



## AS62D 6 X 1200W COMPACT DMX DIMMER OWNER'S MANUAL

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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

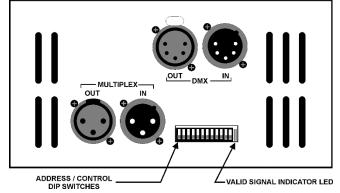
FOR MULTIPLEX OPERATION: The male three pin XLR connector on the unit end panel connects to the control console. The female connector is for connection to additional dimmers. The AS62D dimmer is compatible with the Lightronics and NSI/Sunn three wire multiplexed protocol. If you have older Lightronics 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		

#### AS62D END VIEW



#### 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



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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

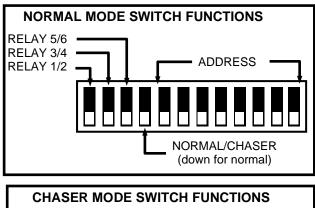
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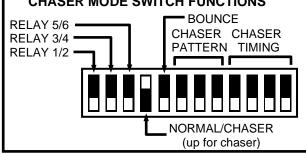
When operating in the chaser mode the AS62D becomes independent of the control console and other dimmers. The green LED indicator is OFF when in the chaser mode. Chaser mode is turned on and off by one of the DIP switches on the end of the unit. A diagram on the unit cover shows the switch settings for 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				
<u> </u>	6 channel sequence				
₽₽₽	6 channel build				
₽₽₽	6 channel build/unbuild				
₽₽₽	6 channel random				
●℃℃	3 channel sequence				
₽₽₽	3 channel build				
♠♠₽	3 channel build/unbuild				
	2 channel alternating				

#### CHASER TIMING SELECTION

SWITCHES	STEP TIME
<u> </u>	0.5 seconds
₽₽₽₽	1.0 seconds
₽₽₽₽	2 seconds
₽₽₽₽	4 seconds
₽₽₽₽	6 seconds
₽₽₽₽	8 seconds
₽₽₽₽	12 seconds
₽₽₽₽	16 seconds
<b>₽</b> ₽₽₽	24 seconds
╋₽₽╋	32 seconds
●↓●↓	40 seconds
<b>▲</b> ₽ <b>▲</b>	48 seconds
╋╋₽₽	56 seconds
╋╋₽╋	64 seconds
<b>111</b>	96 seconds
***	128 seconds

#### MAINTENANCE AND REPAIR

#### TROUBLESHOOTING

- Check that you have power applied to the dimmer.
- 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



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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

