

DESCRIPTION

The AS-62D is a compact 4 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 2 input power cord stubs which may be connected to 2 different 120 VAC power phases. The AS-62D is intended for INDOOR USE ONLY. The unit operates using the USITT DMX-512 protocol or an industry standard three wire multiplex protocol. The AS-62D 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 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 2 <u>separate</u> 120 VAC, 20 Amp, grounded services in any phase combination. Total capacity of the AS-62D is 4800 Watts.

LOAD CONNECTIONS: There are 6 numbered duplex outlets on the top of the unit. Each provides 2 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 AS-62D channels 1, 3, and 5 combined is limited to 2400 Watts. The total load capacity of the AS-62D channels 2, 4, and 6 combined is also limited to 2400 Watts.

CONTROL SIGNAL CONNECTIONS

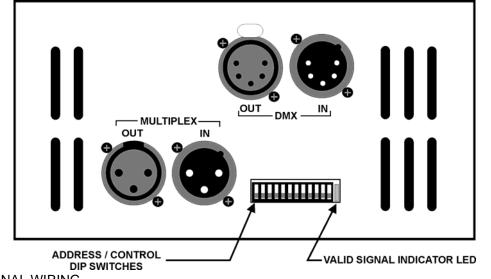
FOR MULTIPLEX OPERATION: The male three pin XLR connector on the unit end panel connects to the control console. The female connector is for connection to additional dimmers. The AS-62D dimmer is compatible with the Lightronics and NSI/Sunn three wire multiplexed protocol. If you have older Lightronics 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 AS-62D 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 AS-62D dimmers must be powered by other means.

AS-62D COMPACT DMX DIMMER **OWNERS MANUAL** Version 0.1

2/14/2005

AS-62D END VIEW



CONTROL SIGNAL WIRING

Connector Pin #	1	2	3	4	5
LMX-128 (multiplex)	LMX Common	Console Power	Multiplex Signal	Not Used	Not Used
DMX-512	DMX Common	DMX Data -	DMX Data +	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 8 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 aprox. 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 AS-62D 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.

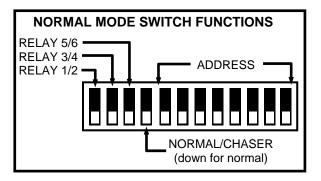
Version 0.1

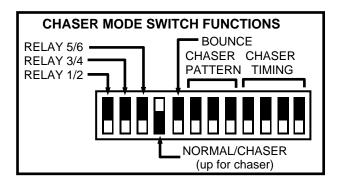
AS-62D COMPACT DMX DIMMER OWNERS MANUAL

Page 3 of 6

2/14/2005

ADDRESS AND CONTROL SWITCH SETTINGS





CHASER PATTERN SELECTION

SWITCHES	PATTERN
ተተተ	6 chan. sequence
₽₽₽	6 chan. build
₽₽₽	6 chan. build/unbuild
₽₽₽	6 chan. random

SWITCHES	PATTERN
₽₽₽	3 chan. sequence
₽₽₽	3 chan. build
ŢŢŢ	3 chan. build/unbuild
	2 chan. alternating

CHASER TIMING SELECTION

SWITCHES	STEP TIME	
0000	0.5 seconds	
₽₽₽₽	1.0 seconds	
₽₽₽₽	2 seconds	
₽₽₽₽	4 seconds	
₽₽₽₽	6 seconds	
₽₽₽₽	8 seconds	

SWITCHES STEP TIME

0111101120	0.2
₽₽₽₽	12 seconds
	16 seconds
∎₽₽₽	24 seconds
╋₽₽╋	32 seconds
╋џ╋џ	40 seconds
╋₽₽♠	48 seconds

SWITCHES STEP TIME

╋╋₽₽	56 seconds		
╋╋₽╋	64 seconds		
╋╋╋	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 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.

