

Low Power, 12 Channel, ELV DMX512 Dimmer

model: DMX12DIM ELV
technical data sheet



The DMX12DIM ELV is a twelve output dimmer designed for high efficacy loads, and minimal losses. This dimmer uses “reverse phase” (aka: “trailing edge”) dimming techniques and MOSFET power devices. This type of control is required for proper dimming of many LED fixtures. Each output can drive loads up to 100 Watts. Each channel may be configured for reverse phase dimming (default), forward phase dimming, or non-dim operation.

The dimmer is a single-space rack mount unit with removable rack ears (included). Airflow is front to side. Half inch holes are provided for half couplers or C clamps. The enclosure features a carry handle and a 3/8 inch safety cable slot.

The unit is ETL Listed to the UL508 standard.

If you would like assistance in your application, please give us a call. We like to talk with our customers.

SPECIFICATIONS: All specifications meet or exceed DMX512 requirements.

| | |
|------------------------|--|
| Input circuit: | Protected EIA-485 receiver (LT1785) |
| Input protection: | Undamaged by up to 60 Volts continuous, 15KV transients |
| Input signal: | 0.2 volts minimum, DMX512, DMX512/1990, or DMX512-A |
| Input connector: | Gold plated 5 pin male XLR (Neutrik D-1 series) 3 pin XLR optional |
| Input pass through: | Gold plated 5 pin female XLR (Neutrik D-1 series) with all five pins passed through |
| Termination: | None, unused pass through connectors must be externally terminated |
| Power input: | 120 VAC 60 Hz 10 Amps at full load, actual current draw is 0.07A plus connected load |
| Power input connector: | NEMA 5-15P (15A grounded parallel blade) on 18 inch 12 gauge pigtail |
| Idle power: | 7 Watts |
| Power output: | 120 VAC 60 Hz 0.83 Amps (100W) maximum per output |
| Minimum load: | No minimum load requirement |
| Output protection: | 1.5A internal fuse on each output channel |
| Output connectors: | NEMA 5-15R (15A grounded parallel blade) |
| Dimming circuit: | Digitally fired, optically-isolated, MOSFET power devices that allow for forward or reverse phase dimmer control |

SPECIFICATIONS: (Continued)

| | |
|-----------------------|--|
| Rise/fall time: | 2 uS (10% to 90% at 90 degree firing angle) at rated load |
| Dimming curve: | Square law, visually appealing on LED lamps (120V), halogen lamps, magnetic low-voltage (MLV) and electronic low-voltage (ELV) |
| Non-dim curve: | Each channel can be configured as a non-dim which turns on at 60%, off at 40% Outputs switch on at zero crossing. Other non-dim trip point options include 50% and 1% (globally settable). |
| DMX footprint: | Twelve consecutive DMX slots beginning with the selected DMX starting address |
| DMX starting address: | Three digit front panel thumbwheel switch, address changes are immediate (no power cycling required) |
| Local control: | An "address switch" setting of 601 turns on output 1, 602 turns on output 2, etc. A setting of 699 turns on all outputs. A setting of 698 turns on all outputs when DMX is present. A setting of 697 turns on all outputs if any DMX level is above zero. |
| Status indicators: | Red POWER indicator Green MIMIC 1 indicator mimics the intensity of output 1 (useful in troubleshooting) Green SIGNAL indicator illuminates when DMX512 is present and flashes when local control is active (address switch settings of 601 thru 612 and 697 thru 699) |
| Cooling: | Processor controlled low speed fan exchanges internal air from front to side. |
| Isolation: | DMX512 input is optically isolated from AC power circuits to 600 Volts. |
| Color: | Silver hammer tone with black front and rear panels. |
| Safety listing: | ETL Listed to UL 508 |
| Size and weight: | 1.7" high x 10.5" deep x 19" wide (17" behind rack ears), 7 pounds, rack ears are included |
| Warranty: | Five years parts and labor. Dimmer must be returned to Doug Fleenor Design for warranty repair. Shipping to Doug Fleenor Design is to be paid by the customer. Return ground freight is paid by Doug Fleenor Design. Warranty covers manufacturing defects. |

Doug Fleenor Design, Inc.

396 Corbett Canyon Road
Arroyo Grande, CA 93420
(805) 481-9599 voice and FAX
(888) 4-DMX512 toll free (888) 436-9512
web site: <http://www.dfd.com>
e-mail: info@dfd.com