PRODUCT USER GUIDE

Vega Decorative Light Source

Rev: C8

PLEASE READ THIS USER GUIDE BEFORE INSTALLING, OPERATING OR PERFORMING MAINTENANCE ON THE LIGHT SOURCE UNIT

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E357731

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FOR INDOOR USE ONLY

WEATHER RESISTANT ENCLOSURE AVAILABLE

LED 50,000 hrs

MADE IN U.K. PREMIUM QUALITY

INTRODUCTION

Thank you for purchasing this UFO light source.

To ensure that the light source is set up optimally and gives a long service life, please read this user guide before installing, operating or performing any maintenance on the unit.

Please keep this user guide for future reference.

This light source is suitable for indoor use only unless it is situated in a weatherproof enclosure.

MODELS COVERED BY THIS USER GUIDE

UFO Vega CM / UFO Vega TM
UFO Vega MCM / UFO Vega MTM
UFO Vega CDMX / UFO Vega TDMX
UFO Vega C 0-10V / UFO Vega T 0-10V

IMPORTANT

This product must be installed in accordance with the applicable installation code, by a person familiar with the construction and operation of the product, and the hazards involved.

These light sources are not mains dimmable.

The LED array and heatsink in this light source can be replaced when it reaches end of life. Contact UFO for details.

Type Y Attachment: If the external flexible cable or cord of this luminaire or associated PSU/driver is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person to avoid a hazard.

Location: Do not locate this light source closer than 200mm from any flammable surface.

Clearance / Ventilation: It is imperative that a gap of 200mm is left around the unit. This is to allow air to circulate and prevent overheating. The location must have free ventilation and must not have an ambient temperature higher than that specified for the luminaire.

Mounting: This is a fixed luminaire. See mounting plate instruction on Page 3 for fixing to surface.

Warning: Never look directly into the luminaire LED light source.

Warning: The luminaire should be positioned so that prolonged staring into the luminaire at a distance closer than 0.33m is not expected.

UFO will accept no liability for damage, or associated claims, caused by not following the installation and safety instructions contained within this user guide.

ATTACH THE LIGHT SOURCE TO ITS MOUNTING PLATE

Fit the metal mounting plate to the base of the light source before making electrical connections.

Remove the mounting plate and the four M3 10mm screws from the box. Invert the light source and remove the four screws securing the rubber feet.

Leaving the rubber feet in place, align the plate against the feet and secure the plate to the light source with the four M3 10mm screws using an M3 pozidrive screwdriver.

Do not overtighten. The light source can now be fixed securely to the mounting surface.

POWER SUPPLY REQUIREMENTS

The light source is powered from a 24V DC PSU/Constant Voltage SELV LED driver.

The driver caters for UK/European/other mains supplies using the relevant power cord supplied.

VEGA DMX / 0-10V

VEGA MCM / MTM

VEGA CM / TM

CONNECTION - VEGA CM, MCM, TM AND MTM MODELS ONLY

There are 2 connections required – the fibre port and the mains supply cable. The fibre port should be connected first. Connect and secure the fibre optic connector into the collar and secure using the M5 locking screw.

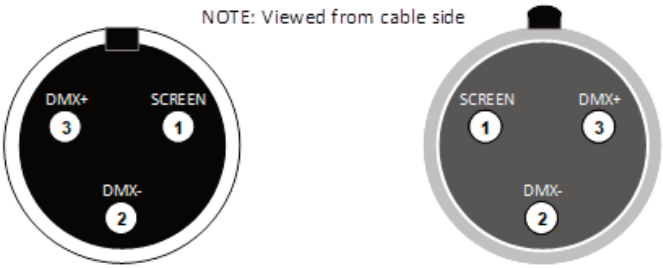
Connect the PSU to the DC input jack socket on the light source, and connect the IEC plug to the PSU. Plug the mains plug into the electrical supply socket. Switch on power – the red LED Indicator will illuminate and the light source is ready for use. If no light is produced consult the TROUBLESHOOTING section of this user guide.

CONNECTION - VEGA CDMX AND TDMX MODELS ONLY

There are 3 connections required – the fibre port, the mains supply cable and the DMX control cable. The fibre port should be connected first. Connect and secure the fibre optic connector into the collar and secure using the M5 locking screw.

Connect the PSU to the DC input jack socket on the light source, and connect the IEC plug to the PSU. Plug the mains plug into the electrical supply socket. Switch on power – the red LED Indicator will illuminate and the light source is ready for use. If no light is produced consult the TROUBLESHOOTING section of this user guide.

