

Show Works MS-01 MADI Switcher



Introduction

The Show Works MS-01 MADI Switcher allows 2 MADI sources to be switched to one output via an illuminated button on the front of the unit. As well as the switching interface, the MS-01 has a built in MADI distribution amplifier, allowing 1 MADI signal to be distributed to 2 devices. Perfect for redundant recording or distributing the same clock source to 2 devices.

The MS-01 also features dual power supplies for extra redundancy making it perfect for applications where reliability is paramount.

Features

- Switches up to 64 Channels of MADI at 48kHz or 32 Channels at 96kHz
- BNC input/output connections for MADI signals
- Built in MADI distribution amplifier distributes MADI to 2 devices allowing them to share clock source
- Central illuminated push button for quick source changing
- Dual wide input power supplies for extra redundancy & reliability
- Front panel LEDs to monitor audio source, power supply status and MADI distribution

Operating Instructions

Powering On

The MS-01 comes supplied with two, 13A to 20A Neutrik powerCON cables to connect the unit to the mains. Only one cable is essential for operation, but to make full use of the redundant power supplies, it is recommended that both cables are used.

The unit will automatically power on upon the presence of power and be ready for operation. The front panel LEDs 'PSU A' and 'PSU B' will glow green under the presence of power.

Please Note: When using both power supplies, they must be connected to the same mains phase.

MADI Switching

For MADI Switching we need to concentrate on the 3 BNC connectors on the left-hand side of the back of the unit.

First connect the first source of MADI to the BNC socket labelled 'MADI IN A'. Then connect the second source of MADI to the BNC socket labelled 'MADI IN B'.

It is essential that the sources connecting to these inputs are MADI output signals only.

Lastly connect a BNC cable from the BNC socket labelled 'MADI OUT' (adjacent to MADI A) to the MADI input of your desk or device.

Use the central illuminated push button to toggle between sources.

Please Note: The clock source must be from the desk or an external clock, never the switched MADI signal, as this may cause audio drop outs.

Please Note: RG59/U Cable must be used for the transport of MADI Signals

MADI Distribution

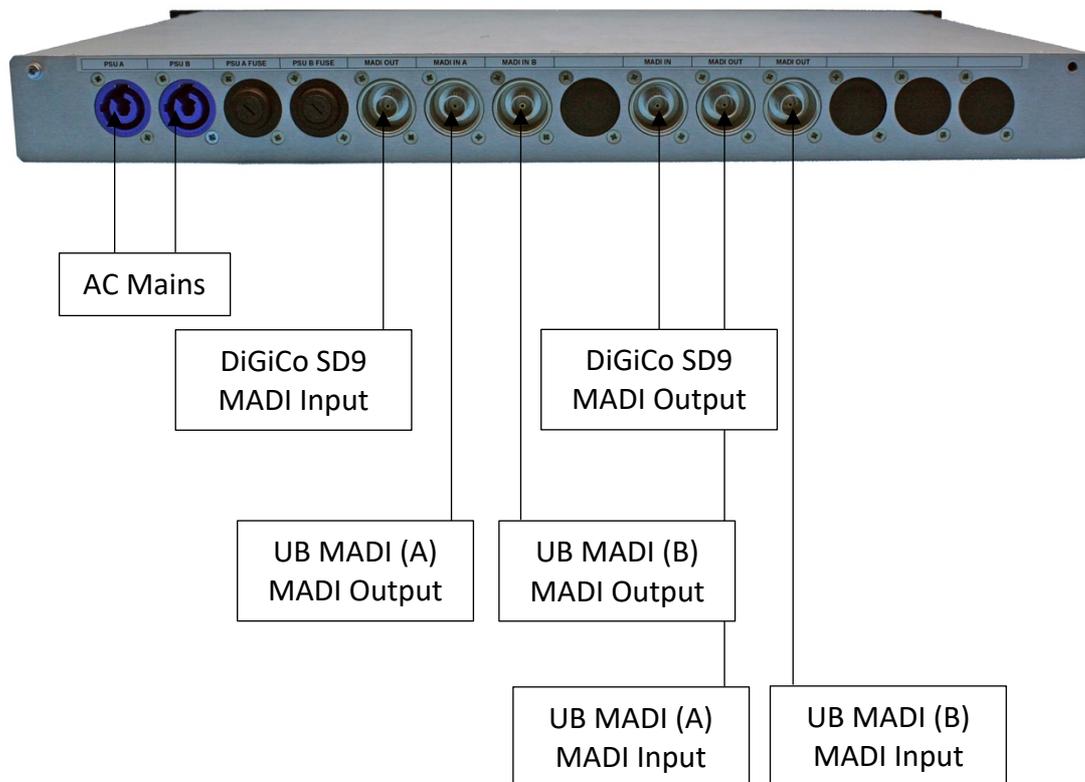
For MADI Distribution we need to concentrate on the 3 BNC connectors on the right-hand side of the back of the unit.

First connect the MADI source for distribution to the BNC socket labelled 'MADI IN'. After doing so, connect a BNC cable from the BNC socket labelled 'MADI OUT' to the input of your MADI device. Repeat as necessary.

This will distribute a single MADI signal to 2 devices and is not affected by the switching of the unit. If the MADI devices connected to the outputs of the distribution amplifier are receiving the same clock source, they will remain unaffected when the unit is switching sources, perfect to keep the sources that are being switched, in sync.

Please Note: RG59/U Cable must be used for the transport of MADI Signals

Use Scenario



Safety

- Do not operate the unit near water.
- Do not expose the unit to rain or moisture.
- Clean only with dry cloth.
- Do not install the unit near any heat sources such as (but not limited to) radiators, electric heaters or amplifiers.
- Do not operate the unit whilst it is covered or boxed in any way.
- There are no user-adjustments, or user-serviceable items, inside the unit.
- The only user-serviceable parts are the power supply fuses, accessible from the outside of the unit.
- Do not remove the covers of the unit; doing so will invalidate your warranty.
- Only install the unit into a standard 19" rack or place the unit on a secure level surface.

Caution

- Hazardous voltages may be present inside the unit.
- Do not operate the unit with the covers removed.
- Use only the power cables supplied with the unit.
- An external over-current protection device is required to protect the wiring to the unit. This protection device must be installed according to current wiring regulations. In certain countries this function is supplied by use of a fused plug.
- If an extension power cable or adaptor is used, ensure that the total power rating of the power cable and/or adaptor is not exceeded.
- All power cords must be disconnected to isolate the unit completely.
- The fuses must only be serviced when the unit is completely isolated.
- Unplug the unit during an electrical storm or when unused for long periods of time.
- Ensure that no strain is placed on the cables connecting to the unit.

Other Notes

Power Requirements:

90-264v AC 50-60Hz

Note Both PSU A & B must be connected to the same mains phase.

Fuse:

5mm x 20mm 2.5A Quick Blow

Warranty Notes

The MS-01 comes with a 1-year warranty as standard. Opening or modifying the unit will invalidate the warranty.

The only user serviceable parts are the external fuses.