INPUT PANEL
1. -30dB PAD Allows line-level sources to connect to the JS•3's input.
2. Mic input For low impedance microphone signals.
3. Direct-1 thru 600 ohm mic-level direct output will pass phantom power to microphone.
4. Bookend design 14 gauge steel outer shell creates protective zone around connectors and switches.
5. Full-bottom no-slip pad This provides electrical isolation and plenty of “stay-put” friction to keep the JS•3 in one place.

OUTPUT PANEL
6. Isolated output-2 600 ohm mic-level transformer-isolated.
7. Ground lift (isolated-2) Lifts the ground pin-1 on the isolated-2 XLR output connector.
8. Isolated output-1 600 ohm mic-level transformer-isolated.
9. Ground lift (isolated-1) Lifts the ground pin-1 on the isolated-1 XLR connector.

CONSTRUCTION
10. Steel I-beam enclosure eliminates stress that could torque the PC board and cause solder joint failure.
11. Military-grade double-sided PCB with plated through-holes is bolted to welded steel standoffs.
13. Sturdy PC mounted switches are high-cycle rated for long life.

JS•3 SPECIFICATIONS
- Frequency response 10Hz to 40kHz +/-1dB
- Max 20Hz input level +2.0dBu (1% THD)
- Phase distortion <2.8° @ 20Hz
- Total harmonic distortion 0.001% THD @ 1kHz (0.05% @ 2kHz)
- Common-mode rejection 130dB @ 60Hz (90dB @ 3kHz)
- Input Balanced 600-Ohm, mic-level, pin-2 hot
- Outputs Balanced 600-Ohm, mic-level, pin-2 hot
- Input pad -30dB
- Power requirement None, completely passive
- Size 3.25” x 5” x 1.875”
- Weight 2 lbs.
USING THE JS•3
As with all Radial products, using the JS•3 is simple and straight ahead. Make sure the sound system is turned off and all levels are set to zero before making audio connections. This will avoid any pops in the sound system that could cause damage to speakers.

Connect a microphone or line-level source to the MICROPHONE INPUT on the JS•3. Connect the DIRECT-1 THRU output to the console that supplies phantom power and then the ISOLATED-1 and ISOLATED-2 outputs to your monitor console and recording systems. Both isolated outputs are identical and electrically separate from each other. If you encounter noise, simply depress the ground lift switches.

If you are using the JS•3 with a line-level device such as a keyboard, CD player or line mixer, depress the -30dB input pad. This will reduce the level going into the transformer and eliminate transformer saturation.

Start by turning up your sound system slowly to test connections before driving at full volume. You are now ready to go!

INTRODUCTION
Upon inspection, you will notice the Radial JS•3 is equipped with four XLR connectors: the MIC INPUT connector; the DIRECT-1 THRU; the ISOLATED-1 OUTPUT with ground lift switch and the ISOLATED-2 OUTPUT with ground lift switch.

Normally, the source microphone connects to the MICROPHONE INPUT and the DIRECT-1 THRU connects to the mixing console that supplies phantom power back to the microphone. If the source is a line-level device such as a CD player, the input pad should be engaged to ensure the signal does not saturate the transformer, causing distortion. Note that the JS•3 will always output a mic-level signal.

The JS•3's isolated outputs will then feed a tape recorder, broadcast truck or other PA system. The advantage of using the transformer-isolated output is that it creates a magnetic bridge between the source and the destination, thus eliminating any direct electrical current from passing. This eliminates problems such as ground loops, which can cause buzz and hum in a sound system. A ground lift switch is provided to disconnect the ground path between the input and output to further suppress noise.

The JS•3 is completely passive. This means that it does not require a power supply of any kind. The magic lies in the quality of the transformer we use. Jensen transformers are famous for their exceptional signal handling and low distortion. The JS•3 is equipped with a Jensen JT-M60 micro-bridging transformer that features a laminated nickel core and Faraday shield for optimum signal transfer. You will find the JS•3 to be transparent and very efficient, making it the perfect choice in professional installations.

WELCOME
Congratulations on your purchase of the Radial JS•3 mic splitter. This simple yet extremely handy device will likely find its way into all types of applications such as splitting mic signals and distributing signals throughout your sound system.

The Radial JS•3 is equipped with the world’s finest Jensen bridging transformer to ensure the audio signal is transmitted and distributed without distortion and is built using the finest materials to ensure years of trouble-free performance.

We have purposely written this manual to be short, as most users will likely be familiar with the JS•3's applications. We do suggest that you take a moment to read through this document to familiarize yourself with the features that are built in. For more detailed information, please visit the Radial website. This is also where we post questions and answers that come from users after the product is released. If you do not find an answer, we invite you to send us an email at info@radialeng.com and we will do our best to answer your query in a prompt and professional manner.

The Radial JS•3 is a wonderful device that will surely provide you with years of problem-solving connectivity. Enjoy!

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