

Linear PCM(WAV) Stereo Digital Recorder DDR-7000 User Manual



Thank you for purchasing DIASONIC DDR-7000, a digital voice recorder and audio player. For optimum performance and safety, please read this manual carefully before using the product and follow the instruction correctly. It is recommended to keep this manual near the product for convenient use.

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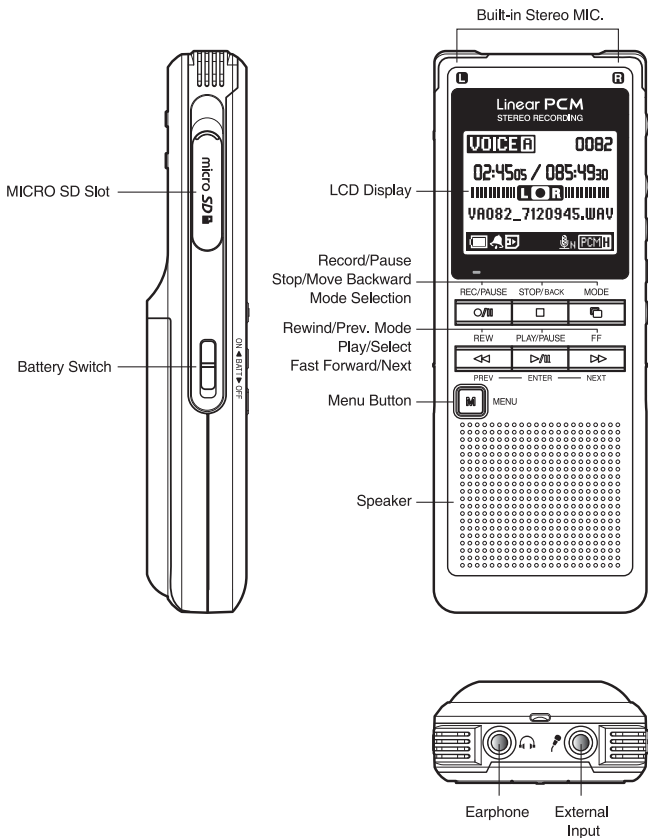
Thank you for purchasing DDR-7000 manufactured by Diasonic Technology Co., Ltd. Please read this manual carefully before using the product you purchased. Remember that you should keep this manual in a safe place not to lose it, as this manual contains important information for the operation of the product. In case the user loses the manual, Diasonic Technology does not separately provide a manual because one manual is only allocated to each product.

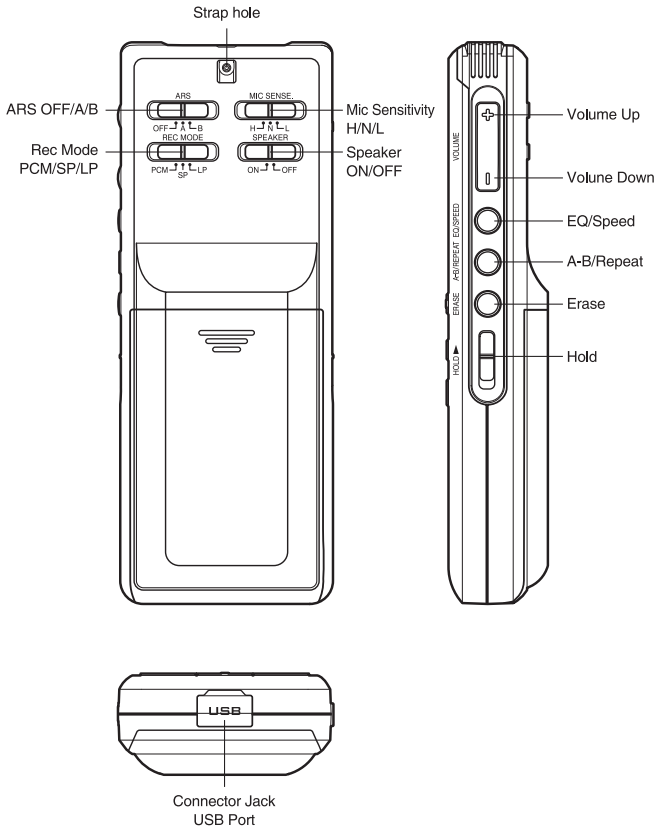
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- Use of MP3 files is limited to the personal purposes only. Servicing or providing MP3 files for commercial purposes will be against the copyright act of Korea.
- Reproduction of files is prohibited for other than personal purposes by law.

- Do not store the device in any place with following conditions:
 - High temperature (50°C or higher)
 - Exposure to the direct sun rays or a heating device
 - Inside the car with closed windows (especially, in summer)
 - Humid place such as the bathroom
- When removing dust, use soft cloth in dry. Do not use organic solvent such as thinner or benzene or wet cloth.
- Do not place a debit card or a bus pass near the speakers. The magnetic interference may occur, which will damage the card.
- Do not place the device near a magnet. The speakers may not be workable.
- Diasonic Technology does not take any responsibility for the loss of data caused by other actions than repair services by Diasonic Technology and accordingly, users are kindly requested to backup the current files in advance for the safety purpose.
- Do not repair, disassemble, or remodel the device at your own will.
- Do not use the product in a place where use of electronic devices is prohibited.
- Do not use this device when driving.
- Do not heat up or short the main body or the battery.
- When using an auxiliary device, leave a gap between the auxiliary device and the main device.
- Incorrect use of the product by the user or a third party or static electricity or electric shock loaded on the product may cause loss of or change in the data saved in the product during repair services or replacement of the battery. Backup the data in the external memory.
- Diasonic Technology does not take any responsibility for any damage caused by the use of this device or damage claim made by a third party and accordingly, users are kindly requested to backup the current files in advance for the safety purpose.
- Do not heat up or disassemble the battery near heating devices. The harmful elements in battery may damage your eyes or skin.
- In that case, clean the part with fresh water instantly and consult a doctor immediately.
- Using the earphones for a long time may damage user's hearing ability.
- Contents of the user manual are subject to change without prior notice for performance improvement.

Parts and Components





Components

• Basic Acc.

Set



Alkaline
Battery



USB Cable



Stereo
Earphone



Strap



User Manual



• Option Acc.

Line-in
Cable



Telephone
Adaptor



Ext.Mic.



AC - Adaptor

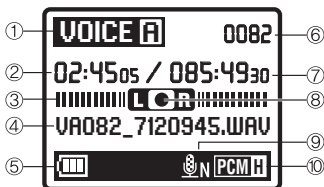


Rechargeable
Battery



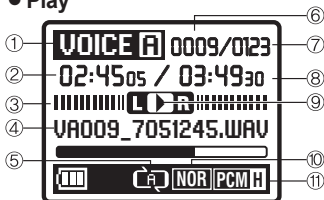
LCD Display

● Record



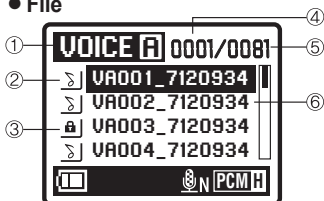
- | | |
|--------------------|-----------------------------|
| ① Recording Folder | ⑥ Total File numbers |
| ② Recording Time | ⑦ Remaining time for Record |
| ③ Level Display | ⑧ Record Display |
| ④ File Name | ⑨ Record Sensitivity |
| ⑤ Battery Status | ⑩ Record Mode |

● Play



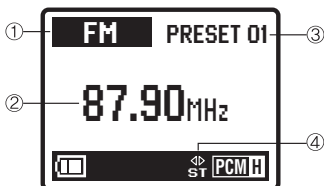
- | | |
|------------------|-----------------------------|
| ① Playing Folder | ⑦ Total File numbers |
| ② Playing Time | ⑧ Remaining time for Record |
| ③ Level Display | ⑨ Play Indicator |
| ④ File Name | ⑩ Equalizer |
| ⑤ Play Mode | ⑪ Quality Display |
| ⑥ Current File | |

● File



- | | |
|----------------------|-------------|
| ① Current Folder | ⑥ File Name |
| ② File Icon | |
| ③ Lock Icon | |
| ④ Current File | |
| ⑤ Total File numbers | |

● FM



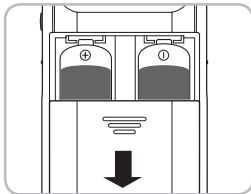
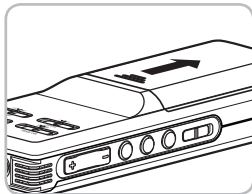
- | |
|------------------|
| ① FM Mode |
| ② FM Frequency |
| ③ Preset Display |
| ④ Stereo Display |

Power Supply

Use LR6, AA Alkaline, Ni-MH or Ni-CD battery.
You can recharge Ni-MH or Ni-CD battery while using them.

