Jammin Pro

HR-5
LINEAR PCM RECORDER
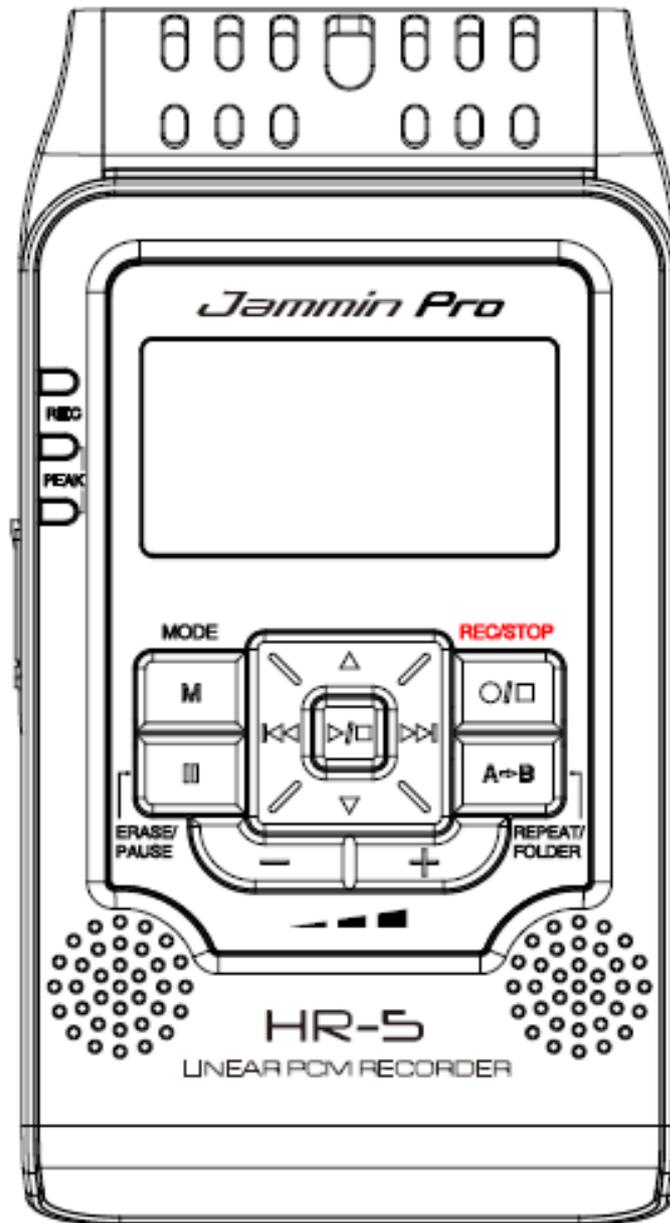
www.jamminpro.net

Contents

Thank you, and congratulations on your choice of Jammin Pro's HR-5

Features

- Built-In 2GBytes memory
  (Ready for more than 35 Hours stereo recording/music playback)
- Expandable SDHC memory up to 32GBytes, (SD card not included)
- Built-In 2 x dia. 9mm high sensitivity condenser microphone
- 2 x 16mm Full ranger speakers built in
- Large 1.9″ LCD display with backlight
- High speed USB2.0 for Mac and PC mass storage/card reader operation
- 12 Hours lifetime on 2 x AA batteries (included) or external adaptor (not included)
- 3.5mm Stereo headphones output
- Tripod Mount for easy installation on stand (Tripod Stand included)
- High sensitivity stereo condenser microphones built in
- Selectable Mono/Stereo microphone recording
- Recording into 16/22.05/24/32/44.1/48kHz, 32–192 kbps MP3 or 16/24-bit WAV
- Adjustable recording level with peak LED indicators
- Adjustable voice activated (VOX) recording
- Inputs for connecting 1/8" mic and line-level audio
- ID3 music information display and song management
- Support 16/22.05/24/32/44.1/48kHz, 32–320 kbps MP3 or 16/24-bit WAV
- 7 preset Equalizers setting for music playback
- 7 x 3D ambience effects for music playback
- 4 x PlayMode (Repeat One/Repeat All/Playlist Order/Intro Play)

Overview

The Jammin Pro HR-5 is an ultra small and extremely compact, but make no mistake – it's a truly professional solid-state audio recorder with time-stamp capability It captures audio directly on built-in 2GB memory, which is ready for more than 50 hours stereo recording, and also on high capacity SD/SDHC cards. You can record at super-clean 24-bit resolution with a wider dynamic range(up to 96kHz sampling rate) with HR-5, providing twice the digital audio definition of ordinary CD's.
A new high grade stereo condenser microphone and stereo speaker optimized for monitor are built into HR-5, complete with auto gain control, level meters, peak indicator and VOX (voice activated recording).

Just point and record your takes!

Important Safety Notice

⚠️ Read this manual before use and keep it handy for future reference.

Power requirements
AC adaptor operation:
- Be sure the use only an AC adaptor which supplies 5V DC and is equipped with a center-plus plug. The use of an adaptor other than the specified type may damage the unit and pose a safety hazard
- Connect the AC adaptor only to an AC outlet that supplies the rated voltage required by the adaptor

Battery Operation :
- Use to conventional AA size batteries.
- The HR-5 cannot be used for recharging
- If battery leakage has occurred, wipe the battery compartment and the battery terminals carefully to remove all remnants of battery fluids
- While using the unit, the battery compartment cover should be closed.

