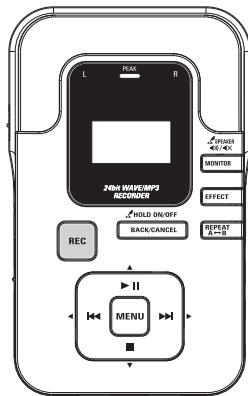


swiSONIC

MDR-4

*24bit WAVE/MP3
RECORDER*



Instruction Manual

FCC Information

GUIDELINES LAID DOWN BY FCC RULES FOR USE OF THE UNIT IN THE U.S.A. (not applicable to other areas)

NOTICE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

FCC WARNING

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

IMPORTANT NOTES

Thank you very much for purchasing this product . You are recommended to study this manual carefully before using the unit.

- This unit could be operated either by a 3V battery or by a 3V center minus DC adaptor.
- Before connection, please ensure the power supply has been properly installed and all power devices such as amplifiers must first be turned off, in order to avoid any malfunction.
- Avoid using this unit together with same circuit of electronic products that will generate line noises.
- Do not place this unit too close to heat sources such as radiator and amplifier in order to prevent damages like interference.
- Do not expose this unit under excessive sunlight, water and moisture.
- Strong vibration and shock will damage this unit.
- Clean this unit with a soft and dry cloth. A slightly dampened cloth with mild detergent might remove stubborn dirt.
- Never use thinners and alcohol for cleaning the unit.
- Hold the unit firmly while unplugging the cables, never pull the audio cables with stress.

Note: If the recorder doesn't work well, please pull the power jack and take out the battery, then plug the power jack or put the battery in again to turn on the recorder.

Caution!

- The normal function of the product may be disturbed by Strong Electro Magnetic Interference. If so, simply reset the product to resume normal operation by following the instruction manual. In case the function could not resume, please use the product in other location.

When to use DR2 ?

This product is suitable in the following situation

- **Sound sampling in an external or internal environment**
- **Live recording**
- **Conference recording**
- **Course recording for students**
- **Home Studio**
- **Journalist and other situation need interview recording to record**

This product provides high quality recording function and accurate position for sound

It stores file in both wav and mp3

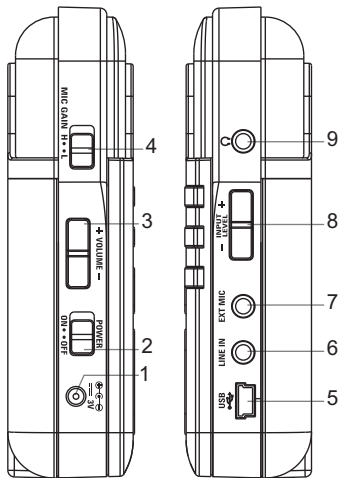
MAIN FEATURES

- ❑ Stereo 4 mics recording,360 degree mode. Support mp3 and wav format.
16bit/24bit,44.1K and 48K sample rate.
- ❑ Support SD/SDHC card up to 16G.
- ❑ 128*64 OLED display.
- ❑ Bass compensate, 3D effect, Reverb, Chorus, Pitch and Delay effect.
- ❑ MP3 voice cancelling.
- ❑ Tuner function inside for guitar and bass player.
- ❑ Easy to operate.

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SIDE PANEL



1. POWER supply jack: (DC in 3V center minus)

Connect an AC adaptor to this jack.

2. [POWER ON/OFF] button:

Turn the power on/off.

3. [VOLUME] button:

Adjust volume.

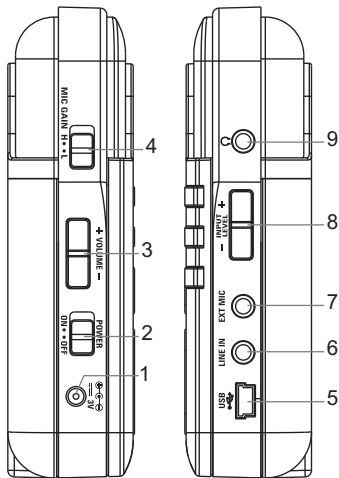
4. [MIC GAIN H..L] button:

Choose high level mic input or low level input.

5. USB jack:

Connect to computer.

SIDE PANEL



6.LINE IN jack:

Connect to any other audio device such as mp3 and CD player.

7. EXT MIC jack:

Connect the external microphone.

