Data Call

- **All Sent Data** : Displays the sum of all sended data duration.
- **All Received Data** : Displays the sum of all received data duration.

## Network Services

Using this function, you can configure various network services.

Before using this service, check available services from your service provider.

1. In Standby mode, press the  key to display menu screen.
2. Press number 3 to enter Calls.
3. Press number 2 to enter Network Services.

**[Call Diverting]**

Using this function, you can divert incoming calls to a specified phone number.

For example, if you are off business and enjoying a movie in a theatre, you can divert incoming calls to your \*(kidding-) HATRED\* colleague's phone number.

Standby Mode ➔  ➔ Number 3 ➔ Number 2 ➔ Number 1

- **Always** : Diverts all incoming calls to the specified number.
- **If Busy** : Diverts incoming calls to the specified number if your line is busy.
- **If Out of Reach** : Diverts incoming calls to the specified number if your handset is turned off, not in a service area or unreachable for other reason.
- **If No Reply** : Diverts incoming calls to the specified number if you don't reply to the call.
- **Cancel All** : Releases the all Call Diverting settings.

Each Call Diverting setting may have following options :

- **All Calls** : Configures Call Diverting to apply to all calls including Voice, Data and Fax Calls.
- **Voice Call Only** : Configures Call Diverting to apply to Voice Calls only.
- **Data Call Only** : Configures Call Diverting to apply to Data Calls only.
- **Fax Call only** : Configures Call Diverting to apply to Fax Calls only.

After choosing an option, select Set Divert.

**[Call Barring]**

Using this network service, you can limit incoming and outgoing calls from your handset.

You can limit following calls :

Standby Mode ➔  ➔ Number 3 ➔ Number 2 ➔ Number 2

- **Outgoing Calls** : You cannot make an outgoing call from your handset.
- **International Calls** : You cannot make an international call from your handset.
- **Int. Calls except** : You can make an international call to only a domestic phone number or the number serviced by a domestic service provider.
- **Incoming Calls** : You cannot receive an incoming call.
- **When Roaming** : You cannot receive an incoming call when you are not in a serviced area.
- **Cancel All** : Cancels all Call Barring settings and all incoming / outgoing calls are made properly.
- **Change password** : You can set and change the password given by the service provider.

**[Call Waiting]**

Using this network service, you are notified with an incoming call when you are on another call.

Standby Mode ➔  ➔ Number 3 ➔ Number 2 ➔ Number 3

**[Send My No.]**

This function sends your previously specified phone number automatically.

It is convenient to use this function when you need to send your phone number for a call, ARS, phone banking and other services not to press your phone number by manual.

Standby Mode →  → Number 3 → Number 2 → Number 4

- **Default** : Sends the default number specified.
- **Hide Number** : Does not send any number.
- **Send Number** : Sends your phone number.

**[Network Selection]**

Network Select is a function to choose a network when you are using an international roaming service whether by manual or by automatic selection.

However, a roaming network is available to choose when your network provider has an agreement on roaming service with the roaming network provider.

Standby Mode →  → Number 3 → Number 2 → Number 5 → Select an option among Automatic and Manual.

**■ Gallery**

Using gallery function, you can manage various contents such as still photo, Video clip, Image, Animation, Sound, Music, T-Flash Manager and Memory Status.

**Photo**

This function manages digital still photos stored on your cellular phone. Using this function, selected still photos can be sent to your friends, and it can be assigned as a wallpaper.

1. Press  in standby mode to enter the menu screen.
2. Select 4 to enter Gallery.
3. Select 1 to enter photo.
4. When a list of stored photos appears, press  key to enter the option screen.  
For more details, refer to 'Camera' on page 105.

**[Send via Message]**

One of the stored photo can be selected and sent to your friends.

Standby Mode →  → Press 4 → Press 1 →  → Press 1 → Enter Message → Send

For more details, refer to 'Message' on page 63.

**[Use as Wallpaper]**

You can assign a selected photo as a wallpaper.

Standby Mode ➔  ➔ Press 4 ➔ Press 1 ➔  ➔ Press 2

**[Delete]**

Either selected or all stored photos can be deleted.

Standby Mode ➔  ➔ Press 4 ➔ Press 1 ➔  ➔ Press 3 ➔ Select 'Delete' or 'Delete All'

**[Copy to T-Flash]**

You can copy the selected photo to T-Flash.

Standby Mode ➔  ➔ Press 4 ➔ Press 1 ➔  ➔ Press 4 ➔ Select 'Copy' or 'Copy All'

**[Move to T-Flash]**

You can move the selected photo to T-Flash.

Standby Mode ➔  ➔ Press 4 ➔ Press 1 ➔  ➔ Press 5

**[Rename]**

Selected photo can be renamed.

Standby Mode ➔  ➔ Press 4 ➔ Press 1 ➔  ➔ Press 6 ➔ Enter a new name ➔ 

**[Lock]**

You can hide selected photos so that others cannot view the selected photos.

Private set up

Lock

Standby Mode ➔  ➔ Press 4 ➔ Press 1 ➔  ➔ Press 7 ➔ Enter password ➔ 

Release

Select a private configured folder ➔ enter password ➔  ➔  ➔ Press 7 ➔ Enter password ➔ 

**[Details]**

You can view details such as title, data, and size of selected photo.

Standby Mode ➔  ➔ Press 4 ➔ Press 1 ➔  ➔ Press 8

## Video-Clip

This function manages video clips filmed with your cellular phone.  
For more detail, refer to 'Camera' on page 105.

### [Play]

1. Press  key in standby mode to enter the menu screen.
2. Select 4 to enter Gallery.
3. Select 2 to enter the video clip.
4. When a video clip list appears, select a file to replay and press  key.
5. Press  key to stop.
6. Press  to go back to the previous screen.

### [Copy to T-Flash]

You can copy the selected file to T-Flash.

Standby Mode      Select 'Copy' or 'Copy All'

### [Move to T-Flash]

You can move the selected file to T-Flash.

Standby Mode     

### [Delete]

Selected movie clip files or all stored movie files can be deleted.

Standby Mode      Select 'Delete' or 'Delete All'

### [Rename]

Selected movie clips can be renamed.

Standby Mode      Enter a new filename 

**[Lock]**

You can hide selected photos so that others cannot view the selected photos.

**Lock**

Standby Mode ➔ ➔ Press 4 ➔ Press 2 ➔ ➔ Press 5 ➔ Enter password ➔

**Release**

Select a private folder ➔ Enter password ➔ ➔ ➔ Press 5 ➔ Enter password ➔

**[Details]**

You can view details such as title, data, and size of selected video clip.

Standby Mode ➔ ➔ Press 4 ➔ Press 2 ➔ ➔ Press 6

## Images

You can manage image files stored on your cellular phone. Using this function, selected image files can be sent to your friends or can be configured as a wallpaper.

1. Press key in standby mode to enter the menu screen.
2. Select 4 to enter Gallery.
3. Select 3 to enter Images.
4. When a list of stored images appears, press key to enter the option screen.

**[Send via Message]**

Selected files among stored images can be sent to your friends.

Standby Mode ➔ ➔ Press 4 ➔ Press 3 ➔ ➔ Press 1 ➔ Enter message ➔ Send

For more detail, refer to 'Message' on page 63.

**[Use as Wallpaper]**

Selected files among stored images can be assigned as a wallpaper.

Standby Mode ➔ ➔ Press 4 ➔ Press 3 ➔ ➔ Press 2

**[Copy to T-Flash]**

You can copy the selected image to T-Flash.

Standby Mode ➔ ➔ Press 4 ➔ Press 3 ➔ ➔ Press 3 ➔ Select 'Copy' or 'Copy All'

**[Move to T-Flash]**

You can move the selected image to T-Flash.

Standby Mode ➔ ➔ Press 4 ➔ Press 3 ➔ ➔ Press 4

**[Delete]**

Selected files or all stored image files can be deleted.