Environment
To prevent the risk of fire, electric shock or malfunction, avoid using your HR-5 in environments where it will be exposed to :
- extreme temperature
- Heat sources such as radiators or stoves
- High humidity or moisture
- Excessive dust or sand
- Excessive vibration or shock

Handling
- Never place objects filled with liquids, such as vases, on the HR-5 since this can cause electric shock
- Do not place naked flame sources, such as lighted candles, on the HR-5 since this can cause fire.
- The HR-5 is a precision instrument. Do not exert undue pressure on the keys and other controls. Also take case not to drop the unit, and do not subject it to shock or excessive pressure.
- Take care that no foreign objects (coins or pins etc.) or liquids can enter the unit.

Connecting cables and input and output
You should always turn off the power to the HR-5 and all other equipment before connecting or disconnecting any cables. Also make sure to disconnect all connection cables and the power cord before moving the HR-5
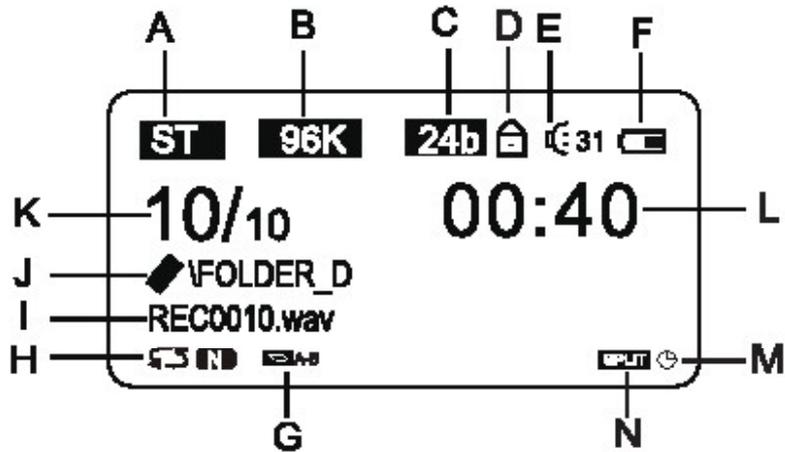
Alternations
Never open the case of the HR-5 or attempt to modify the product in any way since this can result in damage to the unit

Volume
Do not use the HR-5 at a loud volume for a long time since this can cause hearing impairment.

LCD Screen Description

A. Stereo/Mono mode indicator

B. Sample frequency indicator

C. 24bit/16bit indicator

D. Button Lock indicator

E. Volume Level indicator

F. Battery Level Indicator

G. A-B Repeat indicator

H. Repeat mode indicator

I. Message file name

J. Message folder name
◆ Built-in Memory ■ SD card

K. Message number

L. Record time indicator

M. Schedule record indicator

N. SPLIT / CUT indicator
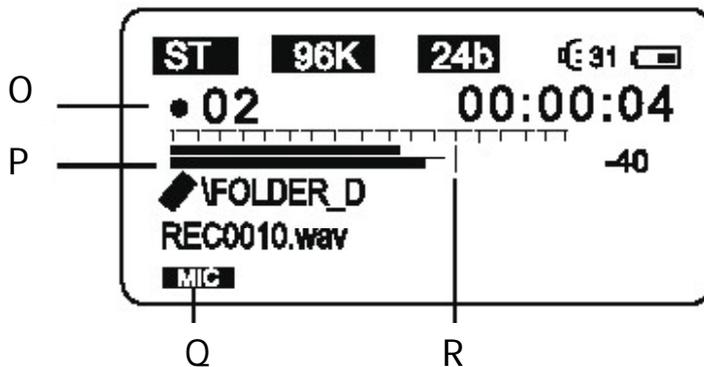
O. Operation Status

● Record   ‖ Pause   ▷ Play

P. Record Level

Q. Sound source indicator
MIC/EXT MIC/LINE IN

R. VOX Level

Panel Description
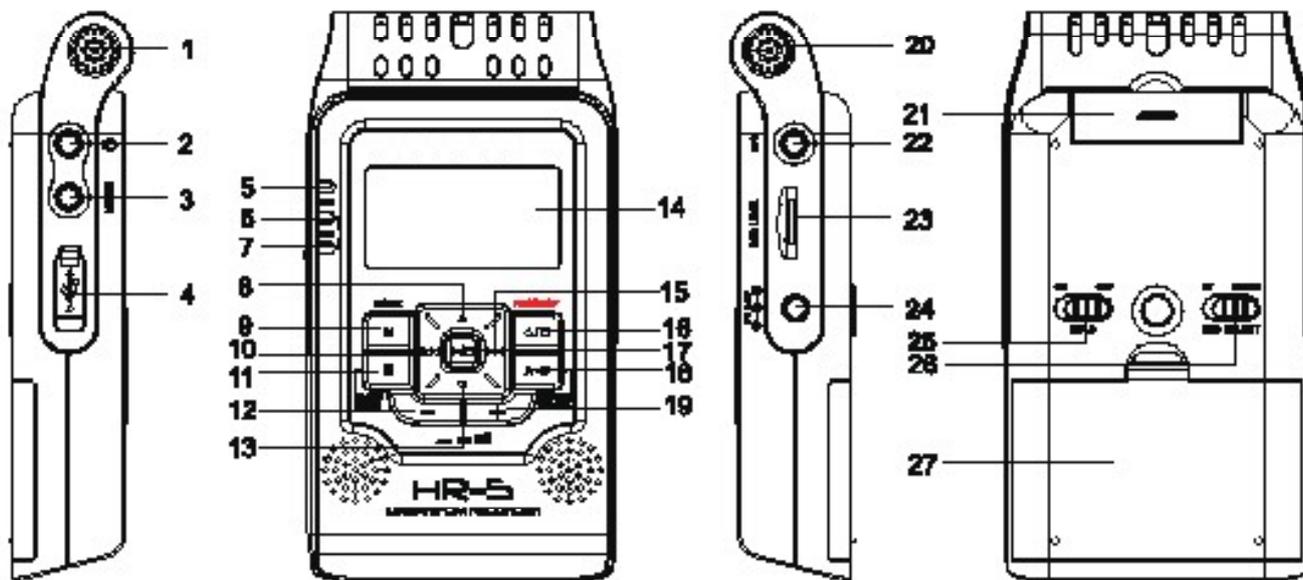
1. Built-In Microphone (Left)
2. 3.5mm Stereo Earphone Jack
3. Line-In Jack
4. USB port
5. Record indicator
6. Left Channel Peak Indicator
7. Right Channel Peak Indicator
8. Up button
9. Mode button
10. Previous track
11. Erase/Pause
12. Volume -
13. Down button

