PRODUCT USER GUIDE

Nebula RGB Light Source



Rev: C4



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









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 User Guide is laid out in three sections:

- **INSTALLATION** details how to connect your luminaire.
- **OPERATION** details how to programme and set up your luminaire.
- MAINTENANCE Maintenance log, Troubleshooting Guide, Technical Specification
- 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 multiport 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 unit.
- **Mounting:** This luminaire comes with an integral mounting feet for securing the unit to a vertical or horizontal surface.
- **Warning:** Always connect the fibre ferrules to the 60 LED array before power is applied to the light source. Never look directly at the luminaire through the fibre multi-port of the light source.
- **Warning:** The luminaire should be positioned so that staring into the luminaire at a distance closer than 2.7 metres 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.

MODEL OVERVIEW

The Nebula RGB LED light source (UFO NEB-RGB) incorporates a multiport array of sixty, three colour LEDs (Red/Green/Blue) to provide optimum display flexibility and illumination within the following optical range.

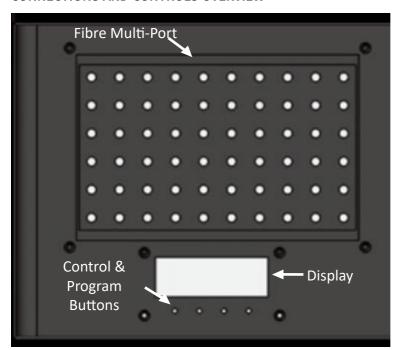
LED Colour	Watts	Lumen Output
Red	61mW	5.1lm
Green	82mW	11.7lm
Blue	84mW	2.7lm

The Nebula is a 30W RGB LED light source with all the control functionality fitted as standard. The following control functionality and configurations are available via rear panel connections, push buttons and LCD display.

CONTROL FUNCTIONALITY AND CONFIGURATION OVERVIEW

- 1. Manual control using top panel push button controls with status display.
- 2. DMX control 180 channels (dimming plus individual red, green, and blue control).
- **3.** 8 standalone showcase programmes.
- **4.** Master slave functionality one Nebula acting as master controlling slave Nebula luminaires via DMX links.

CONNECTIONS AND CONTROLS OVERVIEW

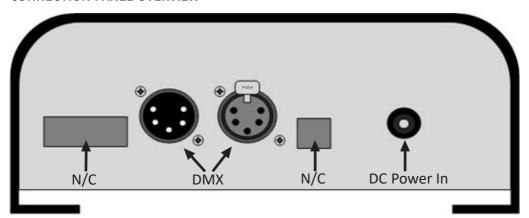


LED PORT NUMBERING

The 60 LEDs in the fibre multi-port array as displayed above are numbered as detailed below. These numbers relate to DMX channels for control purposes.

LD06 OLD12 OLD18 OLD24 OLD30 OLD36 OLD42 OLD48 OLD54 OLD60 O
LD05 OLD11 OLD23 OLD29 OLD35 OLD41 OLD47 OLD53 OLD59
LD04 OLD10 OLD16 OLD22 OLD28 OLD34 OLD40 OLD46 OLD52 OLD58 O
LD03 OLD09 OLD15 OLD21 OLD27 OLD33 OLD39 OLD45 OLD51 OLD57 O
LD02 LD08 LD14 LD20 LD26 LD32 LD38 LD44 LD50 LD56
LD01 OLD07 OLD13 OLD19 OLD25 OLD31 OLD37 OLD43 OLD49 OLD55 O

CONNECTION PANEL OVERVIEW



CONNECTION - FOR MANUAL OPERATION

There are two connections required – the fibre multi-port and the DC input jack plug.

The fibre multi-port should be connected first before the DC supply. Connect all the individual fibre optic ferrule connectors securely into the correct aperture in the fibre optic multi-port on the top of the unit. Ensure each fibre optic connector is fully inserted into the correct numbered aperture as detailed on the preceding page.

Never run the luminaire with the fibre optic ferrule connectors out of the multi-port apertures.

Plug the IEC connector into the IEC socket of the DC power supply unit and then plug the mains connector into a local mains supply.

Switch on power and the light source is ready for use.