Standby Mode ➔ ➔ Press 4 ➔ Press 3 ➔ ➔ Press 5 ➔ Select 'Delete' or 'Delete All'

**[Rename]**

Selected file among store images can be renamed.

Standby Mode ➔ ➔ Press 4 ➔ Press 3 ➔ ➔ Press 6 ➔ Enter a new name ➔

**[Details]**

You can view details such as title, data, and size of selected image.

Standby Mode ➔ ➔ Press 4 ➔ Press 3 ➔ ➔ Press 7

**Animation**

This function manages animation files stored in your cellular phone.

1. Press key in standby mode to enter the menu screen.
2. Select 4 to enter Gallery.
3. Select 4 to enter Animation.
4. When a list of stored animations appears, press key to enter the menu screen.

**[Send via Message]**

Selected files among stored animation can be sent to your friends.

Standby Mode ➔ ➔ Press 4 ➔ Press 4 ➔ ➔ Press 1 ➔ Enter message ➔ Send

For more details, refer to 'Message' on page 63.

**[Use as Wallpaper]**

Selected animation file among stored animations can be assigned as a wallpaper.

Standby Mode ➔ ➔ Press 4 ➔ Press 4 ➔ ➔ Press 2

**[Copy to T-Flash]**

You can copy the selected animation to T-Flash.

Standby Mode ➔ ➔ Press 4 ➔ Press 4 ➔ ➔ Press 3 ➔ Select 'Copy' or 'Copy All'

**[Move to T-Flash]**

You can move the selected animation to T-Flash.

Standby Mode ➔ ➔ Press 4 ➔ Press 4 ➔ ➔ Press 4

**[Delete]**

Selected files or all stored animations can be deleted.

Standby Mode ➔ ➔ Press 4 ➔ Press 4 ➔ ➔ Press 5 ➔ Select 'Delete' or 'Delete All'

**[Rename]**

Selected files among stored animations can be renamed.

Standby Mode ➔ ➔ Press 4 ➔ Press 4 ➔ ➔ Press 6 ➔ Enter a new name ➔

**[Details]**

You can view details such as title, data, and size of selected animation.

Standby Mode ➔ ➔ Press 4 ➔ Press 4 ➔ ➔ Press 7

## Sound

This function manages ring tones stored in your cellular phone. Using this function, a selected ring tone can be assigned.

1. Press  in standby mode to enter menu screen.
2. Select 4 to enter Gallery.
3. Select 5 to enter sound.
4. When a list of stored ring tone appears, press  key to enter option screen.

### [Send via Message]

One of the stored sound can be selected and sent to your friends.

Standby Mode  Press 4 Press 5  Press 1 Enter message Send

### [Ringtone]

Selected ring tone among stored ring tones can be assigned as bell sound.

Standby Mode  Press 4 Press 5  Press 2

### [Copy to T-Flash]

You can copy the selected sound to T-Flash.

Standby Mode  Press 4 Press 5  Press 3 Select 'Copy' or 'Copy All'

### [Move to T-Flash]

You can move the selected sound to T-Flash.

Standby Mode  Press 4 Press 5  Press 4

### [Delete]

Selected photos or all stored photos can be deleted.

Standby Mode  Press 4 Press 5  Press 5 Select 'Delete' or 'Delete All'

### [Rename]

Selected ring tone among stored ring tone can be renamed.

Standby Mode  Press 4 Press 5  Press 6 Enter a new name 

**[Details]**

You can view details such as title, data, and size of selected ring tones.

Standby Mode ➔  ➔ Press 4 ➔ Press 5 ➔  ➔ Press 7

## Music

This function manages music files stored in your cellular phone. You can manage MP3 files in Gallery music folder and assign a music file as your ring tone.

1. Press  key in standby mode to enter the menu screen.
2. Select 4 to enter Gallery.
3. Select 6 to enter the music.
4. When a list of stored music files appears, press  key to enter the option screen.

**[Ringtone]**

Select to use the ringtone as selected MP3 file.

Standby Mode ➔  ➔ Press 4 ➔ Press 6 ➔  ➔ Press 1

**[Copy to T-Flash]**

You can copy the selected file to T-Flash.

Standby Mode ➔  ➔ Press 4 ➔ Press 6 ➔  ➔ Press 2 ➔ Select 'Copy' or 'Copy All'

**[Move to T-Flash]**

You can move the selected file to T-Flash.

Standby Mode ➔  ➔ Press 4 ➔ Press 6 ➔  ➔ Press 3

**[Delete]**

Selected file or all stored MP3 files can be deleted.

Standby Mode ➔  ➔ Press 4 ➔ Press 6 ➔  ➔ Press 4 ➔ Select 'Delete' or 'Delete All'

**[Rename]**

Selected files among stored MP3 files can be renamed.

Standby Mode ➔  ➔ Press 4 ➔ Press 6 ➔  ➔ Press 5 ➔ Enter a new name ➔ 

**[Details]**

You can view details such as title, data, and size of selected MP3.

Standby Mode ➔  ➔ Press 4 ➔ Press 6 ➔  ➔ Press 6

**[Go to player]**

You can go back to player mode.

Standby Mode ➔  ➔ Press 4 ➔ Press 6 ➔  ➔ Press 7

## T-Flash Management

1. In Standby mode, press the  key to enter the Menu screen.
2. Press 4 to enter Gallery.
3. Press 7 for T-Flash Manager
4. On the screen listing the saved music files, press the  key to enter the options menu.

**[Copy to Handset]**

Copy selected files to the handset.

Standby Mode ➔  ➔ Press 4 ➔ Press 7 ➔ Press 1 ➔ Select 'Copy' or 'Copy All'

**[Move to Handset]**

Move the selected files to the handset.

Standby Mode ➔  ➔ Press 4 ➔ Press 7 ➔ Press 2

**[Delete]**

Delete just the selected files or all stored files.

Standby Mode ➔  ➔ Press 4 ➔ Press 7 ➔ Press 3 ➔ Select 'Delete' or 'Delete All'

**[Rename]**

Rename selected files.

Standby Mode ➔  ➔ Press 4 ➔ Press 7 ➔ Press 4 ➔ Enter the message name ➔ 

For more details, refer to 'Text Input' on page 48.

#### [Details]

You can view details of the selected file, such as: title, capacity, resolution and type.

Standby Mode ➔  ➔ Press 4 ➔ Press 7 ➔ Press 5

#### [Memory Status]

Check the memory status of T-Flash.

Standby Mode ➔  ➔ Press 4 ➔ Press 7 ➔ Press 6

## Memory Status

You can check the Memory Status of your handset's memory or T-Flash.

1. In Standby mode, press the  key to enter the Menu screen.
2. Press 2 to enter Messages.
3. Press 5 to enter Memory Status.

## ■ Camera

You can use the Camera embedded in your handset to take photos or video clips and save them in your Gallery.

In Standby mode, press the  key to enter Camera mode directly.

#### Before Using the Camera

- Do not take photos of people or any subject without proper permission.
- Do not take photos which violate anyone's privacy.
- Because the camera sensor requires a little time to automatically adjust the exposure, you will get better results if your subject is still.
- For best results, ensure that the subject has better lighting than the background.
- Avoid lighting your subject directly with fluorescent or other light bulbs. Have your back to the light source when taking a photo.
- For best results, take photos in bright indoor and outdoor environments.
- The Camera has a high-precision image sensor which is fragile and susceptible to shock, do not drop the handset. Also, use it in moderate climates as it is sensitive to temperature and humidity.
- The Image may appear blurry when the lens part of the camera (on the back side of your handset) is dirty, please keep it clean.
- Using the Camera consumes more battery power.

## Photo

Using the digital camera embedded in your handset, you can take photos in a variety of ways.

1. In Standby mode, press the  key to display the menu screen.
2. Press number 5 to enter Camera.
3. Press number 1 to enter Photo.
4. Press the  key to take a picture.
5. The picture is saved under Photo in your Gallery.