● Replacement Battery

1. Press down the battery cover and then slide cover to the direction as indicated.
2. Insert two batteries with correct polarity and close the battery cover.



● Battery Power Remaining Status



Battery status at the bottom of LCD display indicate the remaining battery power.



Change the battery when “Low Battery” status appears.

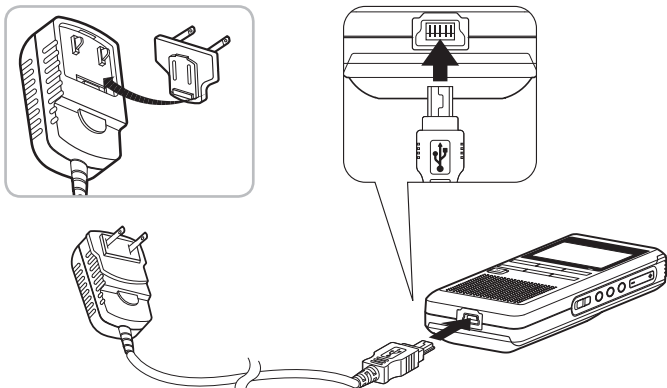
● Operating time (At the middle volume of earphone)

AA 2700mAh Use rechargeable battery	General Recording	Auto Recording
MP3 playback	About 50hrs	
PCM recording	About 30hrs	About 21hrs
SP(128Kbps) Recording	About 32hrs	About 22hrs
LP(16Kbps) Recording	About 35hrs	About 30hrs

※ Voluming up and playing it with speaker can make the play time shorter than when it is played with earphone.

● Using AC Adapter

1. Connect AC adapter to AC adapter plug.
2. Open the cover of USB port and connect the AC adapter to the USB port as the drawing shows below.



● Recharge

1. Connect AC adapter.



You can recharge Ni-MH or Ni-CD battery by connecting the device with AC adapter while using it.

2. Connect USB.



Select recharging mode after connecting to the USB port. After choosing recharging mode, press ►/|| button to start recharging the battery.

● Recharging Time

Rechargeable Battery	Recharge with adapter	Recharge with USB port
2700mAh	Approx. 6hrs	Approx. 12hrs

● Notes for Recharge

- Recharge the battery only where the temperature is in 0~40°C. Recharging in high temperature may cause to activate the recharge protection system and block the replenishment.
- You can recharge nothing but Ni-MH, Ni-CD battery.
- Replace the battery with new one, if the battery lifetime gets shorter.
- You can not recharge the battery any longer when the battery lifetime is up.
- You can not recharge the rechargeable battery with general alkaline battery, using both of them at the same time.

● Notes for using battery

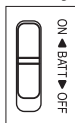
- Use same kind of battery.
- Remove the battery from the device if you will not use it for a long time.
- Do not peel off the cover of battery.
- Place the battery in a case when it is carried or stored. If the battery contacts with metal like keys or rings, it may cause overheating or a short.
- Do not connect the battery polarities with +, - serially. It may cause fire.
- Do not make the battery contact with the consent. It may cause an explosion.
- Do not disassemble or modify the battery at your will. It may cause a dangerous accident such as fire, battery explosion, etc.
- If the harmful elements of battery contaminated your eyes or skin, clean the area with fresh water and consult a doctor immediately.



If the LCD display does not work with the new battery, check the polarity of battery immediately. If the LCD display does not work even when the polarity of battery is right, remove the battery from the device immediately and request for repairing service as soon as possible.

Basic Operation

● Battery On/Off Switch



Select "ON" to connect the power.

※ If you will not use the device for a long time, select "OFF" to disconnect the power and prevent the loss of electric current.

● Turn On Power



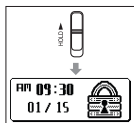
Press and hold ▶/|| button for 3 seconds to turn on the power.

● Turn Off Power



Press and hold for more than 3 seconds to turn off the power.

● Hold Switch



Move the hold switch up to block the function keys.

● Mode



Press the Mode button to select Voice, Encode, Music or FM mode.

● Menu



Press Menu button to enter the menu mode and set the function.

Using Micro SD Card

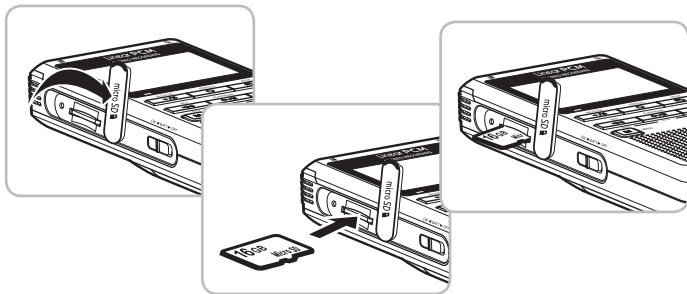
You can save, play, copy or move the recorded files to the internal memory and the external Micro SD card.

The device supports Micro SD card and SDHC card.

※ Do not eject SD card or turn off the power when it is performing operations such as record, copy, move, erase or combining files. It may damage the data.

● Insert Micro SD Card

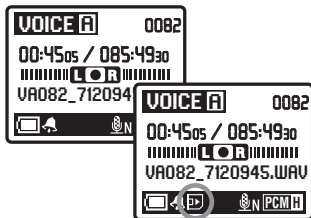
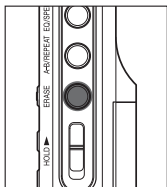
1. Open the micro SD slot cover and slide the SD card into the slot completely.
2. Check if the right side of the micro SD card is up.
3. Push micro SD card inward to be unlocked and ejected.



● Memory Selection

Press REPEAT/A-B button to select the internal memory or the micro SD card.

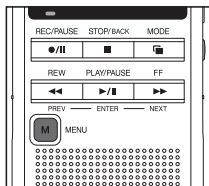
▶ Icon is displaying at the bottom of LCD while using it.



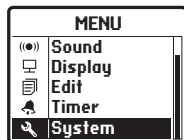
Time & Date Setup

Set the current time by using TIME SET DATE from menu.

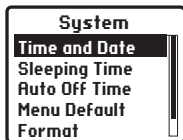
1. Press MENU button.



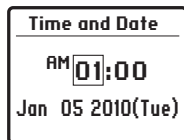
2. Using <<, >> button, select SYSTEM by pressing >|| button.



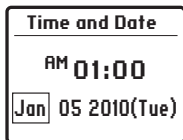
3. Press >|| button to select TIME SET DATE.



4. Using <<, >>, >|| button, set time/min.



5. Set month/day/year as the same way.



How to Use Keys














● Voice, Encode Mode

- SHORT : press & hold the key for less than 1 second.
- LONG: press & hold the key for more than 3 seconds.

Key	Operation	Stop Mode	Play Mode	Record Mode
	SHORT	Play a current selected file	Pause playing	
	LONG		Scan a file by 1/8 portion.	
	SHORT	Skip to the next file	Skip to the next file and play it	
	LONG	Skip the next files continuously and automatically	Play a file fast forward	
	SHORT	Return to the previous file	For less than 5 seconds after start playing: Return to the previous file For more than 5 seconds after start playing: Return to the beginning of the current file	
	LONG	Skip the previous files continuously and automatically	Play a file fast backward	
	SHORT		Stop playing	Stop recording
	LONG		Turn power off	Turn power off
	SHORT	Start recording		Pause recording
	SHORT	Change mode		
	SHORT	Select menu	Select menu	
		Volume Up	Volume Up	Volume Up
		Volume Down	Volume Down	Volume Down
	SHORT		Control EQ	
	LONG		Control play speed	
	SHORT	Set memory	Section Repeat On/Off (A↔B)	
	LONG		Select repeat option	
	SHORT	Erase file		

● Music Mode













- SHORT: press & hold the key for less than 1 second.
- LONG: press & hold the key for more than 3 seconds.

Key	Operation	Stop Mode	Play Mode
	SHORT	Play a current selected file	Pause playing
	LONG		Scan a file by 1/8 portion
	SHORT	Skip to the next file	Skip to the next file and play it
	LONG	Skip the next files continuously and automatically	Play file fast forward
	SHORT	Return to the previous file	For less than 5 seconds after start playing: Return to the previous file For more than 5 seconds after start playing: Return to the beginning of the current file
	LONG	Skip the previous files continuously and automatically	Play a file fast backward
	SHORT		Stop playing
	LONG	Turn power off	Turn power off
	SHORT	Start recording	
	SHORT	Change mode	Change mode
	SHORT	Select menu	Select menu
		Volume Up	Volume Up
		Volume Down	Volume Down
	SHORT		Control EQ
	LONG		Control play speed
	SHORT	Set memory	Repeat a section On/Off (A↔B)
	LONG		Select repeat option
	SHORT	Erase file	








For New Users

● FM Mode

- SHORT: press & hold the key for less than 1 second.
- LONG: press & hold the key for more than 3 seconds.