If, after using the control and program buttons and display as detailed in the operation section of this manual, no light is produced consult the troubleshooting section in this manual.

CONNECTION - FOR DMX CONTROL OPERATION

There are three connections required – the fiber multi-port, the DMX cables and the mains supply cable.

The fiber multi-port should be connected first before the mains supply. Connect all the individual fiber optic ferrule connectors securely into the correct aperture in the fiber optic multi-port on the top of the unit. Ensure each fiber optic connector is fully inserted into the correct numbered aperture as detailed on page 4.

Never run the luminaire with the fiber optic ferrule connectors out of the multi-port apertures.

Wire up using the DMX cable from the DMX control system. Solder the cables to the 5 pin XLR male and female plug and socket using pin outs as detailed below and plug in to the connectors on the rear of the luminaire. The image below shows the pin orientation of the connectors actually fitted to the light source.

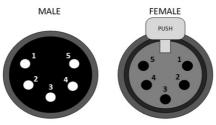
Plug the IEC connector into the IEC socket of the DC power supply unit and then plug the mains connector into a local mains supply.

Switch on power and the light source is ready for use.

If after using the control and program buttons and display as detailed in the operation section of this manual, no light is produced consult the TROUBLESHOOTING section in this manual.

DMX NOTES:

- Always use an approved DMX cable
- Always "daisy chain" a DMX cable or universe
- Never use a T joint on a DMX cable or universe, unless using and approved interface or splitter
- Never connect more than two Nebula units to a single DMX universe unless configured for master/slave operation (master/slave Nebula units using the same address).
- Always terminate the last device on a DMX universe by connecting a 120 ohm resistor across DMX+ and DMX- across the last output connector
- This is a 180 channel DMX device always ensure sufficient channels are available after the first address



Pin 1 - Ground / Sheild

Pin 2 - Data - (cold)

Pin 3 - Data + (hot)

Pin 4 - Not Used

Pin 5- Not Used

CONNECTION - FOR MASTER/SLAVE OPERATION

There are three connections required – the fiber multi-port, the DMX cables and the mains supply cable.

The fiber multi-port should be connected first before the mains supply. Connect all the individual fiber optic ferrule connectors securely into the correct aperture in the fiber optic multi-port on the top of the unit. Ensure each fiber optic connector is fully inserted into the correct numbered aperture as detailed on page 4.

Never run the luminaire with the fiber optic ferrule connectors out of the multi-port apertures.

Wire up using the DMX cable from the DMX control system to the master light source and then the cable from the master to the first slave unit, continuing until all slaves are connected. Solder the cables to the 5 pin XLR male and female plug and socket using pin outs as detailed below and plug in to the connectors on the rear of the luminaire. The image below shows the pin rientation of the connectors actually fitted to the light source.

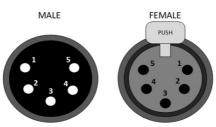
Plug the IEC connector into the IEC socket of the DC power supply unit and then plug the mains connector into a local mains supply.

Switch on power and the light source is ready for use.

If after using the control and program buttons and display as detailed in the operation section of this manual, no light is produced consult the TROUBLESHOOTING section in this manual.

DMX NOTES:

- Always use an approved DMX cable
- Always "daisy chain" a DMX cable or universe
- Never use a T joint on a DMX cable or universe, unless using and approved interface or splitter
- Never connect more than 30 Nebula Master/Slave units on a single DMX universe.
- Always terminate the last device on a DMX universe by connecting a 120 ohm resistor across DMX+ and DMX- across the last output connector
- This is a 180 channel DMX device always ensure sufficient channels are available after the first address



Pin 1 - Ground / Sheild

Pin 2 - Data - (cold)

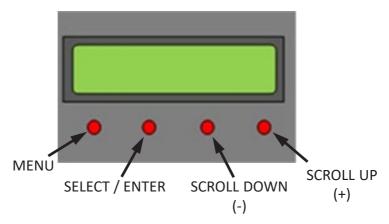
Pin 3 - Data + (hot)

Pin 4 - Not Used

Pin 5- Not Used

USER CONTROLS

Operation of the Nebula RGB model is carried out via the top panel display and associated push button controls as detailed below:



On power up the display will momentarily display "Universal Fibre Optics" then the current model version letter, then the firmware version, before going into initialisation whilst it checks the unit before displaying the current status (example below).