Connect the DMX control cable(s) to the Mini-XLR socket(s) on the rear of the light source. The recommended plugs for these sockets are Multicomp SVP556-TA (female) or Multicomp SVP555-TA (male). The pin out details for the plugs are shown below.
Either socket may be used as DMX in or DMX out.



Male - for connection to female Vega Mini XLR socket

Female - for connection to male Vega Mini XLR socket

Note: UFO can supply converters for these light sources to allow them to be interfaced to standard 3 pin XLR connectors or RJ45 connectors.

CONNECTION - VEGA C0-10V AND T0-10V MODELS ONLY

The 0-10V control type needed in the Vega light source is current source, not current sink. The unit relies on the control unit to supply the 0-10V control voltage.

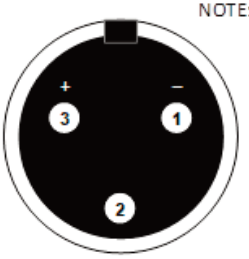
There are three connections required - the fibre port, the mains supply cable and the 0-10V control cable. The fibre port should be connected first. Connect and secure the fibre optic connector into the collar and secure using the M5 locking screw.

Connect the PSU to the DC input jack socket on the light source, and connect the IEC plug to the PSU. Plug the mains plug into the electrical supply socket. Switch on power – the red LED Indicator will illuminate and the light source is ready for use. If no light is produced consult the TROUBLESHOOTING section of this user guide.

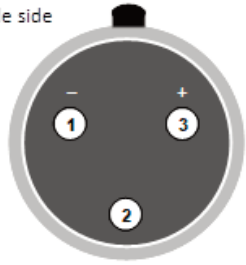
THE LIGHT SOURCE WILL NOT ILLUMINATE UNLESS DIP SWITCH 10 IS ON AND A 0-10V SIGNAL IS PRESENT

Connect the 0-10V control cable(s) to the Mini-XLR socket(s) on the rear of the light source. The recommended plugs for these sockets are Multicomp SVP556-TA (female) or Multicomp SVP555-TA (male). The pin out details for these plugs are shown below.
Either socket may be used as 0-10V IN or 0-10V OUT

NOTE: Viewed from cable side



Male - for connection to female Vega Mini XLR socket



Female - for connection to male Vega Mini XLR socket

Note: UFO can supply converters for these light sources to allow them to be interfaced to standard 3 pin XLR connectors or RJ45 connectors.

OPERATING THE LIGHT SOURCE - VEGA CM, MCM, TM AND MTM MODELS ONLY

The Vega CM (colour wheel) & Vega TM (twinkle wheel) have manual speed control on the decorative motor. On these versions the light output is set to maximum and cannot be dimmed.

The Vega MCM & Vega MTM have manual speed control on the decorative motor and also manual dimming control of the LED. The light output can be adjusted manually using the control on the rear of the unit from no light output to maximum light output.

Under normal operation the decorative wheel motor speed can be adjusted manually using the control on the rear of the unit. Motor speed can be adjusted from STOP to approximately 4 RPM.

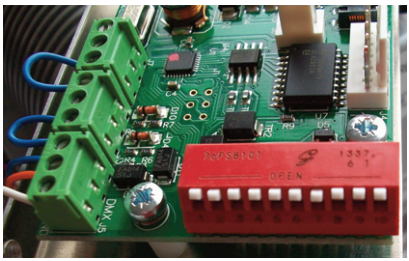
OPERATING THE LIGHT SOURCE - VEGA CDMX AND TDMX MODELS ONLY

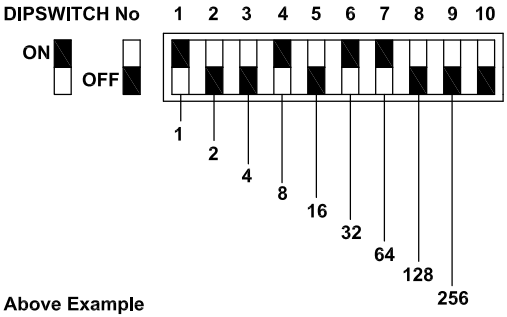
SETTING THE DMX ADDRESS

To set the DMX address, switch off power to the light source and remove the top cover to access the dip switch on the PCB as shown below. Set the address as detailed below and replace the top cover. Connect up the light sources with the PSU & remote DMX controller using the Mini XLR sockets provided on the back of the light source - it doesn't matter which socket is used.

DMX B Start Ch #	Dip Switches On	DMX B Start Ch #	Dip Switches On
1	1	11	1,2,4
2	2	12	3,4
3	1,2	13	1,3,4
4	3	14	2,3,4
5	1,3	15	1,2,3,4
6	2,3	16	5
7	1,2,3	:	:
8	4	:	:
9	1,4	:	;
10	2,4	511	1,2,3,4,5, 6,7,8,9

Switch 10 must be switched off for DMX operation. Set the DMX address using switches 1 - 9.





