



User's Manual

MR-1000 / MR-T1000



Digital Voice Recorder



E-D900-05-3106(B)

Made in Korea

VOICE REORDER

► Caution in use ◀

- place where temperature is very high(60°C)
- place where there is much moisture like bathhouse
- sealed car(especially in summer)
- place where there is direct sunlight or near heating appliances
- place where there is much dust

- When excessive force is inflicted on LCD, that can be the cause of breakdown and display error can occur in terms of LCD characteristics.

*When you listen to recordings, please adjust volume properly, or that can have bad effect on hearing ability.

*Please understand that manufacturer is not responsible for the damage caused by the use of this device and for the claims of third party.

*Please understand that manufacturer is not responsible for the damage from the loss of recordings caused by breakdown, repair, other reasons.

▶ Caution in using battery ◀

*In case that electrolyte is stained with skin or clothes, wash it with clean water immediately, and in case that it gets an eye full, wash it with clean water and get treatment from a doctor.

*Please do not use different kinds of batteries together.

▶ Caution for safety ◀

*When errors like smoldering or transformation by heat, etc. occur, please remove battery immediately.

*Please do not use it in driving or walking. That can be the cause of accident.

- This device is treated with paint finishing which can be harmful to the human body and please do not put it in mouth.

*In using it with PC connection, please be careful for electric shock.

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Characteristics of product

■ Made in Korea

Design, programming, production, after-sale service are made in Korea as one-stop which you can count on.

■ SVOS(Super Voice Operated System)

World's longest sound detection auto recording standby time : about 110 days which is realized by our design technology of low power consumption. (Ex. even after 55 day standby, about 15 hour continuous recording is possible)

■ ALC(Auto Level Control)

Short-distance, long-distance recording is convenient thanks to the built-in auto level control equipment.

■ PIN No.

Security function is reinforced thanks to the setting of password.

■ PCM

High-quality recording is realized thanks to PCM recording of CD sound quality.

■ Compact size

It is simple to carry thanks to small size and light weight.

■ Line-in recording

The conversation recording of wired telephone and mobile phone is possible thanks to the recording function of external device. (Ear microphone for mobile phone recording is an optional item)

■ Recording bit rate

Recording as per situation is possible thanks to various recording modes (PCM,HQ,SP,LP).

■ Learning function

Learning function is supported thanks to section repeat, play speed control.

■ Scan play

Plays back the first part of each file for about 5 seconds in order.

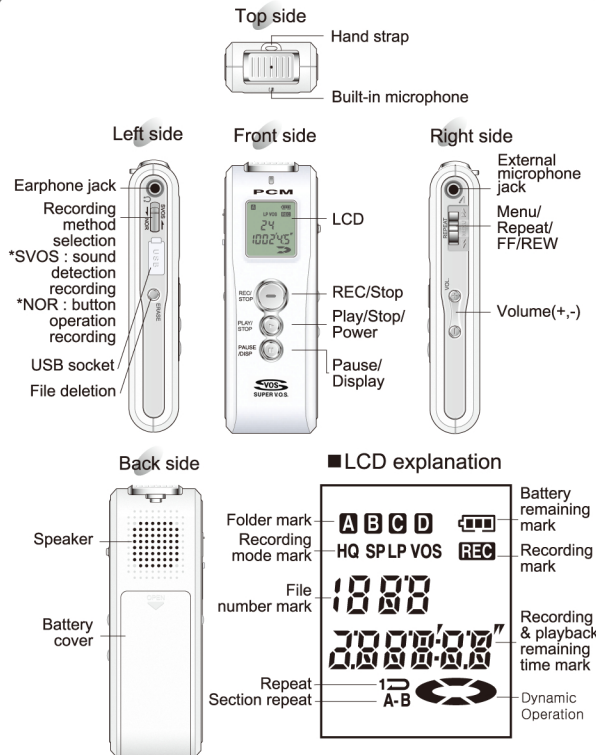
■ No battery

It is possible to record continuously(up to applied memory capacity) by the use of external power through USB jack without battery.

■ USB MSC(mass-storage device class) data storage

*999 recording files per folder are saved in each folder of A,B,C,D and recording files after "full" are saved in next folder automatically.

Naming of each part



Product composition

Basic composition



USB cable



Tel adaptor



Earphone



User's manual



Battery



Pin microphone



Audio cable

Optional items



Ear microphone

Preparation before use

■ Battery inserting

1. Please open the battery cover of main body and insert 2 pieces of "AAA" alkaline batteries and close the battery cover.
(Battery type : "AAA", LR03 or UM-4 or same rank battery)

*Please be sure to exchange batteries in state of stop.



