

Light Source User Guide



UFO UFX150 DMX Light Source

INTRODUCTION

Thank you for purchasing the UFO UFX150 DMX Lightsource.

Please read these instructions fully before connecting your unit to the electrical supply, and keep them for future reference.

The UFO UFX150 is a DMX512 compatible 150W colour changing light source for illuminating fibre optic cables in permanent installations.

Features include a four or nine colour colour-wheel, a twinkle wheel and smooth, full range mechanical dimming control.

The unit can be used in stand-alone operation, as part of a master/slave configuration or can be fully controlled by DMX.

SAFETY INFORMATION

- For indoor use only, unless housed in suitable enclosure
- Disconnect unit from power supply before performing any maintenance
- Always allow the unit to cool down before moving or handling it
- Ensure that the power supply is correct for the unit before powering up
- The light source **MUST** be earthed
- The light source gets hot - keep it away from all combustible materials
- Never attempt to tamper with the wiring or internal components
- Please leave approx. 250mm of clear space all around the unit

FRONT PANEL CONTROLS



- FUN - switch to function menu or return to previous menu level
- ENTER - select sub-menu or confirm the current entered value
- UP / DOWN - adjust current activated menu or value
- MIC - built in microphone for sound active mode
- SENSITIVITY - use to control sensitivity of built in microphone

REAR PANEL CONNECTIONS



- AC IN - standard IEC power connector
- DMX IN - standard 3-pin DMX input connector
- DMX OUT - standard 3-pin DMX output connector
- ON / OFF - power switch

OPERATING INSTRUCTIONS

When initially powered on, the unit will reset itself - the display will flash 'REST' for up to 30 seconds. When the reset has been completed the units address can be set by pressing [FUN] until the display reads 'ADDR'. Press [UP] or [DOWN] to select the address and press [ENTER]. Press [FUN] to return to the menu.

• DMX Mode or Dimmer + Slave Mode

To enter either DMX or Dimmer and Slave mode, press the [FUN] button until the display reads ADDR. Then use the [UP] or [DOWN] buttons until MODE is shown on the display. Press the [ENTER] button to access the MODE menu. Use the [UP] or [DOWN] buttons until M-DM is shown on the display, and press [ENTER].

Press the [FUN] button once, and then use the [UP] and [DOWN] buttons until the display reads ADDR. Press [ENTER] and then use the [UP] and [DOWN] keys to select the desired address. Press [ENTER] to select it.

• Dimmer + Master Mode

To enter Dimmer + Master mode, press the [FUN] button until the display reads ADDR. Then use the [UP] or [DOWN] buttons until MODE is shown on the display. Press the [ENTER] button to access the MODE menu. Use the [UP] or [DOWN] buttons until M-SO is shown on the display, and press [ENTER].

Press the [FUN] button once, and then use the [UP] and [DOWN] buttons until the display reads A-PR. Press [ENTER] and then use the [UP] and [DOWN] keys to select the desired program (e.g. PC01). Press [ENTER] to select it. To adjust effect speed, press [FUN] and use [UP] or [DOWN] buttons until SPED is displayed. Press [ENTER] and use [UP] or [DOWN] to change speed.

• Dimmer + Auto Mode

To enter Dimmer + Auto mode, press the [FUN] button until the display reads ADDR. Then use the [UP] or [DOWN] buttons until MODE is shown on the display. Press the [ENTER] button to access the MODE menu. Use the [UP] or [DOWN] buttons until M-AU is shown on the display, and press [ENTER].

Press the [FUN] button once, and then use the [UP] and [DOWN] buttons until the display reads A-PR. Press [ENTER] and then use the [UP] and [DOWN] keys to select the desired program (e.g. PC01). Press [ENTER] to select it. To adjust effect speed, press [FUN] and use [UP] or [DOWN] buttons until SPED is displayed. Press [ENTER] and use [UP] or [DOWN] to change speed.

