

ROLLS

HR73 MP3 Recorder

OPERATION GUIDE

SPECIFICATIONS

Min Input Impedance:	600 Ohms unbalanced
Output Impedance:	1K Ohms line, 16 Ohms EARphone
Digital Record:	MP3 Format
Sample Rate:	44.1 KHz, 128K bps (CD quality)
Internal Memory:	120M
External Memory:	SD Card slot (cards not included)
Memory Access:	USB connector type USB 1.1
Compatible Operating System:	Windows 98, ME, 2000, XP
EQ Modes:	5; Normal, Classic, Pop, Rock, Jazz
Inputs:	Stereo RCA, 2: 1/4' unbalanced Mic in
Outputs:	Stereo RCA, 1: 1/8" (3.5mm) EARphone
Power:	+12 VDC - ROLLS PS27
Current Consumption:	< 350 mA
Size:	8.625" W x 1.75" H x 8" D
Weight:	2.5 lbs

Congratulations, and thank you for your purchase of the HR73 MP3 Player-Recorder. Please review this guide carefully to ensure proper operation.

WARRANTY INFO

Please visit our website; www.rolls.com, for complete information on the Rolls Warranty, and to register and initiate this product's warranty.

ROLLS

Rolls Corporation
Salt Lake City, UT
04/10

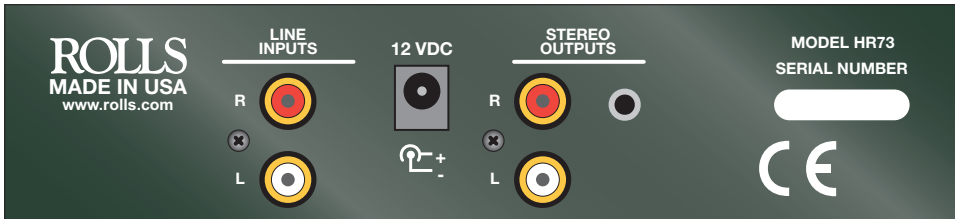
DESCRIPTION

FRONT PANEL



- **POWER:** When pressed in, applies power to the HR73
- **LCD DISPLAY:** Indicates the Track, Play, Record, Time, and other function status. See MP3 Recorder Display information located on the next page.
- **▼ Button:** Decrements the Track Number - operates quickly when held in (except in MP3 mode).
- **▲ (LINE) Button:** Increments the Track Number - operates quickly when held in (except in MP3 mode). In MODE operation, this button selects the Line Input for recording.
- **A-B Button (EQ):** Starts and Stops the A-B repeat playback operation. In MODE operation, this button selects between the different Equalizer settings.
- **Repeat Mode Button:** Selects the playback repeat. When the single arrow is displayed in the LCD display, the current track will repeat, when both arrows are displayed, all tracks will play and repeat. When neither arrow is displayed, the current track will play and stop. NOTE: The repeat all function does not operate in VOC mode.
- **<< Rewind Button (Vo/M3):** This button is pressed and held during Play mode to rewind through the track. In MODE operation, the button selects between VOC and MP3 file selection (MODE operation is then exited).
- **>> Forward Button (DEL):** This button is pressed and held during Play mode to fast-forward through the track. In MODE operation, this button deletes the current track.
- **REC:** When pressed begins the recording process. When the memory is almost full, the display will begin to count down (30, 29, 28... etc. to 5,4,3,2,1 and then automatically stop. You MUST select a blank track. If there is material on the selected track, the display will show three lines.
- **PLAY/ II (pause):** Begins playing the current track - also pauses the track at the current location.
- **STOP:** Stops playback and recording. In MODE operation, this button selects between the internal Flash memory, and the external SD Card memory.
- **MODE:** Enables the special MODE functions (ie; LINE recording, EQ selections, etc.). If no selection is made within 5 seconds, the unit returns to normal mode operation.
- **Ear Output:** 1/8" (3.5 mm) output jack for connection to stereo earphones or headphones.
- **USB Connector:** Connects via USB cable to a computer's USB port.
- **SD Card Slot:** Accepts SD memory cards (up to 512 M)
- **L/L+R R Mic Inputs:** 1/4" unbalanced microphone level inputs.

REAR PANEL



- **LINE INPUTS:** Two RCA (stereo) line level Input jacks.
- **Power Jack:** Connects to the enclosed Rolls Power Adapter.
- **Stereo Outputs RCA:** Unbalanced RCA outputs.
1/8" (3.5mm): Stereo Line/Headphone Output

Nothing plays on the HR73 and The display reads "F no F" or "C no F" what does this mean?

