

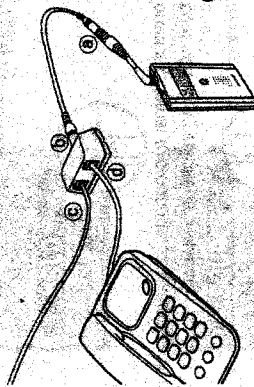
► VOICE RECORDING AND PLAYBACK

■ How to use Line—in recording

Use same method of using external microphone. Set [MENU]—[SOURCE]—[MIC].

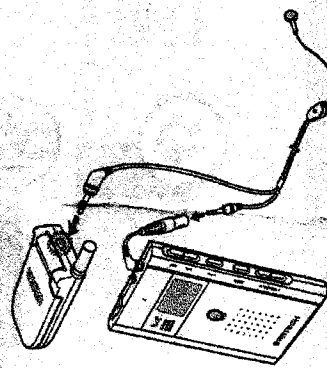
■ How to record telephone conversation

- ① Connect audio cable to Microphone jack of the Player with using earphone connector(a). Connect the other head of audio cable to telephone adaptor(b). connect the incoming telephone line(a service line) to telephone adaptor(c). Connect telephone cable between telephone and telephone adaptor(d).
- ② On telephone conversation in VOICE MODE(or AUDIO MODE), press REC button to start recording.
(To pause recording, press REC/PAUSE button and to stop recording, press PLAY/STOP button.)



■ How to record mobile phone conversation

- ① connect Jack of Hands free set(optional)to earphone jack of mobile phone. And then, connect Jack of hands free with using earphone connector to microphone jack of the player.
- ② On telephone conversation in VOICE MODE(or AUDIO MODE), press REC button to start recording.
(To pause recording, press REC/PAUSE button and to stop recording, press PLAY/STOP button.)



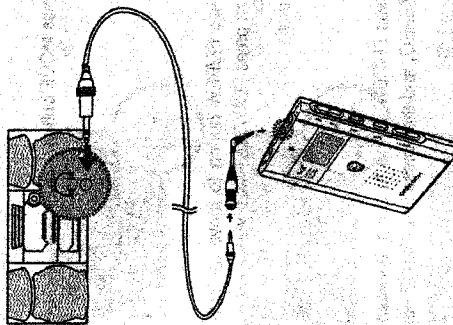
* This function is only applicable to mobile phone has earphone jack. Some kind of mobile phones might not be operated properly.

► VOICE RECORDING AND PLAYBACK

■ How to record external source from PC or audio devices.

If volume level of external device is too high, it can cause to make some noise and distortion. Before recording, Please set [MENU]—[SOURCE]—[LINE IN].

- ① Connect audio cable to Microphone jack of the Player with using earphone connector(a) and connect the other head of audio cable to earphone jack of audio devices.



- ② Press REC button to start recording
(To pause recording, press REC/PAUSE button and to stop recording, press PLAY/STOP button.)

* Recording quality and time table (Be based on 128MB)

	MIC		LINE IN	
	MONO		STEREO	
LQ	8 Kbps	Max.2180 Min	8 Kbps	Max.2180Min
MQ	16 Kbps	Max.1090 Min	16 Kbps	Max.1090Min
HQ	32 Kbps	Max.540 Min	32 Kbps	Max.540Min
			96 Kbps	Max.180Min
			128 Kbps	Max.130Min
			160 Kbps	Max.100Min

* In case of using internal microphone, the sound quality will be set to be a MONO mode automatically. (STEREO mode is only applicable to use external microphone or external audio devices.)

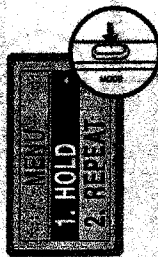
* In case of recording external sound sources from audio devices, Please select STEREO/HQ mode for high quality recording sound. But the recording time will be reduced.

► VOICE RECORDING AND PLAYBACK

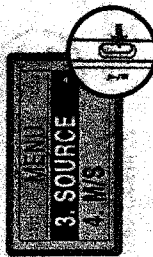
■ How to use internal microphone

Before the recording, please set Internal/External Microphone, Mono/Stereo, Quality, VOR function. Regarding how to set above functions, Please refer to P20-22.

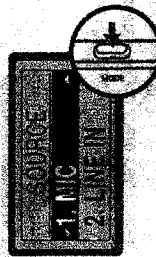
- ① Press MODE button to move to MENU In Voice Mode.



- ② Press FF/REW button to move to 'SOURCE' menu, and then press PLAY/STOP button to select.



