

LIGHTRONICS AS40D 4 X 600w Compact Dmx Dimmer **Owner's Manual**

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4 x 600W COMPACT DMX DIMMER OWNERS MANUAL

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DESCRIPTION

The AS40D is a compact 4 channel light dimmer. It has a maximum capacity of 600 Watts per channel and a

maximum TOTAL load capacity of 2400 Watts. It is supplied with an input power cord which may be connected to a 120 VAC, 20 Amp power circuit. The AS40D is intended for INDOOR USE ONLY. The unit operates using the USITT DMX-512 protocol. The AS40D may be operated in a relay (non-dim) mode. The unit will also function as a stand-alone chaser and has eight primary preset chase patterns which may be used.

INSTALLATION

LOCATION:

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

POWER CONNECTIONS:

Extending from the chassis is a 20 Amp line cord for connection to a 120 VAC, 20 Amp, grounded service. Total capacity of the AS40D is 2400 watts.

LOAD CONNECTIONS:

There is one Edison Plug connector provided for each AS40D output channel. They are located along the left and right edges of the unit. The markings on the cover indicate the channel numbers for each connection. The maximum capacity of each channel is 600 watts.

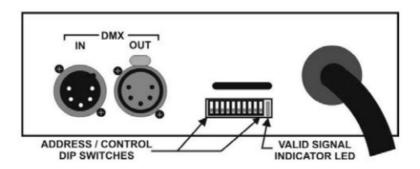
CONTROL SIGNAL CONNECTIONS:

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 AS40D dimmer is compatible with the USITT DMX-512 protocol.

Note that the DMX standard does not provide for console power via the dimmer chain. Therefore the DMX console used with AS40D dimmers must be powered by other means.

Wiring information for the DMX control signal connectors is shown on the unit top cover.

CHASSIS END VIEW



OPERATION

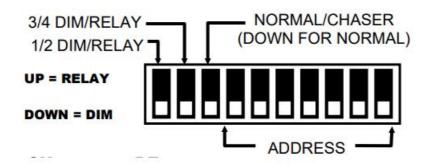
NORMAL MODE (non-chaser)

A green LED in the end panel will indicate that a valid control signal (DMX) is applied to the unit. A DIP switch block on the end panel selects the starting channel number of the dimmer. The 7 right hand switches control this function. For example, if all switch positions are down – the dimmer will respond to console channels 1-4. Moving the switch position on the far right to up will set the dimmer to respond to channels 5-8. A complete table of channel assignments is provided at the end of this manual. You can address up to 512 channels using DMX control.

RELAY MODE: Pairs of channels (1/2 and/or 3/4) may be switched into 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 approximately 50%. The 2 left hand switches on the DIP switch block control relay mode channel selection.

NORMAL MODE SWITCH FUNCTIONS



CHASER MODE

When operating in the chaser mode, the AS40D becomes independent of the control console and other dimmers. The green LED indicator is OUT 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.

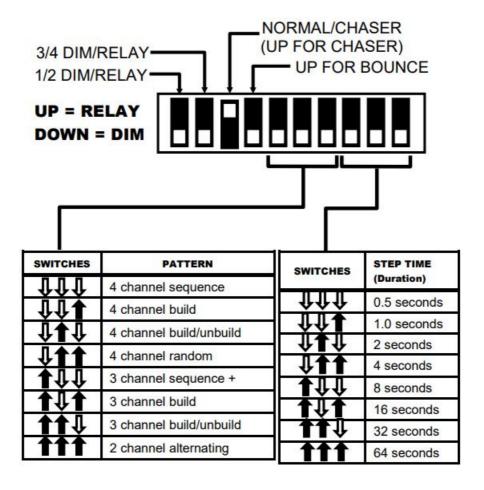
Eight different chaser patterns are available. A "bounce" condition may be imposed on several of the chase patterns by setting one of the DIP switches. The bounce condition causes the chase pattern to run in alternating directions.

The chase step time may be controlled for up to 64 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 tables on the next page show the details of chaser settings.

REPAIR

The only AS40D user serviceable parts are externally accessible fuses. Replace fuses ONLY with 5 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.