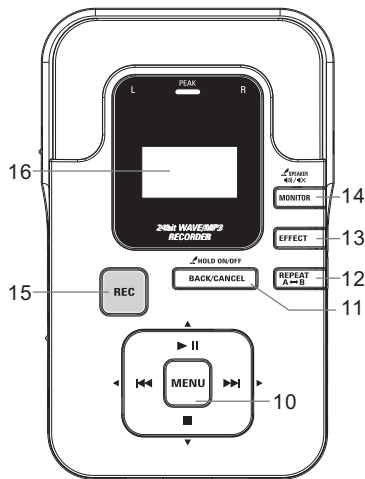
8. [INPUT LEVEL +/-] button:

You can also adjust the recording level by [INPUT LEVEL +] or [INPUT LEVEL-] button.

9. PHONES jack:

Connect a pair of stereo headphones to this jack.

FRONT PANEL



10. [MENU] button :

Press [MENU] button to choose the menu.

11. [BACK/CANCEL] button:

Press [BACK/CANCEL] goes back to the home screen.
Long press [BACK/CANCEL] button to hold on / off .

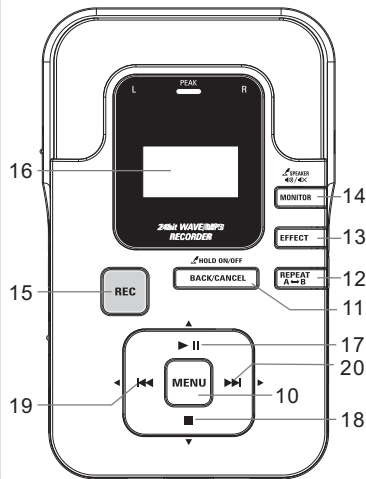
12. [REPEAT A↔B] button:

A-B repeat function allows you to specify point A and point B and automatically play the section between these two points repeatedly.

13. [EFFECT] button:

Effects button to choose.

FRONT PANEL



14. [MONITOR] :

Headphone monitor output on/off.

Long press to turn on/off speaker while playing.

15. [REC] :

Record button

16. [Display]

A variety of information about the unit appears here.

17. [▶||]/[▲] :

[PLAY/PAUSE] button / [Up] button .

18. [■]/[▼] :

[STOP] button / [Down] button .

19. [▶▶]/[▶] :

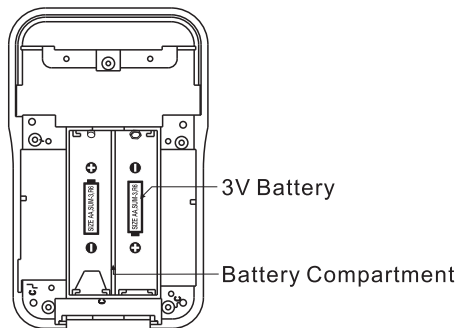
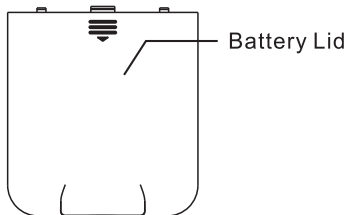
[F.F] button / [Right] button .

20. [◀◀]/[◀] :

[REWIND] button / [Left] button .

BATTERY REPLACEMENT DIAGRAM

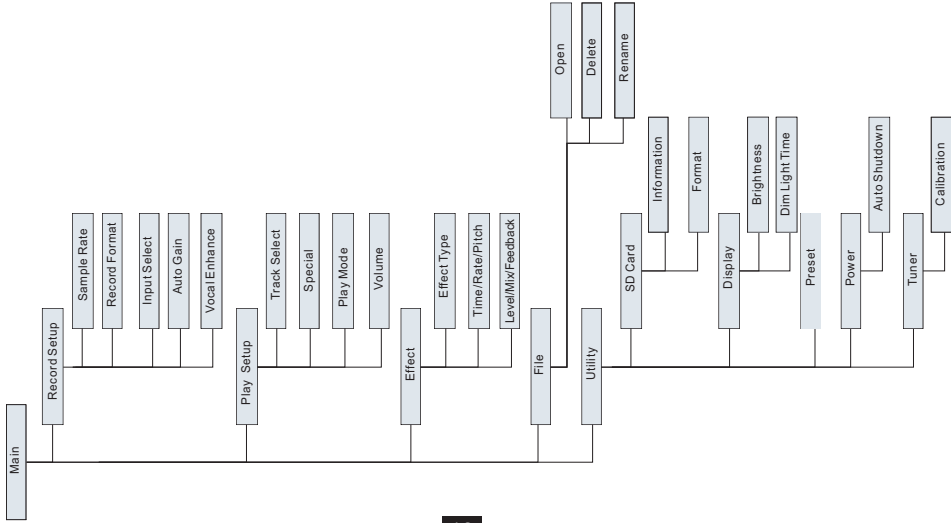
This product can be powered by the current of a standard household wall outlet (using the specified AC adaptor) or by “Size AA, Sum-3,R6” battery.



