

# OPTI 30 UV



**User Instructions** 

Opti 30 UV Introduction

Unpacking: Thank you for purchasing the Opti 30 UV by Elation Professional®. Every Opti 30 UV has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your fixture for any damage and be sure all accessories necessary to operate the unit has arrived intact. In the case damage has been found or parts are missing, please contact our customer support number for further instructions. Do not return this unit to your dealer without first contacting customer support.

Introduction: The Opti 30 UV is part of Elation Professionals® continuing pursuit for creating high quality affordable intelligent fixtures. The Opti 30 UV is a powerful DMX intelligent LED wash. This wash is light weight and compact which makes it a great piece for mobile DJ's and clubs. This unit can be used as a stand alone unit, or in a master/slave configuration. The unit can run in soud active mode, Auto mode, or be controlled via DMX controller.

**Customer Support:** ©Elation® provides a customer support line, to provide set up help and to answer any question should you encounter problems during your set up or initial operation. You may also visit us on the web at www.elationlighting.com for any comments or suggestions. Service Hours are Monday through Friday 9:00 a.m. to 5:00 p.m. Pacific Standard Time.

Voice: (323) 582-3322 Fax: (323) 582-3108

E-mail: support@elationlighting.com

**Warning!** To prevent or reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.

**Caution!** There are no user serviceable parts inside this unit. Do not attempt any repairs yourself, doing so will void your manufactures warranty. In the unlikely event your unit may require service please contact ©Elation customer support.

PLEASE recycle the shipping carton when ever possible.

To optimize the performance of this product, please read these operating instructions carefully to familiarize yourself with the basic operations of this unit. These instructions contain important safety information regarding the use and maintenance of this unit. Please keep this manual with the unit, for future reference.

Opti 30 UV Features

- Built in Microphone
- DMX-512 protocol
- Two DMX Channels
- Dimming 0-100%

# Opti 30 UV

# **Warranty Registration**

The Opti 30 UV carries a two year limited warranty. Please fill out the enclosed warranty card to validate your purchase. All returned service items whether under warranty or not, must be freight pre-paid and accompany a return authorization (R.A.) number. The R.A. number must be clearly written on the outside of the return package. A brief description of the problem as well as the R.A. number must also be written down on a piece of paper included in the shipping carton. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. You may obtain a R.A. number by contacting our customer support team on our customer support number. All packages returned to the service department not displaying a R.A. number on the outside of the package will be returned to the shipper.

# Opti 30 UV Safety Precautions

- To reduce the risk of electrical shock or fire, do not expose this unit rain or moisture
- Do not spill water or other liquids into or on to your unit.
- Be sure that the local power outlet match that of the required voltage for your unit.
- Do not attempt to operate this unit if the power cord has been frayed or broken. Do not attempt to remove or break off the ground prong from the electrical cord. This prong is used to reduce the risk of electrical shock and fire in case of an internal short.
- Disconnect from main power before making any type of connection.
- Do not remove the cover under any conditions. There are no user serviceable parts inside.
- Never operate this unit when it's cover is removed.
- Never plug this unit in to a dimmer pack
- Always be sure to mount this unit in an area that will allow proper ventilation. Allow about 6" (15cm) between this device and a wall.
- Do not attempt to operate this unit, if it becomes damaged.
- This unit is intended for indoor use only, use of this product out doors voids all warranties.
- During long periods of non-use, disconnect the unit's main power.
- Always mount this unit in safe and stable matter.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to the point they exit from the unit.
- Cleaning -The fixture should be cleaned only as recommended by the manufacturer. See page 10 for cleaning details.
- Heat -The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- The fixture should be serviced by qualified service personnel when: A. The power-supply cord or the plug has been damaged.
  - B. Objects have fallen, or liquid has been spilled into the appliance.
  - C. The appliance has been exposed to rain or water.
  - D. The appliance does not appear to operate normally or exhibits a marked change in performance.

Power Supply: Before plugging your unit in, be sure the source voltage in your area matches the required voltage for your Elation Opti 30 UV. The Elation Opti 30 UV is available in a 120v and 220v version. Because line voltage may vary from venue to venue, you should be sure your unit voltages matches the wall outlet voltage before attempting to operate you fixture.

**DMX-512:** DMX is short for Digital Multiplex. This is a universal protocol used as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions from the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture via the DATA "IN" and DATA "OUT" XLR terminals located on all DMX fixtures (most controllers only have a DATA "OUT" terminal).

**DMX Linking:** DMX is a language allowing all makes and models of different manufactures to be linked together and operate from a single controller, as long as all fixtures and the controller are DMX compliant. To ensure proper DMX data transmission, when using several DMX fixtures try to use the shortest cable path possible. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned a DMX address of 1 may be placed anywhere in a DMX line, at the beginning, at the end, or anywhere in the middle. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

Data Cable (DMX Cable) Requirements (For DMX Operation): The Opti 30 UV can be controlled via DMX-512 protocol. The Opti 30 UV has two DMX Channels. Your unit and your DMX controller require a approved DMX-512 110 Ohm Data cable for data input and data output.

