

# F4 USER MANUAL

CE



REV 1.0 - 24

English Version

## Caution!



Be careful with your operations. With a dangerous voltage you can suffer a dangerous electric shock when touching the wires!



Avoid looking directly into the light source!

Wear protective glasses and other PPE (personal protective equipment) when working on or near the fixture.



Always make sure you are connecting this product to the proper voltage in accordance with the specifications in this manual or on the product's specification label. Make sure it is grounded when using it!

Unplug mains lead before opening the housing!

Make sure that the power cord is never crimped or damaged by sharp edges. Check the fixture and the powercord from time to time.

Make sure to replace the fuse with another of the same type and rating.



For your own safety, please read this user manual carefully before you initial start-up.

Follow operating safety precautions and pay attention to warning signs methods and equipment on the user manual.



Warning! This symbol indicates a hot surface. Certain parts of the housing can become hot during operation. After use, wait for a cool-down period of at least 10 minutes before handling or transporting the device.

Every person involved with the installation, operation and maintenance of this device has to

- be qualified
- follow the instructions of this manual
- consider this manual to be part of the total product
- keep this manual for the entire service life of the product
- pass this manual on to every further owner or user of the product
- download the latest version of the user manual from the Internet

## Introduction

Thank you for having chosen F4. You will see you acquired a powerful and versatile device.

Unpack your item. Before you initial start-up, please make sure that there is no damage caused by transportation. Should there be any, consult your dealer and do not use the device.

## Safety instructions

This device has left our premises in absolutely perfect condition. 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 written in this user manual. Always disconnect from the mains, when the device is not in use or before cleaning it. Keep away children and amateurs from the device! There are no serviceable parts inside the device. Maintenance and service operations are only to be carried out by authorized deal-

ers.

## Installation

Read 'Safety information' before installing the fixture.

The fixture is designed for indoor use only and must be used in a dry location with adequate ventilation. Ensure that none of the fixture's ventilation slots are blocked.

Fasten the fixture to a secure structure or surface. Do not stand it on a surface or leave it where it can be moved or fall over. If you install the fixture in a location where it may cause injury or damage if it falls, secure it as directed in this user manual using a securely anchored safety cable that will hold the fixture if the primary fastening method fails.

### Fastening the fixture to a flat surface

The fixture can be fastened to a hard, fixed, flat surface that is oriented at any angle. Ensure that the surface and all fasteners used can support at least 10 times the weight of all fixtures and equipment to be installed on it.

Fasten the fixture securely. Do not stand it on a surface or leave it where it can be moved or fall over. If you install the fixture in a location where it may cause injury or damage if it falls, secure it as directed below with a securely anchored safety cable that will hold the fixture if the primary fastening method fails.

### Mounting the fixture on a truss

The fixture can be clamped to a truss or similar rigging structure in any orientation. When installing the fixture hanging vertically down, you can use an open-type clamp such as a G-clamp. When installing in any other orientation, you must use a half-coupler clamp that completely encircles the truss chord.

To clamp the fixture to a truss:

1. Check that the rigging structure can support at least 10 times the weight of all fixtures and equipment to be installed on it.
2. Block access under the work area.
3. Fold the legs of the mounting bracket together and bolt a rigging clamp securely to the mounting bracket. The bolt used must be M10, grade 8.8 steel minimum. It must pass through both mounting bracket legs and be fastened with a self-locking nut.
4. Working from a stable platform, hang the fixture with its clamp on the truss and fasten the clamp securely.
5. Secure the fixture with a safety cable as directed below.

### Securing with a safety cable

Secure the fixture with a safety cable (or other secondary attachment) that is approved for the weight of the fixture so that the safety cable will hold the fixture if a primary attachment fails.

Loop the safety cable through the eyebolt in the back of the fixture and around a secure anchoring point. Do not loop the safety cable around the fixture's mounting bracket only, as this will leave the fixture unsecured if it separates from the bracket.

