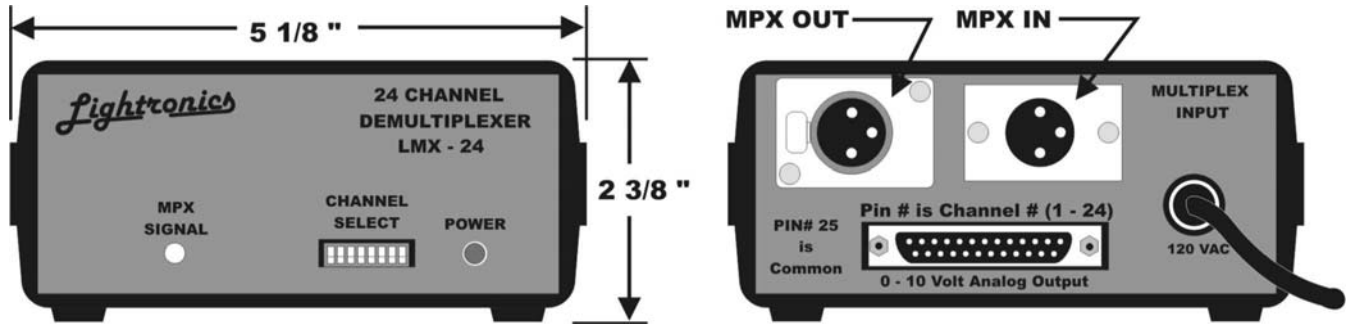


DESCRIPTION

The LMX-24 is a very compact lighting protocol translator which receives a LMX (industry standard) multiplex signal from a typical lighting console, reformats the information, and transmits it as 24 channels of 0 – 10 volt analog signals. A “passthru” LMX connector is provided. The unit is powered by 120 VAC.



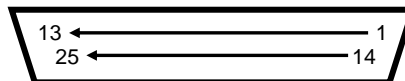
FACTORY CONFIGURATION OPTIONS

The unit can be supplied to operate on 220 VAC power
The unit can be supplied to output 0 – 15 VDC analog or 0 – 20 VDC analog

CONNECTIONS

Connect the output of the console to the 3 pin male XLR connector on the rear of the LMX-24. The female 3 pin XLR connector on the rear of the unit is a “passthru” connector to connect the LMX signal to other equipment. The female 25 pin (DB-25) D connector on the rear 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. Plug the power cord into any convenient 120VAC outlet. It draws very little power.

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 is lighted when a valid LMX signal is present. The unit may be set to operate any range of 24 channels up to 512 by setting the DIP switches on the front of the unit. A partial table of switch settings is on the bottom of the unit.

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 that the patch configuration of the console is correct.
- Check the address settings on the LMX-24.

REPAIR

There are no user servicable 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.

ADDRESS SELECTION

The DIP Switch Setting column shows the positions of the DIP switches on the dimmer. The Start Channel column shows the resulting channel assignment for the first channel of the dimmer

All Lightronics products using DIP switches for address assignments conform to this table. Some dimmers cannot be set to all 512 channels and will have fewer switches than are shown in the table. If this is the case then match the right end switches in the table to your dimmer switches.

NOTE: Some control consoles can be programmed or "patched" to alter their channel order. You may get unexpected results if you are not aware of the console patch condition when you assign channels at a dimmer.

EXAMPLE: If a dimmer's DIP switches are set to $\downarrow \uparrow \downarrow \uparrow \downarrow \uparrow \uparrow$ then the first channel of the dimmer will respond to console channel 173. The remaining dimmer channels will respond to console channels 174, 175, 176 ...etc.

