

LIGHTRONICS AS62D 6 X 1200W Compact Dmx Dimmer **Owner's Manual**

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LIGHTRONICS AS62D 6 X 1200W Compact Dmx Dimmer



Product Information

The AS62D Compact DMX Dimmer is a versatile lighting control device designed for professional lighting installations. It offers 6 channels with a total capacity of 4800 Watts, allowing you to connect and control various lighting fixtures.

Power Connections

The AS62D comes with two 20 amp line cords for connection to separate 120 VAC, 20 Amp, grounded services. This ensures a reliable power supply for your lighting setup.

Load Connections

The unit features six numbered duplex outlets on the top, providing two connections for each output channel. Each channel can handle up to 1200 Watts of lighting load. Channels 1, 3, and 5 have a combined load capacity of 2400 Watts, while channels 2, 4, and 6 also have a combined load capacity of 2400 Watts.

Control Signal Connections

The AS62D supports multiplex operation and is compatible with the Lightronics and NSI/Sunn three-wire multiplexed protocol. It has a male three-pin XLR connector for connection to the control console and a female connector for linking with additional dimmers.

Product Usage Instructions

Normal Mode

In normal mode, the AS62D operates based on the control console's channel settings. The output of each channel can be adjusted between off and full on. The trip point for turn on is approximately 50%. The left-hand switches on the DIP switch block are used to select relay mode channels.

Relay Mode

Pairs of channels (1/2, 3/4, and/or 5/6) can be switched into relay mode. In this mode, the output of the selected channels will either be off or full on, depending on the control console's channel setting. The DIP switches on the unit control relay mode channel selection.

Chaser Mode

Chaser mode allows the AS62D to operate independently of the control console and other dimmers. In this mode, the unit offers eight different chaser patterns. One of the DIP switches on the end of the unit is used to turn on or off chaser mode. The switch settings for controlling chaser operation are indicated on the unit cover.

The chaser step time can be adjusted for up to 128 seconds per step, with the step fade time being proportional to the step time. If a channel is in relay mode during chaser operation, it will snap on and off with zero fade time.

Note: When using multiple AS62D dimmers in chaser mode, ensure that all dimmers are set to the same mode.

DESCRIPTION

The AS62D is a compact six channel light dimmer. It has a maximum capacity of 1200 Watts per channel and maximum total load capacity of 4800 Watts. It is supplied with two input power cord stubs which may be connected to two different 120 VAC power phases. The AS62D is intended for INDOOR USE ONLY. The unit operates using the USITT DMX-512 protocol or an industry standard three wire multiplex protocol. The AS62D may be operated in a relay (non-dim) mode. The unit will also function as a chaser and has several preset chase patterns which may be used.

INSTALLATION

LOCATION: Locate the unit vertically with control signal connectors on bottom in a well ventilated area away from moisture and heat. Two ½" holes are provided on the dimmer top cover to install a lighting bar pipe clamp and a suitable safety cable.

POWER CONNECTIONS: Extending from the chassis are two 20 amp line cords for connection to two separate 120 VAC, 20 Amp, grounded services in any phase combination. Total capacity of the AS62D is 4800 Watts. LOAD CONNECTIONS: There are six numbered duplex outlets on the top of the unit. Each provides two connections for one of the output channels. You can connect up to 1200 Watts of lighting to a single channel.

The total load capacity of the AS62D channels 1, 3, and 5 combined is limited to 2400 Watts. The total load capacity of the AS62D channels 2, 4, and 6 combined is also limited to 2400 Watts.

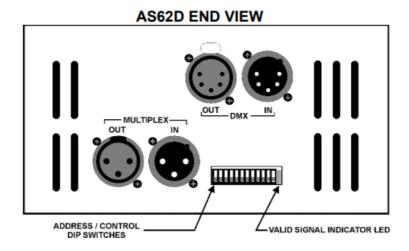
CONTROL SIGNAL CONNECTIONS

FOR MULTIPLEX OPERATION: The male three pin XLR connector on the unit end panel connects to the control console. The female connector is for connection to additional dimmers. The AS62D dimmer is compatible with the Lightronics and NSI/Sunn three wire multiplexed protocol. If you have older Lightronics dimmers which run in the obsolete Lightronics mode only, contact Lightronics for information on changing the mode. When using multiple dimmers, ALL dimmers MUST be in the SAME mode.