CHANNEL FUNCTIONS

Display		Function
ADDR	001-508	Setting DMX address
MODE	M-DM	Control by DMX controller or Master and Slave. Note that DMX mode can only be set to 001 when unit is slave.
	M-AU	Auto Dimmer mode. Note that only one light source can be set as master with the rest as slaves. Do not connect light source to DMX controller.
	M-SO	Sound active mode. Note that only one light source can be set as master with the rest as slaves. Do not connect light source to DMX controller.
A-PR	PA-01 - PA10	In Auto Dimmer mode: 10 static colours No twinkle effects
	SA01 - SA10	In Auto Dimmer mode: 10 static colours Various twinkle effects
	PB01 - PB10	In Auto Dimmer mode: 10 colours change consecutively Speed controlled by SPED menu No twinkle effects
	SB01 - SB10	In Auto Dimmer mode: 10 colours change consecutively Speed controlled by SPED menu Various twinkle effects

CHANNEL FUNCTIONS

A-PR	PC01 - PC10	In Auto Dimmer mode: 10 colours change step by step Speed controlled by SPED menu Various twinkle effects
	SC01 - SC10	In Auto Dimmer mode: 8 colours change step by step Speed controlled by SPED menu Various twinkle effects
	PD01 - PD10	In Auto Dimmer mode: Colours rotate consecutively at 10 different speeds. No twinkle effects.
	SD01 - SD10	In Auto Dimmer mode: Colours rotate consecutively at 10 different speeds. Various twinkle effects.
SPED	SP01 - SP06	In Auto Dimmer mode: Controls the rotating speed of each step in a program.
DSPL	ST ND	Display is shown in normal orientation
	REV	Display is shown in 180° orientation (upside down)
REST	REST/on	Reset the light source. Press ENTER button and then use UP / DOWN buttons until ON is displayed. Press ENTER again to reset the unit.

DMX CHANNEL FUNCTIONS & ADDRESS VALUES

Channel 1 - Dimmer control

Channel	No.	DMX Address	Effect
1	1	0 -255	Close to open

Channel 2 - Colour control

Channel	No.	DMX Address	Effect
2	1	0-90	Change consecutively between open & colour 9
2	2	0	Open (white light)
2	3	10	Colour 1
2	4	20	Colour 2
2	5	30	Colour 3
2	6	40	Colour 4
2	7	50	Colour 5
2	8	60	Colour 6
2	9	70	Colour 7
2	10	80	Colour 8
2	11	90	Colour 9
2	12	91-170	Stepping change between colour 9 & open
2	13	91 - 98	Colour 9
2	14	99 -106	Colour 8
2	15	107 - 114	Colour 7
2	16	115 - 122	Colour 6
2	17	123 - 130	Colour 5
2	18	131 - 138	Colour 4
2	19	139 - 146	Colour 3
2	20	147 - 154	Colour 2
2	21	155 - 162	Colour 1
2	22	163 - 170	Open (white light)
2	23	171 - 212	Clockwise, fast to slow
2	24	213 - 255	Counter-clockwise slow to fast

DMX CHANNEL FUNCTIONS & ADDRESS VALUES

Channel 3 - Twinkle wheel control

Channel	No.	DMX Address	Effect
3	1	0 -15	Stop / open
3	2	16 - 127	Clockwise, slow to fast
3	3	128 - 143	Stop
3	4	144 - 255	Counter clockwise, fast to slow

Channel 4 - Colour speed

Channel	No.	DMX Address	Effect
4	1	0 -255	Colour speed from fast to slow

Channel 5 - Reset and control lamp

Channel	No.	DMX Address	Effect
5	1	0 -127	Normal and lamp on
5	2	128 - 191	Reset 5 seconds later
5	3	192 - 250	Normal and lamp on
5	4	251 - 255	Lamp off 10 seconds later

Note: After powering off unit, allow at least 5 minutes for lamp to cool down before attempting to power back up.