14. LCD Display
15. Next Track
16. Record / Stop
17. Play / Stop
18. Repeat / Folder
19. Volume +
20. Built-In Microphone (Right)
21. SD /SDHC card socket
22. External Mic socket
23. REC level control
24. DC adaptor input
25. Hold switch
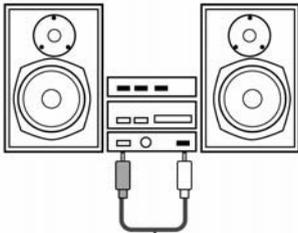26. Stereo/Mono selection switch
27. 2 x AA Batteries Compartment

Connection

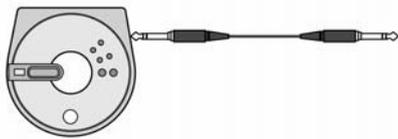Make connection to other equipment such as microphone and audio components as shown below

To monitor the output of the HR-5 using a stereo system,
connect a RCA to mini Jack cable to the Phones jack and adjust he
volume with the +/- keys

To monitor the output of the HR-5 using a headphones,
connect the phones to the Phones jack and adjust the volume
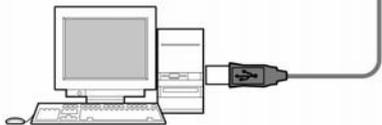with the +/- keys

Monitor System

To use a external microphone, connect
the mic to the 'MIC' jack.
Internal microphone will be disabled

Headphones

External Microphone

CD Player

To record the output signal of a CD
player or similar,
connect it to the Line-In jack

AC Adaptor

To operate HR-5 on AC power, be sure
to use a correct voltage and polarity AC
adaptor,
Using a different adaptor can lead to
damage

Computer

When the HR-5 is connected to a computer via the USB port (mini USB),
audio file stored on the SD card and internal memory in the HR-5 can be transferred
to the computer

NOTES:
- To use the built-in microphones, disconnect any equipment from the external [MIC] jack or [Line-IN] jack. If anything is connected to these jacks, the built-in microphones are deactivated
- If equipment is connected both to the external [MIC] jack and [Line-IN] jack, the[Line-IN] has the priority.

Battery Installation

Replacing new batteries will not lose the files stored in the HR-5. If HR-5 is switched OFF with normal operation, it will keep the Date / Time and preference setting as previous setting
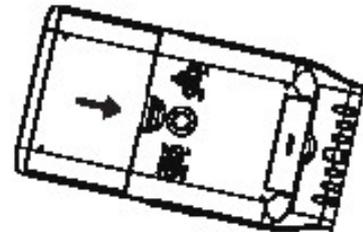
1. Push to open the battery cover.
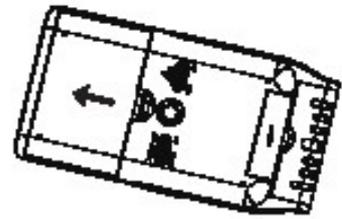
2. Insert 2 x AA size batteries with correct

   polarity indicated.
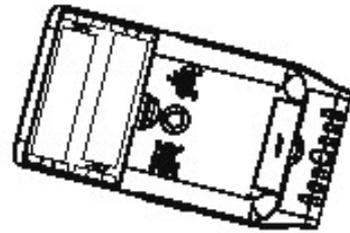
3. Close the battery cover

BATTERY INDICATIORS:

* The batteries are fresh.

* The batteries are exhausted, and need to be charged up
  or replaced.

Note: If necessary , it may provide power supply by connecting the unit (USB jack) to
a PC by USB cable ,or connecting the unit (DC jack) to electrical outlet by AC Adapter.

BATTERY PRECAUTIONS

Follow these precautions when using batteries in this device:

1. Only use the battery with specified size and type .
2. Be sure to follow the correct polarity when installing the batteries as indicated on the
   battery compartment .Reversed polarity may cause damage to the device .
3. Do not mix different types of batteries together (e.g.Alkaline and Carbon-zinc) or old
   batteries with fresh ones .
4. If the device would not be used for a long period of time , remove batteries to prevent
   damage or harm from possible battery leakage .
5. Do not try to recharge batteries without rechargeable function , or they will overheat and
   rupture .(Follow battery manufacturer's directions .)
6. Never try to remove the batteries while using .

