

# Portable Dimmers

- Optional Built In Wireless DMX
- LED Digital Display
- 4 Channels
- 1200W per Channel
- Softpatch (each dimmer)
- Dimmer Limiting
- Dimmer Curve Selection
- Architectural Interface AMX/Crestron Interface
- DMX-512 Protocol
- 8 Built in Chases
- Relay Mode Switchable
- Fuses
- Edison Outputs
- 120V

**XC42**  
Portable Dimmer



The XC42 is a four circuit compact portable dimmer with a load capacity of 1200 Watts per circuit. Each circuit is protected by a 10 Amp fuse. It can be controlled in several ways - the most common being DMX-512. Other control modes are also provided for stand alone operations. These include individual channel control and chaser functions. Individual circuits may be operated as non-dim (relay) circuits. Individual circuits may be set for one of several response curves and may be limited to less than full intensity. In addition to full soft patch capability there is a quick pack address function which enables rapid setup. The XC42 can optionally be provided with a wireless DMX receiver.

## SPECIFICATIONS

Channels:	4	Fusing:	10 Amp each Channel
Channel Capacity:	1200 Watts per Channel	Preheat Voltage:	Soft Start Control
Total Power:	4800 Watts	Response Curve:	Incandescent Bulbs, LED, Fluorescent, Relay Mode
Control Protocol:	DMX-512, RS-485, Architectural, Optional Wireless DMX	Filter Rise Time:	350 Microseconds
Control Connections:	Dual 5 Pin XLR	Filter Max. Rate of Rise:	105 Milliamps / Microsecond
Power Requirements:	120VAC, Two 20 Amp Circuits	Full Load Voltage Drop:	3 Volts
Power Input:	Two Edison Plugs	Efficiency:	97%
Frequency:	50 or 60Hz	Size:	11"L x 7"W x 2 5/8"D
		Weight:	6.7 Pounds

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## 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 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 menus. The dimming system shall use the USITT standard DMX-512 protocol, on a 5 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 two 120VAC circuits, capacity shall be 20 Amps per circuit. The microprocessor auto senses line frequency and will operate 50Hz or 60Hz. Load output connectors shall be Edison style connectors. Input electrical connections are made through 2 pigtailed with 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 XC42.

To view and/or download the Owner's Manual click here: [www.lightronics.com/manuals/xc42manx.pdf](http://www.lightronics.com/manuals/xc42manx.pdf)