BUILT-IN PROGRAM FUNCTIONS

Program	Menu	Function
1	PA01	Static colour 9, no twinkle
2	PA02	Static colour 8, no twinkle
3	PA03	Static colour 7, no twinkle
4	PA04	Static colour 6, no twinkle
5	PA05	Static colour 5, no twinkle
6	PA06	Static colour 4, no twinkle
7	PA07	Static colour 3, no twinkle
8	PA08	Static colour 2, no twinkle
9	PA09	Static colour 1, no twinkle
10	PA10	Open (white light), no twinkle
11	SA01	Static colour 9, clockwise, slowest twinkle
12	SA02	Static colour 8, clockwise, slower twinkle
13	SA03	Static colour 7, clockwise, slower twinkle
14	SA04	Static colour 6, clockwise, faster twinkle
15	SA05	Static colour 5, clockwise, fastest twinkle
16	SA06	Static colour 4, clockwise, slowest twinkle
17	SA07	Static colour 3, clockwise, slowest twinkle
18	SA08	Static colour 2, clockwise, slowest twinkle
19	SA09	Static colour 1, clockwise, slowest twinkle
20	SA10	Open (white light), counter-c/wise, slowest twinkle
21	PB01	Change between Open & Colour 9 consecutively. Speed is set by menu. No twinkle.
22	PB02	Change between Colour 1 & Colour 9 consecutively. Speed is set by menu. No twinkle.
23	PB03	Change between Colour 2 & Colour 9 consecutively. Speed is set by menu. No twinkle.
24	PB04	Change between Colour 3 & Colour 9 consecutively. Speed is set by menu. No twinkle.
25	PB05	Change between Colour 4 & Colour 9 consecutively. Speed is set by menu. No twinkle.
26	PB06	Change between Colour 5 & Colour 9 consecutively. Speed is set by menu. No twinkle.

BUILT-IN PROGRAM FUNCTIONS

Program	Menu	Function
27	PB07	Change between Colour 6 & Colour 9 consecutively. Speed is set by menu. No twinkle.
28	PB08	Change between Colour 7 & Colour 9 consecutively. Speed is set by menu. No twinkle.
29	PB09	Change between Colour 8 & Colour 9 consecutively. Speed is set by menu. No twinkle.
30	PB10	Change between Colour 2 & Colour 6 consecutively. Speed is set by menu. No twinkle.
31	SB01	Change between Open & Colour 9 consecutively. Speed is set by menu. Clockwise. Slowest twinkle.
32	SB02	Change between Colour 1 & Colour 9 consecutively. Speed is set by menu. Clockwise. Slowest twinkle.
33	SB03	Change between Colour 2 & Colour 9 consecutively. Speed is set by menu. Clockwise. Faster twinkle.
34	SB04	Change between Colour 3 & Colour 9 consecutively. Speed is set by menu. Clockwise. Faster twinkle.
35	SB05	Change between Colour 4 & Colour 9 consecutively. Speed is set by menu. Clockwise. Fastest twinkle.
36	SB06	Change between Colour 5 & Colour 9 consecutively. Speed is set by menu. Counter c/wise. Fastest twinkle.
37	SB07	Change between Colour 6 & Colour 9 consecutively. Speed is set by menu. Counter c/wise. Faster twinkle
38	SB09	Change between Colour 7 & Colour 9 consecutively. Speed is set by menu. Counter c/wise. Slower twinkle.
39	SB09	Change between Colour 8 & Colour 9 consecutively. Speed is set by menu. Counter c/wise. Slower twinkle.
40	SB10	Change between Colour 2 & Colour 6 consecutively. Speed is set by menu. Counter c/wise. Slowest twinkle.
41	PC01	Change between Open & Colour 9 consecutively. Time on each colour (seconds) is set by SPED menu.