### [Icons]

**Image Size** : Sets the image size.

**Zoom** : Zooms in and out.

**Brightness** : Sets the Brightness of the picture. There are five levels.

**Rotate** : Selects the Rotate option for the picture from 90 / Mirror which rotates or flips the image.

**Effect** : Applies various special effects to the picture.

**Frame** : Takes a photo with various frames.

After taking the assigned number of photos, thumbnails are displayed and you can select and save the desired pictures.

**Self-Timer** : Sets the timer for automatic shutter release. A picture is taken according to the Self Timer setting.

**Go to Video Clip** : Moves to Video Clip.

**Go To Gallery** : Moves to Photo in your Gallery.

## Video Clip

Using the digital camera embedded in your handset, you can take video clips in a variety of ways.

1. In Standby mode, press the  key to display the menu screen.
2. Press number 5 to enter Camera.
3. Press number 2 to enter Video Clip.
4. Press the  key to take a Video Clip.
5. The file is saved under Video Clip in your Gallery.

### [Icons]

**Zoom** : Zooms in and out.

**Brightness** : Sets the Brightness of the picture. There are five levels.

**Rotate** : Selects the potate option for the Video Clip.

**Effect** : Applies various special effects to the Video Clip.

**Go to Photo** : Moves to Photo.

**Go to Gallery** : Moves to Video Clip in your Gallery.

## Settings

You can set various options regarding photos and video clips.

1. In Standby mode, press the  key to display the menu screen.
2. Press number 5 to enter Camera.
3. Press number 3 to enter Settings.

### [Quality]

Sets the quality of the image.

Standby Mode  Press 5 Press 3 Press 1

Select an option of the photo and the Video-clip from Normal / High / Low.

### [Sound]

Sets the Shutter Sound effect for the shutter release.

Standby Mode  Press 5 Press 3 Press 2

### [Auto Save]

Sets the type of automatic saving for photos and video clips.

Standby Mode  Press 5 Press 3 Press 3

**On** : Photos and video clips will be automatically stored in your Gallery.

**Off** : Photos and video clips will require your confirmation before they are stored in your Gallery.

### [Default Title Name]

Sets the title name of Photos and Video Clips which don't have a given name.

Standby Mode  Press 5 Press 3 Press 4

### [Memory Use]

You can check memory status of your photo and video clip in your handset's memory and T-Flash.

Standby Mode  Press 5 Press 3 Press 5

**Photo** : Photos and video clips will be stored in your handset.

**T-Flash** : Photos and video clips will be stored in T-Flash memory.

## ■ Settings

Using this function, you can set various options of Display, Sound, Phone setting, Security and IrDA.

### Display

Using this function, you can set various Standby and Lighting options.

1. In Standby mode, press the  key to display menu screen.
2. Press number 6 to enter Settings.
3. Press number 1 to enter Display.

#### [Main LCD]

You can set an image and clock displayed in Standby mode, and also you can input words and set the color of characters.

Standby Mode  Press 6  Press 1 

#### Image

You can select an image or a photo from images provided with your handset and those stored in your Gallery to set it as your Standby screen.

Select Image, and then select an image from provided images using the left and right side of  key to set it as your Standby screen. Alternatively, you can select an Images or Photo from your Gallery by pressing the  key for your Standby screen.

#### Animation

You can select an Animation from animations provided with your handset and those stored in your Gallery to set it as your Standby screen.

Select Animation, and then select an animation from provided animations using the left and right side of  key to set it as your Standby screen.

Alternatively, you can select an Animation from your Gallery by pressing the  key for your Standby screen.

#### Clock

Sets the Clock type displayed on your Standby screen.

You can select from Digital / Analog / Dual options.

#### Calendar

Sets a calendar as your Standby screen.

If Dual is set, your time and the selected region's time are displayed.

You can adjust the dual zone's time by -1, 0, +1 hour to apply the summertime or other adjustment.

### Text Input

You can display words on your Standby screen.  
After inputting words, you can select the font color.

### [Sub LCD]

You can set an image and clock displayed in Standby mode.

Standby Mode ➔  ➔ Press 6 ➔ Press 1 ➔ Press 2

### Image

You can select an image or a photo from images provided with your handset and those stored in your Gallery to set it as your Standby screen.  
Select Image, and then select an image from provided images using the left and right side of  key to set it as your Standby screen. Alternatively, you can select an Images or Photo from your Gallery by pressing the  key for your Standby screen.

### Animation

You can select an Animation from animations provided with your handset and those stored in your Gallery to set it as your Standby screen.  
Select Animation, and then select an animation from provided animations using the left and right side of  key to set it as your Standby screen.

Alternatively, you can select an Animation from your Gallery by pressing the  key for your Standby screen.

### Clock

Sets the Clock type displayed on your Standby screen.  
You can select from Digital / Analog / Options.

### [Lighting]

Using this function, you can set Time, Contrast, and Brightness of Lighting.

Standby Mode ➔  ➔ Press 6 ➔ Press 1 ➔ Press 3

### Time

Sets the Lighting duration time for the LCD backlight.  
Select from 5 sec / 10 sec / 20 sec / Always On.

**Brightness**

Sets the Brightness of the LCD display.

Five levels are available.

**Contrast**

Sets the Contrast of the LCD display.

Five levels are available.

**Sound**

Using this function, you can set the Sound and its volume for incoming calls, Message Alert, Key tone, opening and closing the handset's folder, and volume.

1. In standby mode, press the  key to display menu screen.
2. Press number 6 to enter Settings.
3. Press number 2 to enter Sound.

**[Incoming Call]**

You can select a ring tone from various ring tones provided for Incoming Calls.

Standby Mode ➔  ➔ Press 6 ➔ Press 2 ➔ Press 1

**Mode**

Sets the way of notification for Incoming Calls.

**Ring Tone Only** : The Ring Tone rings only.

**Vibration Only** : The handset vibrates only.

**Ring Tone + Vib** : Ring Tone rings, and your handset vibrates at the same time.

**Silent** : Your handset does not vibrate nor ring.

**Ring Tone to Vib** : Ring Tone rings, and then your handset vibrates afterwards.

**Vib to Ring Tone** : The handset vibrates, and then the Ring Tone rings.

**Ascending** : Ring Tone rings increasingly loud.

**Ring Tone**

You can select your Ring Tone from various tones and melodies provided with your handset and those stored in your Gallery.  
Select Ring Tone, and then press the  key to select a Ring Tone or a Melody from your Gallery.

**[Message Alert]**

You can set the sound for incoming messages.

Standby Mode ➔  ➔ Press 6 ➔ Press 2 ➔ Press 2

You can set various options for message arrivals.

**Alert Period** : Sets the interval between repeating alerts when a message arrives.

Select from Once / Every 2 Min / None.

**Alert Sound** : Sets the Ring Tone for the message alert when you selected Ring Tone Only or Ring Tone + Vib option for your Alert Mode.

**Alert Mode** : Sets the type of notification for arriving messages.

Select from Ring / Vibrator / Vib + Ring / Silent.

**[Key Tone]**

You can set the key tone for number and menu keys.

Standby Mode ➔  ➔ Press 6 ➔ Press 2 ➔ Press 3

**Key tone**

Sets the Dial Sound.

**Menu Sound**

Sets the sound for a menu traversal.

**[Folder]**

You can set the sound for opening and closing the Folder of your handset.

Standby Mode ➔  ➔ Press 6 ➔ Press 2 ➔ Press 4

Sets the sound for Folder opening and closing.

**[Volume]**

Sets the Volume of the ring tone which listed above, Incoming Calls / Message / Keystroke / Folder / Power On/Off / Others.

Standby Mode ➔  ➔ Press 6 ➔ Press 2 ➔ Press 5

Five levels are available.

## Phone Setting

You can set the date, time, language and other various options of your handset.