- ③ Press FF/REW button to move to 'MIC' menu, and then press PLAY/STOP to select. And then press MODE button to exit MENU.



- ④ In STOP state of VOICE MODE(for AUDIO MODE), press REC button to start recording. (Press REC/PAUSE button to pause recording temporary. And Press PLAY/STOP button to stop recording.)



- * During recording, (MIC) icon will be appeared on REC and PAUSE button. (When pause button once selected with on. And if press REC button once more, recording will be restarted with led blinking)
- * Recording file automatically has a number and it will be next number of last recorded file.

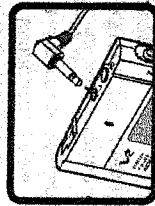
► VOICE RECORDING AND PLAYBACK

■ How to use external microphone

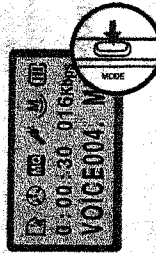
- ① Use same method of using external microphone: Set [MENU] - [SOURCE] - [MIC].



- ② Connect External microphone to external jack of the Player with using earphone connector.

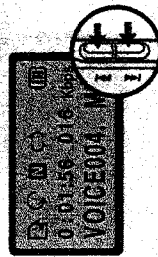


- ③ In STOP state of VOICE MODE(for AUDIO MODE), press REC button, and then start recording. (To pause recording, press REC/PAUSE button. And to stop recording, press PLAY/STOP button.)



► BASIC USAGE

■ SEEK and SEARCH



- ① During Playback or Stop state, press FF/REW button to move to the desired file what you want to listen.



- ② During Playback, if press and hold FF/REW button until the desired time, the player starts playback from that point. (Seek Function)

■ Volume control

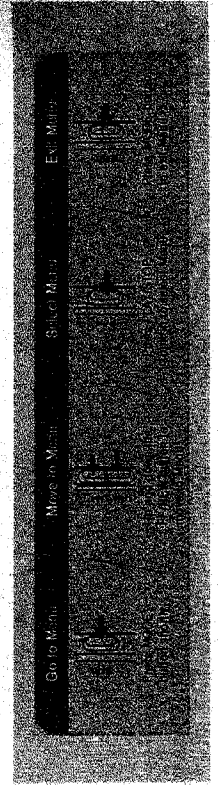


- ① Adjust the volume by pressing (+)/(-) to your desired level.
(If press (+)/(-) for a long time, volume level continuously goes up.)

★ In case of using headphones to listen to file, Volume level is controllable from 0 to 30 of each mode.
★ In case of using internal speaker to listen to file, Volume level is controllable from 0 to 24 level.

■ Setting Menu

During playback or stop stage, User can set Menu of each MODE.

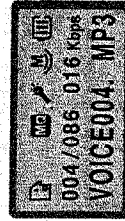


► BASIC USAGE

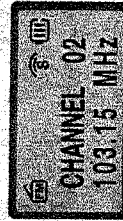
■ Mode change

The VR has 5 MODE as the followings: VOICE MODE—FM RADIO MODE—FM PLAY MODE—ERASE MODE—AUDIO MODE.

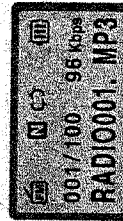
To change to next mode, Press MODE button up to 2 seconds in STOP state.



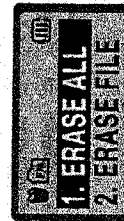
- ① VOICE MODE
Voice recording and playback.



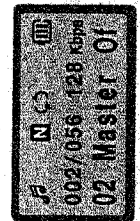
- ② FM RADIO MODE
Can save FM frequency. And record/listen to FM broadcasting as well.



- ③ FM PLAY MODE
Play back recorded FM radio or broadcasting
(This mode is available only if there has already recorded FM broadcasting or music file.)



- ④ ERASE MODE
Erase each files or each folder of VOICE MODE, AUDIO MODE, FM PLAY MODE.



- ⑤ AUDIO MODE
Playback MP3 and WMA audio files.
If press REC button in STOP state, directly goes to recording state.

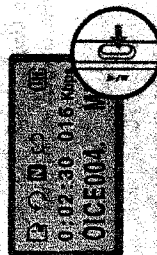
► BASIC USAGE

■ Power On/Off



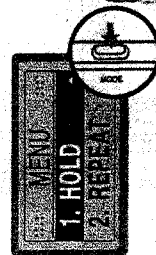
- ① To power on, press REC button during 2 seconds.
(If press REC button more than 2 seconds, the player start recording automatically.) To power off, press PLAY/STOP Button more than 2 seconds.
(If power on the main set, the last setting MODE will be displayed on LCD.)