## Power connection

Power Requirements

The F4 luminaire operates on 100 to 240 volts AC (+/- 10%, auto-ranging). The luminaire contains an auto-ranging power supply.

Connection with the mains:

Connect the device to the mains with the enclosed power supply cable.

The occupation of the connection cables as below:

| Cable color         | Connection           | International                                                                       |
|---------------------|----------------------|-------------------------------------------------------------------------------------|
| <b>Brown</b>        | <b>Live</b>          | <b>L</b>                                                                            |
| <b>Blue</b>         | <b>Neutral</b>       | <b>N</b>                                                                            |
| <b>Yellow/green</b> | <b>Earth(Ground)</b> |  |

## Control Menu Map

After the screen times out, it will automatically turn off the screen and lock the keys (only confirmed long press for 3s can unlock and turn on the screen).

| Menu | Main menu   | Submenu                                                       | Sub-submenu                                                                                                                                                  |
|------|-------------|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DMX  | Address     | 001-512                                                       |                                                                                                                                                              |
| MODE | DMX Mode    | 14CH Compact, 21CH Standard, 26CH High Res, 31CH Full Feature |                                                                                                                                                              |
|      | Auto Mode   | Program                                                       | Gradient, rainbow, fade-in, pulse, automatic                                                                                                                 |
|      |             | Fill Light                                                    | Automatic, sync with main light, breathing, rainbow, chasing, flowing water, strobe, dual-color breathing, rainbow chasing, meteor, wave, starry sky, spiral |
|      |             | Speed1                                                        | Slow, medium, fast, custom                                                                                                                                   |
|      |             | Speed2                                                        | 000-255                                                                                                                                                      |
|      |             | Dimmer                                                        | 000-255                                                                                                                                                      |
|      | Manual Mode | Strobe                                                        | 000-255                                                                                                                                                      |
|      |             | Red                                                           | 000-255                                                                                                                                                      |
|      |             | Green                                                         | 000-255                                                                                                                                                      |
|      |             | Blue                                                          | 000-255                                                                                                                                                      |
|      |             | Lime                                                          | 000-255                                                                                                                                                      |
|      |             | Zoom                                                          | 000-255                                                                                                                                                      |
|      |             | Aux Dim                                                       | 000-255                                                                                                                                                      |
|      |             | Strobe                                                        | 000-255                                                                                                                                                      |
|      |             | Aux R                                                         | 000-255                                                                                                                                                      |
|      |             | Aux G                                                         | 000-255                                                                                                                                                      |
|      |             | Aux B                                                         | 000-255                                                                                                                                                      |
|      |             | Program                                                       | 000-255                                                                                                                                                      |
|      |             | Speed                                                         | 000-255                                                                                                                                                      |
|      | Cto Mode    | 1800K-10000K ( 100K Step)                                     |                                                                                                                                                              |

## F4

| Menu | Main menu           | Submenu                                                                     | Sub-submenu |
|------|---------------------|-----------------------------------------------------------------------------|-------------|
| SET  | Signal Mode         | HOLD/BLACKOUT                                                               |             |
|      | RDM Switch          | ON/OFF                                                                      |             |
|      | Scrn Timeout        | 5s/15s/30s/Permanent                                                        |             |
|      | Key Locked          | ON/OFF                                                                      |             |
|      | Master Slave        | Master/Slave                                                                |             |
|      | Fan Mode            | Automatic/Fixed                                                             |             |
|      | Output Mode         | Full power/Low power/Ultra Silent                                           |             |
|      | Advanced            | ( Password required ) 0-99                                                  |             |
| DIM  | Dim Freq            | 1.2K-24.0K Hz                                                               |             |
|      | Dim Curve           | Linear / Square / Inverse Square / S-Curve                                  |             |
|      | Dim Mode            | Standard/Stage/Television/Architecture/<br>Theater/Studio/Tungsten filament |             |
|      | Dim Time            | Lamp on 0.0S-5.0S<br>Lamp off 0.0S-5.0S                                     |             |
| LANG | Chinese/English     |                                                                             |             |
| ROT  | screen rotation     |                                                                             |             |
| INFO | Lamp<br>information |                                                                             |             |
| RST  | Start/Confirm       |                                                                             |             |