100%

Once the luminaire is powered up, user controlled manual functions and all programming features are available via the four top panel pushbuttons as detailed in the figure above and the following table.

up (example shows the factory

default setting after a Reset)

IMPORTANT NOTE: Once programmed the luminaire will always revert to the programmed settings when power is recycled. However, if manual reset is selected, via Default Setting YES/NO option, the luminaire will revert to factory default settings as detailed below:

Master Dim

PROGRAMMABLE FUNCTION TABLE

MAIN MENU	SUB MENU	DESCRIPTION	INSTRUCTIONS
Control Mode MASTER	-	Allows manual control of the light source	Press Menu button to locate press Enter button to select. Press Menu button to scroll through sub menus
Control Mode MASTER	Master Program: 1 > Strips X	Showcase program number 1	Press Scroll up/Scroll down buttons to locate press Enter button to select.
Control Mode MASTER	Master Program: 2 > Strips Y	Showcase program number 2	Press Scroll up/Scroll down buttons to locate press Enter button to select.
Control Mode MASTER	Master Program: 3 > Strips Fd	Showcase program number 3	Press Scroll up/Scroll down buttons to locate press Enter button to select.
Control Mode MASTER	Master Program: 4 > Random 1	Showcase program number 4	Press Scroll up/Scroll down buttons to locate press Enter button to select.
Control Mode MASTER	Master Program: 5 > Random 2	Showcase program number 5	Press Scroll up/Scroll down buttons to locate press Enter button to select.
Control Mode MASTER	Master Program: 6 > Random 3	Showcase program number 6	Press Scroll up/Scroll down buttons to locate press Enter button to select.
Control Mode MASTER	Master Program: 7 > Worms	Showcase program number 7	Press Scroll up/Scroll down buttons to locate press Enter button to select.
Control Mode MASTER	Master Program: 8 > Square	Showcase program number 8	Press Scroll up/Scroll down buttons to locate press Enter button to select.
Control Mode MASTER	Set Step Speed: 1 Seconds	Controls the time a program stays on the current step	Press Scroll up/Scroll down buttons to select the speed (between 1 and 60 seconds) press Enter button to select
Control Mode MASTER	Master Dimmer: 100%	Controls the light output	Press Scroll up/Scroll down buttons to select the light output required (between 1% and 100%) press Enter button to select
Control Mode MASTER	Default Settings: NO	Resets the light source to default fac- tory settings	Press Scroll up/Scroll down buttons to select either YES or NO press Enter button to select
Control Mode DMX	-	Allows DMX control of the light source	Press Menu button to locate press Enter button to select. Press Menu button to scroll through sub menus
Control Mode DMX	Set DMX Address: 1	Sets the DMX address	Press Scroll up/Scroll down buttons to select the address (between 1 and 512) press Enter button to select
Control Mode DMX	DMX Channel Mode: 3 Channel	Allows DMX control of either a single DMX channel for each of the three LED colours 3 DMX addresses or a single LED channel for each of the 180 LED colours – 180 DMX addresses.	Press Scroll up/Scroll down buttons to select the number of channels (either 3 or 180) press Enter button to select
Control Mode DMX	Master Dimmer: 100%	Controls the light output	Press Scroll up/Scroll down buttons to select the light output required (between 1% and 100%) press Enter button to select
Control Mode DMX	Default Settings: NO	Resets the light source to default fac- tory settings	Press Scroll up/Scroll down buttons to select either YES or NO press Enter button to select

MANUAL OPERATION

All Nebula models in the range can be manually controlled via the MENU, SELECT/ENTER, SCROLL UP and SCROLL DOWN buttons, in a variety of ways as detailed in the Programmable Function Table in the preceding section and in the following sections.

