

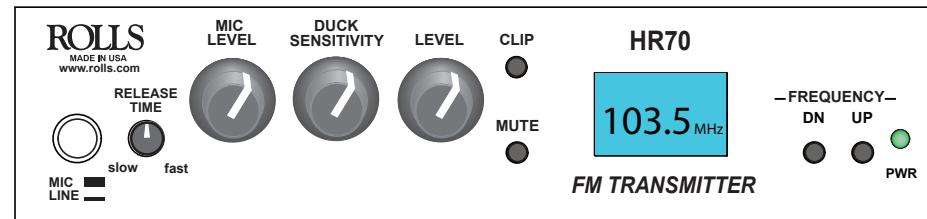
## For Class A equipment:

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

# ROLLS

## HR70

### Digital FM Transmitter



FCC ID: K48HR70

Rolls HR70 this device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by Rolls Corp. could void the user's authority to operate the equipment.

#### SPECIFICATIONS

Frequency Response:	20 Hz - 12.5 kHz
Input Impedance:	100KΩ Unbalanced, 600Ω 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
Antenna Jack:	RP-SMA connector
Antenna Impedance:	50Ω
Tuning Range:	88.3 - 107.7 MHz
Dimensions:	6.75" w x 4.25" d x 1.6" h
Weight:	1.5 lbs

# ROLLS

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

Rolls Corporation  
Salt Lake City, UT  
5/21

## 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. Changes or modifications of any kind to the Rolls HR70 or its included antenna are not approved or permitted in any way, and could void the user's authority to operate the equipment.

#### INSPECTION

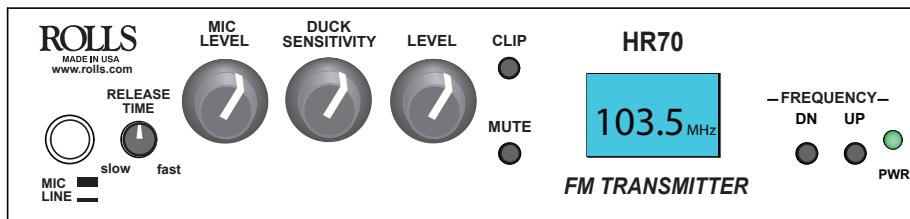
Unpack and Inspect the package. Your HR70 was carefully packed at the factory in a protective carton. Nonetheless, be sure to examine the unit and the carton for any signs of damage that may have occurred during shipping. If obvious physical damage is noticed, contact the carrier immediately to make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

#### WARRANTY

For complete Warranty information and registration, please visit our web site; [www.rolls.com](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 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.

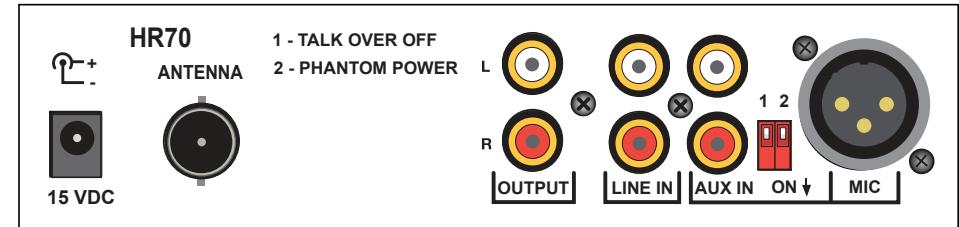
A NOTE ON THE HR70 THRESHOLD SETTING, WITH THE SENSITIVITY CONTROL FULLY CLOCKWISE: If a signal is on the XLR input, the ducking will begin (the threshold is) at -30 dB when the Mic/Line switch is set to "Mic", and 0 dB when the switch is set to "Line". If the control signal is on the RCA input, ducking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

#### HR70 DISPLAY

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

#### REAR PANEL

- 15VDC: USE THE ROLLS SUPPLIED PS27s 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 RP-SMA 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.