## DMX Protocol

| 14 CH | Mode               | Function                                                   |
|-------|--------------------|------------------------------------------------------------|
| CH1   | Red                | 000-255: 0-100% Red dimming                                |
| CH2   | Green              | 000-255: 0-100% Green dimming                              |
| CH3   | Blue               | 000-255: 0-100% Blue dimming                               |
| CH4   | Lime               | 000-255: 0-100% Lime dimming                               |
| CH5   | Fill light R       | 000-255: 0-100% Fill light dimming                         |
| CH6   | Fill light G       | 000-255: 0-100% Fill light dimming                         |
| CH7   | Fill light B       | 000-255: 0-100% Fill light dimming                         |
| CH8   | Dimming            | 000-255: 0-100% Total dimming                              |
| CH9   | Fill light Dimming | 000-255: 0-100% Fill light dimming                         |
| CH10  | Fill light Strobe  | 000-255: Fill light Strobe                                 |
| CH11  | Fill light Effect  | 000-255: Choose 13 self-propelled effects from 12 segments |
| CH12  | Fill light Speed   | 000-255: Fill light Speed                                  |
| CH13  | Zoom               | 000-255: Electric Zoom                                     |
| CH14  | Function macro     | 000-255: See the table below                               |

| 21 CH | Mode         | Function                           |
|-------|--------------|------------------------------------|
| CH1   | Red          | 000-255: 0-100% Red dimming        |
| CH2   | Green        | 000-255: 0-100% Green dimming      |
| CH3   | Blue         | 000-255: 0-100% Blue dimming       |
| CH4   | Lime         | 000-255: 0-100% Lime dimming       |
| CH5   | Fill light R | 000-255: 0-100% Fill light dimming |

| 21 CH | Mode               | Function                                                   |
|-------|--------------------|------------------------------------------------------------|
| CH6   | Fill light G       | 000-255: 0-100% Fill light dimming                         |
| CH7   | Fill light B       | 000-255: 0-100% Fill light dimming                         |
| CH8   | Dimming            | 000-255: 0-100% Total dimming                              |
| CH9   | Fill light Dimming | 000-255: 0-100% Fill light dimming                         |
| CH10  | Fill light Strobe  | 000-255: Fill light Strobe                                 |
| CH11  | Fill light Effect  | 000-255: Choose 13 self-propelled effects from 12 segments |
| CH12  | Fill light Speed   | 000-255: Fill light Speed                                  |
| CH13  | Strobe             | 000-255: Strobe                                            |
| CH14  | Zoom               | 000-255: Electric Zoom, high byte                          |
| CH15  | Zoom               | 000-255: Electric Zoom, Low Byte                           |
| CH16  | Zoom speed         | 000-255: Electric Zoom speed                               |
| CH17  | Function macro     | 000-255: See the table below                               |
| CH18  | CCT                | 000-255: 0%-100% CCT                                       |
| CH19  | Built-in program   | 000-015: No function                                       |
|       |                    | 016-063: Gradient                                          |
|       |                    | 064-111: Rainbow                                           |
|       |                    | 112-159: Respiration                                       |
|       |                    | 160-207 : Pulse                                            |
|       |                    | 208-255: Self-propelled                                    |
| CH20  | Program speed      | 000-255: Program speed                                     |
| CH21  | Reset              | 000-255: Reset                                             |