Note: Please turn the power off when switch the power supply from DC to battery or vice versa.



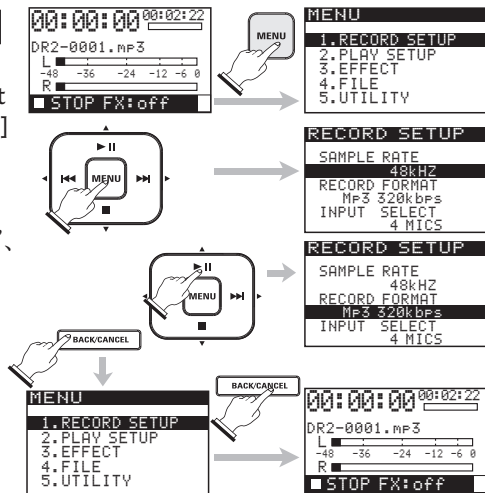
MENU TREE



BASIC OPERATION

RECORDING SETUP :

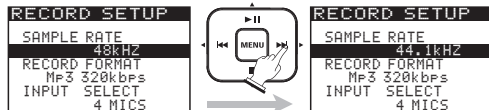
1. At the main screen, press [MENU] button, the following menu appears. This screen let you select "RECORD SETUP" by [▲] or [▼] button.
2. The screen now indicates five parameter items: "SAMPLE RATE", "REC FORMAT", "INPUT SELEDT", "AUTO GAIN" and "VOCAL ENHANCE". You can select them by [▲] or [▼] button.
3. Press the [BACK/CANCEL] button will return to the main menu.



BASIC OPERATION

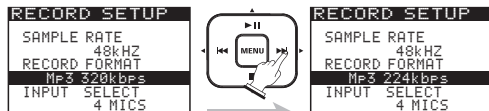
① SAMPLE RATE :

“SAMPLE RATE” is sample rate parameter .
you can use [◀] or [▶] button to choose
44.1kHz or 48kHz(default) samplerate.



② REC FORMAT :

“REC FORMAT” is the parameter for
recording format. This product supports
to 9 formats:
WAV24bit、WAV16bit、MP3-320kbps、
MP3-224kbps、MP3-192kbps、MP3-160
kbps、MP3-128kbps、MP3-96kbps and
MP3-64kbps .



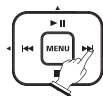
**You can use [◀] or [▶] button to
choose. The default is MP3-320kbps.**

BASIC OPERATION

③ INPUT SELECT :

“INPUT SELECT” is parameter for number of microphone to be choosed . select 2 MICS record mode or 4 MICS record mode by [◀] or [▶]button, The default is 4MICS.

RECORD SETUP	
SAMPLE RATE	48kHz
RECORD FORMAT	Mp3 320kbps
INPUT SELECT	4 MICS



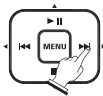
RECORD SETUP	
SAMPLE RATE	48kHz
RECORD FORMAT	Mp3 320kbps
INPUT SELECT	2 MICS

Note: If you use line in or ext mic, you can choose 2 MIC for only external input or 4 MIC with 2 back MIC and external input together.

④ AUTO GAIN :

“AUTO GAIN” is the switch that adjust input sensitivity, use [◀] or [▶] button to choose ON or OFF .The default is ON.

RECORD SETUP	
AUTO GAIN	ON
VOCAL ENHANCE	OFF

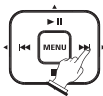


RECORD SETUP	
AUTO GAIN	OFF
VOCAL ENHANCE	OFF

⑤ VOCAL ENHANCE :

“VOCAL ENHANCE” can enhance the vocal band signal and make less the others, use [◀] or [▶]button to choose OFF、LEVEL ONE and LEVEL TWO .The default is OFF.