Battery remaining check



power full



used a little



used a lot



time to change battery

*Hours of battery use("AAA" alkaline)

Battery	Recording mode	Speaker playback (VOL.10)	Earphone playback (VOL.10)
"AAA" alkaline	HQ : about 30 hours	HQ : about 24 hours	HQ : about 44 hours

* Supplied battery can have shorter hour of use as demonstration purpose.

♣ How to use battery properly

1. Power is off automatically in one minute when it is not used to manage the hours of battery use effectively.
2. Please keep it after separating battery from unit when it is not used, or that can be the cause of defect by battery leakage.

Preparation before use



Caution

*Please be careful that recording file number after PC connection is different from the display number of product.

product display	file creating number after PC connection
01	001-Voice.mp3
02	002-Voice.mp3
03	003-Voice.mp3
04	004-Voice.mp3
05	005-Voice.mp3
⋮	⋮

→ In case of deleting

▶ in case of recording again after deleting the above 2 files, continuous numbers from 006-Voice.mp3 are created.

■ Recording method selection

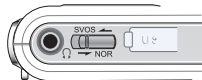


: SVOS(sound detection auto recording) method

When you move switch to the direction of arrow, recording starts automatically after detecting the sound of constant loudness and shut off power automatically when there is no sound.

It is a function of sound detection auto long-time recording (max 110 days) which is only Esonic's original technology.

(*SVOS recording file has a name of SVOS like 001-SVOS.MP3)



*Playback is possible only in the "NOR" mode.



: NORMAL(manual recording by each function button) method

When you move switch to the direction of arrow, the operations of recording, stop, play, etc. proceed manually by designated function button. (* NOR recording file has a name of Voice like 001-Voice.MP3)

Preparation before use

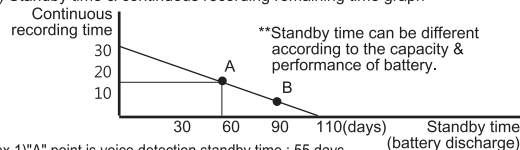
■ Power on/off

1. SVOS (sound detection auto recording) method

In SVOS mode, power is turned on and sound detection auto recording lasts and power is turned off when it is changed to "NOR" mode.

**What is SVOS(Super Voice Operated System) recording?

- 1) SVOS recording is a function to increase the hour of battery use dramatically by minimizing standby power when there is no sound and it can sound detection standby for about 110 days which is the world's longest time.
- 2) SVOS recording is very useful to record voice which is occurred per a few days or dozens of days.
- 3) SVOS recording can do voice detection standby for about 200 days in recording telephone conversation.
- 4) Standby time & continuous recording remaining time graph



ex.1)"A" point is voice detection standby time : 55 days and continuous recording time : 15 hours.

ex.2)"B" point is voice detection standby time : 90 days and continuous recording time : about 5 hours.

2. NOR : NORMAL(manual recording by each function button) method

When you press the button of PLAY/STOP or REC/STOP for more than 1 second, power is turned on. When it is not used for more than 1 minute, power is turned off automatically and when you press the button of PLAY/STOP for more than 2 seconds, power is turned off.



turning on power



standby mode



■ Button function

- ◎ PLAY/STOP () : power on/off, file play, stop
- ◎ REC/STOP () : power on, recording start, recording stop
- ◎ PAUSE/DISP () : pause, scan play, repeat, remaining time for recording
- ◎ MENU/REPEAT () : menu, search, repeat, FF, REW, selection function
- ◎ VOLUME () : volume control
- ◎ ERASE () : recordings deletion


Using voice recorder

■ Recording

1. SVOS : SVOS(sound detection auto recording) method

- 1) Change switch to SVOS , and recording starts after five seconds when there is sound and it creates, saves a file, moves to sound detection standby mode when there is no sound for one minute. When there is sound again, recording starts again and when there is no sound, it repeats sound detection standby.
- 2) During recording, battery remaining only is shown on LCD and during sound standby, there is no mark on LCD.
- 3) To stop SVOS recording, change it to  NOR mode and power is turned off.

*In SVOS mode, recording mode is fixed to HQ

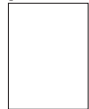
Power on,
recording start,
standby mode 



→ Recording stop





Recording
progress

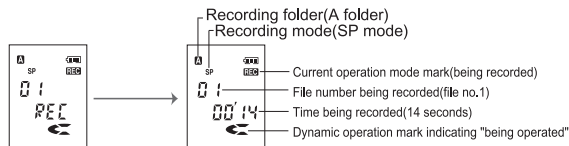


Standby
mode

*For the playback of recording file, turn on the power in
→ NOR mode and play back the file.

