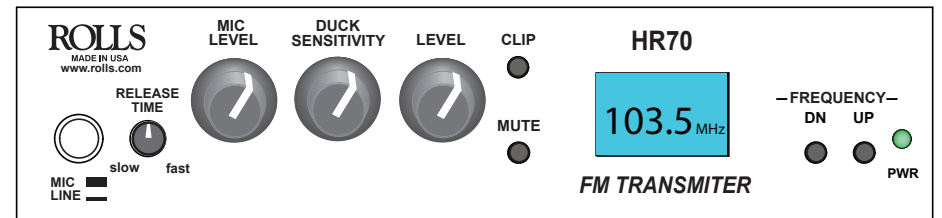


Multi path reflections

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.

ROLLS

HR70 Digital FM Transmitter



SPECIFICATIONS

Frequency Response:	20 Hz - 12.5 kHz
Input Impedance:	100K Ω Unbalanced, 600 Ω Balanced
Indicators:	Power LED and Clip LED
Input/Output jacks:	XLR balanced INPUT RCA unbalanced input and output
Power:	Rolls PS27s 12 - 15 VDC 500mA 5 x 1.2 mm DC Jack - Center Negative
Antenna Jack:	BNC connector
Antenna Impedance:	75 Ω
Current:	150 mA
Tuning Range:	87.5 - 108 MHz
Dimensions:	6.75"w x 4.25"d x 1.6"h
Weight:	1.5 lbs

ROLLS

www.rolls.com

Rolls Corporation
Salt Lake City, UT
2/20

QUICK START OPERATION GUIDE

Thank you for your purchase of the Rolls HR70 FM Digital Transmitter. This unit has been carefully designed and assembled to provide years of reliable FM transmission. Please read this manual carefully as it contains important information regarding the proper setup and operation of the HR70.

INSPECTION

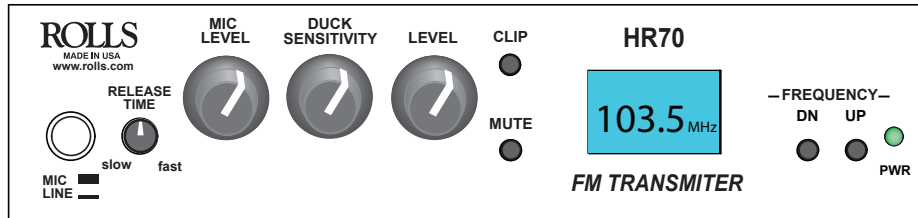
Unpack and inspect the package. Your HR70 was carefully packed at the factory in a protective carton. Nonetheless, be sure to examine the unit and the carton for any signs of damage that may have occurred during shipping. If obvious physical damage is noticed, contact the carrier immediately to make a damage claim.

WARRANTY

For complete Warranty information and registration, please visit our web site; 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 HR70.
- **MIC/LINE:** When pressed in, the gain of the XLR Mic In is reduced by 30 dB.
- **CLIP:** LED for indication of when the circuit is over driven/clipping.
- **MUTE:** When pressed unit will MUTE.
- **LEVEL:** Adjusts the level of output.
- **FREQUENCY UP / DN:** Selects the frequency that the HR70 is transmitting.
- **RELEASE TIME:** Adjusts the amount of time for the “ducked” signal to return to its normal level. Counterclockwise; slow - Clockwise; fast.
- **MIC LEVEL:** Adjusts the amount of gain for the Mic In circuit.
- **DUCK SENSITIVITY:** The Threshold at which “ducking” begins. When the microphone level reaches the threshold, the signal present at the Line In jacks is reduced until the announcement is over, then the Line In signal returns to its previous level.

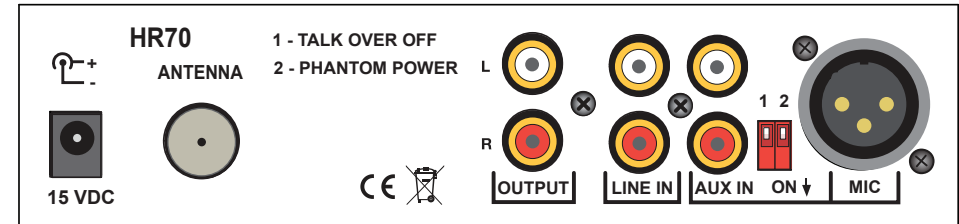
A NOTE ON THE HR70 THRESHOLD SETTING, WITH THE SENSITIVITY CONTROL FULLY CLOCKWISE: If a signal is on the XLR input, the ducking will begin (the threshold is) at -30 dB when the Mic/Line switch is set to “Mic”, and 0 dB when the switch is set to “Line”. If the control signal is on the RCA input, ducking begins at -30 dB.

HR70 DISPLAY

- Channel Mhz - indicates Megahertz of FM transmission being sent
- Mute indicator

REAR PANEL

- **15VDC:** USE THE ROLLS SUPPLIED ADAPTER ONLY!!!
- **Aux In:** The Aux in is an input that will talk over the Line In (Main input)
- **Line in:** This is the main line level input to the HR70.
- **Outputs:** RCA stereo outputs.
- **Mic:** XLR microphone input.
- **ANTENNA:** Connects to the included FM transmitting antenna.



CONNECTION

- Connect the Rolls supplied adapter to the VDC power jack of the HR70, then to an AC outlet with the proper voltage.
- Connect the HR70 Left and Right line input to a mixer, or other audio device.

WE RECOMMEND TURNING THE DUCK SENSITIVITY FULLY CLOCKWISE (ALL THE WAY UP) TO START. THIS IS THE HIGHEST SENSITIVITY AND MOST DUCKING AVAILABLE ON THE UNIT.

OPERATION

If you are using a condenser microphone, switch the Phantom Power on. Set the level of the music signal (Line In) for a comfortable level. Speak into the microphone and adjust the Mic Level for a comfortable level, then adjust the Sensitivity so that the music is muted when speaking with a normal voice. Set the Release Time control for the amount of time you wish for the Aux In signal to return to normal.