Inserting and removing the Card

1 Open the SD card door, push the card fully until it clicks. Being careful about the direction you insert it.
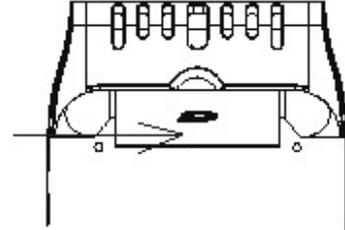
2 Close the Card door .
- If the card door cannot be completely closed, remove the card ,check its direction and then insert it again.

To turn on/off the unit

1 Press and hold the PLAY/STOP key more than two seconds, and the red indicator will flash, then enter into the default status --- voice mode.
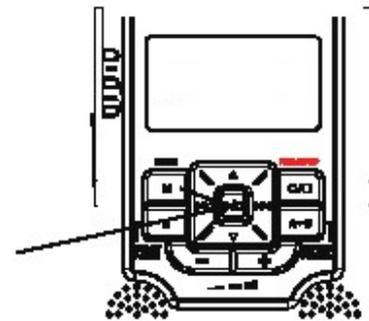
2 Press PLAY/STOP key more than two seconds，then the LCD goes out ,and the unit is turned off.
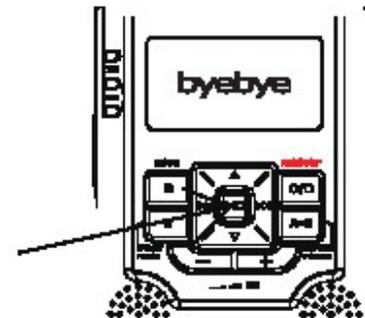
- it shows "Jammin Pro" on LCD while turning on the unit;
* it shows "byebye" on LCD while turning off the unit.

There are four memory storage areas(file folders) labeled A,B,C,D in the unit for your choice , it can store 99 files in each file folder , so it can store 396 in all . Absolutely ,it must be subject to its memory capacity .

Select a file folder

1 At recorder mode, press the "A-B" key to switch file folder .

  * The Factory setting is "A" .
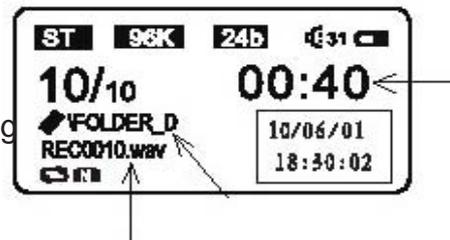
2 As the right picture , it shows the file folder name on LCD .

3 At recorder mode , press ▽ key ,it shows the recording date and time about this file ,as right picture.
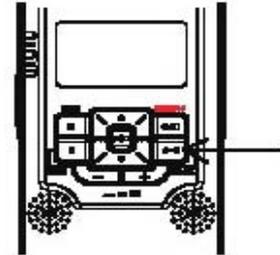
> **Note :** The name at the left of the LCD indicates the current file. The number at right indicates the total time recorded in the selected file folder.
> If the unit is full, " FULL" will appear on the LCD . Delete or move files, or change another new SD card , it may record right along .

HOLD and MIC select function

1 Slide the HOLD switch to the " ON " (Lock) position, then all buttons will be locked.

2 Slide the HOLD switch to the " OFF " position to Unlock all buttons.

3 Slide the Mic Selector switch to the "ST" or "MONO" position, and " ST " or " MONO " will be shown on LCD as right picture indicating Stereo (ST) or Mono recording.
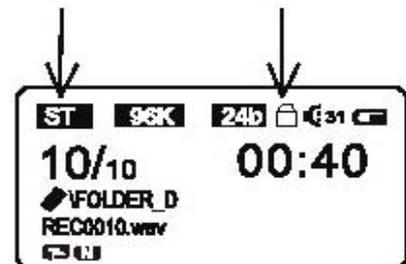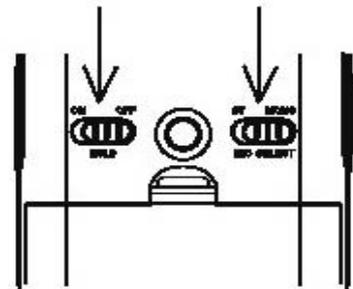
Recording a File

Before recording , you can enable the VOX function (Voice Activate Recroding) for automatic record. You can go to « VOX setting » in the recording menu and select you desire VOX level. When record button is pressed and the input signal from Microphone/Line-In reaches the VOX level, recording will start automatically.

Preparing for recording

1 At recorder mode ,you may select a desired file folder by "A-B¨ key , and if VOX is enabled, VOX will appear on LCD.

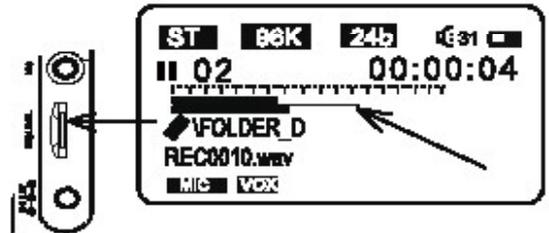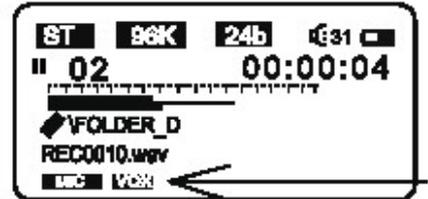**2** Press the REC/STOP button HR-5 will enter a pre-recording status and the REC record indicator will blink.
Current input level, recording status (bitrate, resolution, Mono/Stereo) are then shown on LCD.

Recording File

1 Then you can turn the REC Level knob to adjust the input level.
Input level, recording status (bitrate, resolution, Mono/Stereo), File name are shown on the LCD.

