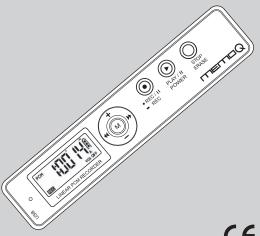


# Made in Korea



## Model No. : MR-250



CEFC C MSIP-REM-ESO-MR-250

Design and accessories can be changed without prior notice to improve the quality of product. We appreciate your purchasing of this product.

- \* Please read the manual before use, understand all functions, and use it.
- \* Please write purchasing date and purchasing place, etc. in warranty card and keep it.
- \* Without warranty card, free after-sale service is not possible.

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## 1. Caution for safety

- \* This manual is about contents for user's safety and for the prevention of property loss and be sure to read it before use and to keep for safety.
- \* We are not responsible for the damage caused by the use of this product and for the third party's claim for compensation.
- \* We are not responsible for the damage caused by the loss of recordings by breakdown, repair, etc.
- \* Recordings can be deleted by the abnormality of product memory caused by computer virus and be sure to treat computer virus.
- \* Please save important recordings in computer often.
- \* Do not use it illegally.

#### $\rangle\rangle$ Caution and warning for body ((

#### 

- \* Do not disassemble and remodel body. That can be the cause of fire and breakdown.
- \* Hearing loudly for a long time by using earphone can be a bad influence on hearing.
- \* Do not use it in low temperature and high temperature. That can be the cause of fire and breakdown by short circuit caused by dew condensation.
- \* Do not leave it alone at the humid place or oily place. That can be the cause of fire and breakdown.

#### ▲ Caution

- \* Do not impact or drop product. That can be the cause of breakdown.
- \* Do not wash the surface of product by using alcohol, benzene, thinner, etc.
- \* Do not hear by using earphone or operate product during driving or walking due to the risk of traffic accident.

#### $\rangle\rangle$ Caution and warning for battery ((

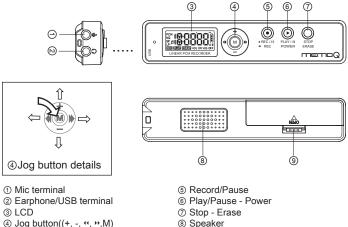
#### 

- \* Do not cut, disassemble, heat, impact battery.
- \* Do not put it with metallic object. That can be the cause of fire due to friction.
- \* Use prescribed battery(AAA Alkaline) after checking polarity(+,-) exactly.
- \* Do not charge battery. That can be the cause of fire or injury by rupture.
- \* When it is not used for a long time(more than 1 month), separate battery from product and keep it. That can be the cause of fire or injury by lachrymal fluid.

#### ▲ Caution

In case that the lachrymal fluid of battery is stained with skin and clothes, wash it with clean water immediately and in case of contact with eyes, do not rub eyes and wash it with running clean water immediately and be sure to seek medical advice.

2. Name of each part

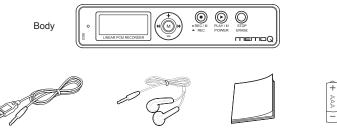


④ Jog button((+, -, ••, ••,M)



Battery cover

#### 3. Composition



USB cable

#### Stereo earphone

User's manual

Battery

#### 4. LCD explanation

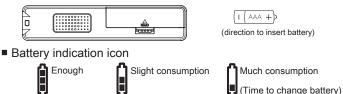
- Voice recording mode/play mode
- ② Music play mode
- ③ Time and file no. mark
- ④ Battery remains mark
- ⑤ Recording mark
- ⑥ Play mark
- ⑦ Erase mark
- ⑧ Voice operated recording system mark
- Recording folder mark

#### 

#### 5. Preparation before use

#### Inserting battery

- \* Open the battery cover of body, put one battery according to polarity, close cover.
- \* Use battery of "AAA" type, LR03, UM-4 or equal product.



#### Hours of battery use

\* Hours of battery use in recording is by the state of earphone separation.

Recording	about 25 hours
Play	about 23 hours(In hearing with earphone : volume 20, MP3, 1kHz, 128kbps)

## ▲ Caution

- \* When you put battery, check the polarity of battery like above picture.
- \* Attached battery is for testing and its life can be short.



\* When you remove battery during operation like recording, pause, play, deletion, recordings can be damaged and never remove battery.

