USER MANUAL

Expolite FLS 500

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01 **PRODUCT**

1.1 TECHNICAL SPECIFICATIONS

Type	Expolite FLS 500
LED Colors	440 pcs x WW, 440 pcs x CW
Power	500 W
Voltage Range	100–240 V~
Protection	IP65
Operating Temperature	-20°C to 45°C
Dimensions	652 x 120 x 249 mm
Weight	11.3 kg

DIMENSIONS
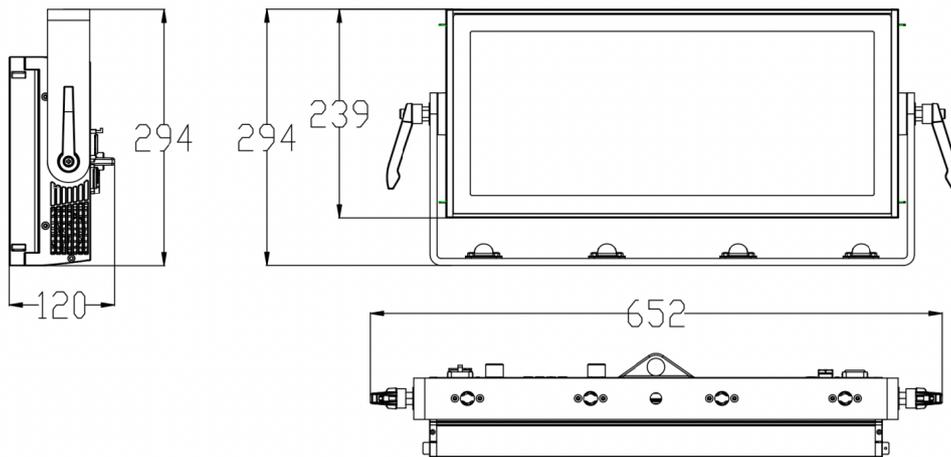
1.2 SAFETY NOTES

IMPORTANT

- This product must be installed by a qualified professional.

- In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes.

- The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.

CAUTION!

- Make sure that the available voltage is not higher than stated on the rear panel.

- Do not touch the power cables if your hands are wet.

- The earth wire must always be connected to the ground. Therefore it is essential to connect the yellow/green conductor to earth.

- Make sure that the power-cord is never crimped or damaged by sharp edges. Check the device and the power-cord from time to time. The electric connection, repairs and servicing must be carried out by a qualified employee.

- Always disconnect power input cable to completely remove power from unit when not in use or before cleaning or servicing the fixture.

- Do not switch the fixture on and off in short intervals as this would reduce the lamp's life.

- Do not touch the device's housing with bare hands during its operation (housing becomes hot)! The surface of the product's casing can reach up to 60°C (140°F) during operation. Avoid contact by persons and materials. Do not install the product in a location where there is a risk of accidental contact. Allow the product to cool for at least 10 minutes before handling.

- For replacement use lamps and fuses of same type and rating only.

- Please protect the fixture and avoid damage during transport and installation. If there is any damage to the coating, the shell may be corroded.

- When hanging fixtures, it is necessary to verify that facilities and hooks can bear at least 10 times the weight of the fixture.

- Fix the safety rope at the correct holes only. Only operate the fixture after having checked that the housing is firmly closed and all screws are tightly fastened.

- The maximum ambient temperature 45°C must never be exceeded. Do not operate the product if the ambient temperature (Ta) exceeds 45°C (115°F).

Electrical Warning

- The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.

02   INSTALLATION

2.1 MOUNTING

UPRIGHT

- Keep all combustible materials (e.g. fabric, wood, paper) at least 500 mm (20 in.) away from the product.

- For overhead use, always install a safety cable that can hold at least 10 times the weight of the fixture.

- For overhead installation, the fixture must always be secured with a safety wire that can bear at least 10 times the weight of the fixture. Secure the fixture with a safety cable through the rear safety eye as shown.

- Ensure that the structure (truss) to which you are attaching the fixture is secure.

Hanging Layout
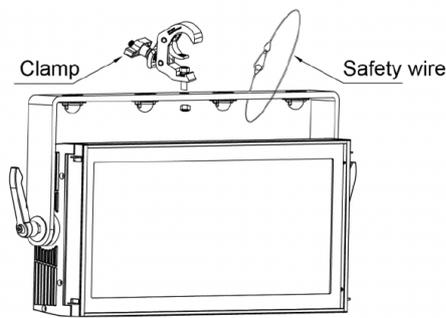
Hanging layout

2.2 POWER CONNECTIONS

- Power Linking: 4 units at 110V; 8 units at 220V.

- This product has an auto-ranging power supply that can work with an input voltage range of 100–240 VAC, 50/60 Hz.

Connection	Wire (U.S.)	Wire (Europe)	Screw Color
AC Live	Black	Brown	Yellow/Brass
AC Neutral	White	Blue	Silver
AC Ground	Green/Yellow	Green/Yellow	Green

## 2.3 DATA NETWORK REQUIREMENTS

- Connect the DMX512 controller to the units in series. A DMX 512 data link is required in order to control the fixture via DMX. The fixture has 3/5-pin XLR connectors for DMX data input and output.

- Each unit has N DMX channels so the DMX Addresses should increase by increments of 1: (Nx1)+1, (Nx2)+1, (Nx3)+1...