● If the L/R Peak indicator blinks ,it means the input level is too high ,please turn the REC level knob to lower input level in order to avoid unwanted distortion.
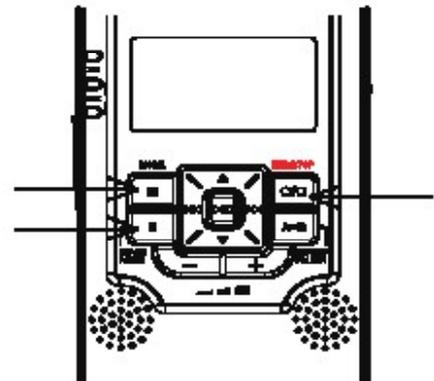
2 Then press REC/STOP or ERASE/PAUSE key to start recording
However ,if you press Mode key ,it will cancel recording to return to recorder mode .

3 You can pause the recording by pressing ERASE/PAUSE key . And then REC indicator will flash,and press again to resume recording.
To Stop recording, you can press REC/STOP and the file will be stored in the internal memory or SD card.

Note : There are three recording inputs (Internal Mic ,External Mic , Line in) ,and the sign will display on LCD , current recording source will be displayed on the LCD screen.

Playback and Repeat

Playing back a file

1 Select a Folder by pressing REPEAT/FOLDER button and select a file. File name / Duration ./ Location will be shown on the LCD as right picture.

```
ST  96K  24b  ((31 ▭
10/10        00:40
✎ \FOLDER_D
REC0010.wav
↺ (N)
```

2 Then press PLAY/STOP key to play it . you may press ERASE/PAUSE key for a pause , press PLAY/STOP key to stop it ,then press ◁◁ or ▷▷ key to go to the previous or next file, Press "+ / -" to adjust speaker volume while "0" is minimum volume , "31" is maximum volume.
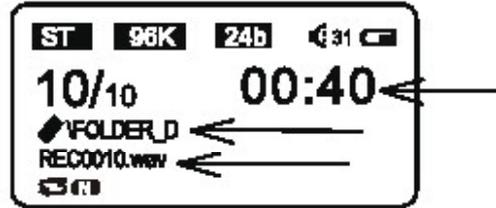
> ● Press and hold ◁◁ or ▷▷ key to run Fast Rewind or Fast Forward while playing back a file.
> * For private listening, connect an earphone to EARPHONE jack.

Repeat Mode

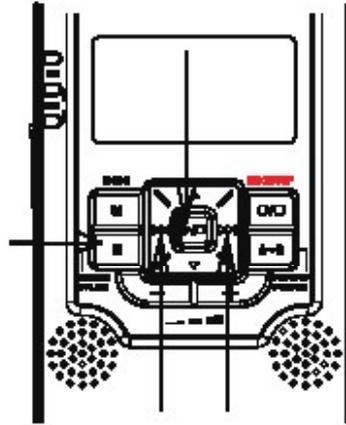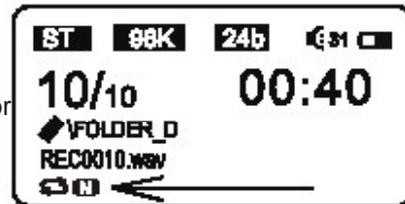**1** There are four playback mode in HR-5. Press and hold REPEAT/FOLDER key to switch between Repeat one ↺(1) Repeat all ↺(A) ,Play normally ↺(N) , and Intro Play ↺(I) while playing. Then the Repeat indicator will display on the left bottom of LCD, and this setting will always be kept until you switch it to another mode
* Factory setting is " ↺(N) ".

```
ST  96K  24b  ((31 ▭
10/10        00:40
✎ \FOLDER_D
REC0010.wav
↺ (N)
```

> Note:
>
> Repeat one ↺(1) Playing back the current selected file repeatedly ;
> All Repeat ↺(A) Playing back all files in the current selected file folder repeatedly;
> Play normally ↺(N) Playing back the selected file just for one time ;
> Intro Play ↺(I) Playing back the first 10 seconds of each file from the current one to the last orderly within this file folder .

A/B Looping

1 While playing back a file, press REPEAT/FOLDER key once to set the starting point "A", and ⟲ A- displays on the left bottom of LCD ,then press REPEAT/FOLDER again to set the end point "B" at the desired point , ⟲ A-B displays on the left bottom of LCD.

```
ST  96K  24b  ((31 ▭
▶ 02      00:00:04
▬▬▬▬▬▬▬
                -40
✎ \FOLDER_D
REC0010.wav
↺ (N) A-B
```

2 HR-5 will then keep looping from point A to B until you press the REPEAT/FOLDER once again to resume to normal playing.
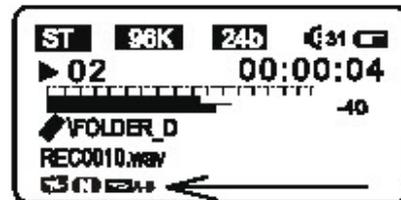
Delete a file

1 Select a desired file , and press ERASE/PAUSE
key once, and select " YES " for deleting the file
or " NO "to cancel by pressing ◁◁ or ▷▷ key , then
press PLAY/STOP key to confirm to delete it.
* For the Deletion of all files within a file folder refer
to following section .
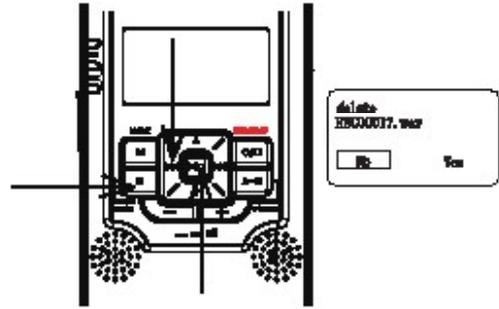
Recorder setting

1 At recorder mode, press Mode key to display the Recorder setting ,and select a setting
item by △ or ▽ key ,and then press PLAY/STOP or ▷▷ key to enter into branch setting
menu .

