

# Portable Dimmers

- 4 Channels
- 1200W per Channel
- 8 Built in Chases
- DMX-512 & LMX-128
- Relay Mode Switchable
- Fuses
- Edison Outputs
- 120V

**AS42D**  
Portable Dimmer



The AS42D is a compact portable 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 unit operates using the USITT DMX-512 protocol or an industry standard three wire multiplex protocol. The AS42D 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.

SPECIFICATIONS			
Channels:	4	Response Curve:	Modified Square Law
Channel Capacity:	1200 Watts per Channel	Filter Rise Time:	350 Microseconds
Total Power:	4800 Watts	Filter Max. Rate of Rise:	105 Milliamps / Microsecond
Control Protocol:	DMX-512 and 3 Wire LMX-128	Response Time:	8.3 Milliseconds
Control Connections:	Dual 5 Pin XLR, DMX Dual 3 Pin XLR, LMX	Full Load Voltage Drop:	3 Volts
Power Requirements:	120VAC, Two 20 Amp Circuits	Conduction Angle Range:	180 Degrees
Power Input:	Two Edison Plugs	Efficiency:	97%
Frequency:	50 or 60Hz	Size:	9.5"L x 8"W x 3 3/8"D
Fusing:	10 Amp each Channel	Weight:	6.7 Pounds
Preheat Voltage:	Soft Start Control		

## Architect & Engineer's Specifications

The dimming system shall have 4 circuits with a load capacity of 1200 Watts per circuit. Each circuit is protected by a 10 Amp fast acting magnetic circuit breaker or a 10 Amp fuse. An allowance of 200% overhead capacity is employed in the triac circuit design, 25 Amps per circuit, and an overhead of up to 400 Volts per circuit. The dimming system shall have a rise time of not less than 350 microseconds. A user may set dimmer attributes of Dim or Relay, unit address, and stand alone chase functions via the dipswitch controls. The dimming system shall use the USITT standard DMX-512 protocol, on a 5 pin XLR type connector, or the Lightronics LMX analog multiplex protocol, on a 3 pin XLR type connector for direct control of the dimming circuits. The microcontroller directly applies pulse width modulation to channel output drive opto-couplers without the need for any analog circuitry. The opto-couplers provide 5000 Volt isolation between the high voltage and all other circuitry.

Power requirements of the dimming system shall be 120/208 VAC Single Phase or dual single ended operation, capacity shall be 20 Amps per leg. The microprocessor auto senses line frequency and will operate 50Hz or 60Hz. Load output connectors shall be a user selection of Edison or Stagepin style connector. Input electrical connections are made through 2 pigtailed connectors determined when purchased. The dimming system is to be mounted using standard lighting equipment clamps. All components and sub-systems of the dimming system shall be UL recognized when specified by the user and conform to the standards set forth.

The dimming system shall be a Lightronics AS42D.

To view and/or download the Owner's Manual click here: [www.lightronics.com/manuals/as42dm.pdf](http://www.lightronics.com/manuals/as42dm.pdf)