RECORD SETUP	
AUTO GAIN	ON
VOCAL ENHANCE	OFF



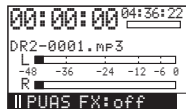
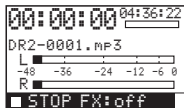
RECORD SETUP	
AUTO GAIN	ON
VOCAL ENHANCE	LEVEL ONE

BASIC OPERATION

RECORDING :

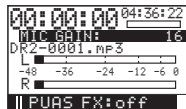
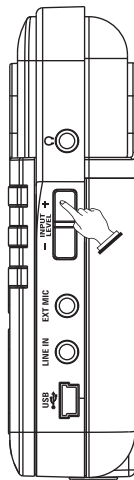
1. At the main screen or file manage screen (FILE) ,press the [REC] button goes into standby record mode.
The [REC] button lightens and flashes.

2. We can see two highlight record levels are scanning. This product detects the level of the currently selected input source.
The current file name displays under the record level (eg:DR2-xxxx.mp3 or DR2-xxxx.wav).



BASIC OPERATION

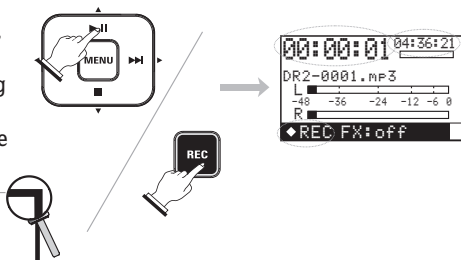
3. Adjust the record level by pressing [INPUT LEVEL+]、[INPUT LEVEL-] button so that the highlight record level reaches the highest level without the peak indicator shown in red turning on .



BASIC OPERATION

1. At the standby condition, Press [PLAY/PAUSE] or [REC] button to start recording, The [REC] button lightens . the time level begin to increase as recording starts. The time show above indicate the record time, and the time appeals on the right side indicates the time left for record.

Note: the amount of record time available depend on capacity of SD card.



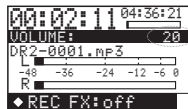
2. You can also adjust the recording level by [INPUT LEVEL+] or [INPUT LEVEL-] button while recording.

Note: if you use the input MIC, the sound of pressing the key will simultaneously be recorded.

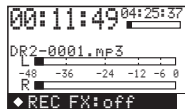
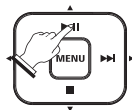


BASIC OPERATION

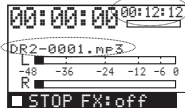
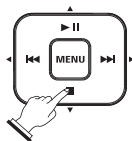
3. Adjust the output volume by pressing [VOLUME+] or [VOLUME-] at the left side.



4. Press [PLAY/PAUSE] button to pause the recording. Press the [PLAY/PAUSE] button again to continue recording.



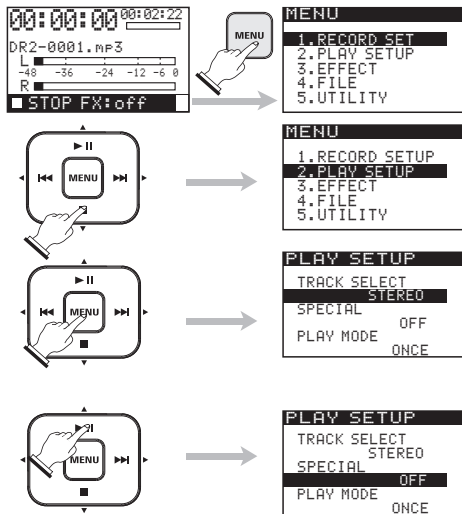
5. During recording, press [STOP] button or [REC] button to stop the record, Light on [REC] button darkens, and the file will be saved to the SD card.



BASIC OPERATION

SETUP PLAYBACK :

1. At the home screen , press [MENU] button to go into the main menu. Use [▲] or [▼] button to choose “play setup” then press [MENU] button to go into the playback setup screen .
2. Use [▲] or [▼] button to edit the parameters such as “TRACK SELECT” , “BASS COMP” , “PLAY MODE” and “VOLUME” .
3. Press [BACK/CANL] to go back to the home screen.



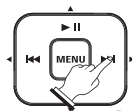
BASIC OPERATION

① TRACK SELECT :

“TRACK SELECT” controls selection of playback channel . Press [◀] or [▶] button to choose the channel among STEREO(default), LEFT, RIGHT and VOCAL CUT.

In Voice Cut, the melody on the mp3 file could be muted, leaving the background music playing.

Note: This function will be effective only for the normal mp3 files, and could not be effective if the mp3 file has only one melody track or the background is in both 2 tracks.