2 Confirm your setting according as your demand by PLAY/STOP key ,then press Mode or
◁◁ key to return upper setting menu.

```
Recorder
• Quality
• File Format
• VOX Setting
- MIC ALC
```
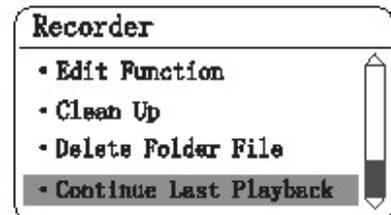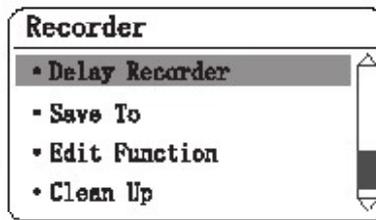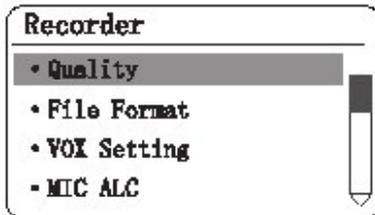
```
Recorder
• Delay Recorder
- Save To
• Edit Function
• Clean Up
```

```
Recorder
• Edit Function
- Clean Up
- Delete Folder File
• Continue Last Playback
```

3 Setting instructions .

1**. Quality :**
If you set the file format for WAV ,then 96K for
Sample Rate and 24bit for Sample Bit are the best quality
recording .
If you set it for MP3 format , then HP is the best
quality (192 kbps is for Stereo ,128kbps is for Mono) .

* The better record quality you set , the larger
memory space it will occupy .

```
Quality
• HP:192/128Kbps
• MP:128/96Kbps
• SP:96/64Kbps
• LP:64/32Kbps
```
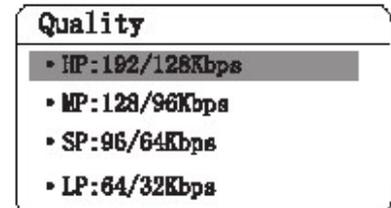
2. **File Format :** There are two kinds of formats for recording files (MP3、WAV) .

3. VOX Setting : You can enable the VOX (voice activated recording) or set the VOX recording level

4. **MIC ALC:** You can turn ON the Mic Auto-Level-Control feature. The input level will be
automatically controlled by HR-5.
Notes: When ALC is ON, input level knob is disabled.

5. **Delay Recorder :** You can adjust the delay recording time from 5 sec – 60 sec count down.
Recording will start automatically after count down finish

6. Save to: You can select either recroding to «inside memory» or «SD Card»

7. **Edit Function** : Set the Split or Cut function ,"split " or "cut" will be shown on LCD.

<A> Split :While playing a file, press A-B key to select the split point. Then the message will be splited into two sections by the Split point ,and the second section is moved to the end of this file folder .

<B> Cut : While playing a file, press A-B key once to select point A. A- icon will be displayed on LCD , press the 2nd A-B key again to select B. Then select "yes" and message from Point A to B will be cut.
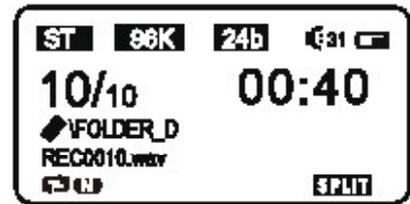
8. **Clean Up :** It is for refreshing recording file list , and then goto recorder mode .

9. **Delete Folder File :** Delete all files within current file folder .

10. **Continue Last Playback :**
Continue the previous playing if you stop playing a file previously ,otherwise, it will just go back recorder mode.

Main menu and basic operation

1 Press and hold MODE key for 3 secs. to goto main menu , and current time will be shown on the left top of the LCD , as right picture .

2 You can select the menu index by pressing △ or ▽ key, and press PLAY/STOP key to enter.
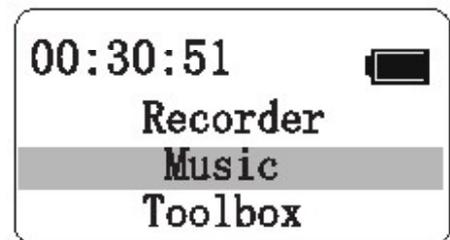
Music Mode

1 Select Recorder to return to recorder mode .

2 Select Music to enter Music mode, and please select MediaLib Update to update the song list. It may takes a 1-2 minutes.

1. All Music : All recording files and downloading music files are shown.

2. Artist : All music files are sorted by artist in the mp3's ID3 info except recording files.

3. Album : All music files are sorted by album in the mp3's ID3 info except recording files.
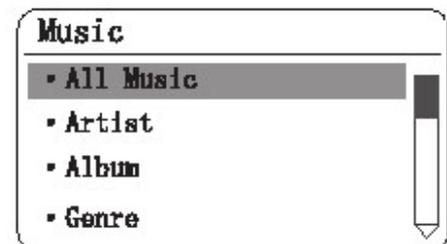
4. Genre : All files are sorted by genre in MP3's ID3 info

5. Dir List : All downloaded music files show here. (except the recording file)
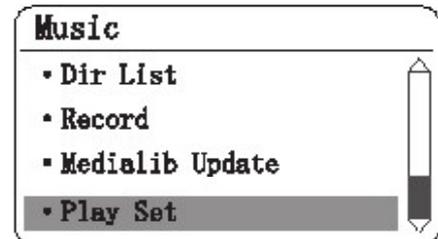
6. Record : All recording files show here .

