





TX30 PROTOCOL TRANSLATOR OWNER'S MANUAL

Version 0.4 06/28/2022



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DESCRIPTION

The TX30 is a compact in-line translator which receives DMX512 and transmits the Lightronics (LMX-128) multiplex protocol. This is an industry standard multiplex protocol and MAY be compatible with other manufacturers' multiplex devices. The unit is powered by the LMX dimmer chain to which it is connected or may be powered by an external plug-in power supply.

CONNECTIONS

DMX is received via a 5 pin male XLR connector. LMX output is via a 3 pin female XLR connector. A 5 pin female XLR is also provided for the DMX "pass thru". LED indicators display power and input signal status.

EXTERNAL POWER SUPPLY

Input Voltage:	120VAC
Output Voltage:	24 VDC
Output Current:	1.0 Amp
Connector:	2.1mm female connector

The TX30 will operate using an external power supply which provides anywhere from 12 to 24 Volts AC or DC. The supply must be rated for least at 600 mA. If a DC supply is used, the center pin of the connector MUST BE THE POSITIVE output of the supply.

OPERATION

The TX30 translates and sends LMX-128 automatically when power is applied and a DMX signal is present. LED indicators show the power and DMX incoming signal status.

CHANNEL ASSIGNMENT

The TX30 translates 192 channels at a time. Eight of the DIP switches on the front of the unit are used to select the starting channel of the 192 channel block. When all switches are down, channels 1 - 192 are selected. Channel selection is incremented two channels at a time. A table of address switch settings is included at the back of this manual.

DMX TERMINATE

DIP switch number 1 will terminate the DMX input bus when it is in the DOWN position.

HOLD FUNCTION

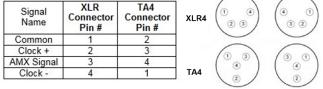
DIP switch number 2 activates a "hold" function. When in the UP position, channel outputs remain at their current levels indefinitely upon a loss of DMX.

TX192 OPTION

The TX30 may be optionally supplied to transmit the AMX192 protocol. This model transmits both LMX and AMX simultaneously. An external power supply is included and is needed with this option. The AMX-192 output signal is transmitted from a 4 pin, male, XLR connector located at the rear of the unit.

CAUTION: Some AMX dimmers use a 4 pin TA4 mini connector for the control signal. This connector is NOT wired the same as the 4 pin XLR connector. The following table provides the information needed to make an adapter cable.

AMX192 CONNECTOR WIRING



(MALE)

(FEMALE)

MAINTENANCE AND REPAIR

TROUBLESHOOTING

Verify cables and wiring (a very common source of problems).

Ensure that all system units are powered on particularly the dimmer to which the translator is connected.

Check address settings at dimmers, console, and translator. Check console patch configuration.

REPAIR

There are no user serviceable parts in the unit. Internal 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 the Lightronics Service Dept.

WARRANTY INFORMATION AND REGISTRATION – CLICK LINK BELOW

www.lightronics.com/warranty.html



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ADDRESS SETTINGS TABLE

The DIP Switch Setting column shows the positions of the Address DIP switches on the TX30. The Start Channel column shows the resulting DMX channel assignment for the first TX30 LMX output channel (channel 1). The left end two DIP switches are not included in the table since they do not affect the address settings.

NOTE: Some control consoles and dimmers can be programmed or "patched" to alter their channel order. You may get unexpected results if you are not aware of the patch condition when you set the TX30 address switches.

EXAMPLE: If the TX30 address DIP switches are set to $\mathbb{Q} \oplus \mathbb{Q} \oplus \mathbb{Q} \oplus \mathbb{Q} \oplus \mathbb{Q}$: channel 1 of the LMX dimmer will respond to DMX address 87. The remaining dimmer channels will respond to DMX address 88, 89, 90, etc.