NOTES:

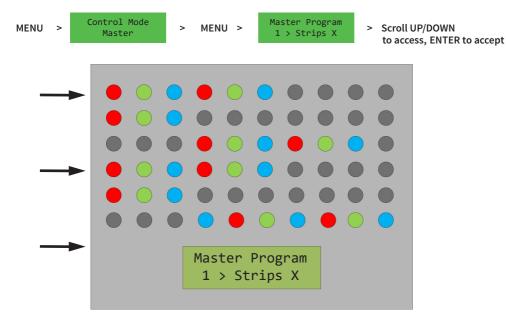
- For all manual operation modes the luminaire must be programmed to master
- Repeated pressing of MENU button accesses sub menus
- Refer to Programmable Function Table for Menu and Sub Menu availability for each model



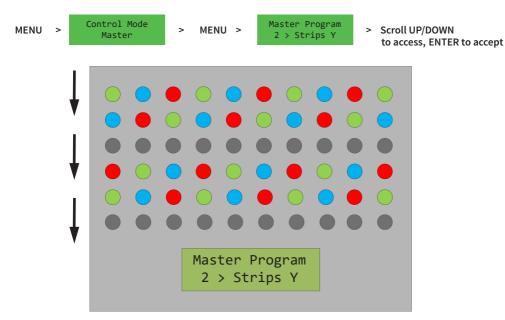
SHOWCASE PROGRAMS:

With the luminaire in Master Control Mode, one of eight programs as detailed below can be selected

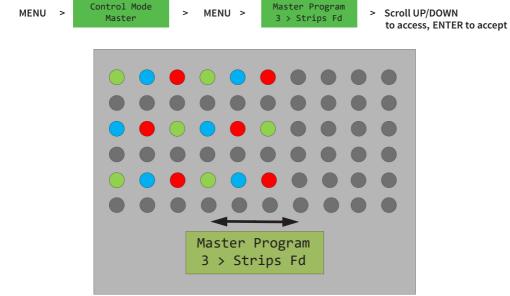
PROGRAM 1 - STRIPS X



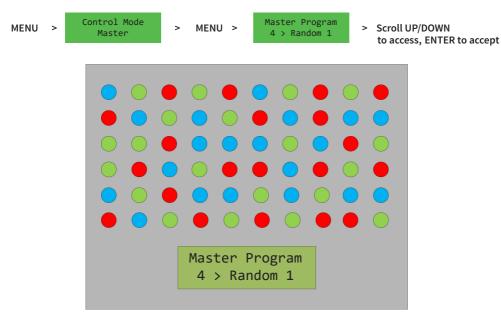
PROGRAM 2 - STRIPS Y



PROGRAM 3 - STRIPS Fd

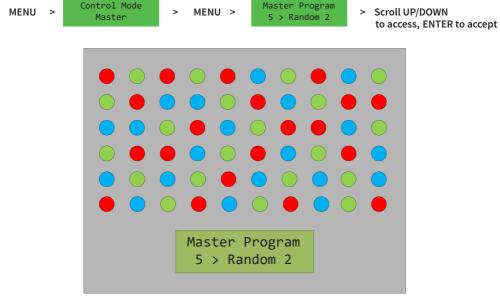


PROGRAM 4 - RANDOM 1

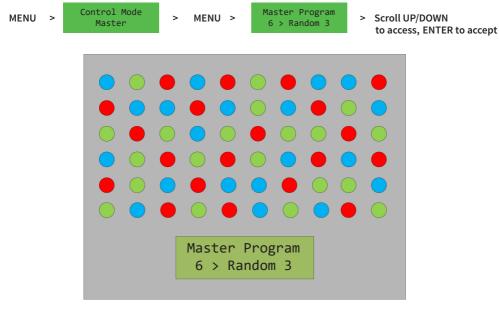


PROGRAM 5 - RANDOM 2

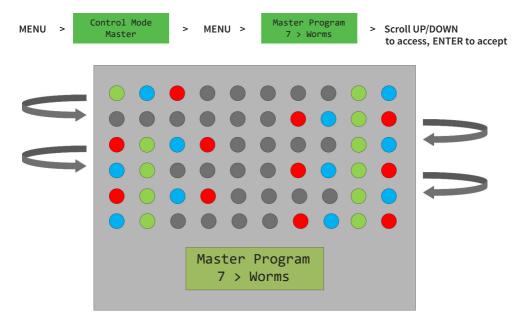
Control Mode



PROGRAM 6 - RANDOM 3

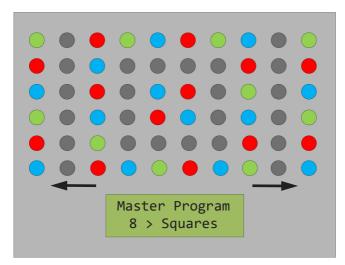


PROGRAM 7 - WORMS



PROGRAM 8 - SQUARES





DIMMING

With the luminaire in Master Control Mode, the light output of all LEDs can be dimmed using rear panel controls from 1% (minimum light output) to 100% (maximum light output).