#### 6. Power on/off

- Turning on power
- When you press and hold the button of play more than 3 seconds, power is turned on.
- When you press and hold the button of record more than 3 seconds, power is turned on and recording starts right away.
- XELLE



- Turning off power
  - When you press and hold the button of play more than 3 seconds in the state of standby, power is turned off.
  - If there is not any operation for about 3 minutes in state of stop, power is turned off automatically.

#### Using external power

You can operate it without battery by using external power(PC power/USB AC adaptor).

- Using the USB port power of PC
  - Connect USB cable to the earphone/USB terminal of product and then connect it to the USB port of PC. USb.
  - After a while, LCD is changed to
  - When you press and hold the button of play more than 3 seconds, it is changed to standby status, you can use the function of "record and play".
  - In case of using external power, file upload/download can not be used.
- Using the power of AC/DC adaptor(5V)
  - Connect USB cable to the earphone/USB terminal of product and then connect it to USB AC adaptor.
  - After a while, LCD is changed to



- When you press and hold the button of play more than 3 seconds, it is changed to standby status, you can use the function of "record and play"
- In case of using external power, file upload/download can not be used.



#### 8. Connecting to PC(file copy/save/delete)

- Connect USB cable to the earphone/USB terminal of product and then connect it to the USB port of PC.
- You can use the function of "copy, delete, play, format' in PC in the same way as general USB memory.
- When it is connected to PC, "MEMOQ(removable disk) is created. when you
  double-click it, there are the folders of VOICE, MUSIC.
- When you double-click the folder of VOICE, there are the folders of A, B. recordings are saved in the folder(basically A) set in the product.
- You can save MP3 music files in the folder of MUSIC and play back music in the MUSIC mode of product.



<Screen of removable disk> <Folder structure of recorder>

#### ▲ Caution

\* When you separate product from PC, perform "safe removal of hardware" to prevent the data damage.

#### 9. Date and time setup

- Connect USB cable to the earphone/USB terminal of product and then connect it the USB port of PC.
- When you double-click "MEMOQ(removable disk)", there is "Time Setup".
- When you double-click and run Time Setup, the window of "date\_time.cfg creator" is open in the wallpaper. Click the button of Start.
- Check whether date\_time.cfg file is created and change it to standby status by pressing and holding the button of play, and "date and time setup" is completed automatically.



#### \land Caution

\* When battery is separated or discharged, date is initialized Before recording, perform time setup again and use it.

#### 10. Changing VOICE/MUSIC

 When you push and hold jog button to the direction of volume(+) more than 3 second in standby status, it is changed from VOICE mode to MUSIC mode, from MUSIC mode to VOICE mode.



- You can play back or delete a recording file saved in the folder of VOICE in VOICE mode.
- You can play back or delete music saved in the folder of MUSIC in MUSIC mode.

#### 11. Recording

- After turning on power by pressing and holding the button of play more than 3 seconds, press the button of record shortly, and recording starts.
   (or press and hold the button of record more than 3 seconds in the state of power-off, and recording starts right away.)
- When you press the button of record during recording, it pauses and when you press the button of stop, recoding ends.
- Initial recording mode is set to PCM(super high quality sound). You can change it to HQ(high quality sound), SP(middle quality sound), LP(low quality sound) by set-up.
- Recording files are saved in the set folder(A,B) and basic folder is set to "A".
- In case of battery shortage during recording, power is turned off after saving automatically.
- In case of the shortage of memory capacity or maximum file numbers, "FULL" is indicated.

(Delete unnecessary files or delete after backup into PC, and secure memory capacity.)



#### <Screen of recording progress>

#### ▲Caution

- \* Recording files can be saved in the folders of A, B up to 999 files each.
- \* When recording function is abnormal or you want to set back to initial value, perform "CLEAN". (refer to 17th page)

(warning : all date are deleted in performing "CLEAN".)

- \* When you change the recording file name of recorder randomly by PC, it can not work normally.
- \* File you have changed its name or have downloaded in PC should be saved in the folder of MUSIC and be played back in the mode of MUSIC.
- \* Do not separate battery during recording. That can be the cause of breakdown.

#### 12. Playing

- Select the wanted file number by pushing jog button to the direction of previous(<<), next(>>) shortly in the screen of standby.
- When you press the button of play shortly at the selected file number, the file indicated on screen is played back.



<Screen indication during playback>

- When you press the button of play one more time during playback, it pauses and when you press it again, it is played back.
- When you push and hold jog button to the direction of previous(<<), next(>>) during playback, you can make fast movement(rewind, fast-forward)

#### 13. Adjusting volume

- You can adjust volume level by pushing jog button to the direction of volue(+), volume(-) shortly.
- When you turn off and on power, volume 20 is reset in case of more than volume 21 to protect hearing.