1. In Standby mode, press the  key to display menu screen.
2. Press number 6 to enter Settings.
3. Press number 3 to enter Phone Setting.

### [Date & Time]

You can set Date, Time and Time Zone. You can select the indication formats for Date and Time.

Standby Mode  Press 6 Press 3 Press 1

1. Set the date.
2. Select the time format from 12hours / 24hours.
3. Set the time.
4. Set the Time Zone.
5. Select input type among YYYY / MM / DD, DD / MM / YYYY, MM/DD / YYYY.
6. After finishing, press the  key to save your settings.



When user changed time value, the schedule could be deleted, which saved on handset.

### [Language]

You can set the Language for your handset.

Standby Mode  Press 6 Press 3 Press 2

Select an option from English / Simplified Chinese / Traditional Chinese.

### [Answer Key]

You can set a key as the Answer Key to answer an incoming call.

Standby Mode  Press 6 Press 3 Press 3

Select an option from Any Key / Send Key / Open folder.

### [Auto Answer]

You can take advantage of this function when you use an ear-mic-phone (hands-free) connected to your handset. When the ear-mic-phone is connected to your handset and Auto Answer is set, an incoming call will be answered automatically without pressing the Answer Key.

Standby Mode  Press 6 Press 3 Press 4

Select an option from Off / 5 sec / 10 sec.

**[Auto Redial]**

Using this function, you can automatically redial the number from missed and other failed calls.

Standby Mode ➔  ➔ Press 6 ➔ Press 3 ➔ Press 5

Select an option from Off / On.

**[Factory Set]**

Using this function, you can reset all settings of your handset to factory default values.

Entering password will enable the Factory Set.

Standby Mode ➔  ➔ Press 6 ➔ Press 3 ➔ Press 6



When factory reset is executed, time is changed like, '00 : 00'.

**[My Favorite]**

Using this function, you can configure your own menu screen with frequently used and preferred menu items.

Standby Mode ➔  ➔ Press 6 ➔ Press 3 ➔ Press 7 ➔ Select a desired menu by pressing the  key ➔ 

After saving menu items, press the right side of the  key in Standby mode to directly enter Favorite menu screen.

**Security**

Sets security numbers for your privacy and protection of your handset.

1. In Standby mode, press the  key to display menu screen.
2. Press number 6 to enter Settings.
3. Press number 4 to enter Security.

**[PIN]**

PIN (Personal Identification Number) prevents the use of an unapproved SIM card.

PIN is usually provided with the SIM card. When your PIN has been approved, you must enter the PIN each time you switch the phone on.

Standby Mode ➔  ➔ Press 6 ➔ Press 4 ➔ Press 1

**Enable PIN** : As the SIM card is locked, you must enter your PIN whenever you switch the phone on.

**[Change PIN]**

To some SIM cards, PIN is also provided on some SIM cards. To use a function, this number may be required. This feature requires support of the SIM card.

Standby Mode ➔  ➔ Press 6 ➔ Press 4 ➔ Press 2

**Change PIN** : You can change your current PIN to a new one. You must enter the current PIN before you can specify a new one.

**[Lock]**

You can lock a selected menu item or your entire handset for your privacy.

Standby Mode ➔  ➔ Press 6 ➔ Press 4 ➔ Press 3

**Private Lock**

Locks a selected menu item.

A locked menu item requires access password for each use.

Select a menu to be locked by pressing the  key and then press the  key to save your setting. The initial password is "0000".

**Power on Lock**

Locks your entire handset.

If this function is set, a password input is required every time the handset is turned on.

**Change Password**

Changes the password.

Enter the current password and then enter the new password to be set.

**[FDN]**

FDN : With the phone FDN (Fixed Dialing Numbers) is provided, you can dial only several numbers you specify. To use this mode, you have to enter PIN2 number.

Standby Mode ➔  ➔ Press 6 ➔ Press 4 ➔ Press 4

The following options are available :

**Enable** : Activates or deactivates the FDN mode.

The number of your phone may be different from the number of the SIM card.

**[Change PIN2]**

To some SIM cards, PIN2 is also provided. To use a function, this number may be required. This feature requires support of the SIM card.

Standby Mode ➔  ➔ Press 6 ➔ Press 4 ➔ Press 5

**Change PIN2** : You can change your current PIN to a new one. You must enter the current PIN before you can specify a new one.

## Infrared Receive

Using IrDA infrared wireless communication, you can send and receive data from / to other handset or PC that support IrDA.

When IrDA is activated, an indicator  is displayed.

1. In Standby mode, press the  key to display menu screen.
2. Press number 6 to enter Settings.
3. Press number 5 to enter Infrared Receive.
4. Select an option from Off / 1 min / 3 min / 10 min / 30 min / Always.



Off inactivates the IrDA infrared wireless communication all the time, where Always activates the function all the time. If Infrared Receive is set to a time value, it turns off automatically after the selected time period. It is set to Off when your handset was turned off and on.

## Connection to a Computer

You can connect your handset to a computer for receiving or sending your data. You need to pre-set the connection method.

1. In Standby mode, press the  key to display the Menu screen.
2. Press 6 to enter Settings.
3. Press 6 to connect your computer.

### [PC Sync]

Connects your handset to PC Sync in the computer software. You can receive or send data for the telephone directory, calendar, and memo function.

Standby Mode  Press 6  Press 6  Press 1

### [USB Mass storage]

Connects the storage stick to your computer. You can receive and send pictures, flashes, photos, video clips and other data.

Standby Mode  Press 6  Press 6  Press 2

Available saving extension at USB Mass Storage

Folder	Extension
My Camera	.jpg (only camera)
My Video	.mov (only video)
My Image	.jpg / .bmp / .wbmp / .png / .ems / .gif (not animation)
My Animation	.gif (animation)
My Sound	.wav / .mid / .imy
My Music	.mp3 (only)

### [T-Flash]

Connects T-flash to your computer. You can receive and send pictures, flashes, photos, video clips and other data.

Standby Mode  Press 6  Press 6  Press 3

## ■ Organizer

Organizer provides various functions such as Calendar, Alarm, Memo, Voice record, Calculator, World Time, Unit Convert and Stop watch.

### Calendar

Using this function, you can input and check your anniversaries, important appointments, and other events of which you can be reminded by setting the alarm.

1. In Standby mode, press the  key to display menu screen.
2. Press number 7 to enter Organizer.
3. Press number 1 to enter Calendar.
4. After the calendar is displayed, press the  key to select a date and then press the  key to display a submenu screen of the selected date.

To check your schedule, press the  key to select a date and then press the  key, and number 3 to display the Schedule List.

#### [New]

Inputs a new schedule item.

Standby Mode  Press 7  Press 1  Press 1

1. Input following items :

#### Subject

Input the subject of the schedule item.

#### Start Date & Time

Input the start date and time of the schedule item.

#### End Date & Time

Input the end date and time of the schedule item.

#### Location

Input the location of the schedule item.

#### Notes

Input a reminding note of the schedule item.

#### Alarm

Set the alarm time.

**Alarm Sound**

Set the ring tone for the alarm.

2. After finishing, press the  key to save the schedule item.

**[Delete All]**

Deletes all the schedule items stored on the selected date.

To delete all the schedule items, confirm the prompt message displayed by pressing the  key.

Standby Mode   Press 7  Press 1   Press 2 

**[Schedule List]**

Displays all the schedule items stored on the selected date.

Standby Mode   Press 7  Press 1   Press 3

**New**

Inputs a new schedule item for the selected date.

1. Input respective schedule data items.  
2. After inputting schedule data items, press the  key to save it.

For further details, please refer to 'New' of 'Calendar' on page 129.

**Delete**

Deletes one selected schedule item only.

To delete selected item, confirm the prompt message displayed by pressing the  key.

**Delete All**

Deletes all the schedule items stored on the selected date.

To delete all the schedule items, confirm the prompt message displayed by pressing the  key.

**Beam**

Using IrDA infrared wireless communication, you can send data to another handset or pc.