Above Example

1 - ON
2 - OFF
3 - OFF
4 - ON
5 - OFF
6 - ON
7 - ON
8 - OFF
9 - OFF
10 - OFF

= ADDRESS 105

VEGA CDMX COLOUR WHEEL

Channel	Function	Value	Description
1	Dimming	0-255	From off at 0 to brightest at 255
2	Colour wheel variable 0-74	0	Colour 1 (white)
2	Colour wheel variable 0-74	10	Colour 2 (yellow)
2	Colour wheel variable 0-74	20	Colour 3 (green)
2	Colour wheel variable 0-74	30	Colour 4 (orange)
2	Colour wheel variable 0-74	40	Colour 5 (magenta)
2	Colour wheel variable 0-74	50	Colour 6 (blue)
2	Colour wheel snap 75-129	75	Colour 5 (magenta)
2	Colour wheel snap 75-129	85	Colour 4 (orange)
2	Colour wheel snap 75-129	95	Colour 3 (green)
2	Colour wheel snap 75-129	105	Colour 2 (yellow)
2	Colour wheel snap 75-129	115	Colour 1 (white)
2	Colour wheel speed clockwise	130-189	Slow to fast rotation clockwise (approx 0.3 rpm slowest to 7.5 rpm fastest)
2	Colour wheel speed ctr clkwse	190-255	Fast to slow rotation counter clockwise (approx 0.3 rpm slowest to 7.5 rpm fastest)

NOTES ON POWERING UP THE VEGA CDMX LIGHT SOURCE

1. If internal DIP switch 10 is OFF, the wheel will find its reference point and stop on colour 1 (white).

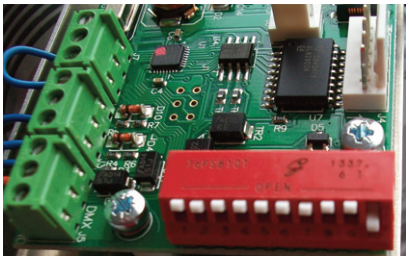
2. If internal DIP switch 10 is ON, the wheel will find its reference point then rotate continuously counter clockwise at 7.5 rpm. If internal DIP switch 10 is then switched OFF without powering down the wheel will continue rotating until power is recycled. The wheel will then revert to the status detailed in 1. above.

VEGA TDMX TWINKLE WHEEL

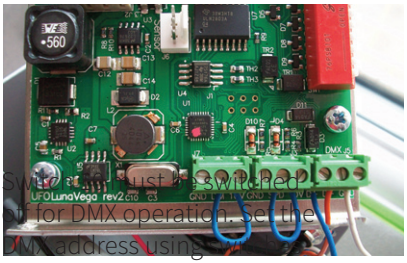
Channel	Function	Value	Description
1	Dimming	0-255	From off at 0 to brightest at 255
2	Motor control	0-255	From stop at 0 to fastest at 255 (3-4 rpm)

REVERTING A DMX LIGHT SOURCE TO MANUAL OPERATION MODE

To revert a DMX only light source to normal manual operation of the wheel and the light output, remove top cover to access the dip switch on the PCB. Set switches 1 to 9 off and switch 10 on, as detailed below. You must also ensure that the wire links are fitted as detailed below.



Dip switch 10 must be on for manual operation



For manual operation to work there must be wire links fitted to the screw terminals on the PCB between 10V & DM and 10V and SPD as detailed, left.

Switch 10 must be switched off for DMX operation. Set the DMX address using switches 1 - 9.

OPERATING THE LIGHT SOURCE - VEGA 0-10V MODELS ONLY

0-10V Control is available to either control a colour wheel (Vega C 0-10V) or control a twinkle wheel (Vega T 0-10V).

The values table for 0-10V control is shown below:

Function	Value	Description
Colour wheel	0V	Colour 1 (white)
Colour wheel	0.32V	Colour 2 (yellow)
Colour wheel	0.64V	Colour 3 (green)
Colour wheel	0.88V	Colour 4 (orange)
Colour wheel	1.28V	Colour 5 (magenta)
Colour wheel	1.6V	Colour 6 (blue)
Colour wheel	2.3V	Colour 5 (magenta)
Colour wheel	2.68V	Colour 4 (orange)
Colour wheel	2.92V	Colour 3 (green)
Colour wheel	3.3V	Colour 2 (yellow)
Colour wheel	3.56V	Colour 1 (white)
Colour wheel	4.05V	Slow to fast clockwise*
Colour wheel	6.12V	Fast counter clockwise*

Note: For twinkle wheel control use the values marked *

MAINTENANCE

To ensure a long working life and the safe, reliable operation of the light source, it is very important to maintain it properly and ensure it is installed in an appropriate and safe location.

