

MODEL UVI-48 - ULTRAVIOLET LED ILLUMINATOR

FEATURES :

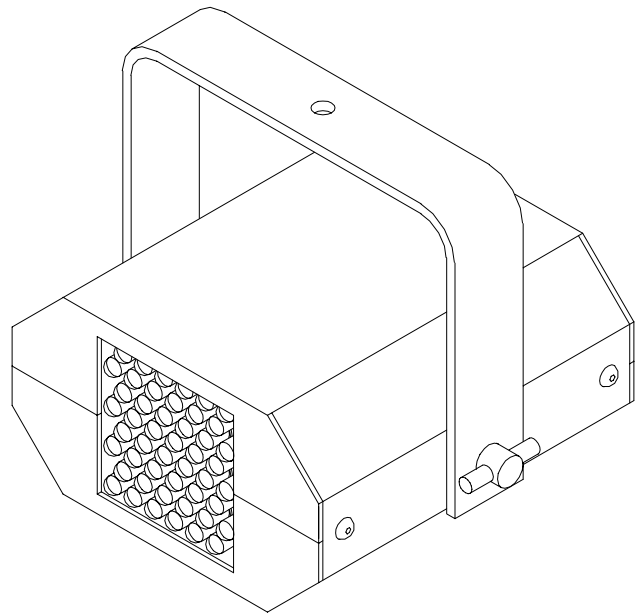
- SOLID STATE ULTRAVIOLET ILLUMINATOR, NO HEAT, NO LAMP CHANGES, NO MAINTENENCE.
- DMX CONTROLLED INTENSITY AND STROBE RATE, OR FULLY AUTONOMOUS OPERATION.
- QUALITY CONSTRUCTION, SMALL & LIGHTWEIGHT, RUGGED & RELIABLE, 24 VOLT OPERATION

The UVI-48 Ultraviolet Illuminator is a state of the art lighting instrument based on an array of 48 Ultraviolet LED's and a computer micro-controller. This unit permits ultraviolet effects to be faded or strobed under DMX control. These effects cannot be created with other types of UV illumination. The LED UV devices do not require replacement, produce little or no heat, and are available for both wide angle and spot illumination applications.

From one to four channels of DMX-512 data controls UV intensity, strobe rate, or other parameters as determined by internal mode settings. The unit may also be operated in manual mode without DMX as a stand-alone fixture with preset intensity and strobe timing if desired. Illuminators may be controlled by any DMX lighting system for professional displays, or may be set up for independent operation at a preset intensity or strobe rate in stand-alone UV lighting applications.

A range of UV LED options are now available for installation in the unit. For replacing existing fluorescent or incandescent UV light sources, 395 nanometer UV LED's may be installed to duplicate the deep blue-violet output common to those fixtures. For pure ultraviolet displays, 385 nanometer LEDs, which produce very little visible light may be selected.

UV LED sources of different types, or with different dispersion angles may be installed in the same fixture, with each LED type then controlled independently through DMX, providing unprecedented flexibility in an ultraviolet fixture. All LED emissions are long wavelength UV-A light, which is not considered a skin or eye hazard.



ADVANTAGES OVER CONVENTIONAL ULTRAVIOLET ILLUMINATORS:

- Unlimited lifetime Ultraviolet LED light sources eliminate lamp changes permanently.
- DMX controlled animation permits fading and strobing of UV effects for the first time.
- Small physical size, light weight, rugged and durable, installs anywhere.
- Ultra low power consumption, less than 12 watts, no heat, no cooling fans, and no noise.



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SPECIFICATIONS

Technical drawings of the illuminator showing front, side, and rear views with dimensions and component labels.

ILLUMINATOR MODES:

- Mode 1: One DMX Channel for Intensity plus Manual operation.
- Mode 2: Two DMX Channels for Intensity and Strobe Rate.
- Mode 3: Three DMX Channels for Intensity on LED Banks 1, 2, and 3.
- Mode 4: Four DMX Channels for Intensity on LED Banks 1, 2, and 3, plus Master Fader

DMX MODE ADDRESSING:
Set first DMX channel address directly using three decimal rotary selector switches, address range from channel 001 to channel 512.

MANUAL MODE ADDRESSING
For Intensity control, set selector switches to 600 minimum to 699 maximum.
For Strobe control, set selector switches to 700 (1Hz min.) to 799 (30 Hz max.)

MECHANICAL

Housing: All Aluminum
 Finish: Black Anodized
 Mount: Any orientation, 1/4" bolt
 Weight: 1 lbs. (.37 Kg.)

CONTROL RANGE

Parameter:	Minimum	Maximum
DMX Intensity	0%	100% in 254 steps
DMX Strobe Rate	1Hz.	Continuous in 254 steps
Manual Intensity	0%	100% in 99 steps
Manual Strobe Rate	1Hz.	Continuous in 99 steps

OPTICAL

LED's: Ultraviolet Light Emitting Diodes
 385-395 nanometer UV-A emissions.
 1 milliwatt optical power each
 6 x 8 array, 48 elements total.
 15 degree narrow angle pattern, or
 60 degree wide angle pattern.

APPLICATIONS

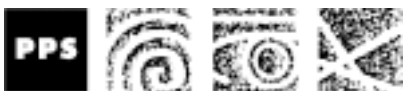
Ultraviolet displays and sign illumination
 Ultraviolet set pieces and special effects
 Floats, specialty vehicles, and custom automotive
 Ultraviolet costumes and stage wear

ELECTRICAL

Input Voltage: 24 Volts DC @ 1/2 amp
 Power Pack: UL Class II, 100 to 240 VAC
 Control Input: Standard DMX-512, 1 to 4 channels depending on mode setting, with Opto-isolated DMX input & output.

OPTIONS

BLB (Black Light Blue) UV & blue-violet output
 All UV 15 degree narrow angle LED spot output
 All UV 60 degree Wide angle LED flood output
 Mixed Wide, Narrow and BLB LED Array
 Mixed UV and visible white LED Array



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