| 26 CH | Mode               | Function                                                   |
|-------|--------------------|------------------------------------------------------------|
| CH1   | Red                | 000-255: 0-100% Red dimming                                |
| CH2   | Green              | 000-255: 0-100% Green dimming                              |
| CH3   | Blue               | 000-255: 0-100% Blue dimming                               |
| CH4   | Lime               | 000-255: 0-100% Lime dimming                               |
| CH5   | Fill light R       | 000-255: 0-100% Fill light dimming                         |
| CH6   | Fill light G       | 000-255: 0-100% Fill light dimming                         |
| CH7   | Fill light B       | 000-255: 0-100% Fill light dimming                         |
| CH8   | Dimming            | 000-255: 0-100% Total dimming                              |
| CH9   | Fill light Dimming | 000-255: 0-100% Fill light dimming                         |
| CH10  | Fill light Strobe  | 000-255: Fill light Strobe                                 |
| CH11  | Fill light Effect  | 000-255: Choose 13 self-propelled effects from 12 segments |
| CH12  | Fill light Speed   | 000-255: Fill light Speed                                  |
| CH13  | Strobe             | 000-255: Strobe                                            |
| CH14  | Zoom               | 000-255: Electric Zoom, high byte                          |
| CH15  | Zoom               | 000-255: Electric Zoom, Low Byte                           |
| CH16  | Zoom speed         | 000-255: Electric Zoom speed                               |
| CH17  | Reset              | 000-255: Reset                                             |
| CH18  | CCT                | 000-255: 0%-100% CCT                                       |
| CH19  | Saturation         | 000-255: Bi-color light placeholder                        |
| CH20  | Function macro     | 000-255: 13 color temperature presets                      |
| CH21  | Dimming curve      | 000-255: 4 Dimming curve                                   |

| 26 CH | Mode             | Function                   |
|-------|------------------|----------------------------|
| CH22  | Frequency        | 000-255: 1.2K - 24K Hz     |
| CH23  | Built-in effects | 000-255: Built-in effects  |
| CH24  | Effect speed     | 000-255: Effect speed      |
| CH25  | Dimming time     | 000-255: Dimming time 0-5s |
| CH26  | Dimming mode     | 000-255: 7 modes           |

| 31 CH | Mode                           | Function                                                   |
|-------|--------------------------------|------------------------------------------------------------|
| CH1   | Red                            | 000-255: 0-100% Red dimming                                |
| CH2   | Green                          | 000-255: 0-100% Green dimming                              |
| CH3   | Blue                           | 000-255: 0-100% Blue dimming                               |
| CH4   | Lime                           | 000-255: 0-100% Lime dimming                               |
| CH5   | Fill light R                   | 000-255: 0-100% Fill light dimming                         |
| CH6   | Fill light G                   | 000-255: 0-100% Fill light dimming                         |
| CH7   | Fill light B                   | 000-255: 0-100% Fill light dimming                         |
| CH8   | Dimming                        | 000-255: 0-100% Total dimming                              |
| CH9   | Fill light Dimming             | 000-255: 0-100% Fill light dimming                         |
| CH10  | Fill light Strobe              | 000-255: Fill light Strobe                                 |
| CH11  | Fill light Effect              | 000-255: Choose 13 self-propelled effects from 12 segments |
| CH12  | Fill light Speed               | 000-255: Fill light Speed                                  |
| CH13  | Stroboscopic rate              | 000-255: Stroboscopic rate                                 |
| CH14  | Strobe mode                    | 000-255: Strobe mode                                       |
| CH15  | Pulse width                    | 000-255: Pulse width                                       |
| CH16  | Zoom                           | 000-255: Electric Zoom, high byte                          |
| CH17  | Zoom                           | 000-255: Electric Zoom, Low Byte                           |
| CH18  | Forward rotation speed         | 000-255: Forward rotation speed                            |
| CH19  | Inversion speed                | 000-255: Inversion speed                                   |
| CH20  | Zoom speed                     | 000-255: Zoom speed                                        |
| CH21  | Reset                          | 000-255: Reset                                             |
| CH22  | CCT                            | 000-255: CCT                                               |
| CH23  | Saturation                     | 000-255: reserved for dual-color lights, not parsed        |
| CH24  | Function macro                 | 000-255: 13 color temperature presets                      |
| CH25  | Main and auxiliary mixed color | 000: No function                                           |
|       |                                | 001-085: Auxiliary light follows the main light            |
|       |                                | 086-170: Auxiliary light white                             |
|       |                                | 171-255: Auxiliary light complementation                   |
| CH26  | Dimming curve                  | 000-255: 4 Dimming curve                                   |
| CH27  | Frequency                      | 000-255: 1.2K - 24K Hz                                     |
| CH28  | Automatic program              | 000-255: Automatic program                                 |
| CH29  | Program speed                  | 000-255: Program speed                                     |
| CH30  | Dimming time                   | 000-255: Dimming time 0-5s                                 |
| CH31  | Dimming mode                   | 000-255: 7 modes                                           |