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#### 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 1of 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
5 6 7 8 9 10 11 12	Charmer	5 6 7 8 9 10 11 12	Charmer	5 6 7 8 9 10 11 12	Charmer	5 6 7 8 9 10 11 12	Charmer
<u> </u>	1	00000000	65	$\mathbf{\hat{0}}$	129	0 <b>00</b> 00000	193
00000000 <b>0</b>	3	ŶŶ <b>IJ</b> ŶŶŶŶÛ	67	Ŷ <b>IJ</b> ŶŶŶŶŶŶ <b>IJ</b>	131	00000000	195
00000000	5	ŶŶ <b>IJ</b> ŶŶŶŶŶŶ	69	00000000	133	00000000	197
00000000	7	00000000	71	00000000	135	00000000	199
00000000	9	ŶŶ <b>IJ</b> ŶŶ <b>IJ</b> ŶŶ	73	Ŷ <b>IJ</b> ŶŶŶŶŶŶŶ	137	0 <b>00</b> 00000	201
<b>ûûûûûûû</b>	11	00000000	75	00000000	139	00000000	203
00000000	13	$\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}$	77	00000000	141	00000000	205
<b>ûûûûû000</b>	15	$\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}$	79	00000000	143	00000000	207
<b>ûûûûûûû</b>	17	ŶŶ <b>IJ</b> Ŷ <b>IJ</b> ŶŶÛ	81	00000000	145	Ŷ <b>UU</b> ŶÛŶŶ	209
<b>ûûûûûûû</b>	19	$\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}$	83	000000000	147	000000000	211
<b>ûûûûûûû</b>	21	$\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}$	85	0000000	149	0000000	213
<b>ŶŶŶŶŶŶŶŶ</b>	23	00000000	87	00000000	151	00000000	215
<b>ûûûû00</b> ûû	25	<b>ûû0û00ûû</b>	89	<b>ŶŮŶŶŮŮŶŶ</b>	153	0000000	217
000000	27	$\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}$	91	0000000	155	0000000	219
000000	29	0000000	93	0000000	157	0000000	221
<b>ŶŶŶŶŶŎŎŎŎ</b>	31	000000000000000000000000000000000000	95	00000000	159	<b>0000000</b>	223
<u> </u>	33	<b>ÛÛÛÛÛÛÛ</b>	97	Ŷ <b>IJ</b> ŶŮŶŶŶŶ	161	<b>ÛUUU</b> ÛÛÛ	225
<b>ŶŶŶŮŶŶŶŮ</b>	35	<b>ŶŶ<b>ŮŬ</b>ŶŶŶ<b>Ů</b></b>	99	Ŷ <b>IJ</b> ŶŮŶŶŶŶ	163	000000000	227
<b>ŶŶŶŮŶŶŮŶ</b>	37	ŶŶ <b>IJIJ</b> ŶŶ <b>IJ</b> Ŷ	101	$\hat{U}$	165	<b>ΔΟΟΟ</b> ΦΦΟΦ	229
<b>ŶŶŶŮŶŶŨŨ</b>	39	ŶŶ <b>ŮŮ</b> ŶŶ <b>ŮŬ</b>	103	Ŷ <b>IJ</b> ŶŨŶŨŶŨŎ	167	OOOOOOO	231
<b>ûûûûûûû</b>	41	<b>ŶŶ<b>IJIJ</b>ŶŮŶŶ</b>	105	$\hat{U}$	169	<b>ΔΟΟΟΦΟΦΦ</b>	233
<b>ŶŶŶŮŶŮŶŮ</b>	43	<b>ŶŶŮ</b> ŮŶŮŶŮ	107	00000000	171	Ŷ <b>ŨŨŮ</b> Ŷ <b>Ũ</b> ŶŎ	235
<b>ŶŶŶŶŶŶŶŶ</b>	45	ŶŶ <b>IJIJ</b> ŶŨIJŶ	109	00000000	173	OOOOOOO	237
ŶŶŶ <b>ŶŶŶŎ</b>	47	0000000	111	000000000	175	00000000	239
<b>ûûû<b>UU</b>ûûû</b>	49	ŶŶ <b>ŮŮŮ</b> ŶŶŶ	113	<b>ŶŮŶŮŮŶ</b> ŶŶ	177	Δ <b>ΟΟΟΟ</b> ΦΦΦ	241
<b>ŶŶŶŮŮŶŶŨ</b>	51	ŶŶ <b>IJIJ</b> ŶŶŨ	115	00000000	179	00000000	243
<b>ŶŶŶŮŮŶŮŶ</b>	53	ŶŶ <b>IJIJŨ</b> ŶÛŶ	117	<b>ΫθΫθθΰθ</b>	181	Φ <b>0000</b> ΦΦΦ	245
ŶŶŶ <b>ŮŮ</b> Ŷ <b>ŮŮ</b>	55	<b>ŶŶŮŮŮ</b> Ŷ <b>Ů</b> Ů	119	<b>ŶŎŶŎŎŶŎŎ</b>	183	<b>00000000</b>	247
<b>ŶŶŶ<b>ŬŬŬ</b>ŶŶ</b>	57	<b>Δ<b>ΔΟΟΟΟ</b>ΦΦ</b>	121	<b>ΔΟΔΟΟΟ</b> ΦΦ	185	Δ <b>00000</b> ΦΦ	249
<b>ŶŶŶŮŮŮ</b> ŶŶ	59	0000000	123	0000000	187	0000000	251
<b>ûûû000û</b>	61	0	125	0000000	189	<b>Φ00000</b> Φ	253
<b>ŶŶŶŮŮŮŮŮ</b>	63	<b>0000000</b>	127	<b>0000000</b>	191	<b>0000000</b>	255