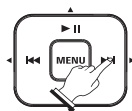


PLAY SETUP	
TRACK SELECT	STEREO
SPECIAL	OFF
PLAY MODE	ONCE

PLAY SETUP	
TRACK SELECT	LEFT
SPECIAL	OFF
PLAY MODE	ONCE

② SPEAIAL :

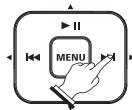
“SPEAIAL” is the special effect open when playback. You can use [◀] or [▶] button to choose bass compensate or 3D effect. Bass compensate can compensate the low frequency signal and 3D effect can offer you a surrounding effect. The default is OFF.



PLAY SETUP	
TRACK SELECT	STEREO
SPECIAL	OFF
PLAY MODE	ONCE

③ PLAY MODE :

“PLAY MODE” controls playback mode. We can use [◀] or [▶] button to choose the mode such as ONCE (default), LOOP, LOOP ALL.

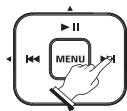


PLAY SETUP	
TRACK SELECT	STEREO
SPECIAL	OFF
PLAY MODE	LOOP

BASIC OPERATION

④ VOLUME :

“VOLUME” controls playback volume. You can use [◀] or [▶] button to adjust the playback volume from 0 to 32. Default parameter is 20.

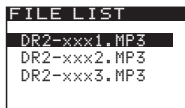
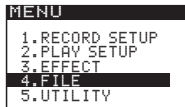
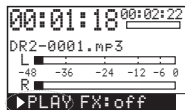
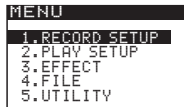
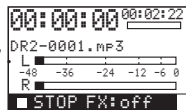


PLAY SETUP	
VOLUME	21

BASIC OPERATION

PLAYBACK :

1. This product supports playback files of MP3 and WAV
2. At the home screen, you can use [PLAY/PAUSE] button to start playing the file , press [PLAY/PAUSE] button for the second time to pause the playing , press [PLAY/PAUSE] button for the third time to continue playing. The recorder playback the current song according to the playback setup (ONCE, LOOP, LOOP ALL).
3. Press [STOP] button to stop the current playing.
4. You can also playback the file by this way . go into the file manage screen (MENU-FILE), select the file you need and press the [MENU] button.



BASIC OPERATION

5. Choose the “OPEN” at the files edit menu and press the [MENU] button to start playing the selected file.



6. At the home screen, when file is playing, press the [F.F] button to go to next file,

Press [rewind] button to return to the beginning of the current file,
Press [rewind] button again to go to previous file .

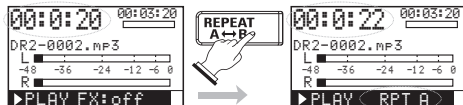


7. While playing, Hold [REWIND] button to fast search to the beginning of the current file.
8. While playing, Hold [F.F] button to fast search to the end of the current file. Continue holding the [F.F] button will enter the next file and continue to fast search . If the A-B repeat function is on, holding the [F.F] button would not exceed the point B.

BASIC OPERATION

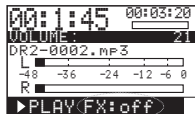
The A-B repeat function allows you to specify point A and point B and automatically play the section between these two points repeatedly.

- 1 While playing, press the [REPEAT A-B] button for the first time to locate the start point for the range to be repeated.
- 2 Press the [REPEAT A-B] button for the second time to locate the end point for the range to be repeated .if the point B before point A , the setting will not be saved .
- 3 Press the [REPEAT A-B]button for the third time will cancel this setting.



BASIC OPERATION

The volume of playback can be controlled by the volume of “PLAY SET”. The [VOLUME+]、[VOLUME-] button on the left side panel can also adjust the volume of the recorder.

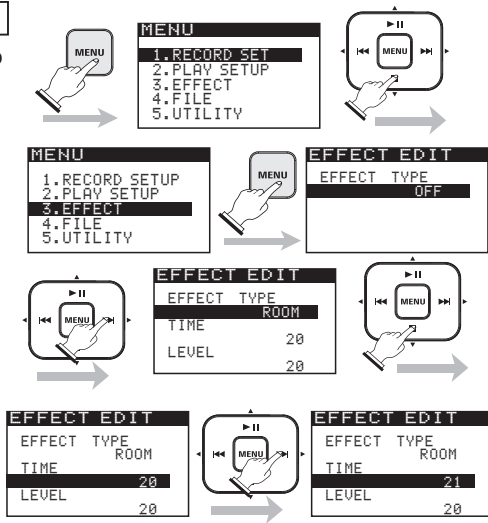


BASIC OPERATION

EFFECT :

1. In home screen ,press [MENU] button to go into the main menu, use [▲] or [▼] button to select “EFFECT” and press [MENU] button to enter the effect type .
2. Press the [◀] and [▶] for effect type change , including OFF ,ROOM, HALL , CHORUS ,PITCH SHIFT, DELAY .The default is OFF.
3. The corresponding parameters of the effect will change to follow the effect type.Press[▲] or [▼]button to select effect parameter . Press[◀] or [▶] button to adjust the value for in the selected parameter .

