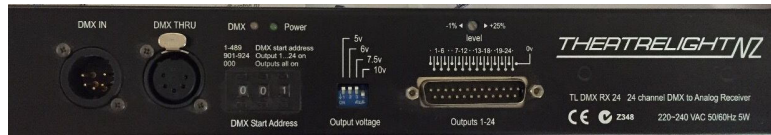# TLRX-24 DMX RECEIVER
SPECIFICATION

Re-introduced by popular demand, Theatrelight's updated 24 channel optically isolated DMX to Analogue receiver allows control of devices such as 10 volt dimming fluorescent ballasts, LED luminares, or older analogue dimmers from any DMX controller. The receiver is also useful for controlling or switching other voltage sensitive devices from a DMX signal. The receiver is built in the same housing as Theatrelight's popular SP4 DMX splitter, allowing easy fixing to lighting bars and walls, while being small enough to house inside other equipment.

DMX Input
The DMX-512 input is optically isolated and presents only 1/10th normal RS485 load to the DMX line. The input and through DMX connectors are XLR 5 pin Neutrix as standard. Other connectors including 3 pin can also be supplied.

DMX Address selection
The DMX start address can be set from 1 to 488 by the front panel thumbwheel switch, allowing the receiver to output any 24 consecutive DMX channels over the range 1 to 512. Start addresses of 0 and above 488 are invalid.

DMX controlled outputs
A four way dipswitch on the front panel selects preset output voltages of +5, 6, 7.5, or 10 volts. Access to a calibration potentiometer on the front panel allows changes of −1% to +20% to the standard output levels. The maximum output current for any single channel is 10 milliamps, the total current for all channels should be limited to 50 milliamps. Output impedance is 500 ohms, short-circuit proof. Invalid DMX addresses (0, >488) set all outputs at zero.

Output response time
Outputs respond to a change in the DMX signal within one DMX packet time (~25 msecs). Output rise and fall times (10-90%) are both 100usec.

Output Connector
A 25D male connector provides convenient connection to the 24 channel outputs and zero reference.

LED indicators
Two front panel LEDs are provided to indicate power and DMX status. Both LEDs green shows correct operation.

Power LED	Green	Control power OK
Bicolour LED	Green	DMX connected OK
	Green flash	DMX connected, thumbwheel DMX setting out of range 1-488
	Green/Flash Red	DMX connected, DMX errors
	Red	DMX disconnected

DMX Fail behaviour
On DMX failure (or DMX controller switch off), the Receiver holds its outputs at the last received DMX levels for 5 minutes, then fades all outputs to zero over 5 minutes.

Electronics
Flash microprocessor. The circuitry uses long-life 105 degree rated capacitors.

Power supply
110- 120 or 220-240 VAC, 50/60 Hz, set at time of order. Power consumption is less than 10 watts.

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Power Connector
1 metre power cord fitted with 3 pin Australia/NZ plug. Other connectors available at time of order.

Construction
Black epoxy powder coat over zinc plated steel case. Legend silk-screened white in two pot epoxy ink.

Dimensions and Weight
Chassis is 360mm long, 54mm high, 54mm wide. Weight 1.4kg, packed weight 1.6kg.

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