2. NOR : NORMAL(manual recording by each function button) method

- 1) When you press the button of REC/STOP() shortly pointing microphone to sound source in state of power on, recording starts with next number from last file in the designated folder.
- 2) In state of power off, press the button of REC/STOP() long more than two seconds, and power is turned on and recording starts.



- 3) When you press the button of REC/STOP() one more time, recording stops.

- ♣ When you press the button of PLAY/STOP() after recording, the last recorded file is played back.
- ♣ Please record after trial recording to prevent recording failure.

Using voice recorder

- ♣ When memory is used out or file numbers in the folder exceed 999 files, it moves to next folders of B,C,D automatically in order and recording starts.



The case that all folders of
A,B,C,D have 999 file numbers



The case that 9 files
use out whole memory.

- ♣ Volume can not be controlled during recording.

■ Hearing recordings





1. When power is turned off, please make power turned on by pressing the button of PLAY/STOP()
2. Please select file number which you want to hear with () button.
3. When you press the button of PLAY/STOP() , it plays back up to the final recording file in folder continuously.
4. Please control volume with the button of VOLUME()
5. Please press the button of PLAY/STOP() one more time to stop playback.



- ♣ Menu does not work during playback

■ Deleting recordings

<deleting one file>

1. After you select a file with () button in state of stop, when you press the button of ERASE() for more than 2 seconds, ERASE mark on LCD blinks and then leave the button of ERASE() and when you press the button of ERASE() one more time slightly, data is deleted and backward file number is pulled forward.

*When ERASE mark blinks, the front of file is played back to confirm the file.

Using voice recorder



<Deleting whole folder data>

1. Please select folder you want to delete with the buttons of MENU() and (←/→).
2. In state of stop and in state of pressing the button of ERASE() first, when you press the button of REC/STOP() for more than 2 seconds together, "ALL ERASE" on LCD blinks and then leave the buttons of ERASE() & REC/STOP() and press the button of ERASE() again slightly, and the whole data of folder is deleted.



<Formatting>

1. When you press the button of REC/STOP() for more than 5 seconds in state of pressing the button of ERASE() first, it blinks converting from "ALL ERASE" mark to "ALL CLEAR" mark. Then, when you leave the buttons of ERASE() & REC/STOP() and press the button of ERASE() one more time slightly, all the files of "A,B,C,D" folders are deleted.



Caution : please be sure to confirm the file to be deleted because deleted recording file can not be restored.

Using voice recorder

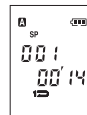
■ Convenient information

Comparison between SVOS recording and VOS recording in NOR mode

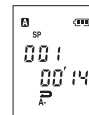
Item	SVOS (Super Voice Operated System)	VOS (Voice Operated System)
Sound detection standby time of battery	Max 110 days	Max 30 hours
Recording starting after sound detection	Recording starts after 5 second	Recording starts right away
Recording file creation	New files are created as per sound detection	Continuous recording in one file
Using environment	Recording voice occurred sporadically for a long period	Recording voice occurred relatively for a short time
Sound detection standby time in recording telephone conversation	Max 200 days	Max 30 hours

<Repeat setting function>

1. Whenever you press the button of PAUSE/DISP shortly one time, you can select one of REPEAT 1(repeating one file), REPEAT ALL(repeating all files in the current folder), RELEASE.



Repeating one file



Repeating one folder

<Using external power>

1. Using PC USB power
When it is connected into PC, the letter of PC LINK is shown on LCD. Then, press the button of PLAY long, and it is changed to operation mode to use external power. When you press the button of PLAY long again, it is changed to PC communication mode.
2. Using DC 5V USB adaptor
When you connect USB cable into USB adaptor and connect the other side into product, power is turned on and is changed to operation mode. (* In using external power, power off is not possible)

Using voice recorder

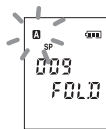
■ Setting menu

- When power is off, please make power turned on by pressing the button of PLAY/STOP (⏮/⏭).
- When you press the button of MENU (⏮/⏭) shortly, mode is changed in order of FOLD -> MOD -> VOS -> LED -> Pln every time you press the button of MENU and you can select the mode you want to set with (⏮/⏭) button.

⊙ Selecting folder

When you press the button of MENU one time shortly in state of stop, it becomes folder changing mode and you can select the folder of A,B,C,D with the button of (⏮/⏭) button.

*The folder with no mark after the folders of A,B,C,D is the folder of MP3 music. When you download music file into music folder after connecting PC, you can listen to music in the product.