FOR DMX-512 OPERATION: The male five pin XLR connector on the unit end panel connects to the control console. The female connector is for connection to additional dimmers. The AS62D dimmer is compatible with the USITT DMX-512 protocol. If both multiplex and DMX signals are available to the unit – it will automatically lock on to the DMX signal. Note that the DMX standard does not provide for console power via the dimmer chain. Therefore the DMX console used with AS62D dimmers must be powered by other means.

CONTROL SIGNAL WIRING

Connector Pin #	Multiplex	DMX		
1	LMX Common	DMX Common		
2	Console Power	DMX Data –		
3	Multiplex Signal	DMX Data +		
4	Not Used	Not Used		
5	Not Used	Not Used		



OPERATION

NORMAL MODE (non-chaser)

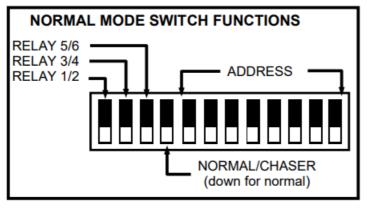
A green LED in the end panel will indicate that a valid control signal (DMX or multiplex) is applied to the unit. A DIP switch block on the end panel selects the starting channel number of the dimmer. The eight right hand switches control this function. For example, if all switch positions are down – the dimmer will respond to channels 1-6. Moving the switch position on the far right up will set the dimmer to respond to channels 3-8. A complete table of channel assignments is provided in this manual.

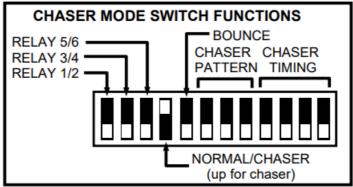
RELAY MODE Pairs of channels (1/2 and/or 3/4 and/or 5/6) may be switched into the relay mode. In this mode the output of these channels will be either off or full on depending on the control console channel setting. The trip point for turn on is approx. 50%. The 3 left hand switches on the DIP switch block control relay mode channel selection.

CHASER MODE

- When operating in the chaser mode the AS62D becomes independent of the control console and other
 dimmers. The green LED indicator is OFF when in the chaser mode. Chaser mode is turned on and off by one
 of the DIP switches on the end of the unit. A diagram on the unit cover shows the switch settings for controlling
 chaser operation.
- Eight different chaser patterns are available. A "bounce" condition may be imposed on several of the chase patterns by setting one of the DIP switches. The bounce condition causes the chase pattern to run in alternating directions.
- The chase step time may be controlled for up to 128 seconds per step. Step fade time is proportional to the step time. If a channel is in the relay mode during chaser operation it will "snap" on and off (zero fade time). The following tables show the details of chaser settings.

ADDRESS AND CONTROL SWITCH SETTINGS





CHASER PATTERN SELECTION

SWITCHES	PATTERN
፲	6 channel sequence
①①●	6 channel build
₽★☆	6 channel build/unbuild
₽ ♠ ♠	6 channel random
₽ ÛŪ	3 channel sequence
♦ ₽	3 channel build
★◆小	3 channel build/unbuild
**	2 channel alternating

CHASER TIMING SELECTION

SWITCHES	STEP TIME		
<u> </u>	0.5 seconds		
₽₽₽₽	1.0 seconds		
ひむ ◆ひ	2 seconds		
①①◆◆	4 seconds		
₽₽₽₽	6 seconds		
↑↓↓	8 seconds		
₽₽₽₽	12 seconds		
₽★★★	16 seconds		
₽ ФФФ	24 seconds		
●①◆	32 seconds		
●①●①	40 seconds		
◆◆◆◆	48 seconds		
●●↑↓	56 seconds		
★↓↓	64 seconds		
111	96 seconds		
† †††	128 seconds		

CTED TIME

MAINTENANCE AND REPAIR

TROUBLESHOOTING

• Check that you have power applied to the dimmer.

CWITCHES

- · Check that all light fixtures are functional.
- · Check the fuses.
- Check the multiplex and/or DMX cable.
- Check the settings of the dimmer DIP switches.
- Check the console setup for correct patching.

