# SweetPRO FR-12MC

**Best. Nr. SWPFR12MCIP**

**IP65 LED Outdoor Fluterrampe**

# User manual

# SweetPRO

With its compact dimensions and modern elegant design, SweetPRO FR-12MC is ideal for theatrical, live shows and architectural applications.

The new high power RGB full color LED technology allows the creation of a wide range of colours, reduces considerably the consumption and removes maintenance and lamp changing (the medium life of the LED is of 100.000 hours, 10 years in constant use).

**IMPORTANT!**
READ CAREFULLY THE INSTRUCTION LEAFLET IN ALL ITS PARAGRAPHS. THE KNOWLEDGE OF THE INFORMATION AND OF THE LIMITATION HELD IN IT, IS BASIC AND FOUNDAMENTAL FOR A CORRECT AND SAFE USAGE OF THIS PRODUCT.
**IMPORTANT!**
BEFORE ANY (MAINTENANCE, CLEANING ETC.) ACTION, SWITCH OFF THE POWER SUPPLY.
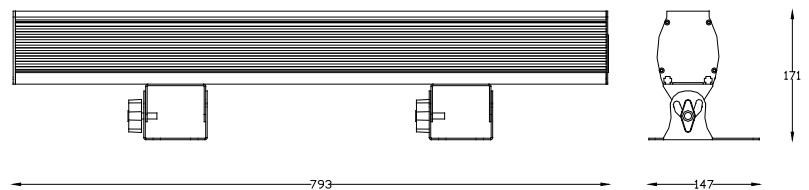**IMPORTANT!**
- This device is suitable for indoor and outdoor use (room temperature cannot be higher than 25°C)
- This device is suitable for direct assembling on normally flammable surfaces.


## Technical specifications                    ## Dimensions

- Body made of die-cast aluminium + steel sheets
- Black epoxy powder coating
- Power supply:100/240V 50/60Hz
- Current: 0,3 A (230v)
- Power: 55 W
- Max power supply: 71VA
- Source: 12 x3 W full color LED
- Average LED life: 100.000 h
- Colour changing: RGB e HSV system
- Functioning: DMX Signal and automatic mode
- Channels: 3/4/6/7 DMX 512
- Weight: 5 Kg

## Installation

The projector can be fixed in any position. For floor installation, lean the projector using the two feet. For suspending use, it is needed to install an appropriate clamp. It must be located in a well ventilated position. Make sure the structure You are fixing the product to can stand the product load.
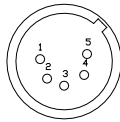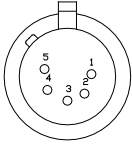
## Accessories

- "c" Clamp

## Connections

The projector is fitted with a power supply cable for power IN, a power supply cable for power OUT with IP65 connectors and two XLR 5 Poles IP65 connectors for DMX IN and OUT signal (Fig.1)

Fig. 1

DMX OUT        DMX IN

**DMX connector:**
1: GND (screen)
2: data –
3: data +
4: NC
5: NC

Any modification to this luminaries, without authorization, is forbidden.
This lantern must be powered according to the voltage and frequency showed on its label (100/240V 50/60Hz). Connect the power cable to the socket. We suggest to connect each projector to its own switch so that they can be individually switched on with a remote control.
To remote control the projectors is required the use of a DMX512 control desk.
For the connection of signal use cable EIA rs-485 type: two core screened, 120Ω characteristic impedance, 22-24 AWG, low capacity, 1 XLR 5 poles MALE connector and 1 XLR 5 poles FEMALE connector.
To form a DMX chain, connect the DMX control desk to the first projector's DMX IN, then from its DMX OUT to the DMX IN of the second projector and so on.
For a correct functioning of the DMX signal, it is necessari to put a terminal into the DMX OUT of the last projector. This terminal is made of 1 XLR MALE connector with a 120Ω resistance welded between PIN 2 and PIN 3.

## Digital display and functioning options

Using the digital display, it is possible to change the functioning options, drive the projector in automatic mode with presets or programs and with Master/Slave functions, display projector information and reset settings to default.
After 30 seconds without working, the display will turn off.