When IrDA is activated, an indicator  is displayed.

For further details on IrDA, please refer to 'Infrared Receive' of 'Settings' on page 125.

**Go to Date**

Moves to the selected date when you press the  key.

### Auto Delete

Deletes schedule items automatically according to the selected expiry date.  
You can select from Never / After 1 Day / After 1 Week / After 1 Month.



If you change the Date & Time of Phone Setting in Settings menu to the one following the date and time of a preset schedule item, this schedule item will not be automatically deleted by the Auto Delete setting.

### [Go to Date]

Moves to the selected date when you press the  key.

Standby Mode   Press 7  Press 1   Press 4

### Alarm

Sets the Alarm to notify you at the time you set.

1. In Standby mode, press the  key to display menu screen.
2. Press number 7 to enter Organizer.
3. Press number 2 to enter Alarm.

### [Morning Call]

You can set the Morning Call time.

The Morning Call repeats after an interval set unless you stop it by pressing  key.

Standby Mode   Press 7  Press 2  Press 1

1. Input following items to set the Morning Call :

- **Time** : Using number keys, set the time of Morning Call.

- **Days** : Select the day on which you want to set the Morning Call.

Select from Everyday / Mon - Fri / Mon - Sat / None.

- **Snooze** : Select the Snooze interval of the Morning Call.

The Morning Call will repeat with a selected ring tone after an interval you set.



If Snooze is set to a value other than Off, you need to open up the slide of the handset and then press the  key to release the Snooze not to repeat the ring.  
Select from Off / 1 min / 5 min / 10 min / 30 min / 1 hour.

- **Alarm Mode** : Sets the Alarm Mode of the Morning Call.  
Select from Sound / Vibration / Vibration + Sound.
- **Alarm Sound** : Sets the Alarm Sound of the Morning Call.

2. After finishing, press the  key to save and complete your Morning Call settings.

#### [Reminder]

You can set a Reminder to ring alarms for anniversaries, important and repeating schedule events at the time you set.

Standby Mode ➔  ➔ Press 7 ➔ Press 2 ➔ Press 2

Pressing the  key displays the Menu.

If there is no Reminder previously set, pressing the  key enters the New mode directly.



#### New

Sets a new Reminder item.

Select repeating interval from Once / Daily / Weekly / Monthly.

- **Once** : Reminder will alarm on the date you set only.

Subject : Set the Subject of the Reminder.

Date : Set the date of the Reminder.

Time : Set the time of the Reminder.

- **Daily** : Reminder will alarm everyday at the time you set.

Subject : Set the Subject of the Reminder.

Time : Set the time of the Reminder.

- **Weekly** : Reminder will alarm every week on the day you set.

Subject : Set the Subject of the Reminder.

Days : Set the day of the week of the Reminder.

Time : Set the time of the Reminder.

- **Monthly** : Reminder will alarm every month on the date you set.

Subject : Set the Subject of the Reminder.

Days : Set the dates of the Reminder. Set the dates using number keys.

Time : Set the time of the Reminder.

After finishing, press the  key to save and complete your Reminder settings.

#### Delete

Deletes a selected Reminder.

#### Delete All

Deletes all the Reminder items stored.

#### Alarm Option

Sets Alarm Mode and Alarm Sound.

## Memo

Using this function, you can edit and delete Memos.

Standby Mode  Press 7 

Press the  key, you can enter a new Memo.

Enter the title and the contents in the selected empty item.

Press the  key to save it.

#### Edit

After editing a Memo, press the  key to save it.

#### Delete

Deletes a selected Memo.

#### Delete All

Deletes all the Memo items stored.

## Voice Record

Using this function, you can record the voice.

1. In the standby mode, press the  key to display menu screen.

2. Press number 7 to enter Organizer.

3. Press number 4 to enter Voice Record.

## Calculator

Using this function, you can perform simple calculations such as addition, subtraction, multiplication, and division.

Standby Mode ➔  ➔ Press 7 ➔ Press 5

### [Function Keys]

	Resets the Calculator.
	Returns to previous screen.
 : Multiply X  : Divide ÷	
 : Add +  : Subtract -	
	Shows the result.
	Deletes a number wrong fully entered.
	Enters a decimal point.
	Enters a plus or minus sign.

## Unit Convert

You can convert one length, weight, volume, area and temperature unit into another unit.

Standby Mode ➔  ➔ Press 7 ➔ Press 6

After selecting the original unit, select your target unit to convert into by using left and right side of the  key.

## World Time

Displays the World Time for the selected region.

Standby Mode ➔  ➔ Press 7 ➔ Press 7

Using the  key, select the region you want to display the time for.

## Stop Watch

You can use a stop watch function.

Standby Mode ➔  ➔ Press 7 ➔ Press 8

## ■ MP3 Player

You can always enjoy music using the embedded MP3 Player.

In Standby mode, press the upper key of  to enter MP3 Player mode.

### Music Play

Using this function, you can playback MP3 music files and change the MP3 Skin color.

1. In Standby mode, press the  key to display menu screen.
2. Press number 8 to enter MP3 Player.
3. Press number 1 to enter Music play.

### [Function Keys]



Shows the list of MP3 files currently played back.
Returns to menu screen from MP3 playback mode.
 : Volume Control.
 : Moves to the previous and next music file.
 : Play / Stop.
Volume Control.
Returns to the previous stage.
Returns to Standby mode.

**[Set]**

Standby Mode ➔  ➔ Press 8 ➔ Press 1 ➔ 

**Display**

You can choose the MP3 player Display.

**Equalizer**

You can choose a equalizer effect of the MP3 player.

**Shuffle**

Shuffles and plays back music files in the list.

Setting it to On shuffles and plays back music files in arbitrary order where Off plays back music files sequentially in the order of list.

**Repeat**

Sets the repeating option of MP3 playback.

**Off** : Does not repeat.

**One** : Repeats the MP3 file currently played back.

**All** : Plays back all the MP3 files in the list and then repeats from the beginning.

## Edit Play list

You can choose an MP3 file to playback.

1. In Standby mode, press the  key to display menu screen.
2. Press number 8 to enter MP3 Player.
3. Press number 2 to enter Edit Playlist.

**[Function Keys]**

Returns to the MP3 Player mode.

Returns to the option screen.

 : Selects a Playlist.

 : Moves to the previous and next music file.

 : Selects a music file.

Selects a Playlist.

Returns to the previous stage.

Returns to Standby mode.

**[Option]**

Standby Mode ➔  ➔ Press 8 ➔ Press 2 ➔ 

**Select All** : Selects all music files in the list to playback.

**Clear All** : Deselects all selected music files in the list.

**Invert** : Inverts your selection by deselecting selected files and selects not selected files.

**About Track** : Shows the details of the selected file.

**Joy World**

You can enjoy various functions such as Internet and Game.

**Internet**

Your handset supports WAP browser so that you can connect to and use wireless internet connection.

1. In Standby mode, press the  key to display menu screen.

2. Press number 9 to enter Joy World.

3. Press number 1 to enter Internet.

Or, press the  key in Standby mode to enter Internet directly.

**[Home]**

Select this item to connect to the internet and it will display the Home page of the wireless internet service provider.

Standby Mode ➔  ➔ Press 9 ➔ Press 1 ➔ Press 1

**[Bookmarks]**

Using this function, you can store a URL of your favorite site.

Standby Mode ➔  ➔ Press 9 ➔ Press 1 ➔ Press 2

**Add**

1. Press the  key to display the option screen.
2. Press number 1 to add a new bookmark.
3. Give the bookmark a URL, Title, and assign a Folder. Press the  key to save the bookmark.

**Edit**

1. Select a URL to edit and then press the  key to display the option screen.
2. Press number 2 to edit the bookmark.
3. Edit selected bookmark as in Adding a New Bookmark, and then press the  key to save it.

