



## Rolls HRS84 FM Digital Tuner User Manual

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# ROLLS

### Rolls HRS84 FM Digital Tuner



### Specifictaions

- **Tuning Range:** 87.5 – 108 MHz
- **30 dB quieting sensitivity:** 28 dB
- **Image Rejection 105.9 MHz:** 20 – 26 dB
- **3dB Limiting Sensitivity:** 28 – 35 dB

- **THD 1 mV Input:** 0.5 – 2 %
- **Auto Tuning Sensitivity 97.9 MHz:** 25 – 30 dB
- **Current:** 100 mA
- **Supply Voltage:** 12-15 VDC
- **Dimensions:** 6.75"w x 3"d x 1.6"h
- **Weight:** 1.1 lbs

## INTRODUCTION

Thank you for your purchase of the Rolls HRS84 FM Digital Tuner. This unit has been carefully designed and assembled to provide years of reliable FM reception. Please read this manual carefully as it contains important information regarding the proper setup and operation of the HRS84.

### • FEATURES:

- Output Level control
- RCA and XLR balanced line level outputs.

### • INSPECTION

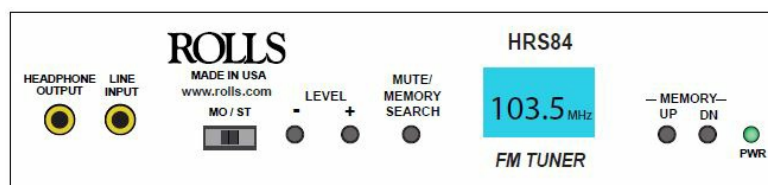
Unpack and Inspect the package. Your HRS84 was carefully packed at the factory in a protective carton. Nonetheless, be sure to examine the unit and the carton for any signs of damage that may have occurred during shipping. If obvious physical damage is noticed, contact the carrier immediately to make a damage claim. We suggest saving the shipping carton and packing materials for safely transporting the unit in the future.

### • WARRANTY

For complete Warranty information and registration, please visit our web site; [www.rolls.com](http://www.rolls.com). Click on the REGISTER YOUR WARRANTY HERE line.

## DESCRIPTION

### FRONT PANEL



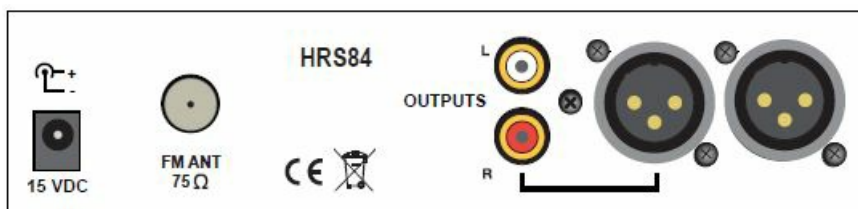
- **DISPLAY:** LCD display showing the active information relevant to the current operation of the HRS84.
- **HEADPHONE OUTPUT:** Standard 1/4" stereo headphone output.
- **MO / ST:** Selects between Stereo and Mono operation.
- **LINE INPUT:** This is an input that when used will disconnect the tuner from the rear outputs and send the LINE INPUT to the HEADPHONE, RCA and XLR outputs.
- **MUTE/MEMORY SEARCH:** When pressed unit will MUTE. When held in for 2 seconds unit will search and store all presets automatically. (see last page of manual for more information)
- **LEVEL:** Adjusts the output level of all outputs HEADPHONE, RCA and XLR balanced line level outputs.
- **MEMORY UP DN:** Selects the preset stations that the HRS84 is receiving. Pressing and holding the + or –

buttons will auto search for the next station.

## HRS84 DISPLAY

- Channel Mhz – indicates Megahertz of station being received
- Signal strength indicator
- Mute indicator

## REAR PANEL



- **15VDC:** USE ROLLS SUPPLIED ADAPTER ONLY!!!
- **Outputs:** RCA stereo outputs.
- XLR balanced line level outputs.
- **FM ANT. 75 Ohm:** Connects to a 75 ohm FM antenna (not included).

## CONNECTION

- Connect the Rolls supplied adapter to the VDC power jack of the HRS84, and to an AC outlet with the proper voltage.
- Connect the HRS84 Left and Right outputs to a mixer, amplifier, or other audio device.

## FM Antenna

### INDOOR FM ANTENNA

- Connect the antenna to its corresponding input on the rear panel of the HRS84. While listening to a broadcast, move around until the antenna is facing a direction where the signal comes in the strongest. Secure the antenna in this position.

### OUTDOOR FM ANTENNA

- Installation of an outdoor FM antenna is recommended for a very high quality FM reception.
- The lead-in antenna cable should be of the 75-ohm coaxial type as it suppresses intrusion of noise more effectively than the 300 ohm twin lead type.

## PROGRAMMING PRESETS

Hold the MEMORY SEARCH button down for 2 seconds. The HRS84 will then cycle through the entire FM band as set up MEMORY locations for stations that are available (station must be strong enough for HRS84 to recognize). After the MEMORY SEARCH is complete you can press the MEMORY UP or DN buttons to access

the preset channels.

## **SPECIAL NOTE ABOUT STEREO RECEPTION**

When changing presets or adjusting station tuning you may experience a loss of stereo separation. By cycling the power (unplugging the units power and plugging it back in). The full stereo separation will be restored. If you experience poor stereo sound form a selected channel this will remedy the situation.

### **Multi path reflections**

FM waves, like light waves, travel in a straight direction unless reflected off objects in their path. Because of this, two sets of waves reach your antenna from the FM station; those that have traveled directly to the antenna, and those that have been reflected off buildings or mountains. When the antenna receives both kinds of signals, the two interfere with each other and result in distorted sound and poor separation. This phenomenon is called “multi path reflection”. To reduce this problem, select an antenna with good directivity and place it in the best location with strong reception.

[www.rolls.com](http://www.rolls.com)

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## **FREQUENTLY ASKED QUESTIONS**

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