<How to operate volume(-)> Push job button down

<How to operate volume(+)> Push jog button up

#### 14. Checking recording time

 When you press mode button(M) shortly in the screen of standby, the recording time of selected file is indicated. (Error of 1~3 seconds or so can be made according to file)



Mode button(M)



(Push the center)

#### 15. Checking recording remains

- When you push and hold jog button to the direction of volume(-) more than 3 seconds in the screen of standby, recording remains time is calculated and indicated automatically according to the set recording sound quality.
- When recording remains are more than 10 hours, "minute", "second" is not indicated and "hour" only is indicated as "H"





<Recording remains more than 10 hours>

#### 16. Deleting recording file

- Select the file to delete by pushing jog button to the direction of previous(<<), next(>>) shortly.
- When you press and hold the button of stop more than 5 seconds at the selected file, the mark of ERASE blinks and this file is played back for 10 seconds to prevent deleting error. When you press the button of stop shortly one more time while it is played back for 10 seconds, file is deleted.
- If you press other button during deleting or you do not press the button of stop within 10 seconds, deleting is canceled automatically.



<Screen to enter deletion>







<Screen standing by deletion> <Screen sorting file out after deletion>

#### ▲Caution

- \* Deleted file can not be restored and be sure to delete it after checking.
- \* When file is deleted, next file of the number you deleted is pulled up automatically.

 Deletion

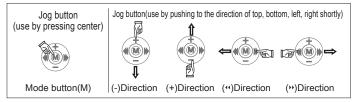
 (File before deleting)
 001
 002,
 003,
 004,
 005 .....

 (File after deleting)
 001
 002,
 003,
 004,
 005 .....

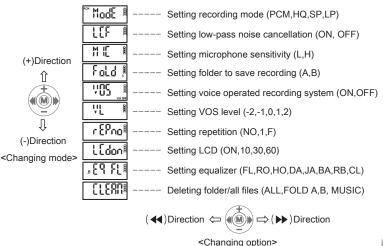
#### 17. Setting mode

You can set recording sound quality(MODE), noise cancellation(LCF), microphone sensitivity(MIC), recording saving folder(FOLD), voice operated recording system(VOS), VOS level(VL), repeat(REP), LCD, equalizer(EQ), file deletion(CLEAN) in mode.

- When you press and hold mode button(M) more than 3 seconds in standby screen, it is moved to setting screen.
- You can move to mode to set by pushing jog button to the direction of volume(+), volume(-) shortly.
- You can select option by pushing jog button to the direction of previous(<<), next(>>) shortly.







#### 17-1. Setting recording mode(MODE)

You can select recording mode among PCM(super high quality sound), HQ(high quality sound), SP(middle quality sound), LP(low quality sound).

- When you press and hold mode button(M) more than 3 seconds in standby screen, it is moved to setting screen.
- You can select option(PCM, HQ, SP, LP) by pushing jog button to the direction of previous(<<), next(>>) shortly.



- When you move to next mode or press mode button(M) more than 3 seconds in the setting screen you selected, set-up is saved and it is moved to standby screen.
- \* Memory saving time per recording mode

Mode	2GB	4GB	8GB	16GB
PCM(super high quality)	about 6 hours	about 12 hours	about 24 hours	about 48 hours
HQ(high quality)	about 36 hours	about 72 hours	about 144 hours	about 288 hours
SP(middle quality)	about 144 hours	about 288 hours	about 576 hours	about 1152 hours
LP(low quality)	about 288 hours	about 576 hours	about 1152 hours	about 2304 hours

#### ▲ Caution

\* Recording saving time can be different according to the number of folder, file, etc.

#### 17-2. Setting low-pass noise cancellation(LCF)

It is a function to record with clearer sound quality by removing low-pass noise.

- When you press and hold mode button(M) more than 3 seconds in standby screen, it is moved to setting screen.
- You can move to the mode of LCF by pushing jog button to the direction of volume(+), volume(-) shortly.
- You can select option(on, oF) by pushing jog button to the direction of previous(<<), next(>>) shortly.

<Noise cancellation ON> <Noise cancellation OFF>

 When you move to next mode or press mode button(M) more than 3 seconds in the setting screen you selected, set-up is saved and it is moved to standby screen.