**Delete**

1. Select a URL to delete and then press the  key to display the option screen.
2. Press number 3 to delete the selected URL only.

**Set as Home**

1. Select a URL to delete and then press the  key to display the option screen.
2. Press number 4 to set the selected URL as home.

**[Go to URL]**

You can enter the URL directly and connect to the site.

Standby Mode ➔  ➔ Press 9 ➔ Press 1 ➔ Press 3

**[Profile Settings]**

Using this function, you can setup WAP browser options.

Standby Mode ➔  ➔ Press 9 ➔ Press 1 ➔ Press 4 ➔ Select a service provider

**Profile Name**

Enter Profile Name.

**Homepage**

Enter Homepage.

**Connect Mode**

Select the connect mode option from CL / CO / TCP.

**IP Address**

Enter IP Address

GPRS Data Attach

GSM Data Attach

Detach Data Account

**[General Settings]**

Standby Mode ➔  ➔ Press 9 ➔ Press 1 ➔ Press 5

**Access Type**

Select the Access Type option from GPRS preferred / GSM only / GPRS only.

**Push Access**

Sets the WAP push access option.

**Load Images**

Sets to display the image in WAP.

**Data Account**

GSM Setting.

GPRS Setting.

**[History]**

Shows the list of the contacted URL records.

Standby Mode ➔  ➔ Press 9 ➔ Press 1 ➔ Press 6

**[WAP Inbox]**

Stores the WAP Push Messages.

Standby Mode ➔  ➔ Press 9 ➔ Press 1 ➔ Press 7

**[Clear Cache]**

Clears the WAP browser's cache memory.

Standby Mode ➔  ➔ Press 9 ➔ Press 1 ➔ Press 8 ➔ 

## Games

You can enjoy games using your handset.

1. In Standby mode, press the  key to display menu screen.
2. Press number 9 to enter Joy World.
3. Press number 2 to enter Games.

Enjoying Games may consume more battery power.

4. Select the game and press the  key to start the game.

## OTHER FUNCTIONS

- MP3 Editing Tool Installation Guide
- PCSync Installation Guide
- Safety Information
- Glossary

VK1000

### ■ MP3 Editing Tool Installation Guide

#### Installation Media

You are sure to need the Installation Package File (EXE or ZIP) that in the Accessory CD offered from provider or Internet download.

Need more information, contact provider website. (<http://www.vkmobile.com>)

[Install MP3 Editing Tool package according to instructions](#)

Installation Package file name has the format like that “Audacity-win-M.N.R.exe”.

M = Major Number, N = Minor Number, R = Revision Number.

## ■ PCSync Installation Guide



PCSync package is optional product.

### What is PCSync?

PCSync is a program that allows PC to connect to a mobile terminal for transmitting data such as phone numbers compiled by PC, reading and editing data of a mobile terminal on PC, and uploading and downloading images and melodies between PC and a mobile terminal.

### Operation requirements

CPU : Pentium II 300 (x86 compatible processor)  
RAM : 64 MB or higher (128 MB recommended)  
VGA : 800 x 600 (16 bit color or higher)  
HDD : 20 MB free space  
OS : Microsoft Windows 2000, XP or higher  
CD-ROM : CD-ROM/DVD-ROM (4x or higher)  
Mouse : Serial mouse / PS / 2 Mice / USB mouse

### Installation Media

You are sure to need the Installation Package File (EXE or ZIP) that in the Accessory CD offered from provider or Internet download.  
Need more information, contact provider website. (<http://www.vkmobile.com>)

### Installation

[Install VK PCSync package according to instructions](#)

Installation Package file name has the format like that "PCSyncM.N.R\_VK.EXE".  
M = Major Number, N = Minor Number, R = Revision Number.

[Plug in the cable to PC](#)

[Plug in the cable to the phone](#)

Windows should recognize the cable and find the driver for it, and install VK USB driver according to instructions.

[Execute VK PC Sync](#)

Checking the power of mobile, connecting the cable between PC and mobile.

## Safety Information

### Password Input

There are several passwords that are used by your phone and its SIM card. These passwords help you protect your phone against unauthorized use.

### Phone Password

The phone password is used for unlocking the keys, deleting all Phonebook entries, restoring the factory setting, and locking or unlocking the phone. If the Phone Lock feature is enabled, you must enter the password each time the phone is turned on.

This password can be used to avoid unauthorized use of your phone. The password is usually preset to "0000".

### PIN Code

PIN(Personal Identification Number)code protects your SIM card against unauthorized use. The PIN code is usually supplied with the SIM card. When the PIN code request is enabled, the code is asked each time the phone is switched on.

If you key in incorrect PIN code three times in succession, the phone will lock and you will be required to enter

a PUK code. When you enter a new PIN code, you will have to enter your new password twice to confirm correct.

### PIN2 code

Some SIM cards are provided with a PIN2 code. To use a function this code may be required. The use of this code requires the support of the SIM card.

If you key in an incorrect PIN2 code three times in succession, enter the PUK 2 code and then press the  key.

When you enter a new PIN2 code, you will have to enter it twice for confirmation and then press the  key.

### PUK code

The PUK (Personal Unblocking Key) code is used for changing a blocked PIN code. This code is usually supplied with the SIM card, if not contact your service provider.

If you key in an incorrect PUK code ten times in succession, the SIM card will become void and you must obtain a new card. As the PUK code cannot be changed, contact your service provider if you forget the code.

### PUK2 code

The PUK2 code, supplied with some SIM cards, is required to change a blocked PIN2 code. If you key in an incorrect PUK2 code ten times in succession, you cannot use the functions requiring the PIN2 code. Contact your service provider for a new card. You cannot change the PUK2 code. If you lose the code, contact your service provider.

### Barring Password

The 4-digit barring password is required when you use the Call Barring function. You can obtain the password from your service provider when you subscribe to this function.

## Using the Batteries

The battery provided with the phone is a Lithium slim battery.

### Precautions When Using Batteries

- Never use any charger or battery that is damaged in any way.
- Use the battery only for its intended purpose.
- If you use the phone near the network base station, it uses less power ; talk and standby times are greatly affected by the signal strength on the cellular network and the parameters set by the network operator.
- Battery charging times depend on the remaining battery charge, the type of battery, and charger used. The battery can be charged and discharged hundreds of times, but it will gradually wear out. When the operation time (talk time and standby time) is noticeably shorter than normal, it is time to buy a new battery.
- If left unused, a fully charged battery will discharge itself over time.

- Use only approved batteries and recharge your battery only with approved chargers. When a charger is not in use, disconnect it from the power source. Do not leave the battery connected to a charger for more than a week, since overcharging may shorten its life.
- Extreme temperatures will affect the charging capacity of your battery: it may require cooling or warming first.
- Do not leave the battery in hot or cold places, such as in a car in summer or winter conditions, as you will reduce the capacity and life-time of the battery. Always try to keep the battery at room temperature. A phone with a hot or cold battery may temporarily not work, even when the battery is fully charged. Li-ion batteries are particularly affected by temperatures below 0°C (32°F).
- Accidental short circuiting can occur when a metallic object (coin, clip or pen) causes a direct connection between the + and - terminals of the battery (metal strips on the back of the battery), for example when you carry a spare battery in a pocket or bag. Short-circuiting the terminals may damage the battery or the object causing the short-circuit.
- Dispose of used batteries in accordance with local regulations. Always recycle. Do not dispose of batteries in a fire.

## Safety Information

### Traffic Safety

Do not use a hand-held mobile phone while driving a vehicle. If using a hand-held phone, park the vehicle before conversing. Always secure the phone in its holder, do not place the phone on the passenger seat or where it can break loose in a collision or sudden stop.

The use of an alert device to operate a vehicle lights or horn on public roads is not permitted.

**Remember, road safety always comes first!**

### Operating Environment

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

When connecting the phone or any accessory to another device, read its users guide for detailed safety instructions. Do not connect incompatible products.