It means that you have no MP3 files in memory to play. "F no F " means the internal memory has no files to play and "C no F" means the SD card has no files to play. If you get this message you are in the MP3 mode play format. Try changing to VOC mode format on the HR73. If there are VOC files on the card previously recorded you must play them back in the VOC mode of the HR73. The files recorded on VOC can only be played back in VOC mode. This applies to internal and external memory.

I get no sound from the STEREO OUTPUTS?

Make sure the VOL level is turned up if the level is at 0 you will hear no sound out of the Stereo Outputs.

IN VOC MODE I cannot get the repeat all function to light.

The HR73 does not REPEAT ALL in voc mode.

When I plug the HR73 into my computer the display does not light as bright as when the power adapter is used?

When using the USB jack from your computer to power the HR73 the display might be much dimmer this is normal. This is the proper way to exchange files to and from your computer. Plugging in the power adapter to the HR78 while using the USB from your computer is not recommended, as it may damage the HR78 or your computer.

FAQ:

What is VOC?

The VOC is a mp3 file with a unique file name. When you record on the internal memory or SD card the HR73 has to keep the tracks in order it does this by giving the MP3 a file name like M_INT_XX.mp3 for the internal memory or M_EXT_XX. mp3 for the SD card. If these file names were not used the HR73 would have no way of knowing what track order they were recorded to or how to play them back. The last page of the manual explains this in better detail.

Why can I not record onto my computer from the HR73?

When you plug the HR73 into your USB on your computer you can only access the internal memory of the HR73. It will not access the SD card nor can you record onto your computer in real time. You must record your files on to the internal memory then transfer them via USB to your computer.

When I plug the HR73 into my computer I cannot access the SD card plugged into the HR73?

The USB from the HR73 will not access the SD card. The only function of the USB output of the HR73 has is to access the internal memory of the HR73. Once the HR73 is plugged into a computer USB port all buttons on the front of the HR73 become inoperable.

How much play time does the internal memory have for recording?

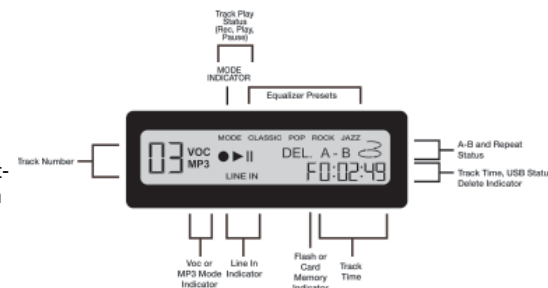
You can record for 116 minutes with the internal memory. Sample rate 44.1 Khz, 128K bps.

Can I record onto a thumb drive?

No, The only record options for the HR73 are the internal memory or on to an SD card.

DISPLAY

- Track Number: Indicates the current track that is playing or being recorded onto.
- Track Play Status: Indicates the status of the current track (Record; circle, Play; triangle, and Pause; dual lines)
- MODE INDICATOR: Indicates the MP3 Recorder is in MODE operation and the buttons indicated with red lettering will perform those functions.
- Equalizer Presets: Shows the five preset equalizer settings.
- A-B and Repeat Status: Indicates whether the playback will repeat between two set A and B points, repeat one track, repeat all tracks, or play through all tracks once then stop.
- Track Time, USB Status, DELETE indicator: This area will indicate the current track time when playing or recording, indicates USB status (usb connected and data transfer), and the delete status of the current track.
- Voc or MP3 Mode Indicator: Indicates whether the MP3 Recorder is in VOC or MP3 mode.
- Line In Indicator: Indicates whether the MP3 Recorder is receiving the signal from the front panel Mic inputs (no LINE IN indication), or the rear panel Line In inputs (shows LINE IN status).
- Flash or Card Memory Indicator: An "F" before the Track Time indicates the program material is stored in the MP3 Recorder's internal Flash memory. A "C" in that place indicates the material is stored onto the SD Card.
- Track Time: Indicates the current track recording or playback time.



RECORDING TO INTERNAL MEMORY:

Recording from the Line Inputs

If "Line In" is not already shown in the display, press MODE then the UP/LINE button. The display should indicate "LINE IN". Make sure a blank track is selected. Press REC, and send a signal to the MP3 Recorder. The circle next to the track number will blink twice, then recording begins. Keep this delay period in mind so you don't lose program material at the beginning of a track. When you are finished recording, press the STOP button. These files are automatically saved as VOC files, and are in the format indicated on the last page of this guide (there is no recording in MP3 mode).