BUILT-IN PROGRAM FUNCTIONS

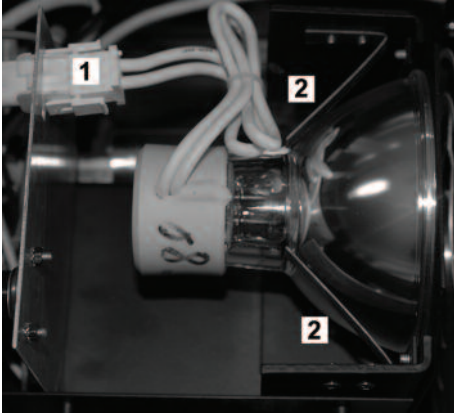
Program	Menu	Function
42	PC02	Change between Colour 1 & Colour 9 consecutively. Time on each colour (seconds) is set by SPED menu.
43	PC03	Change between Colour 2 & Colour 9 consecutively. Time on each colour (seconds) is set by SPED menu.
44	PC04	Change between Colour 3 & Colour 9 consecutively. Time on each colour (seconds) is set by SPED menu.
45	PC05	Change between Colour 4 & Colour 9 consecutively. Time on each colour (seconds) is set by SPED menu.
46	PC06	Change between Colour 5 & Colour 9 consecutively. Time on each colour (seconds) is set by SPED menu.
47	PC07	Change between Colour 6 & Colour 9 consecutively. Time on each colour (seconds) is set by SPED menu.
48	PC08	Change between Colour 7 & Colour 9 consecutively. Time on each colour (seconds) is set by SPED menu.
49	PC09	Change between Colour 8 & Colour 9 consecutively. Time on each colour (seconds) is set by SPED menu.
50	PC10	Change between Colour 2 & Colour 6 consecutively. Time on each colour (seconds) is set by SPED menu.
51	SC01	Change between Open & Colour 9 consecutively. Time on each colour (seconds) is set by SPED menu. Clockwise. Slowest twinkle.
52	SC02	Change between Colour 1 & Colour 9 consecutively. Time on each colour (seconds) is set by SPED menu. Clockwise. Slower twinkle.
53	SC03	Change between Colour 2 & Colour 9 consecutively. Time on each colour (seconds) is set by SPED menu. Clockwise. Faster twinkle.
54	SC04	Change between Colour 3 & Colour 9 consecutively. Time on each colour (seconds) is set by SPED menu. Clockwise. Faster twinkle.
55	SC05	Change between Colour 4 & Colour 9 consecutively. Time on each colour (seconds) is set by SPED menu. Clockwise. Fastest twinkle.

BUILT-IN PROGRAM FUNCTIONS

Program	Menu	Function
56	SC06	Change between Colour 5 & Colour 9 consecutively. Time on each colour (seconds) is set by SPED menu. Clockwise fastest twinkle.
57	SC07	Change between Colour 6 & Colour 9 consecutively. Time on each colour (seconds) is set by SPED menu. Clockwise. Slower twinkle.
58	SC08	Change between Colour 7 & Colour 9 consecutively. Time on each colour (seconds) is set by SPED menu. Clockwise. Slower twinkle.
59	SC09	Change between Colour 8 & Colour 9 consecutively. Time on each colour (seconds) is set by SPED menu. Clockwise. Slower twinkle.
60	SC10	Change between Colour 2 & Colour 6 consecutively. Time on each colour (seconds) is set by SPED menu. Clockwise. Slower twinkle.
61	PD01	Rotate at fastest speed. Clockwise. No twinkle.
62	PD02	Rotate at faster speed. Clockwise. No twinkle.
63	PD03	Rotate at slower speed. Clockwise. No twinkle.
64	PD04	Rotate at slower speed. Clockwise. No twinkle.
65	PD05	Rotate at slowest speed. Clockwise. No twinkle.
66	PD06	Rotate at slowest speed. Counter c/wise. No twinkle.
67	PD07	Rotate at slower speed. Counter c/wise. No twinkle.
68	PD08	Rotate at faster speed. Counter c/wise. No twinkle.
69	PD09	Rotate at faster speed. Counter c/wise. No twinkle.
70	PD10	Rotate at fastest speed. Counter c/wise. No twinkle.
71	SD01	Rotate at fastest speed. Clockwise. Slowest twinkle.
72	SD02	Rotate at faster speed. Clockwise. Slower twinkle.
73	SD03	Rotate at faster speed. Clockwise. Slower twinkle.
74	SD04	Rotate at slower speed. Clockwise. Faster twinkle.
75	SD05	Rotate at slowest speed. Clockwise. Fastest twinkle.
76	SD06	Rotate at slowest speed. C/nter c/wise. Fastest twinkle.
77	SD07	Rotate at slower speed. Counter c/wise. Faster twinkle.
78	SD08	Rotate at faster speed. Counter c/wise. Slower twinkle.
79	SD09	Rotate at faster speed. Counter c/wise. Slower twinkle.
80	SD10	Rotate at fastest speed. C/nter c/wise. Slowest twinkle.