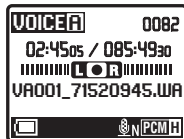
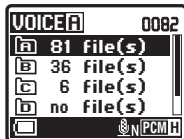
Key	Operation	Stop Mode
	SHORT	Frequency, Preset channel mode
	LONG	Preset auto-setting
	SHORT	Increase FM frequency by a frequency step
	LONG	Search for FM station upward automatically
	SHORT	Decrease FM frequency by a frequency step
	LONG	Search for FM station downward automatically
	LONG	Turn power off
	SHORT	Start recording
	SHORT	Change mode
	SHORT	Select menu
		Volume Up
		Volume Down
	SHORT	Preset channel memory mode
	SHORT	Set memory

Menu List

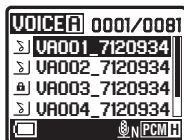
Record 	Record Quality	PCM(WAV) XHQ 24bit 44KHz SHQ 16bit 44KHz HQ 16bit 22KHz	SP(MP3) 256Kbps 44KHz 128Kbps 44KHz 96Kbps 44KHz	LP(MP3) 64Kbps44KHz 32Kbps32KHz 16Kbps8KHz						
	Security Rec	LCD On / Off	LED On / Off							
	Channel	Stereo	Mono							
	Input Source	EXT Mic	Line in	Tel						
	Sync Record	Off	3 Second (S)	4 Second (S)	5 Second (S)					
	Low Cut Filter	On	Off							
	High Cut Filter	On	Off							
	Auto Level	On	Off							
	Play 	Repeat Setup	Normal	1File 1Time Play	1File Endless	All File Endless	Random Play			
A-B Repeat		A-B	One Touch							
Play Speed		x0.5	x0.7	x1.0	x1.3	x1.5				
Sound 	Equalizer	Normal	Rock	POP	Classic	Jazz				
	Initial Volume	10-25								
Display 	Backlight Time	Off	3 Second(s)	5 Second(s)	10 Second(s)	20 Second(s)	30 Second(s)	Continued		
	Contrast	01-10								
	Scroll Speed	Off	Slow	Normal	Fast					
	ID3 TAG	On	Off							
	Language									
Edit 	Erase	Just this file	All In Folder							
	Copy	Just this file	All In Folder							
	Move	Just this file	All In Folder							
	Split	Yes	No							
	Combine	Folder Select	File Select							
	Lock / Unlock									
	Voice Rec. Edit	Off	Add	Overwrite	Insert	Delete				
Timer 	Set Timers	Timer	Status	Memory	Source	Preset				
	Review Timers	01-10								
	Timers Function	ON	OFF							
System 	Time and Date	Time Set	Day Set							
	Sleeping Time	Off	15 Minute(s)	30 Minute(s)	45 Minute(s)	60 Minute(s)	75 Minute(s)	90 Minute(s)	105 Minute(s)	120 Minute(s)
	Auto Off Time	Off	1 Minute(s)	3 Minute(s)	5 Minute(s)					
	Menu Default	Yes	No							
	Format	Internal Memory	SD Card							
	System Info	Version	Free Int.	Total Int.	Free SD	Total SD				
	FM Band	World	Japan	Euro						

Recording

1. Choosing mode, move to the voice mode and select a folder.
2. Press **●/■** to record in the current index number.



3. Press **■** to stop recording.

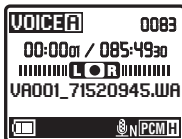
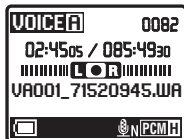


- ※ File will not be saved unless it is recorded more than 3 seconds.
- ※ Check the battery status before recording.

Partial Recording

If the recording time is too long or the file needs to be divided, use partial recording.

1. Press **▶▶** while recording.



Recording Quality Setting

- Set Voice, Encode or FM recording quality.
- Select PCM, SP or LP recording mode by using Rec Mode switch on the back of the recorder.
- The file can be recorded with various bit rates of sound quality by setting PCM, SP or LP in the 'Recording Quality Setting' of the menu.
- Stereo or Mono recording can be set in the menu.

Recording Quality Setting

Set recording quality by using Rec Mode switch on the back of the recorder.

- ◆ PCM: High quality mode with linear PCM format
- ◆ SP: Standard recording mode with MP3 format
- ◆ LP: Long time recording mode with MP3 format

PCM



SP

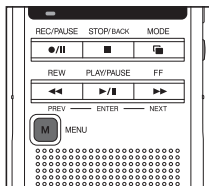


LP



Specific Recording Quality Setting

1. Press MENU button.



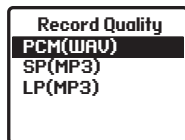
2. Press **▶/||** to select Record.



3. Press **▶/||** to select Record Quality.

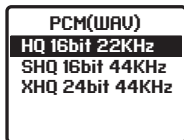


4. Press **▶/||** to select PCM, SP or LP.

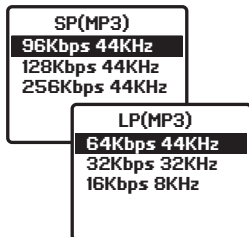


Record

5. Press ►/|| to select the specific quality for each mode.

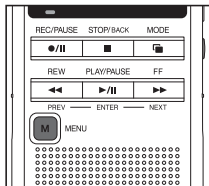


6. Recording starts with the specific quality for SP, LP mode.



● Channel Setting

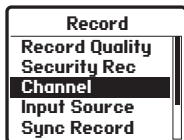
1. Press MENU button.



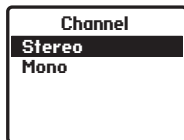
2. Press ►/|| to select Record.



3. Press ►/|| to select Channel.



4. Press ►/|| to select Stereo or Mono.



● Voice Recording (Memory 2GB)

- PCM Mode

Recording Mode	XHQ		SHQ		HQ	
Recording Quality	44K 24BIT		44K 16BIT		22K 16BIT	
Channel	MONO	STEREO	MONO	STEREO	MONO	STEREO
Recording Time	4H0M	2H0M	6H0M	3H0M	12H10M	6H05M

- SP Mode

Recording Mode	256KBPS	128KBPS	96KBPS
Channel	MONO, STEREO	MONO, STEREO	MONO, STEREO
Recording Time	16H40M	33H30M	44H45M

- LP Mode

Recording Quality	64KBPS	32KBPS	16KBPS
Channel	MONO, STEREO	MONO, STEREO	MONO, STEREO
Recording Time	67H10M	134H20M	268H45M

Recording through External Device

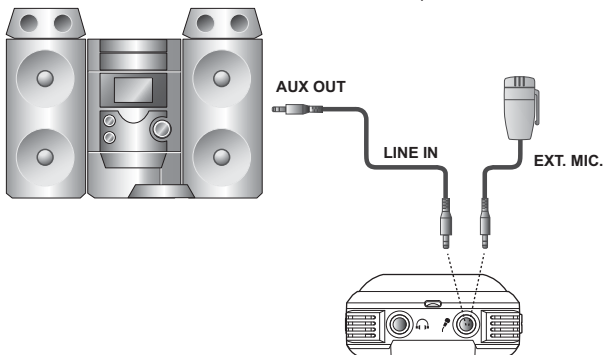
You can record the sound by connecting the Line-in cable with an external audio device, telephone or an external microphone.

● Connecting Line-in Cable

1. Set the menu according to the external device to be connected.
2. Connect the digital recorder with the external device, using the Line-in cable.
3. Press **●/■** to start recording.

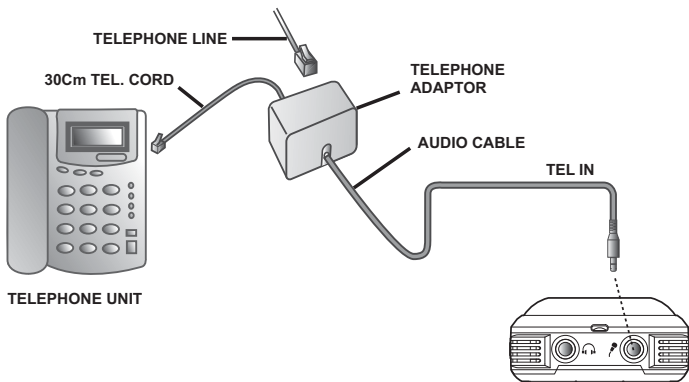
● Connecting Audio Device & External Microphone

1. Connect the Line-in cable to the audio device.
2. Plug the Line-in cable connected with audio device or the external mic into the Line-in port.



● Connecting Telephone

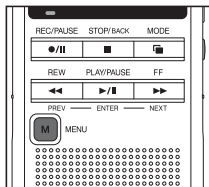
1. Connect the telephone adapter to the telephone line and the Line-in cable.
2. Plug the Line-in cable connected with the audio device into the Line-in port.