SET STEP SPEED

With the luminaire in Master Control Mode, the time a program stays on the current step before moving on can be adjusted from 1 second to 60 seconds.

DEFAULT SETTINGS

With the luminaire in Master Control Mode, the light source can be defaulted to factory settings.



NOTES:

- Default factory setting is displayed as detailed right
- DMX address set to 001
- DMX channels to 180

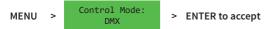
DMX Mode A001 Master Dim 100%

DMX OPERATION

All Nebula models in the range can be DMX controlled as detailed in the following sections.

NOTES:

- For all DMX operation modes, the luminaire must be programmed to DMX.
- Repeated pressing of MENU button accesses sub menus.
- Refer to Programmable Function Table for Menu and Sub Menu availability for each model.



DMX ADDRESS

With the luminaire in DMX Control Mode, the address can be set between 001 and 512



NOTES:

- For Master slave operation all Slaves must be addressed 001.
- This is a 180 channel DMX device (see table on following page) always ensure sufficient channels are available after the address

DMX CHANNEL

With the luminaire in DMX Control Mode, the number of DMX controlled channels available can be set to either 1 (single address controlling all channels) or 180 (180 addresses controlling individual channels)

MASTER DIMMER

With the luminaire in DMX Control Mode, the maximum brightness of the 60 LEDs can be set between 1% (minimum) or 100% (maximum)

DEFAULT SETTINGS

With the luminaire in Master Control Mode, the light source can be defaulted to factory settings.

See opposite page for default facrory settings display.