As with other mobile radio transmitting equipment, users are advised that for the satisfactory operation of the equipment and for the safety of personnel, it is recommended that the equipment should only be used in the normal operating position (held to your ear with the antenna pointing over your shoulder).

## Electronic Devices

Most modern electronic equipment is shielded from radio frequency (RF) signals. However, certain electronic equipment may not be shielded against the RF signals from your mobile phone.

### Pacemakers

Using the phone within 6 inches (20cm) may cause a potential interference with a pacemaker.

Persons with pacemakers:

- Should always keep the phone more than 6 inches (15cm) from their pacemaker when the phone is switched on.
- Should not use the phone near or around their chests.
- Should use the ear opposite the pacemaker to minimize the potential for interference.
- If you have any reason to suspect that interference is taking place, switch off your phone immediately.

## Hearing Aids

Some digital mobile phones may interfere with some hearing aids. For more information, contact your service provider.

### Other Medical Devices

Electromagnetic waves generated from the cellular phones may dangerously affect medical devices. Switch off your phone in health care facilities in accordance with their regulations.

### Car

Electromagnetic wave signals may affect improperly installed or inadequately shielded electronic systems in a car. Check with the manufacturer regarding your car before using your phone.

## Potentially Explosive Atmospheres

Switch off your phone when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death. Users are advised to switch off the phone while at a refueling point (service station). Also switch your phone off when you are below deck on boats; in chemical transfer or storage facilities and in vehicles using liquefied petroleum gas as the air may contain chemicals or particles such as grain, dust or metal powders.

## Vehicles

Only qualified personnel should service the phone, or install the phone in a vehicle. Faulty installation or service may be dangerous.

Check regularly that all mobile phone equipment on your vehicle is mounted and operating properly. Do not store or carry flammable liquids, gases or explosive materials in the same compartment as the phone, its parts or accessories.

Do not install your mobile phone equipment near an air bag. If the air bag inflates, your phone may be damaged.

Switch off your phone before boarding an aircraft. The use of mobile phones in an aircraft may be dangerous to the operation of the aircraft, disrupt the wireless telephone network and may be illegal.

Failure to observe these instructions may lead to the suspension or denial of telephone services to the offender, or legal action, or both.

## Emergency Calls

### Important!

This phone, like any mobile phone, operates using radio signals, wireless and landline networks as well as user-programmed functions that cannot guarantee connection in all conditions. Therefore, you should never rely solely upon any wireless phone for essential communications (for example, medical emergencies).

Remember, to make or receive any calls the phone must be switched on and in a service area with adequate signal strength. Emergency calls may not be possible on all wireless phone networks or when certain network services and phone features are in use. When you cannot use this function, contact your local service provider.

### To Make an Emergency Call :

1. If the phone is not on, switch it on.
2. Key in the emergency number for your present location (for example, 999 or other official emergency number). Emergency numbers vary by location.
3. Press the key. (Press the SOS key) If certain features are in use (key guard, restrict calls, etc.), you may first need to turn those features off before you can make an emergency call. Consult this document and your local cellular service provider. When making an emergency call, remember to give all the necessary information as accurately as possible. Remember that your phone may be only means of communication at the scene of an accident-do not cut off the call until given permission to do so.

## Care and Maintenance

Your phone is a product of superior design and craftsmanship and should be treated with care. Carefully read the following information :

- Keep it and all its parts and accessories out of small children's reach.
- Keep it dry. Precipitation humidity and liquids contain minerals that will corrode electronic circuits.
- Do not use or store it in dusty, dirty areas.
- Do not store it in hot or cold areas. High or low temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store it in cold areas. When the phone warms up (to its normal operating temperature), moisture can form inside the phone, which may damage the phone.
- Do not drop, knock or shake it. Rough handling can break internal circuit boards.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean it. Wipe it with a soft cloth slightly dampened in a mild soap and water solution.
- Do not paint the phone. Paint can clog the devices moving parts and prevent proper operation.
- Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications of attachments could damage the phone and may violate regulations governing radio devices.
- If the phone, battery, charger, or any accessory is not working properly, take it to your nearest qualified service facility.

### Hearing Aids

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may want to consult your service provider.

### Other Medical Devices

If you use any other personal medical device, consult the manufacturer of your device to determine if they are adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information.

Turn your phone OFF in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

### Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

### For Vehicles Equipped with an Air Bag

An air bag inflates with great force. DO NOT place objects, including either installed or portable wireless equipment, in the area over the air bag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.

#### Posted Facilities

Turn your phone OFF in any facility where posted notices so require.

#### Aircraft

FCC regulations prohibit using your phone while in the air. Switch OFF your phone before boarding an aircraft.

#### Blasting Areas

To avoid interfering with blasting operations, turn your phone OFF when in a "blasting area" or in areas posted : "Turn off two-way radio". Obey all signs and instructions.

#### Potentially 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 cause an explosion or fire resulting in bodily injury or even death.

Areas with a potentially explosive atmosphere are often, but not always marked clearly. Potential areas may include : fueling areas (such as gasoline stations); below deck on boats; fuel or chemical transfer or storage facilities; vehicles using liquefied petroleum gas (such as propane or butane); areas where the air contains chemicals or particles (such as grain, dust, or metal powders); and any other area where you would normally be advised to turn off your vehicle engine.

#### FDA Consumer Update

##### Do wireless phones pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of radiofrequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in the stand-by mode.

Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

##### What is FDA's role concerning the safety of wireless phones?

Under the law, FDA does not review the safety of radiation-emitting consumer products such as wireless phones before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless phones are shown to emit radiofrequency energy (RF) at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of wireless phones to notify users of the health hazard and to repair, replace or recall the phones so that the hazard no longer exists.

Although the existing scientific data do not justify FDA regulatory actions, FDA has urged the wireless phone industry to take a number of steps, including the following :

- Support needed research into possible biological effects of RF of the type emitted by wireless phones;
- Design wireless phones in a way that minimizes any RF exposure to the user that is not necessary for device function; and
- Cooperate in providing users of wireless phones with the best possible information on possible effects of wireless phone use on human health

FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of RF safety to ensure coordinated efforts at the federal level. The following agencies belong to this working group :

- National Institute for Occupational Safety and Health
- Environmental Protection Agency
- Federal Communications Commission
- Occupational Safety and Health Administration
- National Telecommunications and Information Administration

The National Institutes of Health participates in some interagency working group activities, as well.

FDA shares regulatory responsibilities for wireless phones with the Federal Communications Commission (FCC). All phones that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. FCC relies on FDA and other health agencies for safety questions about wireless phones.

FCC also regulates the base stations that the wireless phone networks rely upon. While these base stations operate at higher power than do the wireless phones themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless phones. Base stations are thus not the primary subject of the safety questions discussed in this document.

#### **What kinds of phones are the subject of this update?**

The term "wireless phone" refers here to hand-held wireless phones with built-in antennas, often called "cell," "mobile," or "PCS" phones. These types of wireless phones can expose the user to measurable radiofrequency energy (RF) because of the short distance between the phone and the user's head. These RF exposures are limited by Federal Communications Commission safety guidelines that were developed with the advice of FDA and other federal health and safety agencies.

When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person's RF exposure decreases rapidly with increasing distance from the source. The so-called "cordless phones," which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures well within the FCC's compliance limits.

#### **What are the results of the research done already?**

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of radiofrequency energy (RF) exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be pre-disposed to develop cancer in the absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we don't know with certainty what the results of such studies mean for human health.

Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer, glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phone RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

#### **What research is needed to decide whether RF exposure from wireless phones poses a health risk?**

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable proof of a cancer promoting effect if one exists. Epidemiological studies can provide data that is directly applicable to human populations, but 10 or more years' follow-up may be needed to provide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop - if they do - may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

#### **What research is needed to decide whether RF exposure from wireless phones poses a health risk?**

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable proof of a cancer promoting effect if one exists. Epidemiological studies can provide data that is directly applicable to human populations, but 10 or more years' follow-up may be needed to provide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop - if they do - may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

#### **What is FDA doing to find out more about the possible health effects of wireless phone RF?**

FDA is working with the U.S. National Toxicology Program and with groups of investigators around the world to ensure that high priority animal studies are conducted to address important questions about the effects of exposure to radiofrequency energy (RF).