DIP Switch Setting	Start Channel	DIP Switch Setting	Start Channel	DIP Switch Setting	Start Channel	DIP Switch Setting	Start Channel
$\downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow$	1	$\downarrow \uparrow \downarrow \downarrow \downarrow \downarrow \downarrow$	129	$\uparrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow$	257	$\uparrow \uparrow \downarrow \downarrow \downarrow \downarrow \downarrow$	385
$\downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \uparrow$	5	$\downarrow \uparrow \downarrow \downarrow \downarrow \downarrow \uparrow$	133	$\uparrow \downarrow \downarrow \downarrow \downarrow \downarrow \uparrow$	261	$\uparrow \uparrow \downarrow \downarrow \downarrow \downarrow \uparrow$	389
$\downarrow \downarrow \downarrow \downarrow \downarrow \uparrow \downarrow$	9	$\downarrow \uparrow \downarrow \downarrow \downarrow \uparrow \downarrow$	137	$\uparrow \downarrow \downarrow \downarrow \downarrow \uparrow \downarrow$	265	$\uparrow \uparrow \downarrow \downarrow \downarrow \uparrow \downarrow$	393
$\downarrow \downarrow \downarrow \downarrow \downarrow \uparrow \uparrow$	13	$\downarrow \uparrow \downarrow \downarrow \downarrow \uparrow \uparrow$	141	$\uparrow \downarrow \downarrow \downarrow \downarrow \uparrow \uparrow$	269	$\uparrow \uparrow \downarrow \downarrow \downarrow \uparrow \uparrow$	397
$\downarrow \downarrow \downarrow \downarrow \uparrow \downarrow \downarrow$	17	$\downarrow \uparrow \downarrow \downarrow \uparrow \downarrow \downarrow$	145	$\uparrow \downarrow \downarrow \downarrow \uparrow \downarrow \downarrow$	273	$\uparrow \uparrow \downarrow \downarrow \uparrow \downarrow \downarrow$	401
$\downarrow \downarrow \downarrow \downarrow \uparrow \downarrow \uparrow$	21	$\downarrow \uparrow \downarrow \downarrow \uparrow \downarrow \uparrow$	149	$\uparrow \downarrow \downarrow \downarrow \uparrow \downarrow \uparrow$	277	$\uparrow \uparrow \downarrow \downarrow \uparrow \downarrow \uparrow$	405
$\downarrow \downarrow \downarrow \downarrow \uparrow \uparrow \downarrow$	25	$\downarrow \uparrow \downarrow \downarrow \uparrow \uparrow \downarrow$	153	$\uparrow \downarrow \downarrow \downarrow \uparrow \uparrow \downarrow$	281	$\uparrow \uparrow \downarrow \downarrow \uparrow \uparrow \downarrow$	409
$\downarrow \downarrow \downarrow \downarrow \uparrow \uparrow \uparrow$	29	$\downarrow \uparrow \downarrow \downarrow \uparrow \uparrow \uparrow$	157	$\uparrow \downarrow \downarrow \downarrow \uparrow \uparrow \uparrow$	285	$\uparrow \uparrow \downarrow \downarrow \uparrow \uparrow \uparrow$	413
$\downarrow \downarrow \downarrow \uparrow \downarrow \downarrow \downarrow$	33	$\downarrow \uparrow \downarrow \uparrow \downarrow \downarrow \downarrow$	161	$\uparrow \downarrow \downarrow \uparrow \downarrow \downarrow \downarrow$	289	$\uparrow \uparrow \downarrow \uparrow \downarrow \downarrow \downarrow$	417
$\downarrow \downarrow \downarrow \uparrow \downarrow \downarrow \uparrow$	37	$\downarrow \uparrow \downarrow \uparrow \downarrow \downarrow \uparrow$	165	$\uparrow \downarrow \downarrow \uparrow \downarrow \downarrow \uparrow$	293	$\uparrow \uparrow \downarrow \uparrow \downarrow \downarrow \uparrow$	421