The low right dot is a dmx signal indicator:
- Fixed ON : dmx signal is linked
- Slow flashing: dmx signal is not linked
- Quik flashing: dmx signal is linked but control channels are not enough

## Addressing of the projector

To control many SweetPRO FR-12MC individually, it is necessary to assign to each one a different DMX address , setting the starting channel taking into consideration that one Projector books 7 channels (3 or 4 or 6 or 7 channels depending on the functioning mode set).
For example, if we have 6 projectors, it will be necessary to set them on the channels 1, 8, 15, 22, 29,36.
To set the DMX channel use buttons 'UP' or 'DOWN' until you can see 'Address' on the display , then press 'ENTER'. Change the DMX address using the 'UP' 'DOWN' keys and then press 'ENTER' to confirm.

## Description of the main menu

To scroll the items of this menu use 'UP' and 'DOWN' keys.

| Visualizzation | Option | Description |
|---|---|---|
| **Addr** | DMX addressing | Press 'ENTER' to display the current DMX address. Use 'UP and 'DOWN' keys to change value and press 'ENTER' to confirm or 'ESC' to cancel. |
| **Mode** | Setting of DMX mode | Press 'ENTER', the display will show the current DMX mode. Using 'UP and 'DOWN' keys, change the DMX mode and then press 'ENTER' to confirm. To see all possible settings, see the 'DMX description'. |
| **StdA** | Stand alone functioning | Press 'ENTER' to set the projector in stand alone mode. Press 'UP' and 'DOWN' to select the fixed colour (c) or the program (p) to play. N.B. There is no DMX output. Press 'ESC' to stop this function. |
| **Dmxo** | Automatic functioning with DMX out | Press 'ENTER' to set the projector in stand alone mode. Press 'UP' and 'DOWN' to select the fixed colour (c) or the program (p) to play. N.B. There is DMX output to control other projectors on dmx line. Press 'ESC' to stop this function. |
| **Hi-p** | Boost of LED power | Press 'ENTER' to display the current state of 'Hi-p' function. If it is 'off', the supply of LEDS is 700 mA, if it is 'on' supply of LEDS is 820 mA |
| **Smoo** | Dimming mode | Press 'ENTER' to display the current dimming mode. Change the value using the 'UP or 'DOWN' keys then press 'ENTER' to confirm. If the value is 'off', the dimming will be quick and nervous. If the value is 'on', the dimming will be smooth. |
| **Fan** | Fan settings | On this model there is no effect. |
| **Temp** | Projector temperature | Press 'ENTER' to display the current projector temperature. Press 'ESC' to exit. |
| **Maxt** | Maximum projector temperature | Press 'ENTER' to display the maximum projector temperature from the last time it was turned on. Press 'ESC' to exit. |
| **Unit** | Unit of measurement | Press ' ENTER' to display the current unit of measurement for the temperature. The values can be 'cels' (Celsius) or 'fahr' (Fahrenheit). Press 'UP' or 'DOWN' to change the value and press 'ENTER' to confirm or 'ESC' to exit. |
| **Calr** | Red calibration | Press 'ENTER', set the maximum level for Red using 'UP' and 'DOWN' . Press 'ENTER' to confirm and 'ESC' to exit. |
| **Calg** | Green calibration | Press 'ENTER', set the maximum level for Green using 'UP' and 'DOWN' . Press 'ENTER' to confirm and 'ESC' to exit. |
| **Calb** | Blue calibration | Press 'ENTER', set the maximum level for Blue using 'UP' and 'DOWN' . Press 'ENTER' to confirm and 'ESC' to exit. |
| **Def** | Set all the values to default | Press 'ENTER', select 'reset' using 'UP and 'DOWN' to reset to default all values. Press 'ENTER' to confirm and 'ESC' to exit. |
| **Vers** | Software version | Press 'ENTER' to display the firmware version of the projector. Press 'ESC' to exit. |
| **Sern** | Serial number | Press 'ENTER' to display the serial number of the projector. Press 'ESC' to exit. |
| **PASS** | | |

