

ROLLS

PM351 Personal Monitor

SPECIFICATIONS

Max Input Level:	-20 dB XLR, +40 dB Line +15 dB Instrument
Inst. Input Impedance:	50K ohms
Inst. Output Freq. Response:	10 - 30 kHz +/- 3 dB
Output Impedance, Hdphn:	10 ohms
Output Impedance, Inst.:	2 ea; 100 ohms balanced
Gain:	20 dB 1/4", 50 dB XLR
Hdphn Freq. Response:	20 - 20 kHz
S/N Ratio:	90 dB
Power:	9 - 16 VDC
Size (W x H x D):	4.5" x 3.3" x 1.5"
Weight:	1 lb (.45 Kg)

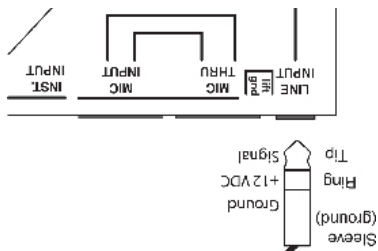
What's in the box?

- 1 - Made in USA PM351
- 1 - 15V power supply PN PS27s
- 1 - This owners manual

PM351 is designed for performers who want to monitor their own sounds, such as their vocals and instruments, with the main mix via headphones. It's very popular with drummers who need to mix a click track with a monitor signal. Church choir singers love the PM351 to monitor their voices over the musicians.

CONNECTION

- The LINE INPUT connects to either a 1/4" stereo or mono plug. If this plug is Tip-Ring-Sleeve stereo and you're sending a stereo signal to this jack, select the STEREO setting of the Mono/Stereo switch. If the plug is Tip-Sleeve mono, select the MONO setting of the Mono/Stereo switch. The MONO setting is also the proper selection if you are phantom powering the PM351.
- The MIC INPUT connects to either a dynamic or condenser microphone via a standard XLR cable. If you are using a condenser microphone, you will need to power it via phantom power from the mixer which connects to the MIC THRU jack. This jack will pass the phantom power from a mixer on to the microphone.
- Connect the MIC THRU jack to the mixer or snake as necessary.
- The INSTRUMENT INPUT connects to a guitar preamp output, keyboard, or any stereo or mono instrument level signal. Again, select stereo or mono.
- The INSTRUMENT OUTPUTS are transformer isolated and converts the high impedance INSTRUMENT INPUT signal to low impedance so it can be sent down a balanced line. These signals may then be plugged into an XLR input on a mixer or snake. Note that the level of this signal may be too high for a mixer's microphone input - you may experience distortion. In this event, turn down the instrument connected to the PM351 INSTRUMENT INPUT, pad the input to the mixer's mic input, or trim down the mic input. Connect your headphones to the proper Headphone Output.



• Remote Powering the PM351
A very useful feature of the PM351 is the ability to send the 12-15VDC power to the unit via the LINE INPUT ring connection. Make sure the Mono/Stereo switch is in the MONO position. Connect the 12-15VDC to the Ring of the TRS plug as shown here.

ROLLS WILL NOT BE HELD RESPONSIBLE FOR DAMAGE DONE TO THE PM351 AS A RESULT OF IMPROPER USE OF THIS FEATURE. IF YOU ARE NOT SURE HOW TO DO THIS CORRECTLY, CONTACT A QUALIFIED SERVICE TECHNICIAN.

NOTE: This unit cannot be powered by standard 48 Volt Phantom Power supplied by mixers, phantom power adapters etc. The current (amperes) is insufficient to power the PM351. Also, any voltage greater than 16 VDC will damage the unit.

GROUND LIFT: Switch for disconnecting chassis ground from pin 1 of the Mic Input and Mic Thru.

MONO/STEREO SWITCH: Selects whether the INST. INPUT jack is mono or stereo.

INSTRUMENT INPUT: 1/4" TRS stereo jack for connection to an instrument or line level signal such as a guitar processor, keyboard, or instrument preamp output.