Press [BACK/CANCEL] button can back to the home screen.



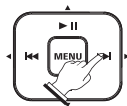
BASIC OPERATION

① OFF:

EFFECT EDIT	
EFFECT TYPE	
	OFF

② ROOM:

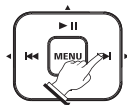
Room provides warm musical ambience that is experience while listening to music in a room. Time and Level can be set arrange from 0 to 32.



EFFECT EDIT	
EFFECT TYPE	ROOM
TIME	20
LEVEL	20

③ HALL:

Hall provides the grand musical ambience that is experienced listening to music in a hall. Time and Level can be set arrange from 0 to 32.

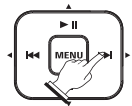


EFFECT EDIT	
EFFECT TYPE	HALL
TIME	20
LEVEL	20

BASIC OPERATION

4 CHORUS :

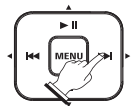
The Chorus effect combines delay time and amplitude modulation to effectively thicken and add warmth to the sound . Rate and Level can be set arrange from 0 to 32.



EFFECT EDIT	
EFFECT TYPE	CHORUS
RATE	20
LEVEL	20

5 PITCH SHIFT:

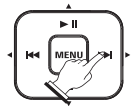
Pitch shift copies the incoming signal, then shifts the pitch of the copy to a different note .the shifted note is then mixed back with the original, sounding as if two guitars were playing different notes. The Pitch can be set arrange from -12 to 12 , the Mix can be set arrange from 0 to 32.



EFFECT EDIT	
EFFECT TYPE	PITCH SHIFT
PITCH	8
MIX	20

6 DELAY:

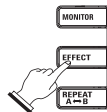
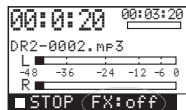
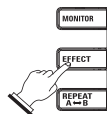
Delay is an effect that records a portion of the incoming signal, then play back in a preset time. Time and Feedback can be set arrange from 0 to 32 .



EFFECT EDIT	
EFFECT TYPE	DELAY
TIME	13
FEEDBACK	13

BASIC OPERATION

1. In home screen ,You can also press [EFFECT]
button to select Room ,Hall ,Chorus ,Pitch
Shift, or Delay .



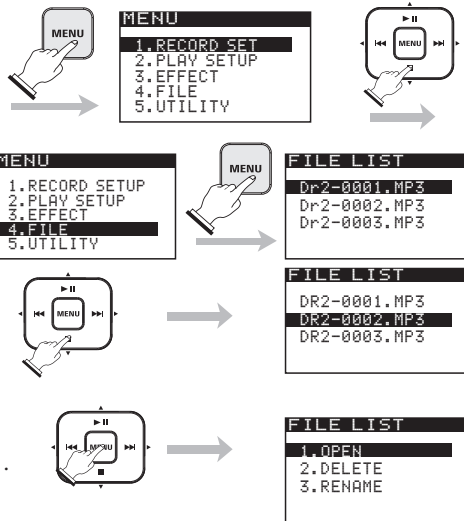
2. The effect will automatically turn off when you
start recording .



BASIC OPERATION

FILE MANAGEMENT :

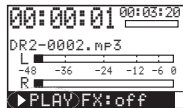
1. In home screen , press the [MENU] button to ENTER the main menu. Press [▲] or [▼] button to choose “FILE” and press the [MENU] button to go into the file manage interface , the screen display the file list of the root directory .
2. Use [▲] or [▼] button to choose file or subdirectory, press [MENU] button to enter the subdirectory ,then the file list of current directory will display.
3. Use [MENU] button after selection to enter the file edit menu, you will see the three option : “OPEN” , “DELETE” , “RENAME” . Press the [BACK/CANCEL] button to go back to the file manage screen.



BASIC OPERATION

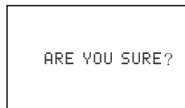
① OPEN :

choose the “OPEN” , press [MENU] button to play the file, the screen will go back to the home screen.



② DELETE :

choose the “DELETE” to delete the file , then press the [MENU] button . confirmation message for deletion appears.



