

**UMX – 24 DMX/LMX to ANALOG TRANSLATOR**

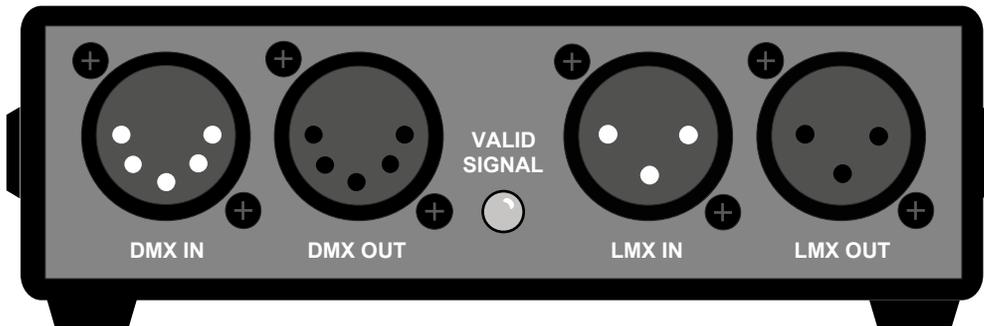
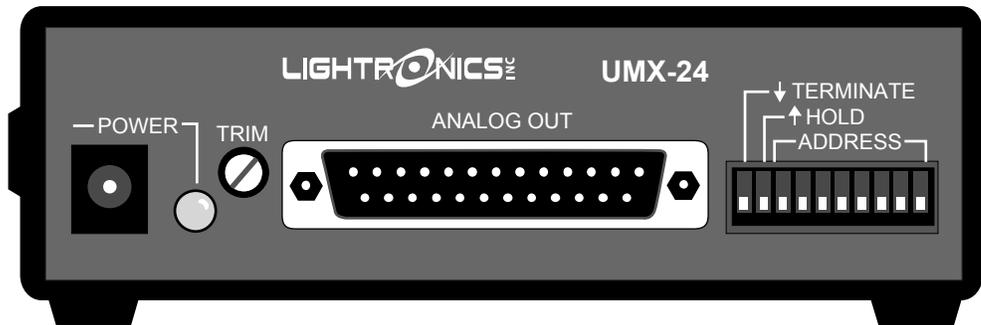
Revision 0.3

**OWNERS MANUAL**

07/27/2005

**DESCRIPTION**

The UMX-24 is a very compact lighting protocol translator which receives a USITT DMX-512 signal or a LMX-128 multiplex signal from a lighting console. The unit converts the incoming signal, and transmits it as 24 channels of 0–10 volt analog signals. A “passthrough” DMX and LMX connector are provided. The unit is powered by an external 13VAC power supply which is provided.

**REAR VIEW****FRONT VIEW****FACTORY CONFIGURATION OPTIONS**

The unit can optionally be supplied to output 0 to +15 VDC analog or 0 to +20 VDC analog.

**CONNECTIONS****DMX INPUT CONNECTIONS**

Connect the output of the console to the 5 pin male XLR connector on the rear of the UMX-24. The female 5 pin XLR connector on the rear of the unit is a “passthrough” connector to connect the DMX signal to other equipment.

**DMX TERMINATION**

The left most DIP switch on the front of the unit applies a DMX termination when in the down position. A DMX line should be terminated at the last DMX device (and ONLY the last DMX device) on the chain.

**LMX INPUT CONNECTIONS**

Connect the output of the console to the 3 pin male XLR connector on the rear of the UMX-24. The female 3 pin XLR connector on the rear of the unit is a “passthrough” connector to connect the LMX signal to other equipment.

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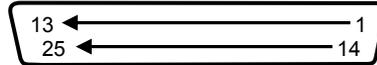
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**ANALOG OUTPUT CONNECTIONS**

The 25 pin (DB-25) D connector on the front of the unit is for the analog output signals which are to be connected to the analog dimmers or other analog compatible lighting devices. Pin 1 of the DB-25 connector is the channel 1 output signal. Channels 2 through 24 follow in sequence (pin# = channel#). Pin 25 is the common or signal ground.

**Analog Output Connector Pin Locations****OPERATION**

The red LED indicator on the front panel lights when power is applied to the unit. The green LED on the rear of the unit is lighted when a valid input signal is present.

The unit may be set to operate any range of 24 channels up to 512 by setting DIP switches on the front of the unit. A table at the back of this manual shows DIP switch address settings.

The 2nd from the left DIP switch operates a hold function. If this switch is set to UP and the incoming signal is removed – the unit will continue to send the last valid channel information to the dimmers.

If both DMX and LMX input signals are present, the DMX signal will be used and the LMX signal will be ignored. The UMX-24 will not convert DMX to LMX or convert LMX to DMX.

**TRIM ADJUSTMENT**

A output level trim adjustment is accessible via a hole in the front panel. If you connect a dc voltmeter to any of the analog outputs - you can then adjust the output level. The adjustment is applied to all channel outputs.

**EXTERNAL POWER SUPPLY INFORMATION**

Input Voltage: 120VAC  
Output Voltage: 13.5 VAC  
Output Current: 800 Milliamps  
Connector: 2.1mm female connector

The UMX-24 will operate using an alternative external power supply which can provide anywhere from 13 to 24 Volts AC or DC. The supply must be rated at 600 ma. If a DC supply is used, the center pin of the connector **MUST BE THE NEGATIVE** output terminal of the supply.

**MAINTENANCE****TROUBLESHOOTING**

- ✓ Check the connections and integrity of the associated cables (a very common source of problems).
- ✓ Ensure that the dimmers are on and operating. Verify that the dimmers addressing is correctly set.
- ✓ Check the address settings on the UMX-24.

**REPAIR**

There are no user serviceable parts in the unit. Service by other than Lightronics authorized agents will void the warranty. If service is required, contact the dealer from whom you purchased the unit or contact Lightronics.





The banner features the Lightronics Inc. logo on the left and right, with the word "WARRANTY" in large, bold, white capital letters centered on a dark grey background.

LIGHTRONICS INC. **WARRANTY** LIGHTRONICS INC.

All Lightronics products are warranted for a period of TWO/FIVE YEARS from the date of purchase against defects in materials and workmanship.

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This warranty is subject to the following restrictions and conditions:

- A) If service is required, you may be asked to provide proof of purchase from an authorized Lightronics dealer.
- B) The FIVE YEAR WARRANTY is only valid if the warranty card is returned to Lightronics accompanied with a copy of the original receipt of purchase within 30 DAYS of the purchase date, if not then the TWO YEAR WARRANTY applies. Warranty is valid only for the original purchaser of the unit.
- C) This warranty does not apply to damage resulting from abuse, misuse, accidents, shipping, and repairs or modifications by anyone other than an authorized Lightronics service representative.
- D) This warranty is void if the serial number is removed, altered or defaced.
- E) This warranty does not cover loss or damage, direct or indirect arising from the use or inability to use this product.
- F) Lightronics reserves the right to make any changes, modifications, or updates as deemed appropriate by Lightronics to products returned for service. Such changes may be made without prior notification to the user and without incurring any responsibility or liability for modifications or changes to equipment previously supplied. Lightronics is not responsible for supplying new equipment in accordance with any earlier specifications.
- G) This warranty is the only warranty either expressed, implied, or statutory, upon which the equipment is purchased. No representatives, dealers or any of their agents are authorized to make any warranties, guarantees, or representations other than expressly stated herein.
- H) This warranty does not cover the cost of shipping products to or from Lightronics for service.
- I) Lightronics Inc. reserves the right to make changes as deemed necessary to this warranty without prior notification.