#### 17-3. Setting mic sensitivity(MIC)

You can set mic sensitivity according to the distance of sound source and size of sound.

- You can move to setting screen by pressing and holding mode button(M) more than 3 seconds in standby screen.
- You can move to MIC mode by pushing jog button to the direction of volume(+), volume(-) shortly.
- You can select option(L, H) by pushing jog button to the direction of previous(<<), next(>>) shortly.

<Mic sensitivity basics>

<Mic sensitivity amplification>

 When you move to next mode or press mode button(M) more than 3 seconds in the setting screen you selected, set-up is saved and it is moved to standby screen.

#### ▲ Caution

- \* Set it to suit the distance of sound source you want to record
- \* It is useful when you record long distance or low sound.

#### 17-4. Setting folder to save recording(FOLD)

You can select folder(A, B) to save recording file.

- You can move to setting screen by pressing and holding mode button(M) more than 3 seconds in standby screen.
- You can move to FOLD mode by pushing jog button to the direction of volume(+), volume(-) shortly.
- You can select option(A, B) by pushing jog button to the direction of previous(<<), next(>>) shortly.

 When you move to next mode or press mode button(M) more than 3 seconds in the setting screen you selected, set-up is saved and it is moved to standby screen.

## ▲ Caution

\* It is convenient if you sort and manage folder according to place.

#### 17-5. Setting voice operated recording system(VOS)

VOS is a function to record when sound more than certain size is detected and to save memory.

- You can move to setting screen by pressing and holding mode button(M) more than 3 seconds in standby screen.
- You can move to VOS mode by pushing jog button to the direction of volume(+), volume(-) shortly.
- You can select option(VOS ON, VOS OFF) by pushing jog button to the direction of previous(<<), next(>>) shortly.



 When you move to next mode or press mode button(M) more than 3 seconds in the setting screen you selected, set-up is saved and it is moved to standby screen.

#### Caution

- \* In VOS, battery consumption is same as general recording.
- \* In VOS, saved file can be different from real recording time.

#### 17-6. Setting VOS level(VL)

You can set VOS level to be insensitive or sensitive.

- You can move to setting screen by pressing and holding mode button(M) more than 3 seconds in standby screen.
- You can move to VL mode by pushing jog button to the direction of volume(+), volume(-) shortly.
- You can select option(-2, -1, 0, 1, 2) by pushing jog button to the direction of previous(<<), next(>>) shortly.



 When you move to next mode or press mode button(M) more than 3 seconds in the setting screen you selected, set-up is saved and it is moved to standby screen.

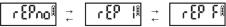
#### ▲Caution

\* Adjust sensing level to suit place and situation and use after testing.

#### 17-7. Setting repetition(REP)

You can set repetition to no repeat(NO), file(1), current folder(F).

- You can move to setting screen by pressing and holding mode button(M) more than 3 seconds in standby screen.
- You can move to REP mode by pushing jog button to the direction of volume(+), volume(-) shortly.
- You can select option(NO, 1, F) by pushing jog button to the direction of previous(<<), next(>>) shortly.



REP NO : It plays back from the file of current position to the last file of folder one time and stops.

REP 1 : It repeats a file indicated in current screen until it stops.

REP F : It repeats files in selected folder until it stops.

 When you move to next mode or press mode button(M) more than 3 seconds in the setting screen you selected, set-up is saved and it is moved to standby screen.

#### 17-8. Setting LCD

You can set LCD to be turned off automatically during recording.

- You can move to setting screen by pressing and holding mode button(M) more than 3 seconds in standby screen.
- You can move to LCD mode by pushing jog button to the direction of volume(+), volume(-) shortly.
- You can select option(ON, 10, 30, 60) by pushing job button to the direction of previous(<<), next(>>) shortly.



LCD ON : turned on all the time.

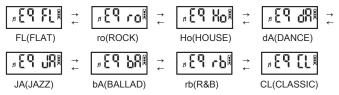
LCD 10, 30, 60 : LCD is turned off after 10, 30, 60 seconds during recording.

 When you move to next mode or press mode button(M) more than 3 seconds in the setting screen you selected, set-up is saved and it is moved to standby screen.

#### 17-9. Setting Equalizer(EQ)

In playing back music file saved in the folder of MUSIC, it makes sound effect.

- You can move to setting screen by pressing and holding mode button(M) more than 3 seconds in standby screen.
- You can move to EQ mode by pushing jog button to the direction of volume(+), volume(-) shortly.
- You can select option by pushing job button to the direction of previous(<<), next(>>) shortly.