REPAIR

The only user serviceable parts are externally accessible fuses. Replace fuses ONLY with 10

Amp, 250VAC, fast blow fuses. Internal service on the unit by other than Lightronics authorized agents will void the warranty.

If service is required, contact the dealer from whom you purchased the dimmer, or Lightronics Service Department, 509 Central Drive, Virginia Beach, VA 23454. Tel: 757 486 3588.

WARRANTY INFORMATION AND REGISTRATION – CLICK LINK BELOW www.lightronics.com/warranty.html

CHANNEL ASSIGNMENT SETTINGS

The DIP Switch Setting column shows the positions of the DIP switches on the AS-62 dimmer. The Start Channel column shows the resulting channel assignment for channel 1 of the dimmer. The remaining dimmer channels will automatically be assigned the next 5 consecutive control channels.

DIP Switch # and Setting	Start Channel	DIP Switch # and Setting	Start Channel	DIP Switch # and Setting	Start Channel	DIP Switch # and Setting	Start Channel
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0.000000	3	0.000000	67	0.0000000	131	Դ ՍՍ Դ Դ Դ Դ Դ Դ Դ Դ Դ Դ Դ Դ Դ Դ Դ Դ Դ Դ	195
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0.0000000	7	0.0000000	71	0.0000000	135	0.0000000	199
ԴԴԴԴԳ ∪	9	$\hat{\mathbf{v}}$	73	0.000000	137	Դ ՍՍ Դ Դ Ս Դ Դ Դ	201
0.000000	11	0.000000	75	0.000000	139	$\hat{1}$	203
ԴԴԴԴԴ	13	0.000000	77	0.000000	141	$\hat{1}$	205
Դ Դ Դ Դ Դ Դ Դ Դ Դ Դ Դ Դ Դ Դ Դ Դ Դ Դ Դ	15	0.0000000	79	0.0000000	143	0.0000000	207
0.0000000	17	Դ Դ Ս Դ Օ Դ	81	0.0000000	145	Դ ՍՍ Դ Ս Դ Դ Դ Դ Դ Դ Դ Դ Դ Դ Դ Դ Դ Դ Դ Դ	209
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ûûûûûûû	23	0.0000000	87	0.000000	151	00000000	215
ԴԴԴԴ	25	Դ Գ Օ Գ Օ Գ	89	Դ ՕԴԴՈՒ	153	$\hat{1}$	217
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ԴԴԴԴ 0000	29	0.000000	93	0.000000	157	0000000	221
$\hat{\mathbf{T}}\hat{\mathbf{T}}\hat{\mathbf{T}}\hat{\mathbf{T}}\mathbf{O}\mathbf{O}\mathbf{O}\mathbf{O}$	31	0.0000000	95	0.0000000	159	00000000	223
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ԴԴԴՍԴԴԴ	35	Դ Դ ՍՍ ԴԴԴԴ	99	ԴՍԴՍԴԴԴ	163	Դ 000ֆֆֆ0	227
ԴԴԴՍԴԴ	37	Դ Դ ՍՍ ԴԴԴ	101	ԴՍԴՍԴԴՈ	165	Դ 000ֆֆ0ֆ	229
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ԴԴԴՍԴՕ Դ	41	Դ Դ ՍՍ Դ Ս ԴԴ	105	ԴՍԴՍԴՕ ԴԴ	169	ԴՕՕՕ ԳՕԳԵ	233
Դ ԳԳԳԳԳԳ	43	0.000000	107	0.000000	171	0.000	235
Դ Դ Դ Դ Դ Դ Դ Դ Դ Դ Դ Դ Դ Դ Դ Դ Դ Դ Դ	45	$\hat{\mathbf{T}}\hat{\mathbf{T}}\mathbf{U}\mathbf{U}\hat{\mathbf{T}}\mathbf{U}\mathbf{U}\hat{\mathbf{T}}$	109	0.000000	173	0000000	237
0.000000	47	0.000000	111	00000000	175	00000000	239
ԴԴԴՕՕ ԳԵՆ	49	Դ Դ ՕՕՕ ԳԵՆ	113	ԴՍԴՍՍ ԳԵ	177	ԴՕՕՕՕ ԳԵՐ	241
Դ ֆֆ ՕՕ ֆֆ	51	0.000000	115	0.000000	179	100000110	243
Դ ԳԳ ՕՕ Գ Օ Գ	53	0.000000	117	0.000000	181	0000000	245
0.000000	55	\$\$000\$00	119	00000000	183	\$0000 \$00	247
ስስሳዕፀፀ ሳስ	57	\$\$0000 \$\$	121	0000000	185	₽00000₽₽	249
0.00000	59	\$\$0000\$0	123	0000000	187	00000000	251
\$\$\$0000 \$	61	₽₽00000₽	125	\$000000	189	₽000000₽	253
\$\$\$00000	63	₽₽000000	127	\$0\$00000	191	00000000	255