7. Medialib Update : Refresh music files list .

```
Music
• Dir List
• Record
• Medialib Update
• Play Set
```

8. Play Set :   **PlayMode** ,Repeat One、All Repeat、Intro Play、order (Play Normally) ;

EQ select : You can select up to 7 preset EQ for MP3 music playback :
<1> No effect ; <2>Pop Music ;<3> Rock ; <4> Dance ;
<5> Jazz ; <6> Classic ;<7> Speech .
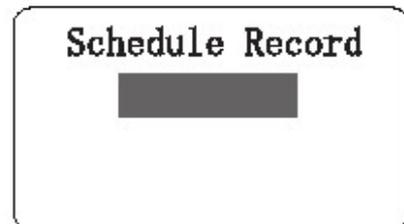* factory setting is " No effect " .

3D select: You can select up to 8 ambience 3D effect for MP3 music playback
<1> Turn off tone ; <2> Generic ;<3> Studio ; <4> Cathedral ;
<5> Concert hall ; <6> Submerge ; <7> Interior ; <8>Psychotic .
* factory setting is " Turn off tone " .

3   Select Toolbox to enter System Setting mode

1. Time Setting : Set date and timeof HR-5 ,and the display format is "Year/ Month/Day Hour : minute", set the value by UP and DOWN   keys , then Press NEXT and PREV keys to select another item .

```
System Setting
• Time Setting
• Schedule Record
• Timing Shutdown
• Backlight Time
```
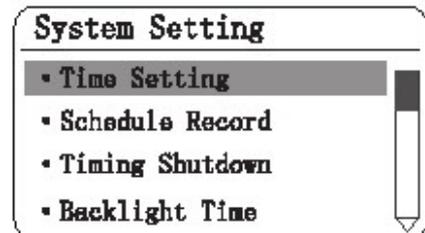
2.   **Schedule Record:**
   You can schedule a recording at a desire time period by clicking into «Schedule Record».
   - Press UP / DOWN key to select the schedule is Everyday / Once or turn OFF the schedule
   - Press NEXT key to adjust the time period
   - Press UP / DOWN to adjust your desire start time period from 00:00 to 23:59
   - Press NEXT key to adjust the your desire stop time period from 00:00 to 23:59
   - Press MODE button to exit the «Schedule Record» and back to main menu
   - An icon 🕘 will be shown on the screen in recorder mode

```
Schedule Record
```

3. Timing Shutdown : Set automatic power shut down timer for this unit from " OFF " ,10minutes , 30 minutes and 1 hour for you choice .
* Factory setting is OFF .

4. Backlight Time : Set automatic backlight timer for LCD from " Always On " ,5 secs.,10 secs.,15 secs. 20 secs.,30 secs. for your choice .
* Factory setting is Always On .

5. Languages : There are four languages built for the menu. English , simplified Chinese, Traditional Chinese, and Japanese .
* Factory setting is English .

6. **Device Information:** It shows the all the HR-5 product information.

7. **Recover System** : Restore the unti to Factory setting.

8. **Format U Disk :**
   Format the internal memory of the HR-5 and all recording will be lost.
   . *Notes: Please install or Backup the software – Magix Audio Cleaning Lab SE before you format the HR-5.*

```
System Setting
• Languages
• Device Information
• Recover System
• Format U Disk
```
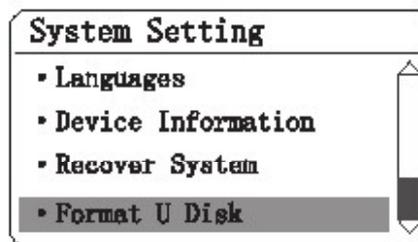
IMPORTANT NOTES:

· Once message(s) is deleted or the unit is formated, they can not be recovered.
· Format process will take about 20 seconds, during formatting time all keys are invalid.

> Download and upload files to PC

1 Connect the HR-5 to a computer by the included USB cable .

2 Copy (recording) files to a removable disk or computer ,or copy music files to your HR-5 according to Folder/Album/.Artist/Genre
HR-5 supports MP3, WAV, WMA, FLAC, AAC, OGG files

3 After finishing your operation, disconnect the unit from PC.

CARE AND MAINTENANCE

RESETTING THE UNIT
.If the unit is exposed to a strong static electrical charge, the unit may lock up, or the LCD may darkle. This is rare, if it does happen, just remove the batteries, then reinstall it , at this rate, all settings will return to their original values, but all previous messages are saved.

TRAFFIC SAFETY
.Do not use it while operating a motorized vehicle. It may cause a traffic accident and it is illegal in some areas.
.Even if your earphone is designed for open-air type to ensure you hear outside sound, do not turn the volume up so high that you can not hear other voice around you.
.Use it with extreme caution or temporarily pause in latent accident situations.

CARE
.Keep the unit dry. If it gets wet, wipe it immediately. Liquid may contain minerals that can corrode the circuits.
.Use and keep the unit only in normal temperature environment , for extreme temperature may shorten the life of electronic devices,damage batteries and/or melt plastic parts.
.Keep the unit away from dirt and dust.
.Handle the unit gently and carefully. Dropping it may cause damage and cause the unit to work improperly.
.Clean, wipe the unit with a damp cloth occasionally to keep it new face.
.Do not use harsh chemical detergent to clean.