DIP Switch # and Setting	Start	DIP Switch # and Setting	Start	DIP Switch # and Setting	Start Chan	DIP Switch # and Setting	Start
3 4 5 6 7 8 9 10	Chan	3 4 5 6 7 8 9 10	Chan	3 4 5 6 7 8 9 10	Chan	3 4 5 6 7 8 9 10	Chan
<u> </u>	1	00000000	65	00000000	129	\hat{U}	193
ÛÛÛÛÛÛ	3	ŶŶ IJ ŶŶŶŶŶ IJ	67	Ŷ IJ ŶŶŶŶŶŶ IJ	131	00000000	195
ÛÛÛÛÛÛÛ	5	ÛÛÛÛÛÛÛ	69	Ŷ IJ ŶŶŶŶŶŶŶ	133	00000000	197
ÛÛÛÛÛÛ	7	00000000	71	00000000	135	00000000	199
ûûûûûûû	9	ŶŶ IJ ŶŶ IJ ŶŶ	73	00000000	137	00000000	201
ûûûûûû	11	00000000	75	00000000	139	00000000	203
ûûûûû 0û	13	0000000	77	00000000	141	00000000	205
ûûûûû000	15	00000000	79	00000000	143	00000000	207
<u> </u>	17	ÛÛÛÛÛÛÛ	81	00000000	145	00000000	209
ŶŶŶŶŶŶŶŶ	19	00000000	83	00000000	147	000000000	211
ûûûûûûû	21	ŶŶ IJ ŶŮŶŨŶÛ	85	Ŷ IJ ŶŶŶŶŶŶŶ	149	00000000	213
ŶŶŶŶŶŶŶŶ	23	ŶŶ IJ ŶŨŶŨŶŨ	87	Ŷ IJ ŶŶŶŶŶŶŶ	151	Ŷ 00 Ŷ0Ŷ00	215
ûûûûûû îî	25	ŶŶ IJ Ŷ IJ ŶŶ	89	00000000	153	00000000	217
ŶŶŶŶŶŮŮŶŮ	27	ŶŶ IJ ŶŨŨŨŨ	91	0000000	155	00000000	219
Ϋ́Ϋ́Ύ́Ύ́ΌΌΟ ́́Ο	29	ΥΥΟΥΟΟΟ Υ	93	0000000	157	0000000	221
ŶŶŶŶŶŎŎŎŎ	31	ŶŶŊŶŊŊŊŊ	95	0000000	159	0000000	223
<u> </u>	33	<u> </u>	97	00000000	161	00000000	225
ŶŶŶŮŶŶŶŬ	35	ŶŶ ŮŮ ŶŶŶ Ů	99	Ŷ IJ ŶŮŶŮŶŶÛ	163	000000000	227
ûûûûûûû	37	ŶŶ ŮŮ ŶŶÛŶ	101	Ŷ IJ ŶŮŶŮŶŮŶ	165	00000000	229
00000000	39	0000000	103	00000000	167	00000000	231
ŶŶŶŮŶŮŶŶ	41	ŶŶŬŬŶÛ	105	00000000	169	00000000	233
ŶŶŶŎŶŎŶŎ	43	0000000	107	00000000	171	00000000	235
ŶŶŶŮŶŮŮŶ	45	ŶŶŎŎŶŎŎŶ	109	00000000	173	0000000	237
ŶŶŶ Ů Ŷ Ů Ů	47	0000000	111	000000000	175	00000000	239
ûûû00 ûûû	49	ŶŶŬŬŬŶŶ	113	Ŷ IJ Ŷ IJIJ ŶŶŶ	177	00000000	241
ŶŶŶŮŮŶŶŮ	51	00000000	115	00000000	179	00000000	243
ŶŶŶŮŮŶŮŶ	53	0000000	117	0000000	181	OOOOOOO	245
ŶŶŶ ŮŬŶŮŬ	55	00000000	119	00000000	183	00000000	247
Ϋ́Ϋ́́́́́́́́́́́́́́́́́́́́́́́́́́́́́́́́́	57	ŶŶ ŬŬŬŬ ŶŶ	121	0000000	185	OOOOOO	249
ŶŶŶÛÛÛ ŶŶ	59	0000000	123	0000000	187	0000000	251
000000	61	000000	125	000000	189	↑000000 ↓	253
000000	63	$\hat{U}\hat{U}$	127	0000000	191	0000000	255

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ADDRESS SETTINGS TABLE (CONTINUED)

DIP Switch # and Setting	Start Chan	DIP Switch # and Setting	Start Chan	DIP Switch # and Setting	Start Chan	DIP Switch # and Setting	Start Chan
3 4 5 6 7 8 9 10	Chan	3 4 5 6 7 8 9 10	Chan	3 4 5 6 7 8 9 10	Chan	3 4 5 6 7 8 9 10	Chan
00000000	257	U ÛUÛÛÛÛÛ	321	000000000	385	000000000	449
U ÛÛÛÛÛÛÛÛ	259	U ÛUÛÛÛÛÛ	323	000000000	387	000000000	451
U ÛÛÛÛÛÛÛÛ	261	U ÛUÛÛÛÛÛ	325	000000000	389	000000000	453
U ÛÛÛÛÛÛÛÛ	263	U ÛUÛÛÛÛ U Û	327	000000000	391	000000000	455
U ÛÛÛÛÛÛÛÛ	265	U ÛUÛÛÛÛÛ	329	000000000	393	00000000	457
00000000	267	$0 \mathbf{\hat{0}} 0 \mathbf{\hat{0}} $	331	000000000	395	000000000	459
00000000	269	U ÛUÛÛÛÛÛÛ	333	00000000	397	00000000	461
0000000	271	00000000	335	0000000	399	00000000	463
U ÛÛÛÛÛÛÛ	273	U ÛUÛÛÛÛÛ	337	000000000	401	000000000	465
00000000	275	000000000	339	000000000	403	0000000000	467
00000000	277	00000000	341	00000000	405	00000000	469
00000000	279	00000000	343	00000000	407	000000000	471
U ÛÛÛÛÛÛÛÛ	281	U ÛUÛÛÛÛÛ	345	00000000	409	00000000	473
0000000	283	00000000	347	00000000	411	00000000	475
0000000	285	0000000	349	0000000	413	0000000	477
0000000	287	0000000	351	00000000	415	00000000	479
U ÛÛÛÛÛÛÛ	289	U Û UU ÛÛÛÛ	353	000000000	417	000000000	481
U ÛÛÛÛÛÛÛ	291	U ÛUUÛÛÛU	355	000000000	419	000000000	483
U ÛÛÛÛÛÛÛÛ	293	\mathbf{U}	357	00000000	421	000000000	485
000000000	295	00000000	359	000000000	423	000000000	487
U ÛÛÛÛÛÛÛÛ	297	\mathbf{U}	361	00000000	425	00000000	489
00000000	299	00000000	363	000000000	427	000000000	491
00000000	301	U ÛUUÛUÛÛ	365	00000000	429	00000000	493
000000000	303	00000000	367	00000000	431	00000000	495
U ÛÛ U ÛÛÛÛ	305	U Û UUU ÛÛÛ	369	000000000	433	000000000	497
0	307	00000000	371	000000000	435	0000000000	499
00000000	309	U Û U ÛÛÛÛÛ	373	00000000	437	00000000	501
00000000	311	00000000	375	00000000	439	000000000	503
U ÛÛ UUU ÛÛ	313	U 1000000	377	00 000000	441	00000000	505
0000000	315	0000000	379	00000000	443	000000000	507
000000	317	0000000	381	0000000	445	0000000	509
000000	319	0000000	383	0000000	447	0000000	511