Tiahtronic

Version 0.1

AS-62D COMPACT DMX DIMMER

Page 4 of 6

OWNERS MANUAL

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 consectutive 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		5 6 7 8 9 10 11 12		5 6 7 8 9 10 11 12		5 6 7 8 9 10 11 12	
00000000	1	00 0 00000	65	Ŷ IJ ŶŶŶŶŶŶ	129	1 00 1111	193
00000000	3	ŶŶ IJ ŶŶŶŶŶ	67	Ŷ IJ ŶŶŶŶŶŶ	131	Ŷ ŮŮ ŶŶŶŶŶ	195
00000000	5	ŶŶ IJ ŶŶŶŶŶ	69	Ŷ IJ ŶŶŶŶŶŶŶ	133	1 00 1110	197
ûûûûûû	7	ŶŶ IJ ŶŶŶŶ IJIJ	71	00000000	135	Ŷ ŨŨ ŶŶŶ ŨŨ	199
000000000	9	ŶŶ IJ ŶŶ IJ ŶŶ	73	00000000	137	00000000	201
ûûûûûûû	11	$\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}$	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
ûûûûû000	15	00000000	79	00000000	143	00000000	207
ûûûûûûû	17	00000000	81	00000000	145	Ŷ IJIJ ŶŨŶŶŶ	209
ûûûûûûû	19	ŶŶ IJ ŶŮŶŶŶŎ	83	Ŷ IJ ŶŶŶŶŶŶŶ	147	00000000	211
ûûûûûûû	21	ŶŶ IJ ŶŮŶŨŶÛ	85	Ŷ IJ ŶŶŶŶŶŶŶ	149	00000000	213
ŶŶŶŶŶŶŶŶ	23	ŶŶ IJ ŶŮŶŨŶŨ	87	00000000	151	Ŷ IJŨ ŶŨŶŨŶŨŨ	215
ûûûûûû û	25	ŶŶ IJ Ŷ IJIJ ŶŶ	89	00000000	153	00000000	217
ûûûûûûû	27	0000000	91	0000000	155	00000000	219
ûûûû000 û	29	$\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}$	93	0000000	157	0000000	221
ûûûû 0000	31	000000000000000000000000000000000000	95	00000000	159	0000000	223
ûûûûûû û	33	ŶŶ IJIJ ŶŶŶŶ	97	000000000	161	ÛUUU ÛÛÛÛ	225
ŶŶŶŮŶŶŶŮ	35	ŶŶ ŮŮ ŶŶŶ Ů	99	000000000	163	000000000	227
ûûûûûûû	37	ŶŶ IJIJ ŶŶ IJ Ŷ	101	00000000	165	00000000	229
ŶŶŶŶŶŶŶŶŶ	39	ŶŶ ŎŎ ŶŶ ŎŎ	103	000000000	167	Ŷ ₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩	231
ûûûûûûû	41	ŶŶ IJIJ ŶŨŶŶ	105	00000000	169	Ŷ ŮŮŮ ŮŮŮŮ	233
ŶŶŶ Ů Ŷ Ů Ŷ Ů	43	0000000	107	00000000	171	Û 0 0 0 Û 0 Û 0	235
ûûûûûûû	45	$\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}\hat{U}$	109	00000000	173	Ŷ りりり Ŷ りり Ŷ	237
ŶŶŶ ŶŶŶŶŶŶ	47	ŶŶ ŎŎ Ŷ ŎŎŎ	111	000000000	175	00000000	239
<u> </u>	49	ŶŶりりりŶŶŶ	113	ŶŎŶŎŎŶ ŶŶ	177	Ϋθθθθ ΫΫ	241
<u> </u>	51	<u> </u>	115	Ŷ Ů Ŷ Ů ŮŶŶÛ	179	Ŷ0000 ŶŶ 0	243
ŶŶŶŨŨŶŨŶ	53	<u> </u>	117	ŶŎŶŎŎŶŎ Ŷ	181	Ŷ0000û	245
ŶŶŶŎŎŶŎŎ	55	ŶŶ00 ŶŶ 0 0	119	ŶOŶOOŶOO	183	00000000	247
<u> </u>	57	000000	121	Ŷ 0 Ŷ 0 00ŶŶ	185	₽00000 ₽₽	249
ŶŶŶ ŎŎŎ ŶŎ	59	ŶŶ0000 Ŷ 0	123	₽0₽00₽0	187	00000000	251
00000	61	ŶŶŶŶŶŶŶŶŶŶŶŶŶ	125	000000	189	000000	253
ŶŶŶ00000	63	<i></i>000000000000	127	000000	191	0000000	255