$\downarrow \downarrow \downarrow \uparrow \downarrow \uparrow \downarrow$	41	$\downarrow \uparrow \downarrow \uparrow \downarrow \uparrow \downarrow$	169	$\uparrow \downarrow \downarrow \uparrow \downarrow \uparrow \downarrow$	297	$\uparrow \uparrow \downarrow \uparrow \downarrow \uparrow \downarrow$	425
$\downarrow \downarrow \downarrow \uparrow \downarrow \uparrow \uparrow$	45	$\downarrow \uparrow \downarrow \uparrow \downarrow \uparrow \uparrow$	173	$\uparrow \downarrow \downarrow \uparrow \downarrow \uparrow \uparrow$	301	$\uparrow \uparrow \downarrow \uparrow \downarrow \uparrow \uparrow$	429
$\downarrow \downarrow \downarrow \uparrow \uparrow \downarrow \downarrow$	49	$\downarrow \uparrow \downarrow \uparrow \uparrow \downarrow \downarrow$	177	$\uparrow \downarrow \downarrow \uparrow \uparrow \downarrow \downarrow$	305	$\uparrow \uparrow \downarrow \uparrow \uparrow \downarrow \downarrow$	433
$\downarrow \downarrow \downarrow \uparrow \uparrow \downarrow \uparrow$	53	$\downarrow \uparrow \downarrow \uparrow \uparrow \downarrow \uparrow$	181	$\uparrow \downarrow \downarrow \uparrow \uparrow \downarrow \uparrow$	309	$\uparrow \uparrow \downarrow \uparrow \uparrow \downarrow \uparrow$	437
$\downarrow \downarrow \downarrow \uparrow \uparrow \uparrow \downarrow$	57	$\downarrow \uparrow \downarrow \uparrow \uparrow \uparrow \downarrow$	185	$\uparrow \downarrow \downarrow \uparrow \uparrow \uparrow \downarrow$	313	$\uparrow \uparrow \downarrow \uparrow \uparrow \uparrow \downarrow$	441
$\downarrow \downarrow \downarrow \uparrow \uparrow \uparrow \uparrow$	61	$\downarrow \uparrow \downarrow \uparrow \uparrow \uparrow \uparrow$	189	$\uparrow \downarrow \downarrow \uparrow \uparrow \uparrow \uparrow$	317	$\uparrow \uparrow \downarrow \uparrow \uparrow \uparrow \uparrow$	445
$\downarrow \downarrow \uparrow \downarrow \downarrow \downarrow \downarrow$	65	$\downarrow \uparrow \uparrow \downarrow \downarrow \downarrow \downarrow$	193	$\uparrow \downarrow \uparrow \downarrow \downarrow \downarrow \downarrow$	321	$\uparrow \uparrow \uparrow \downarrow \downarrow \downarrow \downarrow$	449
$\downarrow \downarrow \uparrow \downarrow \downarrow \downarrow \uparrow$	69	$\downarrow \uparrow \uparrow \downarrow \downarrow \downarrow \uparrow$	197	$\uparrow \downarrow \uparrow \downarrow \downarrow \downarrow \uparrow$	325	$\uparrow \uparrow \uparrow \downarrow \downarrow \downarrow \uparrow$	453
$\downarrow \downarrow \uparrow \downarrow \downarrow \uparrow \downarrow$	73	$\downarrow \uparrow \uparrow \downarrow \downarrow \uparrow \downarrow$	201	$\uparrow \downarrow \uparrow \downarrow \downarrow \uparrow \downarrow$	329	$\uparrow \uparrow \uparrow \downarrow \downarrow \uparrow \downarrow$	457
$\downarrow \downarrow \uparrow \downarrow \downarrow \uparrow \uparrow$	77	$\downarrow \uparrow \uparrow \downarrow \downarrow \uparrow \uparrow$	205	$\uparrow \downarrow \uparrow \downarrow \downarrow \uparrow \uparrow$	333	$\uparrow \uparrow \uparrow \downarrow \downarrow \uparrow \uparrow$	461
$\downarrow \downarrow \uparrow \downarrow \uparrow \downarrow \downarrow$	81	$\downarrow \uparrow \uparrow \downarrow \uparrow \downarrow \downarrow$	209	$\uparrow \downarrow \uparrow \downarrow \uparrow \downarrow \downarrow$	337	$\uparrow \uparrow \uparrow \downarrow \uparrow \downarrow \downarrow$	465