We recommend Accu-Cable DMX cables. If you are making your own cables, be sure to use standard 110-120 Ohm shielded cable (This cable may be purchased at almost all professional sound and lighting stores). Your cables should be made with a male and female XLR connector on either end of the cable. Also remember that DMX cable must be daisy chained and cannot be split.



Figure 1

Opti 30 UV Set Up

COMMON

**Notice:** Be sure to follow figures two and three when making your own cables. Do not use the ground lug on the XLR connector. Do not connect the cable's shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR's outer casing. Grounding the shield could cause a short circuit and erratic behavior.

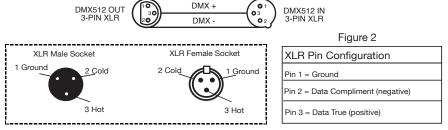


Figure 3

**Special Note:** Line Termination. When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behavior. A terminator is a 110-120 ohm 1/4 watt resistor which is connected between pins 2 and 3 of a male XLR connector (DATA + and DATA -). This unit is inserted in the female XLR connector of the last unit in your daisy chain to terminate the line. Using a cable terminator (ADJ part number Z-DMX/T) will decrease the possibilities of erratic behavior.

Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal. (Resistance 120 Ohm 1/4 W) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.

Figure 4

**5-Pin XLR DMX Connectors.** Some manufactures use 5-pin DMX-512 data cables for DATA transmission in place of 3-pin. 5-pin DMX fixtures may be implemented in a 3-pin DMX line. When inserting standard 5-pin data cables in to a 3-pin line a cable adaptor must be used, these adaptors are readily available at most electric stores. The chart below details a proper cable conversion.

3-Pin XLR to 5-Pin XLR Conversion			
Conductor	3-Pin XLR Female (Out)	5-Pin XLR Male (In)	
Ground/Shield	Pin 1	Pin 1	
Data Compliment (- signal)	Pin 2	Pin 2	
Data True (+ signal)	Pin 3	Pin 3	
Not Used		Do Not Use	
Not Used		Do Not Use	

# LED Display On/Off:

To set the LED display to turn off after 10 seconds, press the MODE button until DS-1 is displayed, press the UP button to display DS-2. Now the display will disappear after 10s. Press any button to turn the display on again. Be advised though that the display will turn off automatically after 10 seconds.

To set the display press the MODE button until DS-X is displayed. "X" represents the number displayed.

DS-1= LCD display on at all times.

DS-2= LCD display shuts off after 10 seconds.

## **Operating Modes:**

- Sound-Active mode The unit will react to sound. There are 5 different sound active programs to choose from.
- Auto Mode There are 4 built in programs to choose from. The speed of these programs can be adjusted as well.
- DMX control mode This function will allow you to control each individual fixtures traits with a standard DMX 512 controller such as as the Elation® Show Designer™.

## Master-Slave Operation:

This function will allows you to link units together to run in a Master-Slave mode. In Master-Slave operation one unit will act as the controlling unit and the others will react to the controlling units built-in programs. Any unit can act as a Master or as a Slave however, only one unit can be programmed to act as the "Master."

## Master-Slave Connections and Settings:

- Daisy chain your units via the XLR connector on the rear of the unit.
  Use standard XLR microphone cables to link your units together.
  Remember that the Male XLR connector is the input and the Female
  XLR connector is the ouput. The first unit in the chain (master) will
  use the female XLR connector only. The last unit in the chain will use
  the male XLR connector only.
- 2. Set the "Master" unit to your desired mode or operation.
- 3. For the "Slave" unit(s), set the display to DMX address 1.
- 4. Connect the "Slave" unit or units and they will automatically start to follow the "Master."

#### Sound Active Mode:

Opti 30 UV

In this mode the Opti 30 UV will react to sound, and chase through the different colors. There are 5 different sound active programs to choose from.

- 1. Plug the fixture in and press the MODE button until "2-XX" is displayed. "XX" represents the current sound active program that is displayed.
- 2. There are 5 different sound active programs to choose from.

The programs are:

2-01 = Increase the intensity

2-02 = Decrease the intesity

2-03 = Increase and decrease the intensity

2-04 = Strobe

2-05 = Mixing

3. Use the UP and DOWN buttons to find your desired mode.

#### Auto Mode:

- 1. Plug the fixture in and press the MODE button until "3-XX" is displayed. "XX" represents the current program that is displayed.
- 2. There are 4 built in programs to choose from. The programs are:

3-01 = Increase the intensity

3-02 = Decrease the intesity

3-03 = Increase and decrease the intensity

3-04 = Strobe

3. Use the UP and DOWN buttons to find your desired program. You can set your program speed by following the instructions below.