■ Playback/Stop

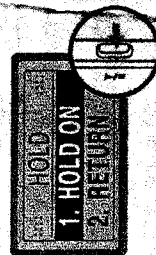


- ① Press PLAY/STOP button to play file when the player is power on.
(If don't press any keys during STOP state, the player is automatically power off after 3 minutes.
- auto power off function.)

■ Hold



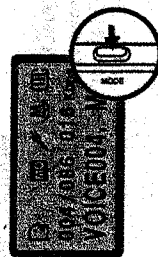
- ① Press MODE button shortly to go to Menu.



- ② Select HOLD ON, and then press PLAY/STOP button.

* If press MODE button more than 2 seconds, MODE will be changed into 4 Section MODE.
(1. VOICE RECORDER MODE, 2. MP3 PLAYER MODE, 3. FM RADIO MODE, 4. HOLD ON MODE.)
To select Menu, please press MODE button just once very shortly (less than 1 second).

► BASIC USAGE

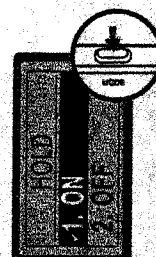


- ③ Press MODE button to exit Menu.

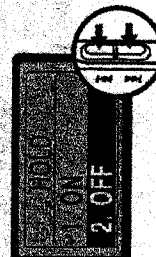


- ④ Press any buttons(except 'MODE' button) to make sure whether 'KEY HOLD' message is displayed on LCD or not.

■ Hold off



- ① While Hold is on, press MODE button.



- ② Press FF/REW button to move to 'OFF', and then press PLAY/STOP button.

* (TV) Main means user's current setting.

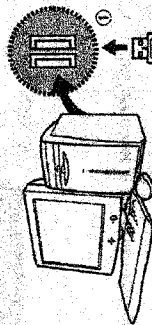
▶ ABOUT THE POWER

■ How to recharge

The player can be recharged by connecting USB Port from PC. When battery icon is blinked, need for recharging.

1. Recharging by connecting USB cable to the player through USB power converter

It is possible to recharge even if the battery is not fully discharged. (No need for discharging)

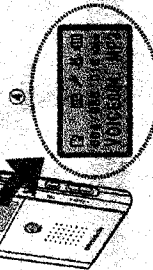


- ① Connect USB cable to USB connector (port) of PC when PC is power on and the left side picture.

- ② Connect USB cable to USB power converter.

- ③ Connect USB cable to USB port of PC when the player is power on.

- ④ Press MODE button of the player and select the following Mode in order: [SYSTEM]—[CHARGE]—[ON]. Then, charging will be started.

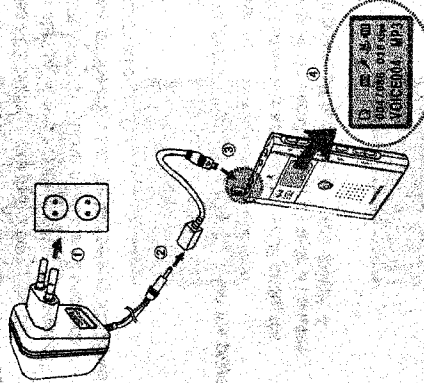


- ★ Please try to recharge the battery when the icon is blinking for saving battery endurance.
- ★ To stop recharging, select the following Mode in order: [SYSTEM]—[CHARGE]—[OFF].
- ★ It will take about 5-6 hours up to full recharging.

▶ ABOUT THE POWER

2. Recharging by connecting DC power converter to USB port of the player. (Optional)

It is possible to recharge even if the battery is not fully discharged. (No need for discharging)



- ① Connect DC—Adaptor to electric outlet on the wall.
- ② Connect DC—Adaptor to DC—Power converter.
- ③ Connect DC—Adaptor to USB port of PC when the player is power on.
- ④ Press MODE button of the player. And select the following Mode in order: [SYSTEM]—[CHARGE]—[ON]. Then, charging will be started.

- ★ Please try to recharge the battery when the icon is blinking for saving battery endurance.
- ★ To stop recharging, select the following Mode in order: [SYSTEM]—[CHARGE]—[OFF].
- ★ It will take about 5-6 hours up to full recharging.