Setting Connection with Audio Device

The recorded file will be saved in the encode folder.

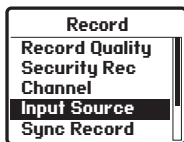
1. Press MENU button.



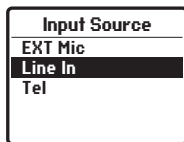
2. Press ►/|| to select Record.



3. Press ►/|| to select Input Source.



4. Press ►/|| to select Line In.



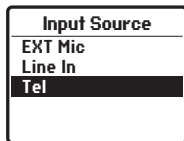
Setting Connection with Telephone

The recorded file will be saved in the voice folder.

1. Follow the step 1, 2, 3, as you set the connection with audio device.



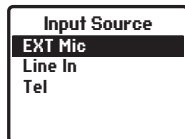
2. Press ►/|| to select Tel.



External Mic Setting

The recorded file will be saved in the voice folder.

1. Follow the step 1,2,3, as you set the connection with audio device.
2. Press **▶/||** to select Ext Mic.

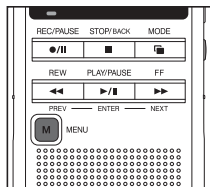


Automatic Control of Recording Volume

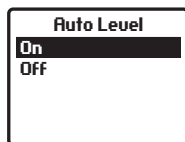
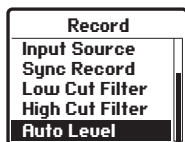
You can automatically control the recording volume by using Auto Level Control.

This function maintains the steady volume within the range set.

1. Press MENU button.
2. Press **▶/||** to select Record.



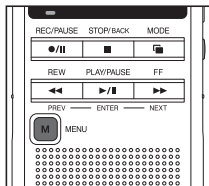
3. Press **▶/||** to select Auto Level.
4. Press **▶/||** to select On.



Security Recording

Recording starts with LCD & LED off. If you press and hold ►/|| during the security recording, you can check the recording status by REC displayed.

1. Press MENU button.



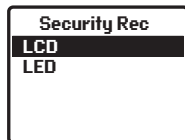
2. Press ►/|| to select Record.



3. Press ►/|| to select Security Rec.

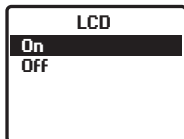


4. Press ►/|| to select LCD or LED.



5. Press ►/|| to select On and activate the security recording.

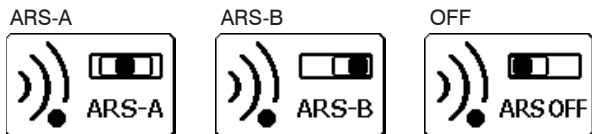
LCD and LED are turned off in voice recording.



Automatic Recording System

- Auto Recording System makes it possible to record the sound automatically detected by the device. If there is no sound, ARS pauses the recording or stands by new recording from the next file according to ARS mode.
 - The ARS feature works in voice recording according to ARS mode.
- ◆ ARS-A: The several contents are recorded into one file and if there is no sound, ARS pauses the recording.
 - ◆ ARS-B: If there is no sound, ARS stops the recording and stands by new recording from the next file.

Set ARS mode by using ARS switch on the back of the recorder.



Recording Sensitivity Control

Control the microphone sensitivity according to the situation.

- ◆ HIGH: It is for recording the sound in the wide place such as auditorium, lecturing room.
- ◆ NORMAL: It is for recording the sound in the normal place such as conference room, hall.
- ◆ LOW: It is for recording the sound from short distance. (Interview)

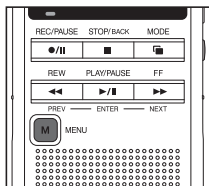
Control the recording sensitivity by using Mic Sens. switch on the back of the recorder



Sync Recording

Set the detecting time in no sound. This function makes it possible to record the music separately by detecting time in no sound interval from the external audio recording.

1. Press MENU button.



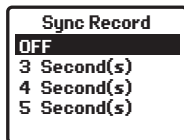
2. Press ►/|| to select Record.



3. Press ►/|| to select Sync Record.



4. Press ►/|| to select Off, 3S, 4S, 5S.



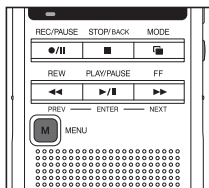
Filtered Recording

Improve the recording quality by using filter.

※ This feature only works with ALC ON.

- Low Cut Filter : It filters the low frequency such as wind sound.
- High Cut Filter : It filters the high frequency such as machinery sound.

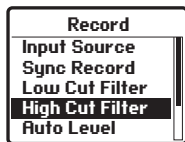
1. Press MENU button..



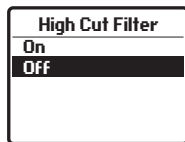
2. Press ►/|| to select Record.



3. Press ►/|| to select Low Cut Filter or High Cut Filter.



4. Press ►/|| to select On. Each filter is activated on recording.



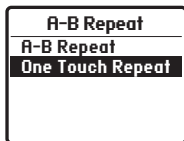
Section Repeat(A-B)

Repeat a section by setting A-B/Repeat while it plays.

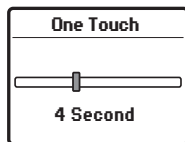
- One Touch Repeat : Repeat the fixed section.
- A-B Repeat : Set the repeating section at your will.

● One Touch Repeat

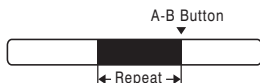
1. Select One Touch Repeat from A-B Repeat of the menu.



2. Press ▶/■ to select 2, 4, 8, 16 seconds.



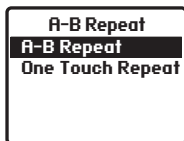
3. Press Repeat/A-B during the playback. Repeat the specific section.



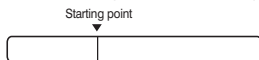
4. Press Repeat/A-B again to deactivate the section repeat.

● A-B Repeat

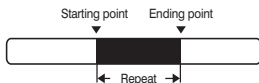
1. Select A-B Repeat from A-B Repeat of the menu



2. Press Repeat/A-B when it plays. Set the starting point of repeating section.



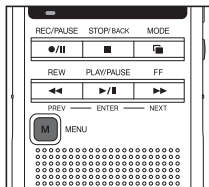
3. Press Repeat/A-B again. Set the ending point of the section and repeat it.



4. Pressing Repeat/A-B again deactivates the repeating the section.

● Section Repeat Setting

1. Press MENU button.



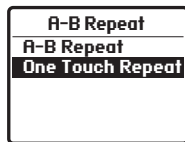
2. Press ▶/|| to select Play.



3. Press ▶/|| to select A-B Repeat.








4. Press ▶/|| to select One Touch Repeat or A-B Repeat.

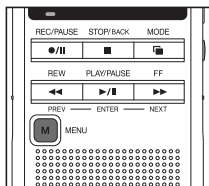


|| Playing Order Control

Change playing order by controlling Repeat/A-B from menu. Press and hold Repeat/A-B for more than 2 seconds to change the order of play.

-  Play a selected file and then STOP
-  Play a selected file repeatedly
-  Play all files one time and then STOP
-  Play all files repeatedly
-  Play in random

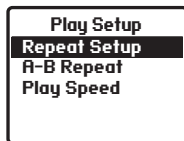
1. Press MENU button.



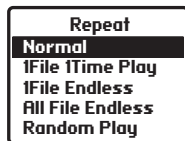
2. Press ▶/|| to select Play.



3. Press ▶/|| to select Repeat Setup.

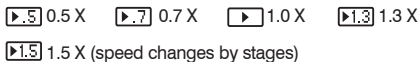


4. Press ▶/|| to select the playback order.

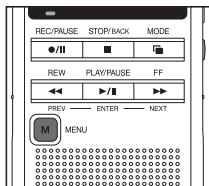


Play Speed Control

- Control the speed of playing by setting Play Speed from menu.
- Press and hold EQ/SPEED for more than 2 seconds to change play speed during the playback.



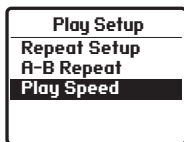
1. Press MENU button.



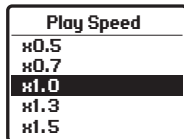
2. Press ▶/|| to select Play.



3. Press ►/|| to select Play Speed.



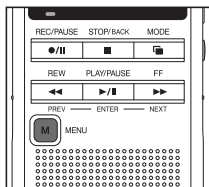
4. Press ►/|| to select a speed.



EQ Setting

- Set EQ by controlling Equalizer from menu.
- Press EQ/SPEED with short key to change EQ during the playback.
- EQ will be set to Normal, Rock, Pop, Classic or Jazz.

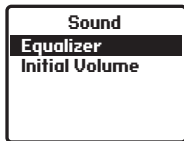
1. Press MENU button.