## Auto Mode Speed Adjustment:

- 1. To adjust the speed of your Auto mode program press the MODE button until "4-XX" is displayed.
- 2. Press the UP or DOWN buttons to make the adjustmetns. "4-00" is the slowest speed, "4-20" the fastest speed.

## Strobe Mode:

- 1. Plug the fixture in and press the MODE button until "5-XX" is displayed.
- 2. Press the UP or DOWN buttons to make the adjustmetns. "5-00" is the slowest speed, "5-255" the fastest speed.

## DMX Mode:

Operating through a DMX controller gives the user the freedom to create

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their own programs tailored to their own individual needs. This function also allows you to use your fixtures as spot lights. The Opti 30 UV has two DMX Channels.

- 1. This function will allow you to control each individual fixture's traits with a standard DMX 512 controller.
- 2. To run your fixture in DMX mode, plug in the fixture via the XLR connections to any standard DMX controller.
- 3. Press the MODE button until "1XXX" is displayed. "XXX" represents the current displayed address. Select your desired DMX address using the UP or DOWN buttons.
- 4. Please see below for DMX values and traits

Opti 30 UV		DMX Values and Functions	
Channel	Value	Function	
1	0 - 255	MASTER DIMMER 0% - 100%	
2	0 - 255	STROBING SLOW - FAST	

Opti 30 UV Cleaning

Due to fog residue, smoke, and dust cleaning the internal and external optical lenses must be carried out periodically to optimize light output.

- 1. Use normal glass cleaner and a soft cloth to wipe down the outside casing.
- 2. Clean the external optics with glass cleaner and a soft cloth every 20 days.
- 3. Always be sure to dry all parts completely before plugging the unit back in.

Cleaning frequency depends on the environment in which the fixture operates (i.e. smoke, fog residue, dust, dew).

# Opti 30 UV Trouble Shooting

Listed below are a few common problems the user may encounter, with solutions.

### Unit not responding to DMX:

 Check that the DMX cables are connected properly and are wired correctly (pin 3 is "hot"; on some other DMX devices pin 2 may be 'hot'). Also, check that all cables are connected to the right connectors; it does matter which way the inputs and outputs are connected.

## Unit does not respond to sound:

1. Quiet or high pitched sounds will not activate the unit.

Opti 30 UV Warranty

#### 2-YEAR LIMITED WARRANTY

- A. Elation Professionals® hereby warrants, to the original purchaser, Elation Professionals® products to be free of manufacturing defects in material and workmanship for a period of two years (730 days) from the date of purchase. This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.
- B. For warranty service, send the product only to the Elation Professionals® factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, Elation Professionals® will pay return shipping charges only to a designated point within the United States. If the entire instrument is sent, it must be shipped in its original package. No accessories should be shipped with the product. If any accessories are shipped with the product, Elation Professionals® shall have no liability whatsoever for loss of or damage to any such accessories, nor for the safe return thereof.
- C. This warranty is void if the serial number has been altered or removed; if the product is modified in any manner which Elation Professionals® concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the Elation Professionals® factory unless prior written authorization was issued to purchaser by Elation Professionals®; if the product is damaged because not properly maintained as set forth in the instruction manual.
- D. This is not a service contract, and this warranty does not include maintenance, cleaning or periodic check-up. During the period specified above, Elation Professionals® will replace defective parts at its expense, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of Elation Professionals® under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of Elation Professionals®. All products covered by this warranty were manufactured after January 1, 1990, and bear identifying marks to that effect.
- E. Elation Professionals® reserves the right to make changes in design and/or improvements upon its products without any obligation to include these changes in any products theretofore manufactured.
- F. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with products described above. Except to the extent prohibited by applicable law, all implied warranties made by Elation Professionals® in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said period has expired. The consumer's and or Dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall Elation Professionals® be liable for any loss or damage, direct or consequential, arising out of the use of, or inability to use, this product.
- G. This warranty is the only written warranty applicable to Elation Professionals® Products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

Opti 30 UV Specifications

Model: Opti 30 UV

**SPECIFICATIONS:** 

Working Position: Any safe working position Voltage: 100V ~ 240V/47~63Hz

LED's: 12 x 1 Watt LED's

Power Consumption: 20W

Beam Angle: 25 Degrees Weight: 5.3lbs./ 2.4Kgs.

Dimensions: 10" (L) x 7.25" (W) x 5.75" (H)

Colors: UV

DMX Channels: 2 DMX Channels Warranty: 2 Year (730 days)

**Auto Sensing Voltage:** This fixture contains a electronic ballast, which will auto sense the voltage when it is plugged into the power source.

**Please Note:** Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.

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