* Cable using method

	File download/Upload	Recharging	VR operation
USB Cable only	O	X	X
USB cable+USB power converter	X	O	O
DC Adaptor+DC Power converter	X	O	O

- ★ It is possible to record, play and listen to FM broadcast when the player is connected with between USB Power converter and DC—Adaptor converter without battery.
- ★ During recharging, user can only listen with earphone. (In case of connecting USB cable, speaker can not be used.)
- ★ In case of connecting USB cable to external USB HUB terminal, the player might be not operated properly according to HUB makers. In this case, please remove external USB HUB terminal from PC and connect the USB cable to USB Port of PC directly.
- ★ In case of using USB extension cable, the player might be not operated properly.

► MENU FOR EACH MODE

■ Menu for audio mode/FM play mode



1. HOLD : Setting for lock the player.
— 1. HOLD ON : Lock the player
— 2. RETURN : Move to higher menu

2. EQUALIZER(EQ) : User controllable Pre-set sound equalizer.

1. NORMAL : Normal balance
2. POP : Balance suitable for pop music
3. ROCK : Balance suitable for rock music
4. CLASSIC : Balance suitable for classic music
5. LIVE : Balance for live music
6. RETURN : Move to higher menu



3. REPEAT : Setting for repeat playback.

1. NORMAL : Plays all stored files one time in order
2. ONE : Repeats the current selected file
3. ALL : Repeats all stored files
4. INTRO : Plays intro part of all stored files
5. RANDOM : Move to higher menu
6. RETURN : Move to higher menu

4. SPEAKER : Setting for internal speaker ON/OFF.

1. ON : Listening with internal speaker
2. OFF : Listening with a Earphone



5. SYSTEM : As the same way of VOICE MODE.

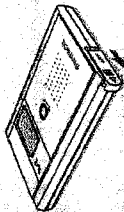
(Please refer to P7)

6. EXIT : Exit Menu.

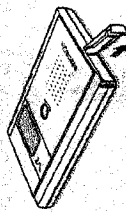
► ABOUT THE POWER

■ How to Insert the rechargeable battery

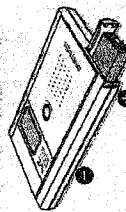
① Slide the battery cover in the direction of the arrow.



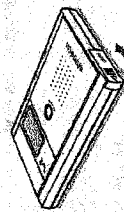
② Open the battery cover in the downward direction as the picture.



③ Insert the rechargeable battery as the picture and make sure to adjust to (+) (-) polarities of the batteries in the compartment.



④ Close the battery cover. (In case of using earphone, the battery life time is 10 hours as a maximum.)