⊙ Selecting recording mode

When you press the button of MENU two times shortly in state of stop, it becomes recording mode and you can decide recording mode selecting PCM,HQ,SP,LP with (⏮/⏭) button.



⊙ Selecting VOS

As voice operated system, it is a function to save memory by recording only when there is sound.

When you press the button of MENU three times shortly in state of stop, it becomes VOS mode and you can use it selecting ON, OFF with (⏮/⏭) button.



- ✱ When VOS is on, battery consumption is same as normal recording. (battery life time : 30 hours)

Using voice recorder

⊙ Selecting LED ON/OFF

When you press the button of MENU (⏮/⏭) five times shortly in state of stop, it becomes LED mode and you can select ON/OFF with (⏮/⏭) button. In case of LED OFF, recording LED is not turned on.



⊙ Setting password

It is a security function that you can not play back file when designated 3 numbers do not coincide.

- Press the button of MENU (⏮/⏭) six times shortly in state of stop
- Select ON from "OF" with (⏮/⏭) button and confirm with the button of MENU
- When "0" of first digit among a three-digit number blinks, select number with (⏮/⏭) button and confirm with the button of MENU.
- When first digit is confirmed with the button of MENU, it moves to "0" of second digit automatically and confirm second, third digits in the same way as above.
- When number confirmation is completed, it exits to the setting screen of password and "ON" is shown.
- After you get out of MENU mode by pressing the button of MENU, you should pass the step of password confirmation when you play back the saved recording file or connect USB.
- After one-off confirmation process, it does not check number again. When you turn on power again after power-off, you should pass the confirmation process again.



1)



2)



3)



5)



"000" can not be used in setting password.

- ✱ Even though password is set, when you playback MP3 file in music folder, it does not check password.

✱ How to release password

When you do not remember the password you set, do not insert password and press the button of PLAY in state of pressing the button of ERASE on side, and password is released.

Using voice recorder

■ Convenient function during recording

<PAUSE>

When you press the button of PAUSE/DISP during recording, recording pauses and when you press the button of PAUSE/DISP again or the button of REC/STOP, pause is released.

<DISPLAY function>

When you press the button of PAUSE/DISP for more than 2 seconds during recording, remaining time for recording is displayed.

<REC MONITOR>

When you insert earphone during recording, you can hear recordings.

<INDEX addition>

When you want to separate file during recording, press (◀/▶) button, and file number is increased and a new recording file is created.

<VOS selection>

To save memory during recording, it enables to record only when there is recording signal.

■ Convenient function during playback

<Volume control function>

It adjusts volume from 0 to 30 with the button of VOLUME +, - for the suitable volume during playback.



✱ Basic setting unit is 20.

<Play speed control>

When you want to change play speed, when you press the button of MENU long during playback, it becomes speed mode and when you press the button of MENU shortly after selecting 70,80,90, 100,110,120 with (◀/▶) button, play speed is decided.



Using voice recorder

<NOISE FILTERING>

When you press the button of REC/STOP shortly during playback, noise filtering function works.



LCF
(low-band noise removal)



VOICE
(voice band emphasis)



NOR(recording original)
When you turn off power and turn on power again, it is returned to NOR(recording original)

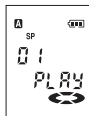
<PAUSE>

When you press the button of PAUSE/DISP during playback, playback pauses and when you press the button of PAUSE/DISP or PLAY/STOP, pause is released.



<DISPLAY function>

When you press the button of PAUSE/DISP for more than 1 second during playback, the remaining time of file in play is displayed.



Using voice recorder

<SCAN PLAY>

When you press the button of PAUSE/DISP long more than 1 second in state of stop, the first part of each file is played back for 5 seconds in order.



*(←/→)button does not work during file scan and when you press the button of PLAY/STOP one time, SCAN is released and it plays normally.



<A-B section repeat>

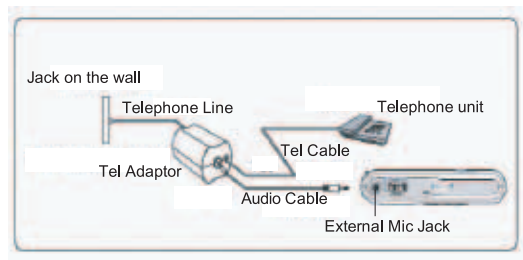
When you press the button of MENU shortly one time during playback, A point is selected and the point you press secondly becomes B point and A-B section repeat is played back.