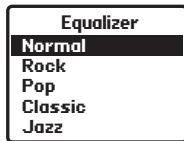
2. Press ►/|| to select Sound.



3. Press ►/|| to select Equalizer.



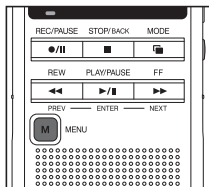
4. Press ►/|| to select a desired EQ.



Initial Volume Setting

In case of turning the power back on or speaker off, the volume will be automatically set at a default level.

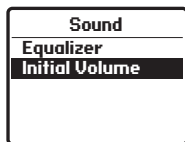
1. Press MENU button.



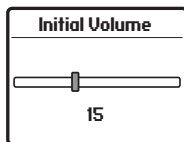
2. Press ►/|| to select Sound.



3. Press ►/|| to select Initial Volume.



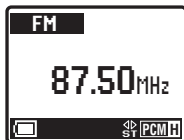
4. Press ►/|| to select a value from 10 to 25.



FM Radio Reception

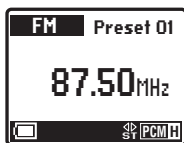
An earphone takes a role of an antenna. Please use it after straighten. Also please move to good reception area in order to listen to FM radio if it emits noise in indoor or poor reception area.

1. Change the mode to select FM.
2. Use <<, >> to change the frequency.



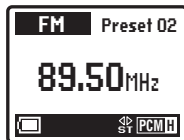
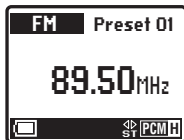
FM Preset Control

1. Press >|| to select Preset Mode.
2. Use <<, >> to change the Preset Channel.



FM Preset Memory

1. Press EQ/SPEED button and Preset Display will blink. Use <<, >> to change the Preset.
2. Press >|| to store the displayed channel.



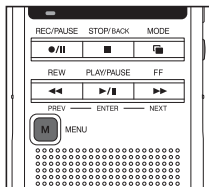
FM Preset Auto-Setting

1. Press and hold ►/|| for more than 2 seconds while receiving FM channel.
2. The device searches for stations automatically and stores them as Preset Channel.

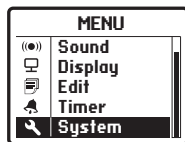
FM Band Selection

- USA : 87.5MHz ~ 108.0MHz, 100KHz step
- EU : 87.5MHz ~ 108.0MHz, 50KHz step
- JAPAN : 76.0MHz ~ 108.0MHz, 100KHz step

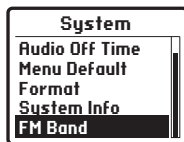
1. Press MENU button.



2. Press ►/|| to select System.



3. Press ►/|| to select FM Band.



4. Press ►/|| to select World, Japan or Euro.

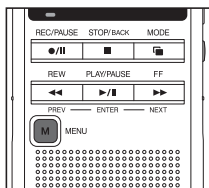


Timers Setting

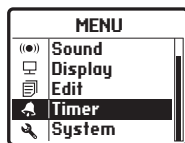
Timer recording will be saved in the TM folder under Voice folder.

- ※ Timers can be activated with battery switch on.
- ※ Timers can not work while the device connecting with PC for recharge or being in use

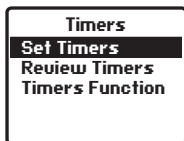
1. Press MENU button.



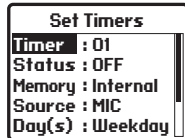
2. Press ►/|| to select Timers.



3. Press ►/|| to select Set Timers.



4. Press ►/|| to select each item.



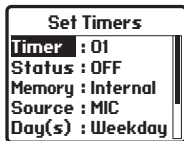
Timers Setting

Setting Timer Record

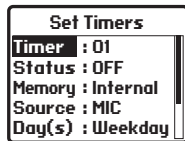
● Timer Number Setting

- You can set the timer recording or playing by indexing number from 1 to 10.

1. Press **▶/■** to select Timers.



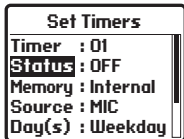
2. Press **▶/■** to select Timer Number.



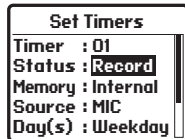
● Function Setting

- Record: It is for Timer Recording.
- Play: It is for Timer Playing or Receiving FM channel.
- OFF: Timer does not work.

1. Press **▶/■** to select Status.



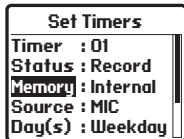
2. Press **▶/■** to select a function.



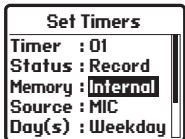
● Memory Setting

- Internal Memory: Use the internal memory
- External Memory: Use micro SD card. Micro SD card should be inserted in the device.

1. Press **▶/■** to select Memory.



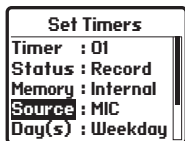
2. Press **▶/■** to select Internal or External.



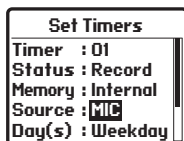
● Timer Record Source Setting

- FM: It is for Timer Recording FM.
- MIC: It is for Timer Recording through Mic or external input.

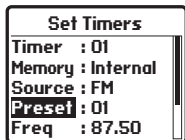
1. Press ►/■ to select Source.



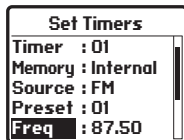
2. Press ►/■ to select FM, MIC or LINE.



3. In case of choosing FM, press ►/■ to select Preset.



4. Use <<, >> to select the frequency without preset.

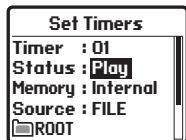


Timers Setting

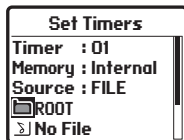
● Timer Play Source Setting

- FM: It is for Timer Playing FM.
- FILE: It is for Timer Playing a specific file.

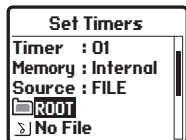
1. Press ►/■ to select Source.



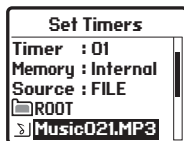
2. Press ►/■ to select FM or File.



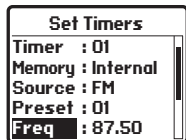
3. In case of Timer Playing of file, use <<, >> to select a folder.



4. Use <<, >> to select a file.

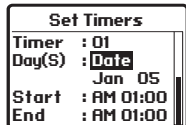


5. In case of Timer receiving FM, follow the same way as you do for Set Timer Record Source.

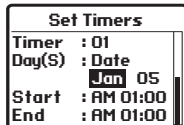


● Timer Date Setting

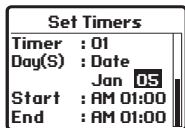
1. Press ►/■ to select Date.



2. Press ►/■ to select month.

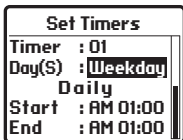


3. Press ►/■ to select Date.

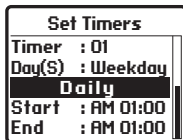


● Timer Day Setting

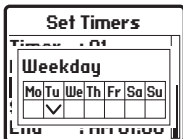
1. Press ►/■ to select Day.



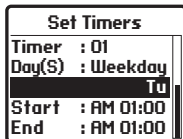
2. Press ►/■ to select Daily.



3. Press ►/■ to select the day you want.

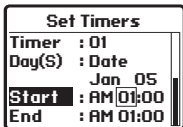


4. Press STOP to complete setting.

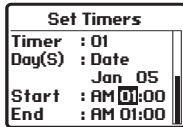


● Timer Start Setting

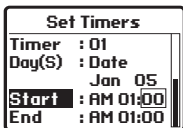
1. Press ►/■ to select hour.



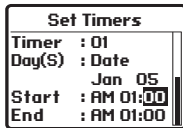
2. After input of hour, press ►/■.



3. Press ►/■ to select minute.



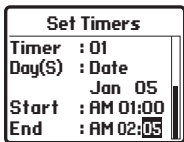
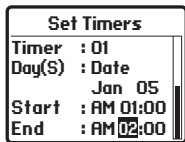
4. After input of minute, press ►/■.



Timers Setting

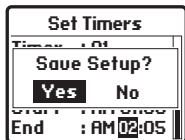
● Timer End Setting

1. Follow the same steps as you do for Set Timer Start.



● Complete Setup Timers

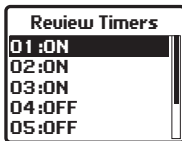
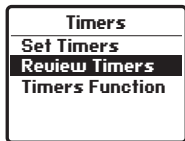
1. Complete setup timers and press STOP.
2. Press ►/|| to save setup with cursor on Yes.



Timers Review

Review and change Timers.