Press [MENU] button to confirm .

Press [BACK/CANCEL] button to cancel this operation and return the file edit menu.

BASIC OPERATION

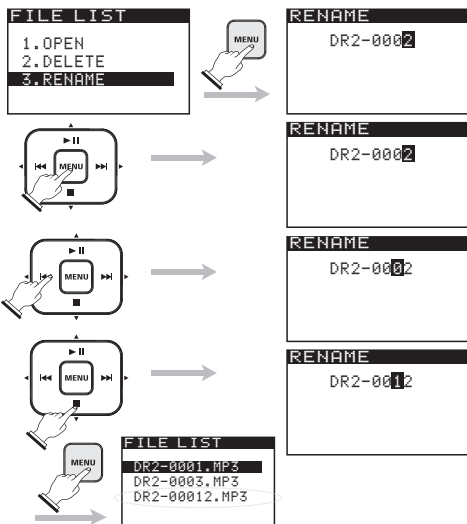
③ RENAME :

choose “RENAME” to rename the file,
then press the [MENU] button, the
current file name appears.

Use [◀] or [▶] button move the cursor .

after use [▲] or [▼] button select the
character ,

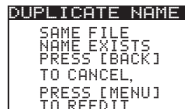
press [MENU] button to confirm .



BASIC OPERATION

if a file with the same name already exists in the folder, a message appears and the name change cannot be executed .

Press [MENU] to edit the name.



Press [BACK/CANCEL] button to exit the edit menu.

BASIC OPERATION

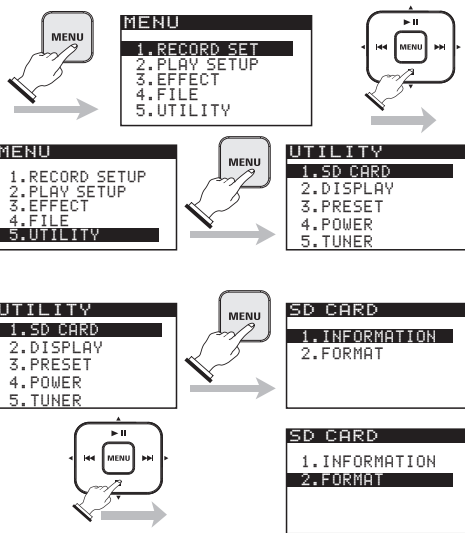
UTILITY :

At the home screen, press [MENU] to go to the main menu .press [▲] or [▼] button choose “UTILITY” . Five items “SD CARD” , “DISPLAY” , “PRESET” 、 “POWER” and “TUNER” will be listed on the screen . use [▲] or [▼] button to choose the item. Press [BACK/CANCEL] button to return to the home screen.

① SD CARD :

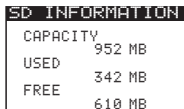
choose “SD CARD” , press the [MENU] button to enter the SD menu, there are two operation “INFORMATION” and “FORMAT” . You can use [▲] or [▼] button to choose .

Press [BACK/CANCEL] button back to return to utility menu.



BASIC OPERATION

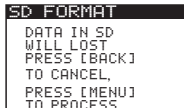
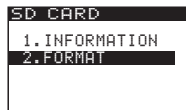
Choose “INFORMATION” , then press the [MENU] button ,the screen displays the information of SD card such as capacity ,used capacity and the free capacity. press [BACK/CANCEL] button back to SD card menu,



Choose “FORMAT” , press [MENU] button . this initialization process will erase all information stored on the SD card, and the information cannot be retrieved. Perform this operation with care.

The screen will display the warning message.

Press [MENU] to confirm.



Press [BACK/CANCEL]button to cancel this initialization process.

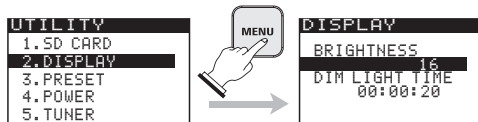
Press [MENU] button again ,Confirmation message for formation (ARE YOU SURE?)appears.

BASIC OPERATION

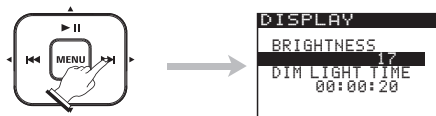
Press [MENU] to confirm, the screen will display Processing....., then begin to format. After finishing the operation the display will go to the SD menu.