FDA has been a leading participant in the World Health Organization International Electromagnetic Fields (EMF) Project since its inception in 1996. An influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world. The Project has also helped develop a series of public information documents on EMF issues.

FDA and the Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless phone safety. FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIA-funded research is conducted through contracts to independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

#### **How can I find out how much radio frequency energy exposure I can get by using my wireless phone?**

All phones sold in the United States must comply with Federal Communications Commission (FCC) guidelines that limit radio frequency energy (RF) exposures. FCC established these guidelines in consultation with FDA and other federal health and safety agencies. The FCC limit for exposure from wireless telephones is set at a Specific Absorption Rate (SAR) of 1.6 watts per kilogram (1.6W/kg).

The FCC limit is consistent with the safety standards developed by the Institute of Electrical and Electronic Engineering (IEEE) and the National Council on Radiation Protection and Measurement. The exposure limit takes into consideration the body's ability to remove heat from the tissue that absorb energy from the wireless phone and is set well below levels known to have effects.

Manufacturers of wireless phones must report the RF exposure level for each model of phone to the FCC. The FCC website (<http://www.fcc.gov/oet/rfsafety>) gives directions for location the FCC identification number on your phone so you can find your phone's RF exposure level in the online listing.

#### What has FDA done to measure the radio frequency energy coming from wireless phones?

The Institute of Electrical and Electronic Engineers (IEEE) is developing a technical standard for measuring the radio frequency energy (RF) exposure from wireless phones and other wireless hand sets with the participation and leadership of FDA scientists and engineers. The standard, "Recommended Practice for Determining the Spatial-Peak Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices : Experimental Techniques," sets forth the first consistent test methodology for measuring the rate at which RF is deposited in the heads of wireless phone users. The test method uses a tissue simulating model of the human head. Standardized SAR test methodology is expected to greatly improve the consistency of measurements made at different laboratories on the same phone.

SAR is the measurement of the amount of energy absorbed in tissue, either by the whole body or a small part of the body. It is measured in watts/kg (or milliwatts/g) of matter. This measurement is used to determine whether a wireless phone complies with safety guideline.

#### What steps can I take to reduce my exposure to radiofrequency energy from my wireless phone?

If there is a risk from these products--and at this point we do not know that there is--it is probably very small. But if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your exposure to radiofrequency energy (RF). Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure.

\* If you must conduct extended conversations by wireless phone every day, you could place more distance between your body and the source of the RF, since the exposure level drops off dramatically with distance. For example, you could use a headset and carry the wireless phone away from your body or use a wireless phone connected to a remote antenna.

Again, the scientific data do not demonstrate that wireless phones are harmful. But if you are concerned about the RF exposure from these products, you can use measures like those described above to reduce your RF exposure from wireless phone use.

### What about children using wireless phones?

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radiofrequency energy (RF), the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure.

Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

### FCC RF EXPOSURE INFORMATION

#### Read this information before using your phone

In August 1996 the Federal Communications Commission (FCC) of the United States with its action in Report and Order FCC 96-326 adopted an updated safety standard for human exposure to radio frequency (RF) electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies. The design of this phone complies with the FCC guidelines and these international standards.

Use only the supplied or an approved antenna. Unauthorized antennas, modifications, or attachments could impair call quality, damaged the phone, or result in violation of FCC regulations.

Do not use the phone with a damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result. Please contact your local dealer for replacement antenna.

#### Body-worn Operation

For body-worn operation, the SAR testing of the device was performed using a 1.5cm air gap, which corresponds to using clips and holsters that contain no metallic components and meets FCC RF exposure guidelines. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure compliance and should be avoided.

### Specific Absorption Rate (SAR) for Wireless Phones

The SAR is a value that corresponds to the relative amount of RF energy absorbed in the head of a user for a wireless handset. The SAR value of a phone is the result of an extensive testing, measuring and calculation process. It does not represent how much RF the phone emits. All phone models are tested at their highest value in strict laboratory settings. But when in operation, the SAR of a phone can be substantially less than the level reported to the FCC. This is because of a variety of factors including its proximity to a base station antenna, phone design and other factors. What is important to remember is that each phone meets strict federal guidelines. Variations in SAR's do not represent a variation in safety. All phones must meet the federal standard, which incorporates a substantial margin of safety. As stated above, variations in SAR values between different model phones do not mean variations in safety. SAR values at or below the federal standard of 1.6W/kg are considered safe for use by the public.

The highest reported SAR values of VK1000 are :

GSM mode-Head : 1.160 W/kg

Body-worn : 0.256 W/kg

PCS mode-Head : 1.360 W/kg

Body-worn : 0.339 W/kg

### FCC Radio Frequency Emission

This phone meets the FCC Radio Frequency Emission Guidelines. FCC ID number : SBWVK1000S  
More information on the phone's SAR can be found from the following FCC website :  
<http://www.fcc.gov/oet/fccid>

## Glossary

### Airtime

Actual time spent talking on the wireless phone. You are billed according to this reference.

### Antenna

A device for transmitting or receiving signals. The size and shape of antennas is determined, in part, by the frequency of the signal they receive. Wireless phones and the base station must have antennas.

### ALS (Alternate Line Service)

ALS provides the capability of associating two alternate lines with one SIM card. You can make and receive calls on either line as desired with this service.

### Call Barring

Ability to restrict outgoing and incoming calls.

### Call Divert

Ability to reroute calls to another mobile or fixed line.

### Call Holding

Ability to put one call on standby while answering or making another call; you can then switch between the two calls, as required.

### Call Waiting

Ability to inform users that they have an incoming call when engaged on another call.

### CLI (Caller Line Identification) Service

Service allowing subscribers to view or block the telephone numbers of callers.

### Conference Calling

Ability to establish a conference call involving up to five additional parties.

### DTMF (Dual-tone Multi Frequency)

You send DTMF signals when you enter numbers by pressing the digit keys.

### Hands-Free

A feature that permits a driver to use a wireless phone without lifting or holding the handset an important safety feature for automobiles, tractors and most other motorized vehicles.

### GSM (Global System for Mobile Communication)

International standard for cellular communication, guaranteeing compatibility between the various network operators. GSM covers most European countries and many other parts of the world.

### LCD (Liquid Crystal Display)

Commonly used to refer to the screen display on the wireless phone.

### LED (Light Emitting Diode)

Commonly used to refer to a small light on the wireless phone or on the Desktop Charger. The lights on the charger indicate that battery charging is taking place.

### PIN (Personal Identification Number)

Security code that protects the phone against unauthorized use. The PIN is supplied by the service provider with the SIM card. It may be a four to eight-digit number and can be changed, as required.

**PUK (PIN Unblocking Key)**

Security code used to unlock the phone when an incorrect PIN has been entered three times in succession. The eight-digit number is supplied by the service provider with the SIM card.

**Roaming**

Use of your phone when you are outside your home area (when traveling for example).

**SIM (Subscriber Identification Module)**

A card containing an integrated circuit. The circuit contains the information about the phone operation.

**SMS (Short Message Service)**

A network service sending and receiving messages to and from other persons without the need to call. The incoming messages immediately appear on the display, and you can edit, receive and send the messages.

**Soft Keys**

The function of this key :

- Varies according to the function that you are currently using.
- Is indicated on the bottom line of the display just above the corresponding key.

**Voice Mail**

When you cannot be reached, you can record your voice using this function.

**Wireless**

Receives signals. There is not need to connect using a physical connection, such as a metal wire (copper) or fiber optic cable.

For more details, contact your local service provider. There may be some differences between the phone and user manual.