* Check the remaining battery life time before recharging

Battery full charged



Battery little used



Battery almost used



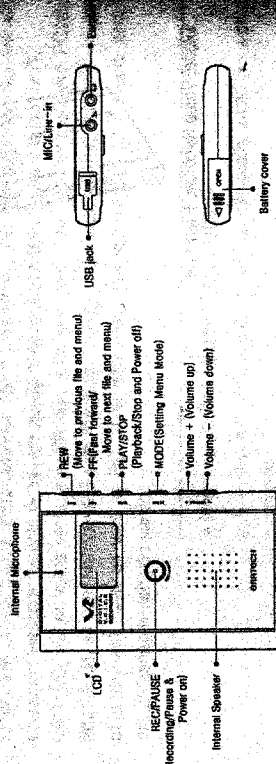
Battery is less



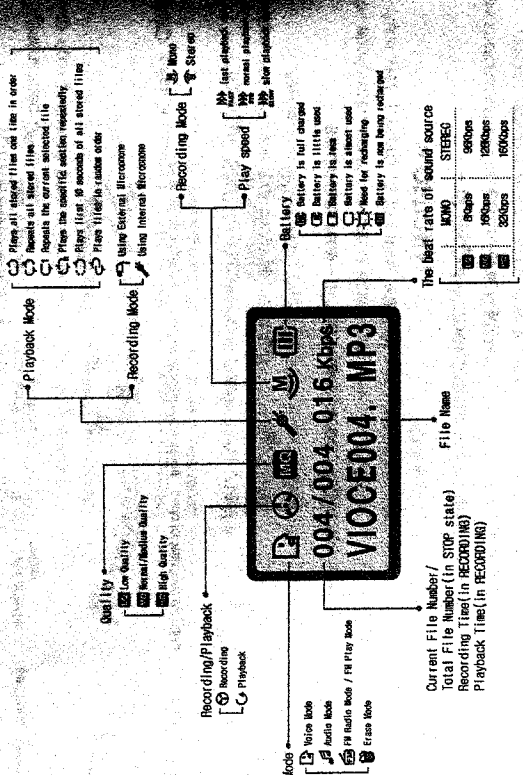
need recharging when icon blinks

► MENU FOR EACH MODE

■ Layout of VR - Location of controls



■ LCD display and icons



► MENU FOR EACH MODE

■ menu for voice mode



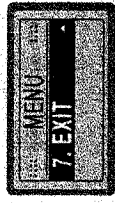
1. HOLD : Setting for lock the player.
 - 1. HOLD ON : Lock the player
 - 2. RETURN : Move to higher menu
2. REPEAT : Setting for repeat playback.
 - 1. NORMAL : Plays all stored files one time in order
 - 2. ONE : Repeats the current selected file
 - 3. ALL : Repeats all stored files
 - 4. INTRO : Plays intro part of all stored files
 - 5. RETURN : Move to higher menu



3. SOURCE : Setting for using internal or external microphone.
 - 1. MIC : Record voice by using microphone (internal or external microphone, Hands-free)
 - 2. LINE IN : Record voice or sound from external audio devices
 - 3. RETURN : Move to higher menu
4. M/S : Setting Mono & Stereo.
 - 1. MONO : Record as Mono sound quality
 - 2. STEREO : Record as Stereo sound quality
 - 3. RETURN : Move to higher menu



5. QUALITY : Setting for sound/recording quality
 - 1. LQ : Lower sound quality than Normal
 - 2. MQ : Normal/Medium sound quality
 - 3. HQ : Higher sound quality than Normal
 - 4. RETURN : Move to higher menu
6. SYSTEM
 - 1. EL TIME : Setting the blinking interval of EL back light (Select among 3/7/15 seconds and OFF)
 - 2. DISPLAY : Setting the luminosity of LCD
 - 3. MEMORY : Displays total & remaining memory capacities
 - 4. VOR : Automatically pause recording if there is no sound or voice (Select among 5/10/15/20/25 seconds)
 - 5. SYNC : The function of making new file by setting up songs & files' recording interval (Select among 5/10/15/20/25 seconds)
 - 6. FIRMWARE : Firmware upgradeable function.
 - 7. FM BAND : Control & Set FM Band according to countries. (Can select FM frequency among US/EUROPE/JAPAN. All countries have same FM frequency except JAPAN Band)
 - 8. CHARGE : The function for charging and recharging in the state of battery is not fully discharged
 - 9. RETURN : Move to higher menu



7. EXIT : Exit Menu.

► PLAYER FEATURES

- VR is a portable digital audio player as well as digital voice recorder. User can save his/her voice as MP3 files.
- VR is very useful/powerful tool for recording a business talk, meeting, consultation, telephone/mobile phone conversation, school lectures, foreign language lesson/lectures, tapes, FM broadcasting, instantaneous ideas, interview. User can not only play the sound or messages repeatedly as high quality original sound but also save into your PC.
- Differently other voice recorders, VR can save your voice as MP3 files without PC (no encoding), so user can listen & play the saved songs and messages through built-in speaker of main-set itself as well as PC. User can enjoy the listening of MP3 music and broadcasting which you saved.

■ High quality recording sound

User can record sound or voice at a high quality audio like a professional sound.

■ Compact & Ultra Slim design(9.5mm)

VR is smaller than a business card with an eye-catching ultra-slim design and its thickness is only 9.5mm.

■ Can save voice as MP3 file format

User can save his/her voice as MP3 files in PC permanently. User can enjoy listening recorded voice and sound at high quality original sound whenever he/she wants.

■ Multi-lingual support

VR supports various languages like a English, Korean, Chinese, Japanese, French etc. it can be displayed on LCD.

■ Very fast data transmission (USB Support)

USB interface allows you to save download time with very fast operation and recharge battery through USB port as well.

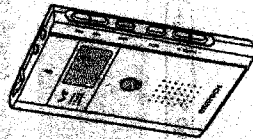
■ High sensitive internal microphone

Adopting omnidirectional high sensitive internal microphone allows you to record and catch the sound of all direction very easily and conveniently.

■ Firmware upgradeable function

VR has Firmware Up-grade ability: User can update the functions very easily and always enjoy emerging standards & enhanced features.

► COMPONENTS & ACCESSORIES



Digital Voice Recorder Main-set



user's manual



external microphone



USB cable



stereo earphone



adaptor for telephone recording



USB power converter



NI-MH 1.2 rechargeable battery



cable for telephone recording



Application CD



earphone connector



Line in/out cable

■ OPTIONAL

- DC adaptor
- DC power converter
- Hands free
- Carrying leather case