DMX OPERATION

180 CHANNEL DMX CONTROL

180 CHA	180 CHANNEL DMX CONTROL								
Chan	LED	LED	DMX	-cc ·	Chan	LED	LED	DMX	
No.	No.	Colour		Effect	No.	No.	Colour		Effect
01	LD1	Red	0-255	Min to Max Output	46	LD16	Red	0-255	Min to Max Output
02	LD1	Green	0-255	Min to Max Output	47	LD16	Green	0-255	Min to Max Output
03	LD1	Blue	0-255	Min to Max Output	48	LD16	Blue	0-255	Min to Max Output
04	LD2	Red	0-255	Min to Max Output	49	LD17	Red	0-255	Min to Max Output
05	LD2	Green	0-255	Min to Max Output	50	LD17	Green	0-255	Min to Max Output
06	LD2	Blue	0-255	Min to Max Output	51	LD17	Blue	0-255	Min to Max Output
07	LD3	Red	0-255	Min to Max Output	52	LD18	Red	0-255	Min to Max Output
08	LD3	Green	0-255	Min to Max Output	53	LD18	Green	0-255	Min to Max Output
09	LD3	Blue	0-255	Min to Max Output	54	LD18	Blue	0-255	Min to Max Output
10	LD4	Red	0-255	Min to Max Output	55	LD19	Red	0-255	Min to Max Output
11	LD4	Green	0-255	Min to Max Output	56	LD19	Green	0-255	Min to Max Output
12	LD4	Blue	0-255	Min to Max Output	57	LD19	Blue	0-255	Min to Max Output
13	LD5	Red	0-255	Min to Max Output	58	LD20	Red	0-255	Min to Max Output
14	LD5	Green	0-255	Min to Max Output	59	LD20	Green	0-255	Min to Max Output
15	LD5	Blue	0-255	Min to Max Output	60	LD20	Blue	0-255	Min to Max Output
16	LD6	Red	0-255	Min to Max Output	61	LD21	Red	0-255	Min to Max Output
17	LD6	Green	0-255	Min to Max Output	62	LD21	Green	0-255	Min to Max Output
18	LD6	Blue	0-255	Min to Max Output	63	LD21	Blue	0-255	Min to Max Output
19	LD7	Red	0-255	Min to Max Output	64	LD22	Red	0-255	Min to Max Output
20	LD7	Green	0-255	Min to Max Output	65	LD22	Green	0-255	Min to Max Output
21	LD7	Blue	0-255	Min to Max Output	66	LD22	Blue	0-255	Min to Max Output
22	LD8	Red	0-255	Min to Max Output	67	LD23	Red	0-255	Min to Max Output
23	LD8	Green	0-255	Min to Max Output	68	LD23	Green	0-255	Min to Max Output
24	LD8	Blue	0-255	Min to Max Output	69	LD23	Blue	0-255	Min to Max Output
25	LD9	Red	0-255	Min to Max Output	70	LD23	Red	0-255	Min to Max Output
26	LD9	Green	0-255	Min to Max Output	71	LD24	Green	0-255	Min to Max Output
27	LD9	Blue	0-255	Min to Max Output	72	LD24	Blue	0-255	Min to Max Output
28	LD10	Red	0-255	Min to Max Output	73	LD24	Red	0-255	Min to Max Output
29	LD10	Green	0-255	Min to Max Output	74	LD25	Green	0-255	Min to Max Output
30	LD10	Blue	0-255	Min to Max Output	75	LD25	Blue	0-255	Min to Max Output
31	LD11	Red	0-255	Min to Max Output	76	LD25	Red	0-255	Min to Max Output
32	LD11	Green	0-255	Min to Max Output	77	LD26	Green	0-255	Min to Max Output
33	LD11	Blue	0-255	Min to Max Output	78	LD26	Blue	0-255	Min to Max Output
34	LD12	Red	0-255	Min to Max Output	79	LD27	Red	0-255	Min to Max Output
35	LD12	Green	0-255	Min to Max Output	80	LD27	Green	0-255	Min to Max Output
36	LD12	Blue	0-255	Min to Max Output	81	LD27	Blue	0-255	Min to Max Output
37	LD13	Red	0-255	Min to Max Output	82	LD27	Red	0-255	Min to Max Output
38	LD13	Green	0-255	Min to Max Output	83	LD28	Green	0-255	
39	LD13	Blue	0-255	Min to Max Output	84	LD28	Blue	0-255	Min to Max Output
40	LD13	Red	0-255	Min to Max Output	85	LD28	Red	0-255	Min to Max Output
41	LD14	Green	0-255	Min to Max Output	86			0-255	Min to Max Output
42	LD14	Blue	0-255	Min to Max Output		LD29	Green		Min to Max Output
43	LD14	Red	0-255	Min to Max Output	87 88	LD29 LD30	Blue Red	0-255 0-255	Min to Max Output
44	LD15	Green	0-255	Min to Max Output	89				Min to Max Output
45	LD15	Blue	0-255	Min to Max Output		LD30	Green	0-255	Min to Max Output
45	LDIS	Diue	0-255	IVIIII to IVIAX Output	90	LD30	Blue	0-255	Min to Max Output

The address number selected must have sufficient DMX address channels behind it to accommodate the remaining 179 Nebula DMX channels

