



AS40M 4 X 600W COMPACT DMX/MANUAL DIMMER OWNER'S MANUAL

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DESCRIPTION

The AS40M 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 AS40M is intended for INDOOR USE ONLY. The unit operates using the USITT DMX-512 protocol. The AS40M 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. An additional manual operating mode is available which enables the unit to function as a stand alone dimmer with manual control of each channel.

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 AS40M is 2400 watts.

LOAD CONNECTIONS: There is one Edison Plug connector provided for each AS40M 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.

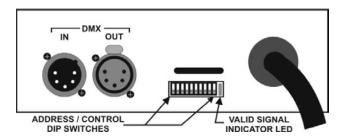
CONTROL SIGNAL CONNECTIONS:

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 AS40M 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 AS40M dimmers must be powered by other means.

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

AS40M END VIEW



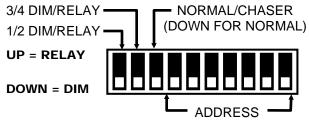
OPERATION

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 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 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 AS40M 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.

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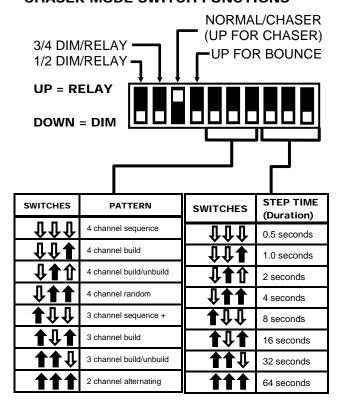
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Eight different chaser patterns are available. A "bounce" condition may be imposed on several of the chase patterns by setting one of the DIP switches. The bounce condition causes the chase pattern to run in alternating directions.

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 below show the details of chaser settings.

CHASER MODE SWITCH FUNCTIONS



MANUAL OPERATION

The AS40M can be operated by itself as a manually controlled dimmer. If there is no DMX signal present and the unit is not in the chaser mode then each channel can be controlled by one of the four rotary faders on the unit top cover. The faders are marked as to channel number. Rotating any fader clockwise will increase the intensity of the channel.

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.

REPAIR

The only 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

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 dimmer. The Start Channel column shows the resulting channel assignment for the first channel of the dimmer

All Lightronics products using DIP switches for address assignments conform to this table. Some dimmers cannot be set to all 512 channels and will have fewer switches than are shown in the table. If this is the case then match the right end switches in the table to your dimmer switches. 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 \$0\$000 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		DIP	Switch	Start
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①①①①	000	13	0.00000	141	\mathbf{U} $\hat{\mathbf{U}}$ $\hat{\mathbf{U}}$ $\hat{\mathbf{U}}$	⊕00	269	UU ÛÛÛ	00	397
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$\Omega\Omega\Omega$	00	57	Ω	185	\mathbf{O} $\hat{\mathbf{U}}$ $\hat{\mathbf{U}}$ \mathbf{O}	00 ↑	313	0000)UÛ	441
$\Omega\Omega\Omega$	000	61	0000000	189	$\mathbf{O} \hat{\mathbf{U}} \hat{\mathbf{U}} \mathbf{O}$	000	317	00000	000	445
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Û Û Û Û		77	000000	205	\mathbf{O} \mathbf{O} \mathbf{O}		333	000 ⊕1	100	461
ÛÛÛÛ	UÛÛ	81	0.00000	209	\mathbf{O} \mathbf{O} \mathbf{O}	Uûû	337	00000) ûû	465
$\hat{\mathbf{T}}\hat{\mathbf{U}}\mathbf{U}\hat{\mathbf{U}}$	000	85	0.00000	213	\mathbf{O} \mathbf{O} \mathbf{O}	000	341	00000) (1)	469
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