 When you move to next mode or press mode button(M) more than 3 seconds in the setting screen you selected, set-up is saved and it is moved to standby screen.

#### ▲ Caution

- \* It is not applied in VOICE mode.
- \* EQ is applied only in playing back with earphone.

#### 17-10. Deleting all files/files in folder(CLEAN)

You can delete all data and set back to initial value or delete files in the selected folder(A,B,MUSIC) at a time.

- You can move to setting screen by pressing and holding mode button(M) more than 3 seconds in standby screen.
- You can move to CLEAN mode by pushing jog button to the direction of volume(+), volume(-) shortly.
- You can select option(ALL, A, A, B) by pushing job button to the direction of previous(<<), next(>>) shortly.



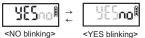
ALL : all data(recording files, music files, etc.) saved in memory are deleted, setting value is initialized.

FOLD : all data saved in MUSIC folder are deleted.

FOLD A : all data saved in A folder are deleted.

FOLD B : all data saved in B folder are deleted.

 When you press mode button(M) shortly in selected option, the screen of "YES", "NO" is indicated to confirm deletion.





- To proceed deletion, select "YES" by pushing jog button to the direction of previous(<<), next(>>) shortly and press mode button(M) shortly.
- To cancel, select "NO" and return to the previous screen by pressing mode button(M) shortly.

#### ▲ Caution

- \* Before performing CLEAN, be sure to save important files in PC.
- \* Deleted files can not be restored and be sure to delete after confirmation.
- \* In case that there are many saved files, run time can be long.
- \* CLEAN is performed only in case that battery remains are on more than 2 levels to protect system.
- \* In case that battery remains are on 1 level, perform CLEAN after changing battery.
- \* Never separate battery during CLEAN. That can be the cause of breakdown.

#### 18. Recording by connecting to external device

• It is a function to record by using external device like external mic, wired telephone, etc.

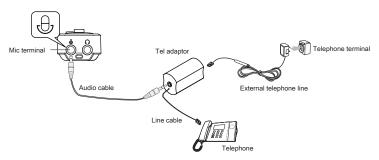
#### Recording phone call by using ear mic(option)

 After putting ear mic in ear and connecting its plug to the mic terminal of product, when you hold the receiver or cellphone to ear next to ear mic and talk, press recording button, and phone conversation is recorded.



#### Recording phone call by using tel adaptor(option)

- Connect audio cable to mic terminal and connect other end to tel adaptor.
   Connect the line cable of telephone to tel adaptor and telephone like below picture.
- Press the record button of body shortly, and recording starts.
- Press stop button shortly, and it stops and recording is saved.



#### ▲Caution

- \*The design of tel adaptor can be changed without prior notice.
- \* Keyphone, internet phone, or some phones can not be recorded according to model.

# MEMO

Model		MR-250			
Memo	<u></u>	2GB	4GB	8GB	16GB
	PCM	about 6 hours	about 12 hours	about 24 hours	about 48 hour
Recording time	HQ	about 36 hours	about 72 hours	about 144 hours	about 288 hou
per sound quality	SP LP	about 144 hours about 288 hours	about 288 hours	about 576 hours about 1152 hours	about 1152 hou about 2304 hou
Hours of Recording		about 288 hours about 576 hours about 1152 hours about 2304 hours about 25 hours			
battery use				8(1kHz,128kbps, 44	.1kHz), Vol 20}
Recording folder VOICE			999 Files(A)	+ 999Files(B)	
Speaker output				'mm, 8ohms)	
Practical maximum output(earphone)				5mW / 16 ohm	
Dimensi	Dimension			5 x 22.5 x 14.5 Alkaline x 1)	o (mm)
Usage enviro		Temper		0 °C, Humidity:	20~80%
	Accessory			, USB cable, N	
			IVII 1	200	
Model No			MR-2	250	
Purchasing da					
Purchasing pl	ace				
Tel			Purchasin	g amount	
Others					
Warranty per	Warranty period		1 ye	ar	
ية Name					
Addre	SS				
리 Tel					
Paid se	rvice				
– Defe	ct cause	ed by carele	ess use.		
				odification.	
		ed by natur			
		, flood, ear		c. computer vi	
		anty card o			us.

Manufacturer : ESONIC Co., Ltd Country of origin : Made in Korea Website : http://www.esonic.co.kr