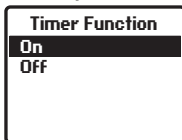
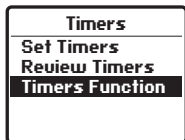
1. Press ►/|| to select Review Timers.
2. Check the saved timers.



Timers Activation

- On : Activate timers function. - Off : Deactivate timers function.

1. Press ►/|| to select Timers Function.
2. Press ►/|| to select On or Off.



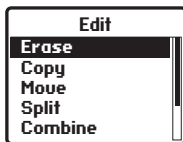
- ※ If the power goes off or micro SD card is removed while copying, moving or deleting the file, the file can be damaged. Backup the file to prevent loss of data.
- ※ You can divide or combine the recorded files from the device.

Erase Recorded File

1. Press **▶/||** to select Edit from the file.



2. Press **▶/||** to select Erase.

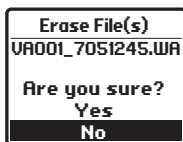


● Erase One File

1. Press **▶/||** to select Just This File.



2. Confirm yes and press **▶/||** to erase the current file.

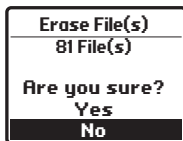


● Erase All Files

1. Press **▶/||** to select All In Folder.

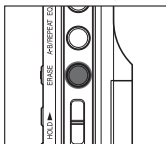


2. Confirm yes and press **▶/||** to erase all the files in the folder.

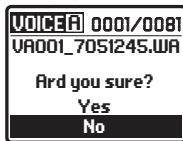


● Erase File on Browsing

1. Press ERASE button to delete a file while browsing.



2. Confirm yes to delete the file while displaying Erase.



Copy Recorded File

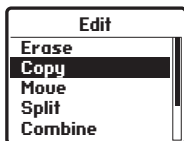
Copy and paste file into the same folder from the internal memory to micro SD card or vice versa.

※ Press MENU button if you want to stop copying the file on processing.

1. Press ►/|| to select Edit.



2. Press ►/|| to select Copy.

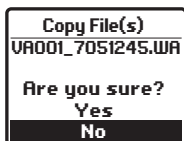


● Copy One File

1. Press ►/|| to select Just This File.

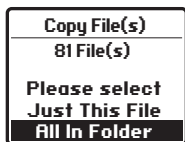


2. Confirm yes and press ►/|| to copy the current file.

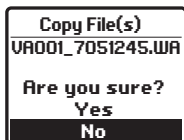


● Copy All Files

1. Press ►/|| to select All In Folder.



2. Confirm yes and press ►/|| to copy all the files in the folder.

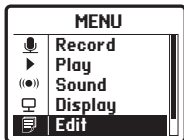


Move Recorded File

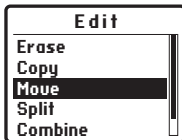
Move file to the same folder from the internal memory to micro SD card or vice versa.

※ Press MENU button if you want to stop moving the file on processing.

1. Press **▶/||** to select Edit.



2. Press **▶/||** to select Move.

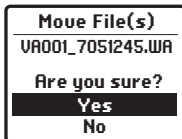


● Move One File

1. Press **▶/||** to select Just This File.

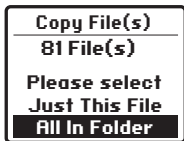


2. Confirm yes and press **▶/||** to move the current file.

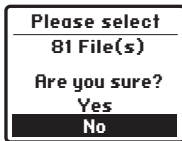


● Move All Files

1. Press **▶/||** to select All In Folder.

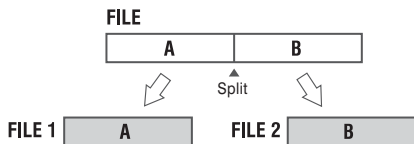


2. Confirm yes and press **▶/||** to move all the files in the folder.



Split Recorded File

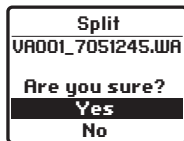
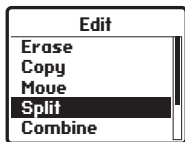
Split the current displaying file at the specified point.



1. Pause at the dividing point while playing.
2. Press MENU button. Press $\blacktriangleright/\mathbb{I}$ to select Edit.



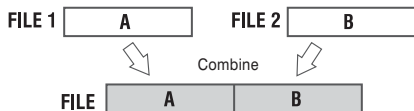
3. Press $\blacktriangleright/\mathbb{I}$ to select Split.
4. Confirm yes and press $\blacktriangleright/\mathbb{I}$ to split the current file.



Combine Recorded Files

Combine the current displaying file and new file.

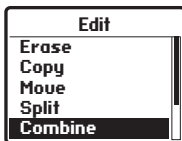
* You can only combine files with same quality.



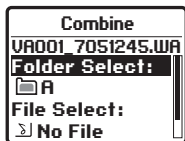
1. Press **▶/■** to select Edit.



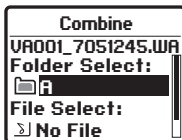
2. Press **▶/■** to select Combine.



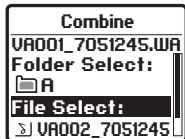
3. Press **▶/■** to choose Folder Select.



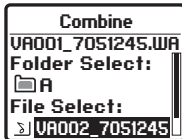
4. Select the folder including file to combine, by pressing **▶/■**.



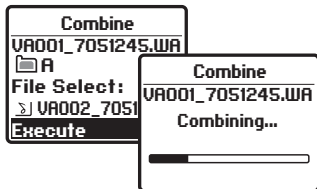
5. Press **▶/■** to choose File Select.



6. Select the file to combine, by pressing **▶/■**.



7. Press **▶/■** to run Execute and combine files.

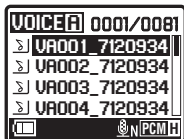


File Management

Lock File

Lock the current displaying file. A locked file is protected from Erase, Combine or File Edit. Formatting will delete all the files.

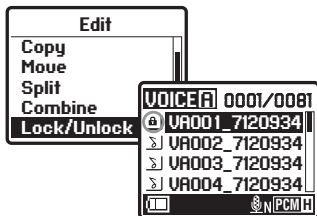
1. Select the file to lock/unlock.



2. Press ▶/■ to select Edit.



3. Press ▶/■ to select Lock/Unlock and lock a file.

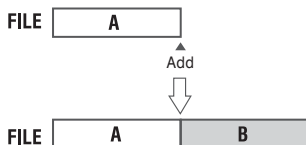


4. Select Lock/Unlock again to unlock the file.

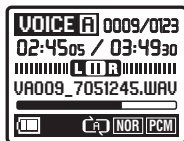
※ Using Add, Overwrite, Insert or Delete, you can edit the recorded file from the device.

Add Recording

Select Add Recording from the menu and start new recording from the pause then the new part will be added.



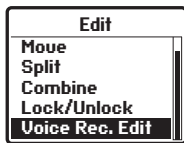
1. Pause at the part to add while playing.



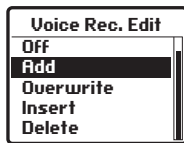
2. Press MENU button. Press ►/|| to select Edit.



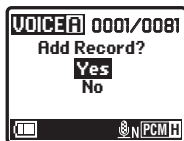
3. Press ►/|| to select Voice Rec. Edit.



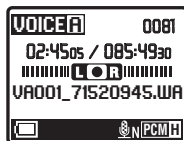
4. Press ►/|| to select Add.



5. Press Menu. Press Rec button while pausing.



6. Confirm yes and press ►/|| to add new recording.

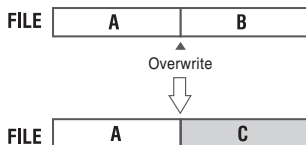


Edit Recorded File

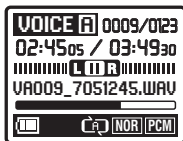
Overwrite Recording

Select Overwrite Recording from the menu and start new recording at the pausing point during the playback.

Then new part will be overwritten to the existing part.



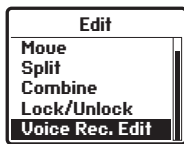
1. Pause at the part to overwrite while playing.



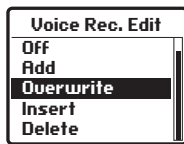
2. Press MENU button. Press ►/|| to select Edit.



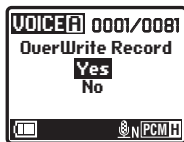
3. Press ►/|| to select Voice Rec. Edit.



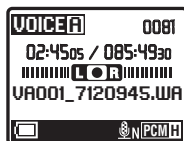
4. Press ►/|| to select Overwrite.



