TL ED2 TL DE2

Portable Ethernet to DMX and DMX to Ethernet converters
DMX - Ethernet Converters

- Portable DMX over Ethernet converters

- Fully isolated Ethernet and DMX lines

- TL ED2 inputs DMX over Ethernet, outputs two DMX universes

- TL DE2 inputs two DMX universes, outputs DMX over Ethernet

- DMX merge option

THEATRELIGHT NZ
of New Zealand

TL ED2   TL DE2

Portable DMX over Ethernet converters

The Theatrelight TL-ED2 and TL-DE2 portable Ethernet to DMX512 converters are housed in tough powder coated steel cases. They may be mounted to a wall, beside a dimmer cabinet for permanent installation, or tie-wrapped to a lighting bar. The TL-ED2 is an Ethernet to DMX receiver - it can be used to drive DMX devices such as LEDs, moving lights, dimmers, smoke machines etc from a control desk fitted with Ethernet output. The matching TL-DE2 is a DMX to Ethernet transmitter - it can be used by any DMX control desk to convert its DMX output to drive a CAT5 cable network, from where distributed receivers (such as the TL-ED2) can convert the Ethernet signal back to DMX for driving local DMX devices.

TL-ED2 DMX Receiver

The TL-ED2 converts broadcast Art-Net or ShowNet DMX over Ethernet packets to two DMX 512 outputs. Incoming data packets are filtered for IANA private network addresses 10.*.*.* or 192.168.*.*. Broadcast packets originating from these IP address are then filtered for valid Art-Net or ShowNet DMX packets depending on the Mode thumb-wheel setting. When the A or B channel mode is set to Art-Net, the Universe and Group thumb-wheels for that channel define the Art-Net universe and subnet, allowing selection from a total of 100 DMX universes. When the A or B channel mode is set to ShowNet, the Universe and Group thumb-wheels act as Universe offset x 1 and x 10 added to the ShowNet start address, allowing a selection from 51,200 channels. ShowNet data must be limited to integral universes: data must start at 1/513/1025 etc (ShowNet "Netslot" = 1+n*512) with packet size limited to 512 (ShowNet "Slotsize = 512). Packets which match the thumb-wheel selection are downloaded, the checksum confirmed, and the outgoing DMX data immediately updated for maximum response speed. The mode switch can select both A and B channels to receive Art-Net or ShowNet, or mixed, with a selection of merge options.

TL-DE2 DMX Transmitter

The TL-DE2 converts two DMX 512 inputs to Art-Net compatible DMX over Ethernet packets. The DMX input data may be encoded to any one of 100 DMX universes on the Ethernet cable by selecting the universe and group (Art-Net "subnet") with the thumb-wheel switches. The outgoing data is broadcast as Art-Net DMX packets over the Ethernet connection, together with a checksum to maintain data integrity. The mode switch offers a selection of merge options.

Isolation
Each of the DMX inputs presents only one 1/10th standard load to a DMX cable, and is isolated to 500VDC from the other input, and from the Ethernet output and earth for maximum reliability and safety.
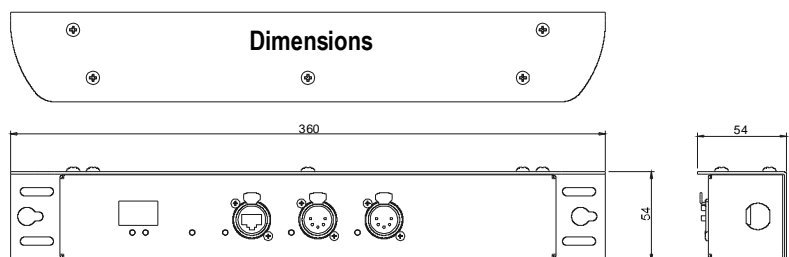
Connectors
The converters are fitted with high quality 5 pin Neutrik connectors for DMX input or output. A latching Neutrik XLR-RJ45 connector is fitted for a secure Ethernet connection using the matching Neutrik cord-mount XLR-RJ45 connector. The socket also accepts the standard plastic RJ45 connector commonly used in office networks.

Power supply
The converters are factory fitted for 220-240 VAC 50/60Hz. 100-120 VAC 50/60Hz is also available.

Specifications

Construction: Powder-coated steel case
Input Power: 110-120 or 220-240 volts AC, factory preset
DMX Connectors: Neutrik 5 pin standard
(3 pin DMX connector options are available)
Ethernet Connector: Neutrik RJ-45
Mains cable: 1 metre 3 core mains cable
Plug: Aust/NZ 3 pin plug, or tinned ends
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Dimensions

360

54

54

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