Using voice recorder

■ Telephone recording

- Please connect tel adaptor, audio cable, tel cable, telephone line as the following picture and press the button of REC/STOP to record telephone conversation.
- In case of recording telephone by SVOS mode, you can record conveniently for max 200 days (standby time) without pressing the button of REC/STOP each time.



<Note>

- If several telephones are connected to a telephone line, the other party's voice could be recorded in low volume. We recommend you to connect a single telephone to a telephone line
- This product can not support a digital telephone and the telephone with different modular jack.

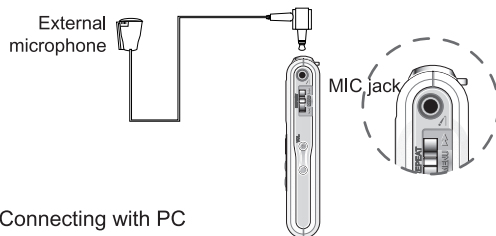
Using voice recorder

■ Connecting with external device

1. Recording with external microphone

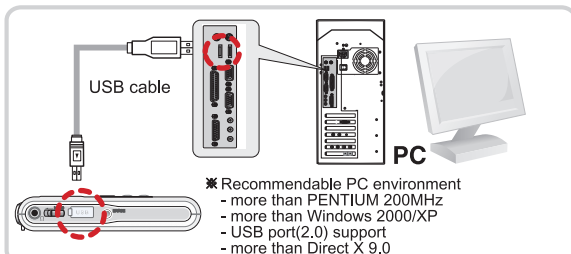
When you connect external microphone into MIC jack, built-in microphone is blocked and you can record with external microphone.

(When you put external microphone in collar, you can act freely and record with clearer sound quality when it is close to sound source.)



■ Connecting with PC

When it is connected with PC as below picture, removable disk(MR-1000) is created and when you double-click it, there are A/B/C/D folders and music folder. A~D folders are for voice recording and music folder is for downloading MP3 files. When you move to MP3 folder(no marking folder after D folder) in product, you can hear MP3 music.



Trouble shooting

In case that there is an error in operation, please check the followings.

It can not display on LCD.

Check 1. Isn't battery used out? —————> Please change it with a new battery.

Check 2. Is the polarity of battery right? —————> Please put battery properly adjusting + -.

It can not record.

Check 1. Isn't recording number or space full? —————> Please delete unnecessary contents.

Check 2. Isn't battery used out? —————> Please change it with a new battery.

It can not play back.

Check 1. Aren't there any recording files? —————> Please check recording number.

Check 2. Isn't battery used out? —————> Please change it with a new battery.

Sound does not come out of speaker.

Check 1. Doesn't the volume become "0" ? —————> Please adjust the volume.

Check 2. Isn't earphone inserted? —————> Please take out the earphone plug.

Sound does not come out of earphone.

Check 1. Doesn't the volume become "0" ? —————> Please adjust the volume.

Check 2. Is earphone inserted properly? —————> Please insert earphone plug completely.

Specification

Item	Specification		
Model No.	MR-1000 / MR-T1000		
Recording time per mode	Memory	4GB	8GB
	PCM	24Hrs	48Hrs
	HQ	65Hrs	130Hrs
	SP	130Hrs	260Hrs
	LP	520Hrs	1040Hrs
Battery life time	Normal Rec.	About 30Hrs	
	SVOS Mic Rec.	About 110 Days	
	SVOS Tel Rec.	About 200 Days	
Temperature	0 ~ 40 °C		
Power	Battery	"AAA" x 2 PCS	
	External	DC 5V/500mA adaptor or PC USB	
PC O/S	Windows 2000/XP/Vista/7/8, Mac OS X, Linux		
No. of folders & files	4 folders(A,B,C,D), 999 files per folder		
Dimension & Weight	31(W) x 90(H) x 16(D) mm/34g		

The specification and appearance of this product can be changed without prior notice for quality improvement.

Warranty Card

1. This product is manufactured through the strict quality control and testing process.
2. The breakdown occurred under normal use within warranty period shall be repaired free of charge within one year.
3. In case that product breakdown is occurred, please contact the place where you purchase product.
4. Even within the warranty period, the cases relevant to the charged service of warranty card shall be charged at real cost.

* Charged service

- Defect caused by user's internal modification.
- Defect caused by natural disasters like fire, salt damage, flood, earthquake, etc.
- Defect out of warranty period.

Product Name	Digital voice & phone recorder	
Model No	MR-1000 / MR-T1000	
Purchasing Date		
Purchasing Place		
Telephone No.		
Warranty Period	1 Year	
Others		
Customer	Name	
	Address	
	Tel.	