LINE INPUT: 1/4" TRS stereo jack for connection to a line level source such as a mixer monitor/auxiliary output, cassette player output, CD player output etc.

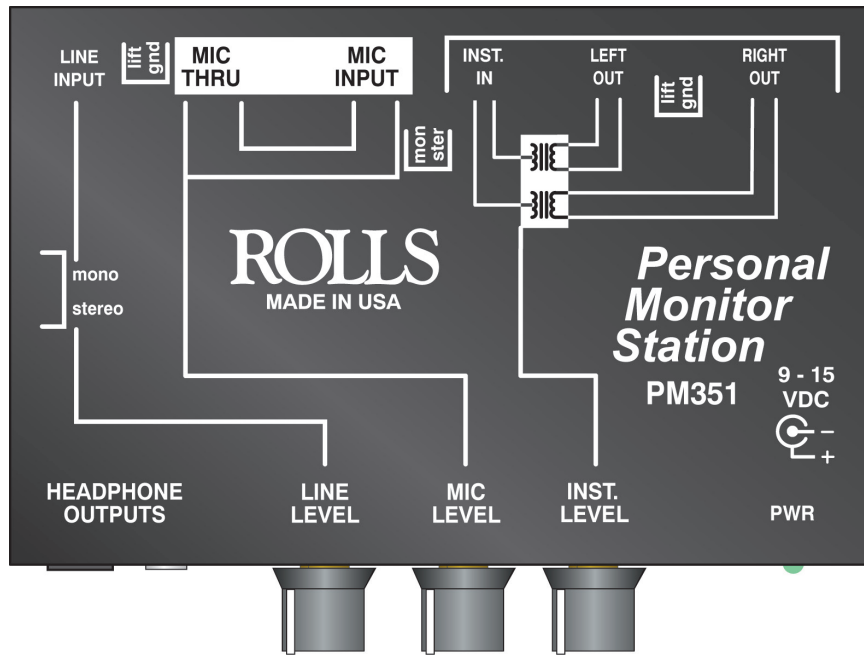
MIC THRU: XLR jack paralleled (hard-wired) to the MIC INPUT jack for pass-through to a mixer or other microphone level input device.

MIC INPUT: XLR balanced jack for connection to a condenser or dynamic microphone.

GROUND LIFT: Switch for disconnecting chassis ground from the XLR instrument output jacks.

LEFT/RIGHT OUTPUTS: Transformer balanced XLR outputs from the Instrument Input.

MONO/STEREO SWITCH: Selects whether the LINE INPUT jack is mono or stereo.
NOTE: When in MONO mode, the ring of the jack may be used to "phantom power" the PM351. See the next page for details.



DC IN 9 - 15 VDC: For connection to the external Rolls PS27 power adapter.

HEADPHONE OUTPUTS: 1/4" Stereo jack, and 1/8" stereo jack for connection to stereo headphones or earphones.

LINE LEVEL: Adjusts the level of signal from the LINE INPUT to the headphone mix.
MIC LEVEL: Adjusts the level of signal from the MIC INPUT to the headphone mix.
INST. LEVEL: Adjusts the level of signal from the INST. INPUT to the headphone mix.

PWR: LED for indicating power is applied to the PM351.

Setting the Mono/Stereo switch;
If the input to the LINE INPUT or INSTRUMENT INPUT is a Tip-Ring-Sleeve stereo signal, set the Mono/Stereo jumper for stereo operation.

If the signal to the LINE INPUT or INSTRUMENT INPUT is Tip-Sleeve mono, move the switch to connect the "mono".

GROUND LIFT

The Mic Input and Mic Thru have a ground lift switch provided to lift the XLR pin 1 from chassis ground. The XLR Instrument Outputs also have this feature. If you experience a "hum" on the microphone or instrument outputs, lifting the ground may eliminate the problem.