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AS-62D COMPACT DMX DIMMER OWNERS MANUAL

Page 5 of 6

2/14/2005

Version 0.1

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	
U TTTTT	257	U ÛUÛÛÛÛÛ	321	UU ÛÛÛÛÛÛ	385	000000000	449
00000000	259	00000000	323	00000000	387	00000000	451
U ÛÛÛÛÛÛÛ	261	U ÛUÛÛÛÛÛ	325	UU ÛÛÛÛÛÛ	389	000000000	453
U ÛÛÛÛÛÛÛÛ	263	00000000	327	UU ÛÛÛÛ U U	391	000000000	455
U ÛÛÛÛÛÛÛÛ	265	00000000	329	00000000	393	00000000	457
000000000	267	00000000	331	UU ÛÛÛÛÛ	395	000000000	459
U ÛÛÛÛÛÛÛÛ	269	00000000	333	UU ÛÛÛÛÛÛ	397	00000000	461
00000000	271	00000000	335	000000	399	00000000	463
U ÛÛÛÛÛÛÛÛ	273	U ÛUÛÛÛÛÛ	337	UU ÛÛÛÛÛÛ	401	000000000	465
U ÛÛÛÛÛÛÛÛ	275	00000000	339	UU ÛÛÛÛÛÛ	403	000000000	467
U ÛÛÛÛÛÛÛÛ	277	U ÛUÛÛÛÛÛ	341	UU ÛÛÛÛÛÛ	405	00000000	469
00000000	279	000000000	343	00000000	407	000000000	471
00000000	281	00000000	345	UU ÛÛ U ÛÛ	409	00000000	473
0000000	283	00000000	347	00000000	411	000000000	475
0000000	285	0000000	349	00000000	413	00000000	477
000000	287	0000000	351	0000000	415	00000000	479
000000000	289	U Û UU ÛÛÛÛ	353	000000000	417	000000000	481
000000000	291	00000000	355	000000000	419	000000000	483
U ÛÛÛÛÛÛÛÛ	293	U Û U ÛÛÛÛÛ	357	00000000	421	00000000	485
00000000	295	00000000	359	000000000	423	000000000	487
U ÛÛÛÛÛÛÛÛ	297	U ÛUUÛÛÛÛ	361	UU ÛUÛÛÛÛ	425	0000 00000	489
000000000	299	00000000	363	000000000	427	000000000	491
U ÛÛÛÛÛÛÛÛ	301	U ÛUUÛUÛÛ	365	00 000000	429	00000000	493
00000000	303	00000000	367	000000000	431	00000000	495
U ÛÛ UU ÛÛÛ	305	U Û UUU ÛÛ	369	00000000	433	00000 000	497
00000000	307	00000000	371	000000000	435	000000000	499
0 0000000	309	0000000	373	00000000	437	00000000	501
00000000	311	00000000	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

-	<i>fightronics</i> WARRANTY <i>fightronics</i>
	Lightronics products are warranted for a period of TWO/FIVE YEARS from the date of chase against defects in materials and workmanship.
	This warranty is subject to the following restrictions and conditions:
4)	If service is required, you may be asked to provide proof of purchase from an authorized Lightronics dealer.
3)	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.
∃)	This warranty does not cover loss or damage, direct or indirect arising from the use or inability to use this product.
=)	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.
)	Lightronics Inc. reserves the right to make changes as deemed necessary to this warranty without prior notification.

509 Central Drive Virginia Beach, VA 23454

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Lightronics Inc.