While recording you can monitor the signal with the EAR 1/8" jack by plugging stereo headphones into the HR78. Note there is no volume control for the EAR level nor is there a volume control for the line in signal being recorded by the HR73. The EAR monitoring is only active when the RECORD is depressed all other times you will not hear anything out the EAR for monitoring except on playback.

The HR73 has 99 tracks that can be used in any order.

Recording from the Mic Inputs

If "Line In" is indicated in the display, press MODE then the UP/LINE button to enable the MIC Inputs on the front panel. Connect your microphone(s). Proceed as indicated above in "Recording from the Line Inputs".

Note: You can only use mono (tip-sleeve) 1/4" mic jack for plugging into the HR78.

You cannot plug condenser mic's into the HR78.

The EAR monitoring is only active when the RECORD is active.

The left mic input jack will send a signal to the left and right. If you plug a single mic into the Right mic input you will only get a right output. Using the left and right together will give you a separate left and right output.

RECORDING DIRECTLY TO AN SD CARD:

-To record directly to the SD card the HR73 must be in VOC mode.- After an SD card is inserted the display will indicate the letter "C" to verify that an SD card is present. Select VOC mode on the display. Select a track (1-99) to record to. If the track is already filled you must first delete the track to record. All other functions of recording are as stated above **(there is no recording to the SD card in MP3 mode).**

IMPORTANT NOTE FOR SD CARD RE-CORDING:

The SD card when recorded to directly with the HR73 will split the card into two separate sections MP3's and VOC's both are explained on the last page of this manual. If the SD card had MP3 files on it they will remain the same after using the HR73 to record directly in VOC mode you will end up with both MP3's and the VOC files on the SD card. Playback of MP3's can only be done when the HR73 is set to MP3 mode also VOC files can only be played back in VOC mode.

A NOTE ON RECORDING LEVELS: The HR73/RMS273, like all digital recording devices, performs at its best with a maximum input signal without clipping. This means that a weak, low-level recorded signal will likely have artifacts or noticeable noise on it.

PLAYBACK

To switch from internal memory, to SD card memory press MODE, then the STOP button. There is a one to two second delay while the unit switches memory.

Make sure all proper connections are made; Line Outs are connected to a mixer or amplifier, the EAR out is connected to stereo earphones or headphones. Please note that there is no level control on the HR73 and that program material may be loud.

To switch from internal memory, to SD card memory press MODE, then the STOP button. There is a one to two second delay while the unit switches memory.

Select the track you wish to listen to, press the PLAY button to begin playback. If you wish to change the Equalizer settings, press the STOP button to stop playback. Press the MODE button, then press the A-B/EQ button repeatedly until you reach the desired EQ setting. Press MODE to exit and return to normal mode.

If you wish to hear a certain portion of the program material repeated; begin playing the track, when the material reaches the beginning of the part you want repeated, press the A-B button. When the material reaches the ending of the part you want repeated, press the A-B button again. This portion of the material will then playback repeated continuously until either the A-B button is pressed again, or the STOP button is pressed.

Remember; only files in the VOC format may be played back in VOC mode, all other mp3 files will be played back in MP3 mode.

USB OPERATION / FILE MANAGEMENT

Please be aware that if you are connecting this unit to a computer with an operating system of Windows 98 or below - you must visit our website at www.rolls.com to download and install the USB driver.

Windows XP recognizes, and automatically installs the driver, and will recognize the MP3 Recorder. Once the USB cable is connected, the MP3 Recorder internal memory is displayed as one drive. If an SD card is installed - it comes up as a separate drive. For example; the internal memory might be drive D, and the SD card assigned drive E.

NOTE: The front panel buttons (except the POWER switch) of the MP3 Recorder do not function when the unit is connected via USB to a computer.

VOC Mode files

In order for files to be accessed in VOC mode, they MUST be stored in the following format:

M_INT_XX.mp3 for internal memory

M_EXT_XX.mp3 for external or SD card storage.

XX stands for the track number - these must be .mp3 files for playback.

MP3 Mode files

.mp3 files may be stored in either memory (internal or SD card) without renaming them, but they may only be accessed in MP3 Mode.

Maximum memory for the internal drive is 120M, maximum memory for the SD drive is 512M.

To DELETE files - select the file you wish to delete, press the MODE button and press the ">> DEL" button. The display will read, "dEL". To delete the file, press the ">>/DEL" button again.