Main Unit Specification

Recording File		Linear PCM (Pulsed Code Modulation) in WAV format
		MP3 (MPEG-1/MPEG-2 Audio Layer3)
Memory		Build in 2GB NAND Flash Mmeory
		Support SD(16MB~2GB) and SDHC (2GB ~ 32GB) memory card
Display		35mm x 20mm with 128dot x 64dot
Display backlight		Amber
Recording Format	PCM (WAV)	Quantization 16 / 24bit
		Sampling Frequency 16 / 22.05 / 24 / 32 / 44.1 / 48 / 96kHz
	MP3	Bit rate 32, 64, 96, 128, 192 kbps,
	Channel	Stereo / Mono
Maximum File Size		2GB
Bulid-in Microphone		2 x dia. 9mm high senstivity full range Microphone
Build-in Speaker		2 x 16mm full range speaker
VOX		Yes
Output power		2 x 100mW @ 16 ohm
Microphone Jack		3.5mm Stereo Mini jack, impedance 2K ohms, input level 0dBm ~ -60dBm
Line-In Jack		3.5mm Stereo Mini jack, impedance10K ohms, input level 6dBm ~ -20dBm
Earphone Jack		3.5mm Stereo Mini jack, 2 x 10mW @ impendance 32 ohms,
USB		Mini-B Type (USB2.0 High Speed Compatible)
Power Soruces		2 x AA (LR6) Alkaline Battery
		AC adaptor 5V
Battery Life (Alkaline battery)		12hours for recording and 10 for playback
Unit size		112 mm x 21 mm x 60mm
Weight		76g (without battery)
Accessories		USB cable / Line out cable / earphone / Stand

* Specifications are subject to change without notice.

Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

1. Connect HR-5 to PC via the included USB cable

2. HR-5 will appear as a drive in your PC
(2 Drives will appear as the 1st driver is for the internal memory and the 2nd driver is for the SD card memory)

Removable Drive (F:)   Removable Drive (G:)

3. Select the drive for the internal memeory and click folder [Magix Audio Cleaning Lab SE]

MUSIC   RECORD   Magix Audio Cleaning Lab SE

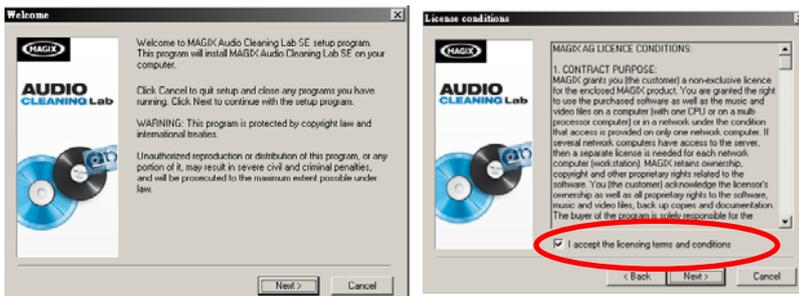4. Double Click the start.exe

addon   autorun.inf   start.exe

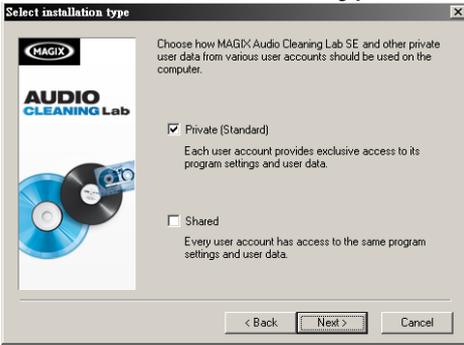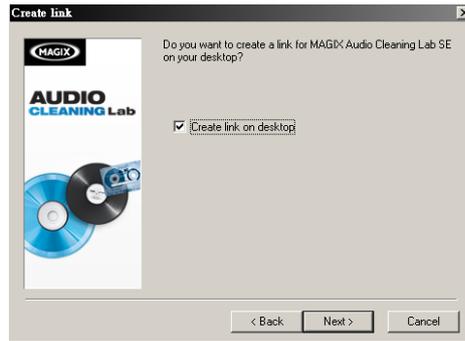5. Click the "Install" on the top left corner

6. Select you language

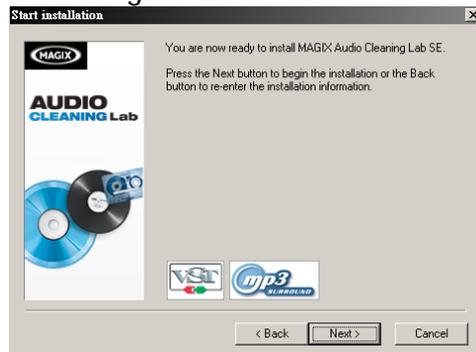7. Click "Next" to continous and tick the box to confirm the agreement

8. Select Installation Type and click "Next" to continue

9. Click "Next" to confirm the installation folder and tick the box if you want to creat shortcut on Desktop, then press "Next" to continue

10. Untick the box if you don't want to register online and click "Next" to continue and

11. Installation start and it may takes couple minutes to finish,

12. Double click the Magix Audio Cleaning Lab SE icon to run the software.

NOTES: If the HR-5 internal memory is formatted or deleted before installation, the Magix Audio Cleaning Lab SE CANNOT be recovered, please install or backup the software before you format the HR-5 memory.

Jammin Pro