5. Press Menu. Press Rec button while pausing.

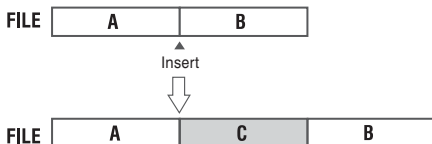


6. Press ►/|| to select Overwrite.

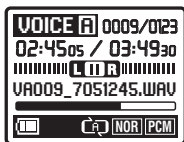


Insert Recording

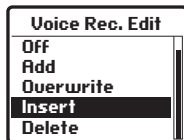
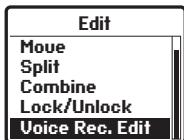
Select Insert Recording from the menu and start new recording at the pausing point, then new part will be inserted.



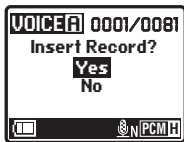
1. Pause at the part to insert while playing.
2. Press MENU button. Press **▶/||** to select Edit.



3. Press **▶/||** to select Voice Rec. Edit.
4. Press **▶/||** to select Insert.



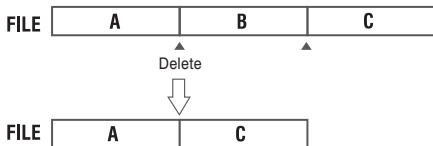
5. Press Menu. Press Rec button while pausing.
6. Confirm yes and press **▶/||** to insert new recording.



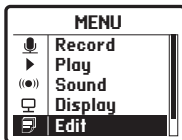
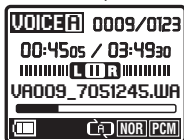
Edit Recorded File

Delete Recording Content

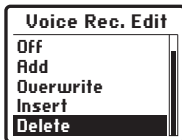
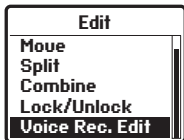
Select a part of recording delete it.



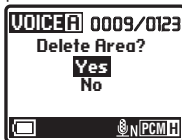
1. Pause at the part to delete while playing.
2. Press MENU button. Press **▶/■** to select Edit.



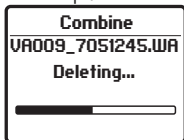
3. Press **▶/■** to select Voice Rec. Edit.
4. Press **▶/■** to select Delete.



5. Press Menu. Press Erase button to start playing.
6. Press Erase again to select the end of the part to be deleted while playing.

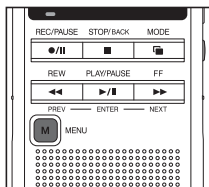


7. Confirm yes and press **▶/■** to delete the selected part.



Menu Display

1. Press MENU button.

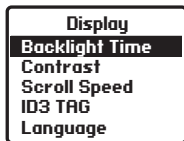


2. Press ▶/|| to select Display.

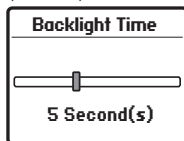


● Backlight Time Setting

1. Press ▶/|| to select Backlight Time.

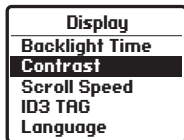


2. Press ▶/|| to select Off, 3, 5, 10, 20, 30 (seconds) or Continued.

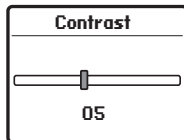


● Contrast Setting

1. Press ▶/|| to select Contrast.

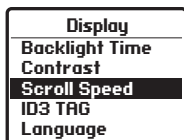


2. Press ▶/|| to select a number from 1 to 10.

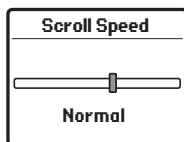


● Scroll Speed Setting

1. Press ▶/|| to select Scroll Speed.



2. Press ▶/|| to select Off, Slow, Normal or Fast.



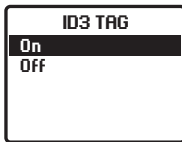
Function in Menu

● ID3 TAG Setting

1. Press ►/|| to select ID3 TAG.

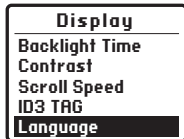


2. Press ►/|| to select On or Off.



● Language Setting

1. Press ►/|| to select Language.

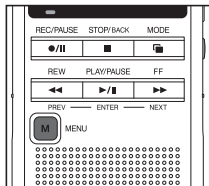


2. Press ►/|| to select English, Korean or Japanese.

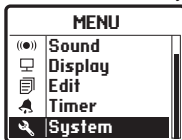


System Menu

1. Press MENU button.



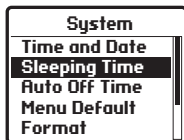
2. Press ►/|| to select System.



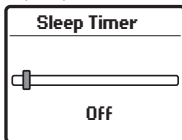
● Sleeping Time Setting

The power goes off automatically after passing a certain time regardless of operation.

1. Press ►/|| to select Sleeping Time.



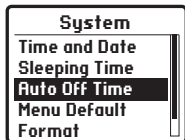
2. Press ►/|| to select Off, 15, 30, 45, 60, 75, 90, 105, 120 minutes.



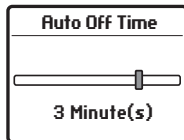
● Auto Off Time Setting

The power goes off automatically if there is no operation for a certain time.

1. Press **▶/||** to select Auto Off Time.

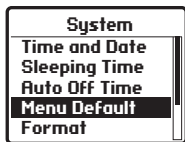


2. Press **▶/||** to select Off, 1, 3, 5 minute(s).

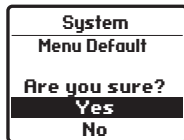


● Menu Default Setting

1. Press **▶/||** to select Menu Default.



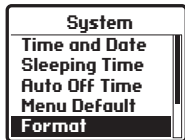
2. Confirm yes and press **▶/||** to initialize menu.



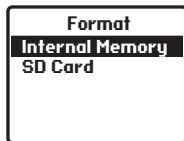
● Memory Format

Formatting memory will delete all data in the memory.

1. Press **▶/||** to select Format.

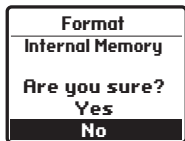


2. Press **▶/||** to select Internal Memory or SD Card.



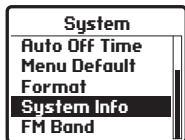
Function in Menu

3. Confirm yes and press ►/■ to format memory.



● System Information

1. Press ►/■ to select System Info.



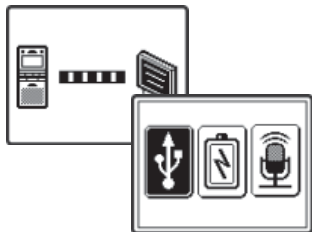
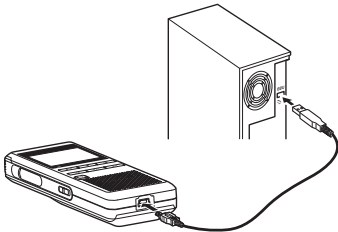
2. Check firmware version and memory status.

System Info	
Ver 1.00	
Free	INT:0000MB
Total	INT:0000MB
Free	SD:0000MB
Total	SD:0000MB

This product can be used as a portable storage device, which has USB MASS STORAGE. It can be connected to PC based on Windows ME, 2000, XP, Vista, Win7 by Plug and Play.

How to Connect with PC

1. Connect USB cable to the USB port.
2. Select USB mode and press **▶/■** to connect with PC.



3. The device works as USB, Recharge or Voice mode according to the selection, after connecting to PC.

USB Mode



Recharge Mode



Voice Mode



Safety Removal of USB

You have to follow safety removal process before disconnecting the device from PC. If you skip this procedure and disconnect the device from PC, the data can be damaged or lost.

1. Close file or folder which is in use.
2. Left-click on the icon displayed on the lower-right corner of the screen.
3. Click on "Safely Remove Drive".
4. When "Safe to Remove Hardware" message comes up, disconnect the device from PC.



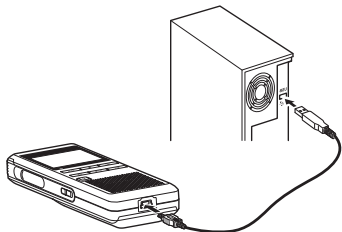
PC Connection

Firmware Upgrade

By upgrading the firmware, you can improve performance of the voice recorder and correct errors in the recorder.

※ You can download free firmware upgrade files from the web-site of Disonic Technology.

1. Connect the device to PC.



2. Copy the upgrade file to the Root directory of the device.



Removable
Disk (G:)

3. Disconnect the device from PC, turn the power off and on. Then firmware upgrade will start.



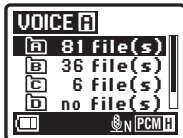
4. Turn the power on and connect the device to PC.

5. Copy the font file to the Root directory of the device.



Removable
Disk (G:)

6. Disconnect the device from PC, turn the power off and on then the upgrade will be completed.



PC recognizes the device as removable disk when it connects to PC. Music and Record folder are created in the drive. You can create a folder, read, write, delete file and format disk as the device is recognized a separate drive.