$\downarrow \downarrow \uparrow \downarrow \uparrow \downarrow \uparrow$	85	$\downarrow \uparrow \uparrow \downarrow \uparrow \downarrow \uparrow$	213	$\uparrow \downarrow \uparrow \downarrow \uparrow \downarrow \uparrow$	341	$\uparrow \uparrow \uparrow \downarrow \uparrow \downarrow \uparrow$	469
$\downarrow \downarrow \uparrow \downarrow \uparrow \uparrow \downarrow$	89	$\downarrow \uparrow \uparrow \downarrow \uparrow \uparrow \downarrow$	217	$\uparrow \downarrow \uparrow \downarrow \uparrow \uparrow \downarrow$	345	$\uparrow \uparrow \uparrow \downarrow \uparrow \uparrow \downarrow$	473
$\downarrow \downarrow \uparrow \downarrow \uparrow \uparrow \uparrow$	93	$\downarrow \uparrow \uparrow \downarrow \uparrow \uparrow \uparrow$	221	$\uparrow \downarrow \uparrow \downarrow \uparrow \uparrow \uparrow$	349	$\uparrow \uparrow \uparrow \downarrow \uparrow \uparrow \uparrow$	477
$\downarrow \downarrow \uparrow \uparrow \downarrow \downarrow \downarrow$	97	$\downarrow \uparrow \uparrow \uparrow \downarrow \downarrow \downarrow$	225	$\uparrow \downarrow \uparrow \uparrow \downarrow \downarrow \downarrow$	353	$\uparrow \uparrow \uparrow \uparrow \downarrow \downarrow \downarrow$	481
$\downarrow \downarrow \uparrow \uparrow \downarrow \downarrow \uparrow$	101	$\downarrow \uparrow \uparrow \uparrow \downarrow \downarrow \uparrow$	229	$\uparrow \downarrow \uparrow \uparrow \downarrow \downarrow \uparrow$	357	$\uparrow \uparrow \uparrow \uparrow \downarrow \downarrow \uparrow$	485
$\downarrow \downarrow \uparrow \uparrow \downarrow \uparrow \downarrow$	105	$\downarrow \uparrow \uparrow \uparrow \downarrow \uparrow \downarrow$	233	$\uparrow \downarrow \uparrow \uparrow \downarrow \uparrow \downarrow$	361	$\uparrow \uparrow \uparrow \uparrow \downarrow \uparrow \downarrow$	489
$\downarrow \downarrow \uparrow \uparrow \downarrow \uparrow \uparrow$	109	$\downarrow \uparrow \uparrow \uparrow \downarrow \uparrow \uparrow$	237	$\uparrow \downarrow \uparrow \uparrow \downarrow \uparrow \uparrow$	365	$\uparrow \uparrow \uparrow \uparrow \downarrow \uparrow \uparrow$	493
$\downarrow \downarrow \uparrow \uparrow \uparrow \downarrow \downarrow$	113	$\downarrow \uparrow \uparrow \uparrow \uparrow \downarrow \downarrow$	241	$\uparrow \downarrow \uparrow \uparrow \uparrow \downarrow \downarrow$	369	$\uparrow \uparrow \uparrow \uparrow \uparrow \downarrow \downarrow$	497
$\downarrow \downarrow \uparrow \uparrow \uparrow \downarrow \uparrow$	117	$\downarrow \uparrow \uparrow \uparrow \uparrow \downarrow \uparrow$	245	$\uparrow \downarrow \uparrow \uparrow \uparrow \downarrow \uparrow$	373	$\uparrow \uparrow \uparrow \uparrow \uparrow \downarrow \uparrow$	501
$\downarrow \downarrow \uparrow \uparrow \uparrow \uparrow \downarrow$	121	$\downarrow \uparrow \uparrow \uparrow \uparrow \uparrow \downarrow$	249	$\uparrow \downarrow \uparrow \uparrow \uparrow \uparrow \downarrow$	377	$\uparrow \uparrow \uparrow \uparrow \uparrow \uparrow \downarrow$	505
$\downarrow \downarrow \uparrow \uparrow \uparrow \uparrow \uparrow$	125	$\downarrow \uparrow \uparrow \uparrow \uparrow \uparrow \uparrow$	253	$\uparrow \downarrow \uparrow \uparrow \uparrow \uparrow \uparrow$	381	$\uparrow \uparrow \uparrow \uparrow \uparrow \uparrow \uparrow$	509

Lightronics

WARRANTY

Lightronics

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

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.

