

**EXPOLITE**

# USER MANUAL

Expolite FLS 500



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TABLE OF CONTENTS

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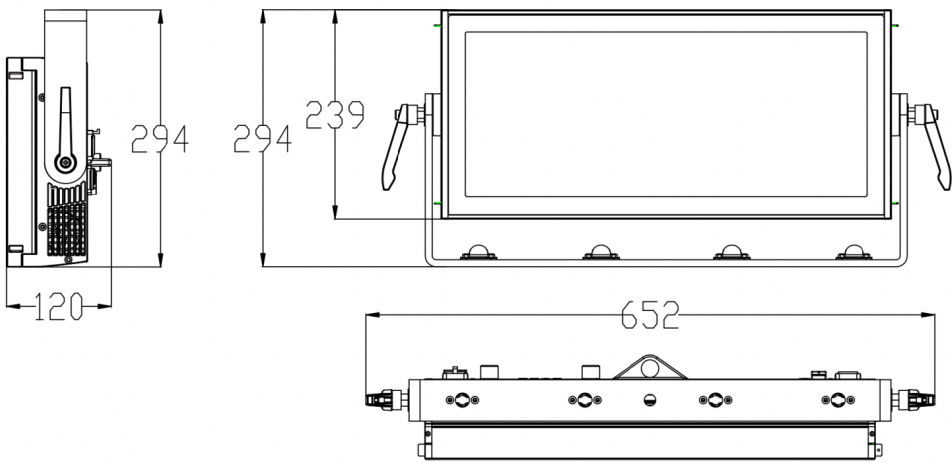
|    |                                 |   |
|----|---------------------------------|---|
| 01 | <b>PRODUCT</b>                  | 2 |
|    | 1.1 Technical Specifications    | 2 |
|    | 1.2 Safety Notes                | 3 |
| 02 | <b>INSTALLATION</b>             | 4 |
|    | 2.1 Mounting                    | 4 |
|    | 2.2 Power Connections           | 4 |
|    | 2.3 Data Network Requirements   | 5 |
|    | 2.4 Installation of Accessories | 5 |
| 03 | <b>FUNCTIONS AND SETTINGS</b>   | 5 |
|    | 3.1 Display Operation           | 5 |
|    | 3.2 Menu Map                    | 5 |
| 04 | <b>DMX512 CONTROL</b>           | 6 |
|    | 4.1 DMX Channel Table           | 6 |

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.

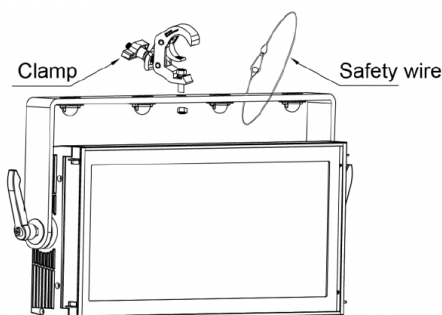
## 02 INSTALLATION

### 2.1 MOUNTING

#### UPRIGHT

- Keep all combustibile 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**

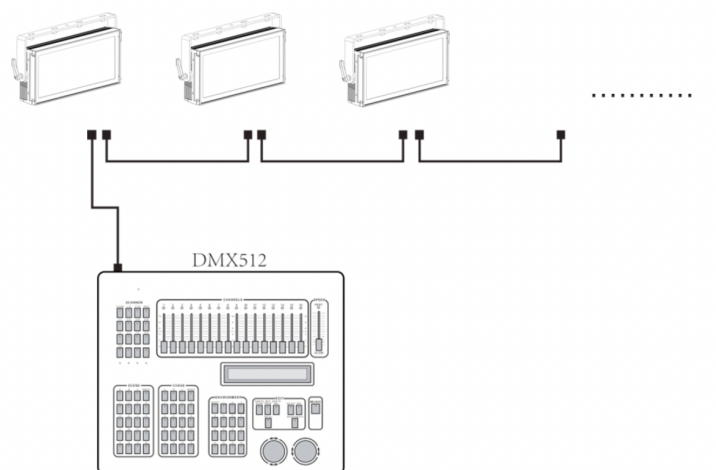
### 2.2 POWER CONNECTIONS

- 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        |

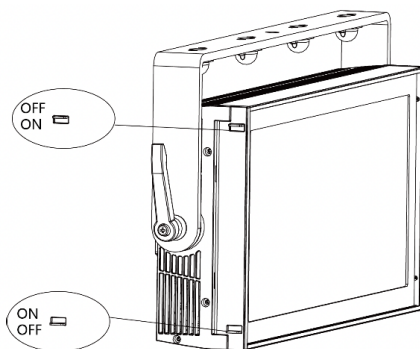
### 2.3 DATA NETWORK REQUIREMENTS

- 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                                                                                                           |
|--------------------|-------------------------------------|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>KNOB MODE</b>   | 1. DIMMER 0–100% 2. CCT 2800K–6000K |                                                    | Knob parameter setting                                                                                                |
| <b>STATIC</b>      | 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). |
| <b>ADDRESS</b>     | 001–512 (default 001)               |                                                    | Set the DMX address                                                                                                   |
| <b>RUN MODE</b>    | DMX (default) SLAVE                 |                                                    | [DMX] Using the DMX 512 controller to control; [SLAVE] Master–Slave operation.                                        |
| <b>PERSONALITY</b> | UNO VW.D VW.F STD.P                 |                                                    | Use the menu to select desired channel mode                                                                           |
| <b>SETTING</b>     | 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                              |
| <b>CCT</b>         | CCT                                 | 2800K–6000K                                        | Reset color temperatures                                                                                              |
|                    |                                     | WHITE 0–255 COOL 0–255                             |                                                                                                                       |
|                    | CALR                                | OK                                                 |                                                                                                                       |
| <b>INFO</b>        | FIXTURE HOURS                       |                                                    | Hours of fixture use                                                                                                  |
|                    | VERSION                             |                                                    | Software versions                                                                                                     |
|                    | RDM UID                             | 0x2337xxxxxxxx                                     | 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!