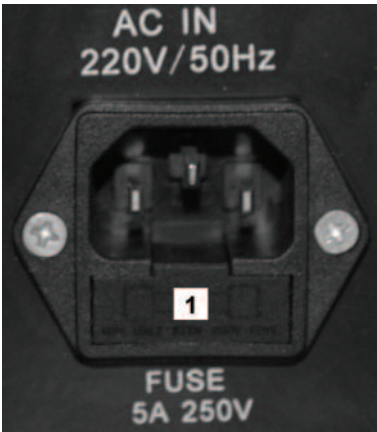
MAINTENANCE

Lamp replacement



- 1) Unplug unit from electrical supply and allow to cool.
- 2) Remove the six screws which secure the unit's top cover.
- 3) Disconnect the lamp's plug from the lightsource - see [1] in photo.
- 4) Pull the lamp free from its holder - see [2] in photo.
- 5) Insert new lamp into holder, plug into connector and secure top cover.

Fuse replacement



- 1) Unplug unit from electrical supply and allow to cool.
- 2) Unclip the fuse holder [1] which is located under the IEC mains connector.
- 3) Withdraw the fuse from the holder.
- 4) Replace with 5A glass slimline fuse
- 5) Close the fuse holder cover.

Cleaning

Disconnect unit from power supply and allow to cool. The body of the unit can be cleaned with a soft, damp cloth - do not use any abrasives on the unit.

The fans and vents should be kept clear by periodically blowing them out with compressed air.

IMPORTANT - A maintenance record table is provided overleaf for the purposes of recording ALL maintenance undertaken on the lightsource, and MUST be filled in accordingly.

Please note that a record of all maintenance **MUST** be kept in the table below, indicating what maintenance was undertaken and when.

Date	Maintenance Undertaken

TROUBLESHOOTING

Problem	Probable cause(s)	Remedy
Unit is completely dead	Main fuse blown	Check and replace fuse.
	No power to unit	Check that power is switched on and cables are plugged in.
Unit resets correctly but does not respond to the controller	The controller is not connected	Connect controller
	Reversed data signal polarity	Install a phase reversing cable between the unit and the controller.
	Bad data link connection	Check cables and connections. Repair or replace damaged cables.
	Data link not terminated	Insert termination plug into output of the last unit in the link.
	Incorrect address setting	Check address setting.
Unit does not reset correctly	An effect requires mechanical adjustment.	Contact UFO for assistance.
No light output	Lamp too hot to strike	Allow lamp to cool.
	Faulty lamp	Check and replace lamp
Lamp cuts out intermittently or burns out too quickly	Unit is too hot	Allow unit to cool.
	Faulty fan	Contact UFO for assistance.

TECHNICAL SPECIFICATIONS

Description	
Port connector size	30mm diameter
Fibre type	Glass / Polymer
Supply voltage	240V AC
Lamp power	150W
Maximum power	195W & 230V AC
Maximum current	1.0A @ 230V AC
Min. ambient temperature	-20°C
Max. ambient temperature	40°C
Thermal protection	Thermal switch
Ballast type	Magnetic
Fan type	80mm crossflow
Power cord	IEC mains cable
Main fuse	5 Amp
Lamp type	Metal halide
Lamp model	Osram HQI-R 150W
Lamp life	c. 9000h
Lamp colour temperature	4200K
Lamp CRI	85
Colour wheel	4 or 9 colours plus white
Twinkle wheel	Continuous, variable speed rotation
Dimmer	0 -100%
Control options	DMX, standalone, master-slave
DMX channels	5
Protocol	DMX512
Operating environment	Indoor / dry
Protection rating	IP20
Material	Sheet steel
Colour	Blue
Size	332(L) x 280(W) x 198(H) mm
Weight	10kg

Note: UFO operates a continuous improvement program, so specifications are subject to change.

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