DMX OPERATION

180 CHANNEL DMX CONTROL CONTINUED

Chan	LED	LED	DMX		Chan	LED	LED	DMX	
No.	No.	Colour		Effect	No.	No.	Colour	Value	Effect
91	LD31	Red	0-255	Min to Max Output	136	LD46	Red	0-255	Min to Max Output
92	LD31	Green	0-255	Min to Max Output	137	LD46	Green	0-255	Min to Max Output
93	LD31	Blue	0-255	Min to Max Output	138	LD46	Blue	0-255	Min to Max Output
94	LD32	Red	0-255	Min to Max Output	139	LD47	Red	0-255	Min to Max Output
95	LD32	Green	0-255	Min to Max Output	140	LD47	Green	0-255	Min to Max Output
96	LD32	Blue	0-255	Min to Max Output	141	LD47	Blue	0-255	Min to Max Output
97	LD33	Red	0-255	Min to Max Output	142	LD48	Red	0-255	Min to Max Output
98	LD33	Green	0-255	Min to Max Output	143	LD48	Green	0-255	Min to Max Output
99	LD33	Blue	0-255	Min to Max Output	144	LD48	Blue	0-255	Min to Max Output
100	LD34	Red	0-255	Min to Max Output	145	LD49	Red	0-255	Min to Max Output
101	LD34	Green	0-255	Min to Max Output	145	LD49	Green	0-255	Min to Max Output
102	LD34	Blue	0-255	Min to Max Output	147	LD49	Blue	0-255	Min to Max Output
103	LD35	Red	0-255	Min to Max Output	148	LD50	Red	0-255	Min to Max Output
104	LD35	Green	0-255	Min to Max Output	149	LD50	Green	0-255	Min to Max Output
105	LD35	Blue	0-255	Min to Max Output	150	LD50	Blue	0-255	Min to Max Output
106	LD36	Red	0-255	Min to Max Output	151	LD51	Red	0-255	Min to Max Output
107	LD36	Green	0-255	Min to Max Output	152	LD51	Green	0-255	Min to Max Output
108	LD36	Blue	0-255	Min to Max Output	153	LD51	Blue	0-255	Min to Max Output
109	LD37	Red	0-255	Min to Max Output	154	LD52	Red	0-255	Min to Max Output
110	LD37	Green	0-255	Min to Max Output	155	LD52	Green	0-255	Min to Max Output
111	LD37	Blue	0-255	Min to Max Output	156	LD52	Blue	0-255	Min to Max Output
112	LD38	Red	0-255	Min to Max Output	157	LD53	Red	0-255	Min to Max Output
113	LD38	Green	0-255	Min to Max Output	158	LD53	Green	0-255	Min to Max Output
114	LD38	Blue	0-255	Min to Max Output	159	LD53	Blue	0-255	Min to Max Output
115	LD39	Red	0-255	Min to Max Output	160	LD54	Red	0-255	Min to Max Output
116	LD39	Green	0-255	Min to Max Output	161	LD54	Green	0-255	Min to Max Output
117	LD39	Blue	0-255	Min to Max Output	162	LD54	Blue	0-255	Min to Max Output
118	LD40	Red	0-255	Min to Max Output	163	LD55	Red	0-255	Min to Max Output
119	LD40	Green	0-255	Min to Max Output	164	LD55	Green	0-255	Min to Max Output
120	LD40	Blue	0-255	Min to Max Output	165	LD55	Blue	0-255	Min to Max Output
121	LD41	Red	0-255	Min to Max Output	166	LD56	Red	0-255	Min to Max Output
122	LD41	Green	0-255	Min to Max Output	167	LD56	Green	0-255	Min to Max Output
123	LD41	Blue	0-255	Min to Max Output	168	LD56	Blue	0-255	Min to Max Output
124	LD42	Red	0-255	Min to Max Output	169	LD57	Red	0-255	Min to Max Output
135	LD42	Green	0-255	Min to Max Output	170	LD57	Green	0-255	Min to Max Output
126	LD42	Blue	0-255	Min to Max Output	171	LD57	Blue	0-255	Min to Max Output
127	LD43	Red	0-255	Min to Max Output	172	LD58	Red	0-255	Min to Max Output
128	LD43	Green	0-255	Min to Max Output	173	LD58	Green	0-255	Min to Max Output
129	LD43	Blue	0-255	Min to Max Output	174	LD58	Blue	0-255	Min to Max Output
130	LD44	Red	0-255	Min to Max Output	175	LD59	Red	0-255	Min to Max Output
131	LD44	Green	0-255	Min to Max Output	176	LD59	Green	0-255	Min to Max Output
132	LD44	Blue	0-255	Min to Max Output	177	LD59	Blue	0-255	Min to Max Output
133	LD45	Red	0-255	Min to Max Output	178	LD60	Red	0-255	Min to Max Output
134	LD45	Green	0-255	Min to Max Output	179	LD60	Green	0-255	Min to Max Output
135	LD45	Blue	0-255	Min to Max Output	180	LD60	Blue	0-255	Min to Max Output

The address number selected must have sufficient DMX address channels behind it to accommodate the remaining 179 Nebula DMX channels