## Function macro

| Value   | Explanation                           |
|---------|---------------------------------------|
| 000-015 | No-functional                         |
| 016-055 | Main light strobe                     |
| 056-075 | Zoom speed                            |
| 076-084 | Fill light, breathing                 |
| 085-092 | Fill light, Rainbow                   |
| 093-100 | Fill light, chase                     |
| 101-108 | Fill light, flowing water             |
| 109-116 | Fill light Strobe                     |
| 117-124 | Auxiliary light, dual-color breathing |
| 125-132 | Fill light, rainbow chasing           |
| 133-140 | Fill light, Shooting star             |
| 141-148 | Fill light, wave                      |
| 149-156 | Fill light, starry sky                |
| 157-164 | Fill light, Spiral                    |
| 165-175 | Fill light, Auto                      |
| 176-191 | Main light gradient                   |
| 192-207 | Main light rainbow                    |
| 208-223 | The main light fades in and out       |
| 224-239 | Main optical pulse                    |
| 240-255 | Automatic rotation effect             |

## Fixture Cleaning

Due to fog residue, smoke, and dust cleaning the internal and external optical lenses and mirror should be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates (i.e. smoke, fog residue, dust, dew). In heavy club use we recommend cleaning on a monthly basis. Periodic cleaning will ensure longevity, and crisp output.

To clean the fixture:

1. Disconnect the fixture from power and allow it to cool for at least 10 minutes.
2. Vacuum or gently blow away dust and loose particles from the outside of the fixture with low-pressure compressed air.
3. Clean the surfaces by wiping gently with a soft, clean lint-free cloth moistened with a weak detergent solution. Do not rub glass surfaces hard: lift particles off with a soft repeated press. Dry with a soft, clean, lint-free cloth or low-pressure compressed air. Remove stuck particles with an unscented tissue or cotton swab moistened with glass cleaner or distilled water.
4. Check that the fixture is dry before reapplying power.

## Fuse Replacement

This fuse is located in a fuseholder next to the MAINS OUT socket on the connections panel.

To replace a fuse:

1. Disconnect the fixture from power and allow it to cool for at least 10 minutes.
2. Unscrew the cap of the fuseholder and remove the fuse. Replace with a fuse of the same size and

rating only.

3. Reinstall the fuseholder cap before reapplying power.

## Troubleshooting

Listed below are a few common problems that you may encounter, with solutions.

The fixture does not work, no light

- Check the connection of power and main fuse. Be sure the external fuse has not blown.
- Measure the mains voltage on the main connector.

## Technical specifications

|                           |                     |
|---------------------------|---------------------|
| Model                     | F4                  |
| Power supply:             | AC100-240V, 50/60Hz |
| LED:                      | 250W                |
| Color temperature:        | 1800K - 10000K      |
| Color:                    | RGBL                |
| Zoom:                     | 25° - 60°           |
| Power connection:         | PowerCON in & out   |
| Signal connection:        | 3-pin XLR in & out  |
| DMX channels:             | 14/21/26/31         |
| Control mode:             | DMX、RDM             |
| Housing:                  | Colour black        |
| Size(barn door excluded): | 233 * 151 * 145 mm  |
| Environment:              | IP65                |

Please note: All information is subject to change without prior notice.