② DISPLAY :

choose "DISPLAY", press [MENU] button. the parameter of "BRIGHTNESS" and "DIM LIGHT TIME" appears. You can use [▲] or [▼] button to choose.



you can use [◀] or [▶] button adjust the BRIGHTNESS of LCD. The BRIGHTNESS can be set arrange from 1 to 32, the default is 16.



You can use [◀] or [▶] button adjust the DIM LIGHT TIME by 5 minutes, 10 minutes, 20 minutes, 1 hour or DIM OFF.

Press [BACK/CANCEL] button to return to utility menu.

BASIC OPERATION

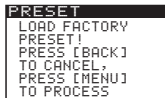
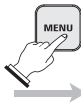
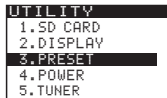
③ PRESET :

choose "PRESET", press [MENU] button .
the screen will display the warning message
to confirm the loading of factory reset .

Press [BACK/CANCEL] to cancel and return to the utility menu.

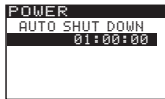
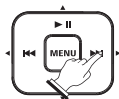
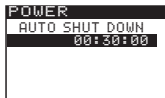
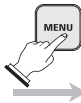
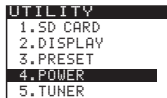
Press [MENU] button the screen will display ARE YOU SURE?

Press [MENU] button again, the screen will display PROCESSING..... , then load the default
parameters. After finishing the operation the display will return to utility
menu.



④ POWER :

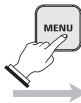
choose "POWER", press [MENU] button .
the screen displays the auto power off time.
Press [◀] or [▶] button to adjust
auto power off time by 5 minutes, 15
minutes, 30 minutes, 1 hour or DISABLE.



⑤ TUNER :

choose "TUNER", press [MENU] button
to enter the TUNER menu.

Press [◀] or [▶] button to adjust Calibration
from 435-445Hz, The default is 440HZ .



SD CARDS:

1. This product supports SD card to exchange data between recorder and PC or other peripheral equipments . Format the card before using it .Most preferable to use the recorder's format function to ensure the compatibility of the card.
2. This product supports SD and SDHC card up to 16G .
Product being connected to the computer or the other equipments used as host , will be recognised as an USB storage device .the screen will display only USB connection and the recorder forbids other operations until the USB cable disconnection.

Note: In order to avoid any error, please do not eject the SD card while USB cable is connected.



Note: When you insert a SD card with the improper format, the recorder will display “ SD NEED FORMAT! Press [MENU] to confirm Press [Back] to cancel” .



BASIC OPERATION

Note:In order to avoid any error, please shut down the recorder when inserting a SD card .



BASIC OPERATION

MIC:

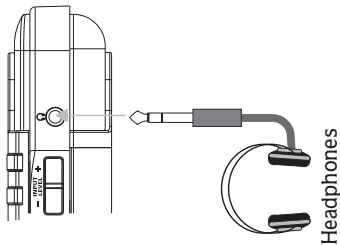
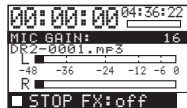
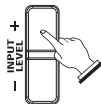
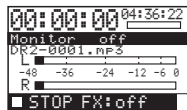
1. This product has 4 high-powered stereo MICs inside and can be used as a high quality microphone . Press [MONITOR] button to turn on or turn off the output function form the phone jack.
2. Press [INPUT LEVEL +/-] to change the input level.

SPEAKER:

Press[MONITOR] button and hold on to turn on / off the speaker.

PHONES:

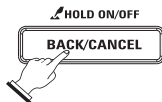
Connect the headphone to the product.
The [VOLUME +/-]button are used to adjust the output level.



BASIC OPERATION

CURRENT STATE PROTECT :

1. Hold [BACK/CANCEL] to start the hold function Display show "HOLD KEY ON"
It will lock all the keys on the panel, except the USB connection and power off.
2. Hold on the [BACK/CANCEL] button again to turn off this condition with display "HOLD KEY OFF". Then all the keys on the panel will be unlock.



SPECIFICATIONS

- Power Requirements: AC adaptor DC3V center minus type or “SIZE AA,SUM-3,R6” battery
- Dimensions: 108(L) x 67.5(W) x 28.5(H) mm
- Weight: 97g (without battery)

Do not dispose of the device at the end of his operating life in your normal domestic waste. This device is subject to the European Guidelines 2002/96/EC.



Have the product disposed of by a professional disposal company or by your communal disposal facility.

Observe the currently applicable regulations. In case of doubt contact your disposal facility. Dispose of packaging materials in an environmentally responsible manner.



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swisonic