Music Folder

Music files can be numbered upto 999. Play a file in the music folder.

※ **You can play music files in the sub folder under Music Folder.**

Voice Folder

Under the Voice Folder, the voice recorded files are stored. The file can be created in order of A, B, C, D folder, while recording. Maximum 999 files can be stored in each folder. If the number of file is 999 in a folder, a new file will be stored in next folder.

※ **The device can only play the file recorded by itself.**

TM Folder

The Timer Recorded File of FM/MIC mode is stored in TM folder. While recoding, the device creates the files by order and numbers them upto 999.

Encode Folder

FM channel and Files recorded by external audio device are stored in this folder. While recoding, the device creates the files by order and numbers them upto 999.

Recorded File

	Folder (Mode)	Index	Month	Date	Hour	Min	Format
Voice File	VA	000	0	00	00	00	PCM(or MP3)
Audio File	VL	000	0	00	00	00	PCM(or MP3)
FM Recording	VF	000	0	00	00	00	PCM(or MP3)
Timers Recording	TM	000	0	00	00	00	PCM(or MP3)

※ EX) VA001_1251130.PCM

The file was recorded at 11:30 on Jan, 25th..

Troubleshooting

When a breakdown is suspected, please check the following:

Symptom	Checkpoints	Measures
The power is off.	Check if the hold switch is in On position.	Move the hold switch to Off position.
	Check if the battery switch is in On position.	Move the battery switch to On position.
	Check the battery status.	Replace the battery.
	Check the battery polarity.	Check the battery polarity.
Recharge doesn't work.	Check if the battery is rechargeable.	Use the correct battery as recommended.
	Check if the battery is right.	Remove and insert the battery properly.
The device suddenly stops	-	Remove and insert the battery properly.
The adapter does not function.	Check if the adapter is correctly connected to the outlet.	Correctly connect the adapter to the outlet.
	Check if the adapter is specific for the device.	Use the correct adapter as recommended.
Recording is not made.	Check if the hold switch is in On position.	Move the hold switch to Off position.
	Check if there are already 999 recorded files.	Delete unnecessary files.
	Check the memory status.	Delete unnecessary files.
	Check the battery status.	Replace the battery.
Recording from an external microphone is not made.	Check if Line (Input Setting) is EMIC in the menu.	Set Line (Input Setting) as EMIC.
	Check whether the external microphone is mono or stereo.	Set EMIC of Line (Input Setting) proper for the external microphone type.
Recording from an external device is not made.	Check if Line (Input Setting) is Line in the menu.	Set Line (Input Setting) as Line.
Recording from a telephone or mobile phone is not made.	Check if Line (Input Setting) is TEL in the menu.	Set Line (Input Setting) as TEL.

The ARS does not function.	Check if ARS is set "Yes" in the menu.	Set the ARS "Yes".
	When the audio volume is too low, the audio will not be recorded.	Move the internal or external microphones close to the recorder. Increase the volume of the external device.
Line-In Recording generates serious noise.	Check if the setup of external device input is right.	Set the external device input as Line-In.
The player does not play the audio.	Check if there is a recorded file or music file.	Check the number of files in the correct mode.
The speakers do not generate sound.	Check if the speaker switch is in On position.	Move the speaker switch to On position.
The earphones do not generate sound.	Check whether the earphones are connected.	Connect the earphones.
The player does not receive radio broadcasting.	The FM radio reception is poor in the frequency shadow area, inside the building, in the subway, and on a moving vehicle.	The device and the earphones function as antennas. Move the device and earphones for better reception.
Automatic connection is not made to the PC.	Check if the USB cable is correctly connected to the player.	Correctly connect the USB cable to the player.
Files recorded in the PC are not played.	No separate PC program is provided.	Install Windows Media Player or another player.
Music and Record folder disappeared.	Over Entry quantity.	Remove unnecessary files on the root directory.
"Index Full" is displayed.	Over the Max. file quantity in the current folder	Remove unnecessary files in the folder.
"Memory Full" is displayed.	The memory capacity is full.	Remove unnecessary files in the memory.
"Not available" is displayed.	The function does not work in the current selected mode.	Change mode.
	Impossible to set up Timer or Alarm.	If there is an overlapped time setup, change the setup.
	Files are not combined.	Both files are in different quality.
"NOT INSERT CARD" is displayed.	Check if the micro SD card is inserted.	Insert micro SD card properly.
SD Card is not readable	Please connect to PC and check the remaining memory in micro SD card.	Please delete the unnecessary files to secure the memory capacity in micro SD card.
"LOW BATTERY" is displayed.	The battery status is low.	Change battery.

General Specification

MODEL		DDR-7000		
General Specification		MPEG 1/2/2.5 LAYER3/WMA/Linear PCM		
S/N ratio		100dB		
Distortion		0.5%±0.2		
Frequency		20Hz ~ 20KHz (-6dB)		
Earphone Output		5.5mW		
Speaker Output		400mW		
Record (Memory 2G)	Mode	XHQ	SHQ	HQ
	Format	PCM	PCM	PCM
	Quality	44.1K 24BIT	44.1K 16BIT	22K 16BIT
		STEREO	STEREO	STEREO
	Time	2H 0M	3H 0M	6H 05M
	Mode	SP	SP	SP
	Format	MP3	MP3	MP3
	Quality	256KBPS	128KBPS	96KBPS
	Time	16H40M	33H30M	44H45M
	Mode	LP	LP	LP
	Format	MP3	MP3	MP3
	Quality	64KBPS	32KBPS	16KBPS
Time	67H10M	134H20M	268H45M	
FM Radio		World wide : 87.5 ~ 108MHz, EU:87.5 ~ 108MHz, Japan wide : 76 ~ 108MHz		
PC Interface	Communication	USB 2.0		
	OS	Windows ME , Windows 2000 , Windows XP, Windows VISTA, Windows 7		
AC/DC Adapter		DC5V/1A		
Battery		AA Alkaline (2pcs) 3V, Ni-Mh Rechargeable (2pcs) 2.4V		
Play Time		Approx. 50hrs with earphones		
Size		120H × 46W × 21D		
Temperature		0℃~40℃		

● Repair Service

When a breakdown occurs, stop using the product and contact the sales agency or the service center of DIASONIC Technology at **82-31-474-0852**

● Warranty (Service Policy)

- Free repair services will be provided in compliance with the free repair policy of DIASONIC Technology.
- If a breakdown occurs during the warranty period, bring the product with warranty card to the sales agency or the service center of DIASONIC Technology.
- Free repair service will be provided only when the purchase date and the name of the sales agency appear on the warranty card.
- Please check all information is written when purchasing the product from the sales agency.
- The warranty card is not reissuable so we recommend you keep it safe.

<Free Repair Policy>

1. This product has passed strict quality control and inspection.
2. Breakdowns occurring under normal operating conditions described in the user manual within the warranty period will be subject to free repair services.
3. For the following cases, some service fees will be charged.
 - 1) When the customer fails to submit the warranty card
 - 2) When information is missing in the warranty card – purchase date, customer's name, the name of sales agency, etc.
 - 3) When the product is damaged or broken down due to user's mishandling
 - 4) When the product is damaged or broken down due to user's repair or remodeling
 - 5) When the product is damaged or broken down due to fires, pollution, earthquakes and other natural disasters
 - 6) When the product is damaged or broken down due to leakage of battery
 - 7) When the consumable parts such as a battery need to be replaced
4. This warranty card is valid only for the service in Korea.
(This warranty card is only valid for service in Korea.)

<Request for Mailing>

Please beware of the following when sending the product by mail.

1. Please enclose the warranty card with the product when mailing during the warranty period.
2. Please wrap in shock-absorbing materials and put the product in a box to prevent damage during transportation..
3. Mailing fees and wrapping costs are to be born by customers.
 1. To prevent loss, please send the product for repair services by registered mail.

WARRANTY CARD

Product : VOICE RECORDER

MODEL : DDR-7000

Warranty Period : One Year

Purchase Date :

Purchaser	Name	
	Address	
	Telephone	
Seller	Name	
	Address	
	Telephone	

- Please contact the sales agency or customer center of DIASONIC Technology Co., Ltd. for breakdown of the product.
- Exchange, (charged or free) repair services, refund, and part-keeping periods comply with regulations of the customer protection act.
- For questions or more information about the product, contact the customer center of DIASONIC Technology Co., Ltd.

Diasonic Technology Co.,LTD.

- 430-040 Seoksu-dong, Manan-gu, Anyang-si, Gyeonggi-do, South Korea
- TEL. 82-31-474-0852 / FAX. 82-31-474-0856
- Home Page: <http://www.diasonic.com>

This warranty card is only valid in Korea. Please keep this card for free repair services.