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#### CHANNEL ASSIGNMENT SETTINGS (continued)

DIP Switch # and Setting	Start Channel						
5 6 7 8 9 10 11 12		5 6 7 8 9 10 11 12		5 6 7 8 9 10 11 12		5 6 7 8 9 10 11 12	onannor
<b>U</b> TTTTT	257	<b>U</b> ÛÛÛÛÛÛÛ	321	<b>UU</b> ÛÛÛÛÛÛ	385	<b>UUU</b> ÛÛÛÛÛ	449
<b>U</b> ÛÛÛÛÛÛÛÛ	259	00000000	323	00000000	387	00000000	451
<b>U</b> ÛÛÛÛÛÛÛÛ	261	<b>U</b> ÛUÛÛÛÛÛ	325	<b>UU</b> ÛÛÛÛÛÛ	389	000000000	453
<b>U</b> ÛÛÛÛÛÛÛÛ	263	00000000	327	000000000	391	000000000	455
<b>U</b> ÛÛÛÛÛÛÛÛ	265	<b>U</b> ÛUÛÛÛÛÛ	329	<b>UU</b> ÛÛÛÛÛÛ	393	<b>UUU</b> ÛÛÛÛÛ	457
000000000	267	00000000	331	00000000	395	000000000	459
<b>U</b> ÛÛÛÛÛÛÛÛ	269	<b>U</b> ÛUÛÛÛÛÛÛ	333	<b>UU</b> ÛÛÛÛÛÛ	397	00000000	461
00000000	271	0000000	335	0000000	399	00000000	463
<b>U</b> ÛÛÛÛÛÛÛÛ	273	<b>U</b> ÛUÛÛÛÛÛ	337	<b>UU</b> ÛÛÛÛÛÛ	401	<b>UUU</b> ÛUÛÛÛ	465
000000000	275	00000000	339	000000000	403	000000000	467
00000000	277	00000000	341	00000000	405	00000000	469
00000000	279	00000000	343	00000000	407	000000000	471
<b>U</b> ÛÛÛÛÛÛÛÛ	281	<b>U</b> ÛUÛÛÛÛÛ	345	<b>UU</b> ÛÛ <b>UU</b> ÛÛ	409	00000000	473
00000000	283	00000000	347	00000000	411	00000000	475
<b>U</b> ÛÛÛÛ <b>UU</b> Û	285	0000000	349	<b>00</b> 00000	413	00000000	477
0000000	287	0000000	351	00000000	415	00000000	479
<b>U</b> ÛÛÛÛÛÛÛ	289	<b>U</b> Û <b>UU</b> ÛÛÛÛ	353	<b>UU</b> ÛÛÛÛÛÛ	417	<b>UUUU</b> ÛÛÛ	481
000000000	291	00000000	355	000000000	419	000000000	483
00000000	293	<b>U</b> Û <b>U</b> ÛÛÛÛÛ	357	00000000	421	00000000	485
000000000	295	00000000	359	000000000	423	000000000	487
00000000	297	<b>U</b> Û <b>U</b> ÛÛÛÛÛ	361	00000000	425	00000000	489
000000000	299	00000000	363	000000000	427	000000000	491
0000000	301	00000000	365	00000000	429	00000000	493
0000000	303	00000000	367	00000000	431	00000000	495
00000000	305	<b>U</b> Û <b>UUU</b> ÛÛ	369	<b>00</b> 0000000	433	000000000	497
00000000	307	00000000	371	000000000	435	0000000000	499
0000000	309	0000000	373	0000000	437	00000000	501
00000000	311	0000000	375	00000000	439	000000000	503
0000000	313	0000000	377	00000000	441	00000000	505
0000000	315	0000000	379	00000000	443	000000000	507
0000000	317	000000	381	0000000	445	0000000	509
000000	319	0000000	383	0000000	447	00000000	511