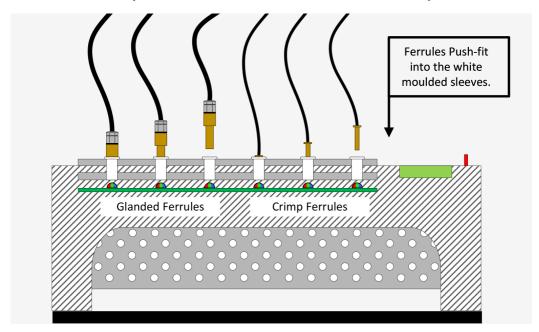
FIBRE INSTALLATION AND FERRULE TYPES

OVERVIEW

The Nebula is compatible with 2 types of ferrules - crimp and glanded.

Crimp ferrules are supplied factory terminated on the fibre harness and are simply pushed into the white moulded sleeves on the top of the light source.

Glanded ferrules are suitable for termination on site either by UFO installers or by third parties. The fibre is pushed through the gland, the gland is tightened and then the fibre is trimmed flush at the bottom of the ferrule. The ferrules are then pushed fully into the moulded sleeves. Each ferrule sits directly above an LED which illuminates each fibre individually.



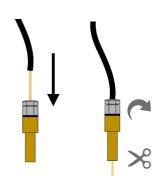
GLANDED FERRULE FIBRE FITMENT

Ensure fibre sheathing is trimmed back so that at least 38mm of bare fibre is visible.

Feed the fibre through the gland and out the base of the ferrule.

Tighten the gland to secure the fibre sheathing and then trim the bare fibre so it is flush with the base of the ferrule.

The ferrule is now ready to be plugged into the light source.



MAINTENANCE AND SAFETY GUIDANCE

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.
- 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

TROUBLESHOOTING

Problem	Probable Cause(s)	Remedy		
	Mains supply off	Check supply and reinstate		
Unit is alread, and light putaget.	Loose connector(s)	Check plugs & sockets are fully mated		
Unit is dead - no light output; mains power indicator & LCD display is out	Blown fuse or circuit trapped	Check fuse/trip & replace/reset if necessary. If problem persists, isolate mains supply and contact UFO		
	Mains supply cable faulty	Get replacement cable from UFO		
Unit is dead - no light output from any port, power indicator on PSU &	Unit in DMX control mode but all channel values set 0 on DMX controller	Increase DMX controller value		
display are lit	Failed internal component	Contact UFO		
	The channels in question have DMX channel values set to 0	Increase channel values on DMX controller to >0		
In DMX mode, – no light output from some of the LED ports.	Failed internal component	Contact UFO		
nonitonic of the 115 portal	Not sufficient DMX addresses available for 180 channels	Check DMX address and channel availability on DMX controller and reprogram		
In DMX or Manual mode, —light output from all the LED ports dim.	Master Dimmer control set low	Program Master Dimmer to required level as detailed in the Operation section of this manual		
In DMX mode, no DMX control over dimming and other DMX functions – data LED inside the	Indicates unit is not receiving a DMX signal from controller or Master NEBULA	Check DMX controller or Master NEBULA settings.		
unit steady (not flickering)	Faulty DMX cable	Check DMX cabling and repair/replace		
No DMX control over dimming	Unit not in DMX control mode	Set to DMX in the Control Mode sub menu		

TECHNICAL SPECIFICATION

Description	Details
UFO Product Code	UFO-NEB-RGB
No. of Port Connectors	60
Fibre Type	Glass / PMMA
Material	Sheet steel / Aluminium
Dimensions (L x W x H)	200mm x 260mm x 88mm
Operating Environment	Indoor only
Ambient Temperature	Min10°C to Max. 45°C
PSU Output	12V DC 30W (maximum)
PSU Type	Desktop Class II listed
Mains Input	100-240V AC 50-60Hz
Individual LED Power	Red - 61mW Green - 82mW Blue - 84mW
Individual LED Lumen Output	Red - 5.1lm
LED Life	50,000 hours (typical)
Dimming & Output Control	DMX plus manual dimming and demo mode
DMX Connection	5 pin XLR sockets

NOTES

NOTES









SPECIFY



BUILD



INSTALL

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