CHASER MODE SWITCH FUNCTIONS



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 DMX control cable
- Check the settings of the dimmer DIP switches.
- · Check the console setup for correct patching.

CHANNEL ASSIGNMENT SETTINGS

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 DMX-512 address assignments conform to this table.

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 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	Start	DIP Switch	Start	DIP Switch	Start	DIP Switch	Start
Setting	Channel	Setting	Channel	Setting	Channel	Setting	Channel
0000000	1	0.000000	129	0	257	0000000	385
ប្រាប្រាប្ប	5	ប្រាប្បាប្រាប្ប	133	0000000	261	OUTTOO	389
000000	9	0.000000	137	0000000	265	0000000	393
ûûûûûû	13	ዕ ዕዕ ወ ወ ወ ወ ወ ወ ወ ወ ወ ወ ወ ወ ወ ወ ወ ወ ወ ወ	141	0000000	269	0000000	397
000000	17	0000000	145	0000000	273	0000000	401
ûûûûûûû	21	ዕ ዕዕዕዕዕዕ	149	0000000	277	0000000	405
ûûûûûûûû	25	ዕ ዕዕዕዕዕዕ	153	0000000	281	0000000	409
ûûûûû000	29	0000000	157	0000000	285	0000000	413
ûûûûûûû	33	0000000	161	0000000	289	0000000	417
0000000	37	ስ ሀሳባሳሳሳ	165	0000000	293	00000000	421
ûûûûûûûû	41	000000	169	0	297	0000000	425
ûûûûûûû	45	0.00000	173	0000000	301	0000000	429
ûûû00 ûû	49	0.00000	177	0000000	305	00000000	433
ûûûûûûû	53	Φ	181	0000000	309	00000000	437
ûûû000û	57	Φ	185	0000000	313	0000000	441
$\hat{\mathbf{v}}\hat{\mathbf{v}}\hat{\mathbf{v}}\mathbf{ooo}$	61	0000000	189	000000	317	0000000	445
0000000	65	ប្រាប្រាប្រាប្	193	0000000	321	00000000	449
0.000000	69	ስሀሀ ስስስስሀ	197	0000000	325	0000000	453
0.00000	73	የሀሀ ቁቁ የ	201	0000000	329	0000000	457
ûûûûûûû	77	Φ 00 Φ Φ 00	205	0000000	333	0000000	461
0000000	81	000000	209	00000000	337	00000000	465
ûûÛûÛÛÛ	85	Φ 00 Φ 0 Φ 0	213	0000000	341	00000000	469
ûûûûûûûû	89	Φ 00 Φ 00 Φ	217	0000000	345	0000000	473
$\hat{v}\hat{v}\hat{v}\hat{v}\hat{v}\hat{v}\hat{v}\hat{v}\hat{v}\hat{v}$	93	0000000	221	0000000	349	0000000	477
0.00000	97	ስ ሀሀሀ ስ ስ ስ	225	0000000	353	0000000	481
ûû00ûû0	101	Φ 000 Φ Φ 0	229	0000000	357	00000000	485
ψφουφοφ	105	000000	233	0000000	361	0000000	489
0.000000	109	\$000000	237	0000000	365	0000000	493
ûû000ûû	113	\$0000 00	241	O 000000	369	0000000	497
$\Phi\Phi\Theta\Theta\Phi\Phi$	117	\$00000	245	0000000	373	0000000	501
ŶŶ 0000Ŷ	121	000000	249	O \$00000	377	0000000	505
\$\$00000	125	0000000	253	0400000	381	0000000	509

WARRANTY

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.

Lightronics Inc. 509 Central Drive Virginia Beach, VA 23454 20050125 www.lightronics.com

Documents / Resources



<u>LIGHTRONICS AS40D 4 X 600w Compact Dmx Dimmer</u> [pdf] Owner's Manual AS40D 4 X 600w Compact Dmx Dimmer, AS40D, 4 X 600w Compact Dmx Dimmer, Compact D mx Dimmer, Dmx Dimmer, Dimmer

References

• <u>National Lighting and Control Systems</u>

Manuals+,