DIP Switch # and Setting	Start Channel	DIP Switch # and Setting	Start Channel	DIP Switch # and Setting	Start Channel	DIP Switch # and Setting	Start Channel
5 6 7 8 9 10 11 12	•	5 6 7 8 9 10 11 12	O 11	5 6 7 8 9 10 11 12	•	5 6 7 8 9 10 11 12	
0 0000000	257	\mathbf{O}	321	00 0000000	385	000000000	449
\mathbf{O} $\hat{\mathbf{O}}$	259	\mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O}	323	000000000	387	00000000	451
0 $\hat{0}$ $\hat{0}$ $\hat{0}$ $\hat{0}$ $\hat{0}$	261	\mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O}	325	00 00 00	389	000 000000	453
0 0 0 0 0 0	263	0 0 0 0 0 0 0	327	00 0 0 0 0	391	00000000	455
\mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O}	265	\mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O}	329	00 00 00	393	000	457
00000000	267	00000000	331	00 0 0 0 0	395	00000000	459
0 0 0 0 0 0	269	\mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O}	333	00 0 0 0 0	397	00000000	461
00000000	271	0000 0 000	335	00 000000	399	00000000	463
0	273	\mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O}	337	00	401	000 0000000	465
00000000	275	\mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O}	339	00 0 0 0 0	403	000000000	467
00000000	277	\mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O}	341	00 0 0 0 0	405	000 000000	469
00000000	279	00000000	343	00000000	407	000000000	471
0000000	281	0 0 0 0 0 0 0 0	345	00 000000	409	0000000	473
0000000	283	00000000	347	00000000	411	00000000	475
O \$\$\$\$000\$	285	O \$O\$OOO\$	349	00 000000	413	00000000	477
00000000	287	00000000	351	00000000	415	00000000	479
\mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O} \mathbf{O}	289	0000 0 0 0 0 0	353	000000000	417	0000 000000	481
000000000	291	0000 0 0 0 00	355	000000000	419	0000000000	483
00000000	293	0000 0 00 0	357	00000000	421	0000ûû0û	485
00000000	295	O0000000	359	000000000	423	000000000	487
0000000	297	000000000	361	00000000	425	0000û0ûû	489
00000000	299	000000000	363	000000000	427	000000000	491
00000000	301	0000 0 00 0	365	00 000000	429	0000⊕00⊕	493
00000000	303	00000000	367	00000000	431	00000000	495
0000000	305	0 0 0 0 0 0 0 0	369	00000000	433	00000ûûû	497
0 0 0 0 0 0 0	307	0 0 0 0 0 0 0	371	000000000	435	0000000000	499
0 0 0 0 0 0 0	309	0 0 0 0 0 0 0 0	373	00 000000	437	00000000	501
0000000	311	0000000	375	00000000	439	000000000	503
00000000	313	0₽0000₽₽	377	00 000000	441	000000₽₽	505
0000000	315	0000000	379	00000000	443	00000040	507
O \$\$0000\$	317	0000000	381	00000000	445	0000000₽	509
000000	319	0000000	383	00000000	447	00000000	511

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Documents / Resources



LIGHTRONICS AS62D 6 X 1200W Compact Dmx Dimmer [pdf] Owner's Manual AS62D 6 X 1200W Compact Dmx Dimmer, AS62D, 6 X 1200W Compact Dmx Dimmer, Compact Dmx Dimmer, Dmx Dimmer, Dimmer

References

- Lightronics Complete Lighting and Control Systems
- <u>Ø_Lightronics Lighting Control Product Warranty Information</u>

Manuals+,