Before performing any maintenance on the light souce it should be disconnected from the power supply and allowed to cool down.

• The light source fans and vents should be blown out with compressed air at least every 12 months, or more often if located in a dusty environment.

• Do not allow dust to build up on internal pcb's & components as this will increase heat within the light source and lead to failure. Units should be checked regularly and all dust must be vacuumed off. Failure caused by excessive dust will not be covered under warranty.

• After the light source has been installed, check the fans and vents to ensure they are clear of dust and debris. Blow out with compressed air if required.

• The body of the light source can be cleaned using a soft damp cloth. Do not use any abrasives on the unit.

Note that a record of all maintenance MUST be kept in the table below, indicating what maintenance was undertaken. This must be dated and is required for warranty purposes.

SAFETY GUIDANCE

• A gap of 200mm (8") **MUST** be left around the unit. This is to allow air to circulate and prevent overheating. The location must have free ventilation and must not have an ambient temperature higher than that specified for the luminaire.

• The outer body of the light source may become hot - keep away from all combustible materials and **DO NOT** locate this light source within 200mm (8") of any flammable surface.

• The light source must not be run without the fibre optic harness fitted.

MAINTENANCE LOG

Date	Maintenance Undertaken

PROCEDURES FOR ALL MODEL TYPES

Problem	Possible Cause(s)	Remedy
Unit is dead – no light output and LED power indicator on PSU is not illuminated	Mains supply off	Check supply & reinstate
	Loose mains plugs	Check plugs
	Plug fuse blown (UK)	Check fuse. If blown, replace
	PSU failed	Replace PSU
Unit is dead – no light output and LED power indicator on PSU is illuminated, but LED indicator on Light source not illuminated	PSU failed	Replace PSU
Poor light output on fibre	Light source dimmed either manually or by DMX or 0-10V control	Check and increase dimmer settings as appropriate
	LED driver failure	Contact UFO

ADDITIONAL PROCEDURES FOR MANUAL DIMMING MODELS

Problem	Possible Cause(s)	Remedy
Unit is dead – no light output but LED power indicator is illuminated	Dimming control at minimum adjust	Adjust brightness on dimmer control at rear
	Dip switch no. 10 not switched on	Remove cover and switch dip switch no. 10 to on
	LED array or drive failure	Contact UFO

Note: Please complete relevant troubleshooting procedures before returning the unit to us for further investigation.

ADDITIONAL PROCEDURES FOR DECORATIVE MANUAL MOTOR MODELS

Problem	Possible Cause(s)	Remedy
Decorative wheel not turning	Motor control at minimum	Adjust motor control at rear
	Dip switch no. 10 not switched on	Remove cover and switch dip switch no. 10 to on
	Driver circuit or motor failure	Contact UFO

ADDITIONAL PROCEDURES FOR DECORATIVE DMX MODELS

Problem	Possible Cause(s)	Remedy
Not responding to DMX control	Dip switch no. 10 is switched on	Remove cover and set dip switch no. 10 to off
	DMX address not correctly set	Remove cover and set correct address
	No DMX signal from controller	Check DMX controller for correct setting
	Wiring fault on DMX cables	Check cables and repair as required
	Driver circuit failure	Contact UFO

ADDITIONAL PROCEDURES FOR DECORATIVE 0-10V MODELS

Problem	Possible Cause(s)	Remedy
No 0-10V signal present	Dip switch no. 10 is switched off	Remove cover and switch dip switch no. 10 to on
	No 0-10v signal at light source due to cable or controller fault	Check input to light source using a DMM set to correct range - rectify cable / controller fault

Note: please complete relevant troubleshooting procedures before returning the unit to us for further investigation.

Description	Details
Port connector size	30mm diameter
Fibre type	Glass / PMMA
Mains Supply Voltage	100-240V AC, 47-63Hz
PSU Output	24V DC, 0.75A, 60W max.
LED Power	Max. 20W
Min Ambient Temperature	-10°C
Max Ambient Temperature	+45°C
Fan	80mm crossflow, 12V
Led Type	White light
DMX [specific models only]	User addressable
0-10V [specific models only]	0-10V receiving
LED Life	50,000 hours typical
CRI	3000°K 82 (typical) / 4000°K 82 (typical)
Colour Temperature	3000°K or 4000°K
Material	Aluminium
Finish	Grey
Dimensions (L x W x H) / Weight	160mm x 157mm x 120mm / 1.35kg

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