- Any DMX address in the range from 001 to 512 may be used.
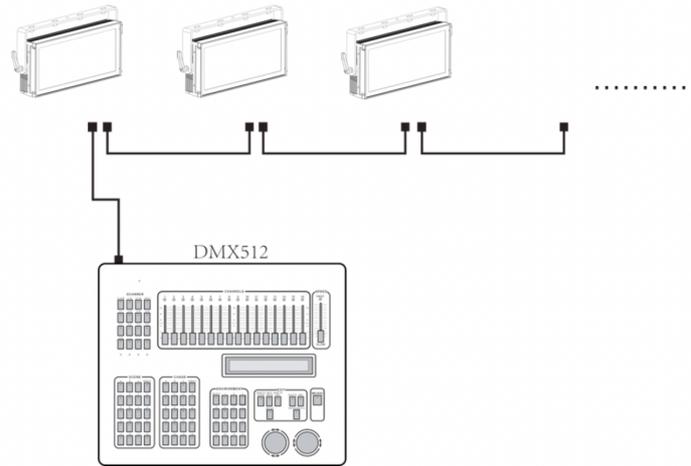
2.4 INSTALLATION OF ACCESSORIES

Move the button in the direction of the arrow to open the fixed plate. (See following figure)
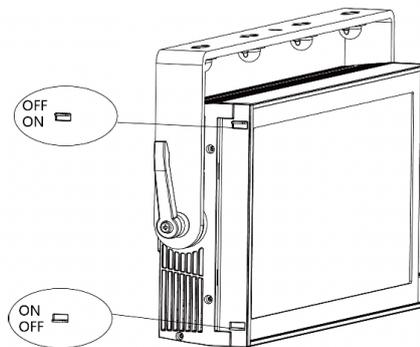
03   FUNCTIONS AND SETTINGS

3.1 DISPLAY OPERATION

- MENU: Used to access the menu or to return to a previous menu option.
- ENTER: Used to select and store the current menu or confirm the current function value or option within a menu.
- UP: Navigates downwards through the menu list and increases the numeric value when in a function.
- DOWN: Navigates upwards through the menu list and decreases the numeric value when in a function.

3.2 MENU MAP

Menu	Sub 1	Sub 2	Description
KNOB MODE	1. DIMMER 0–100% 2. CCT 2800K–6000K		Knob parameter setting
STATIC	WHITE 0–255 COOL 0–255 STROBE 0–25		Combine [WHITE][COOL] to create an infinite range of color temperatures (0–255). Set the value of [STROBE] (0–25 Hz).
ADDRESS	001–512 (default 001)		Set the DMX address
RUN MODE	DMX (default) SLAVE		[DMX] Using the DMX 512 controller to control; [SLAVE] Master–Slave operation.
PERSONALITY	UNO VW.D VW.F STD.P		Use the menu to select desired channel mode
SETTING	RESET		Restore factory settings
	DIMMER	DIM4 (default) DIM3 DIM2 DIM1 OFF	Dimming curves DIM4 (slow)
	DMX ERROR	SAVE (default) BLACK	Hold after loss of DMX signal Blackout after loss of DMX signal
	LED PWM	1200 Hz (default) 2400 Hz 4000 Hz 6000 Hz 25000 Hz	Sets the PWM frequency
	FULL POWER CCT	4000K 5600K 6500K NORMAL (default)	Full power color temperature selection
	PERFORM	STUDIO POWER LIVE (default)	Fan mode low speed Fast rotation of fan, all power Automatic rotation of fan
	DISP KEY	ON (default) OFF	Locks display (passcode is UP, DOWN, UP, DOWN, ENTER)
	DISP TIME	ON 10s 30s (default) 2min	Display backlight always on Turns off display backlight after 10s/30s/2min of inactivity
CCT	CCT	2800K–6000K	Reset color temperatures
		WHITE 0–255 COOL 0–255	
	CALR	OK	
INFO	FIXTURE HOURS		Hours of fixture use
	VERSION		Software versions
	RDM UID	0x388Axxxxxxxx	Check fixture's ID
	RDM LABEL		Check fixture's label

All passwords of this product are: UP, DOWN, UP, DOWN, ENTER

04   **DMX512 CONTROL**

4.1 DMX CHANNEL TABLE

UNO	VW.D	VW.F	STD.P	Value	Function
CH.1	CH.1	CH.1	CH.1	0–255	DIMMER
–	–	CH.2	CH.2	0–255	DIMMER FINE
–	CH.2	CH.3	CH.3	0–255	WHITE
–		CH.4	CH.4	0–255	WHITE FINE
–	CH.3	CH.5	CH.5	0–255	COOL WHITE
–	–	CH.6	CH.6	0–255	COOL WHITE FINE

CCT (STD.P CH.7)

Value	Function
0–10	No Function
11–41	2800K – 3000K
41–71	3000K – 3200K
71–101	3200K – 3500K
101–131	3500K – 4000K
131–161	4000K – 4200K
161–191	4200K – 4500K
191–221	4500K – 5000K
221–251	5000K – 5600K
251–255	5600K – 6000K

STROBE (STD.P CH.8)

Value	Function
0–9	No Function
10–99	STROBE SLOW TO FAST, 0–25 Hz
100–109	No Function
110–179	LIGHTNING STROBE
180–189	No Function
190–255	RANDOM STROBE

CONTROL (EXECUTE AFTER 3 SECONDS)

Value	Function
000–010	No Function
011–080	Reserve
081–090	1200 Hz
091–100	2000 Hz
101–110	4000 Hz
111–120	6000 Hz
121–130	25 kHz
131–140	Dimmer Mode: Off
141–150	Dimmer Mode: 1
151–160	Dimmer Mode: 2
161–170	Dimmer Mode: 3
171–180	Dimmer Mode: 4
181–190	Reserve
191–200	All Reset
201–255	Reserve

QUESTIONS OR FEEDBACK?

Scan the QR code to get in touch — we're happy to help!