## Description of the DMX channels:

**mode=RGB6**

| CH 1 | CH 2 | CH 3 | CH 4 | CH 5 | CH 6 |
|------|------|------|------|------|------|
| Red Dimmer 0-100% | Green Dimmer 0-100% | Blue Dimmer 0-100% | Strobe effect at adjustable speed | Rainbow effect at adjustable speed | Master Dimmer 0-100% |

**mode=RGB7**

| CH 1 | CH 2 | CH 3 | CH 4 | CH 5 | CH 6 | CH 7 |
|------|------|------|------|------|------|------|
| Red Dimmer 0-100% | Green Dimmer 0-100% | Blue Dimmer 0-100% | Strobe effect at adjustable speed | Rainbow effect at adjustable speed | Master Dimmer 0-100% | White with color temperature regulation |

**mode=RGB3**

| CH 1 | CH 2 | CH 3 |
|------|------|------|
| Red Dimmer 0-100% | Green Dimmer 0-100% | Blue Dimmer 0-100% |

**mode =HSV**

| CH 1 | CH 2 | CH 3 | CH 4 |
|------|------|------|------|
| Hue | Saturation | Intensity Master Dimmer | Strobe effect at adjustable speed |

**mode= HSV-**

| CH 1 | CH 2 | CH 3 | CH 4 |
|------|------|------|------|
| Hue +white from 251 to 255 | Saturation | Intensity Master Dimmer | Strobe effect at adjustable speed |

**mode= CMY4**

| CH 1 | CH 2 | CH 3 | CH 4 |
|------|------|------|------|
| Cyan Dimmer 0-100% | Magenta Dimmer 0-100% | Yellow Dimmer 0-100% | Strobe effect at adjustable speed |

## Built-in Preset and Programs

| Preset | Colour |
|--------|--------|
| Preset 1 | Red |
| Preset 2 | Orange |
| Preset 3 | Yellow |
| Preset 4 | Light Yellow |
| Preset 5 | Green |
| Preset 6 | Aqua green |
| Preset 7 | Cyan |
| Preset 8 | Azure |
| Preset 9 | Blue |
| Preset 10 | Violet |
| Preset 11 | Magenta |
| Preset 12 | Fucsia |
| Preset 13 | White |

| Program | Colours | Programmed times |
|---|---|---|
| **Program 1** | Red, Magenta, Blue, Cyan, Green, Yellow | Pause time: 8 seconds / Fade time: 0,5 seconds |
| **Program 2** | Green, Azure, Violet | Pause time: 8 seconds / Fade time: 0,5 seconds |
| **Program 3** | Red, Yellow, Blue | Pause time: 8 seconds / Fade time: 0,5 seconds |
| **Program 4** | Blue, Green, Cyan | Pause time: 8 seconds / Fade time: 0,5 seconds |
| **Program 5** | Orange, Blue, Green | Pause time: 8 seconds / Fade time: 0,5 seconds |
| **Program 6** | Magenta, Yellow, Cyan | Pause time: 8 seconds / Fade time: 0,5 seconds |
| **Program 7** | Red, Green, Blue | Pause time: 8 seconds / Fade time: 0,5 seconds |
| **Program 8** | Blue, Cyan, Orange | Pause time: 8 seconds / Fade time: 0,5 seconds |
| **Program 9** | Green, Yellow, Red | Pause time: 8 seconds / Fade time: 0,5 seconds |
| **Program 10** | Red, Magenta, Blue, Cyan, Green, Yellow + Strobe | Pause time: 8 seconds / Fade time: 0,5 seconds |

| Program | Colours | Programmed times |
|---|---|---|
| **Program 11** | Red, Magenta, Blue, Cyan, Green, Yellow | Pause time: 8 seconds / Fade time: 7 seconds |
| **Program 12** | Green, Azure, Violet | Pause time: 8 seconds / Fade time: 7 seconds |
| **Program 13** | Red, Yellow, Blue | Pause time: 8 seconds / Fade time: 7 seconds |
| **Program 14** | Blue, Green, Cyan | Pause time: 8 seconds / Fade time: 7 seconds |
| **Program 15** | Orange, Blue, Green | Pause time: 8 seconds / Fade time: 7 seconds |
| **Program 16** | Magenta, Yellow, Cyan | Pause time: 8 seconds / Fade time: 7 seconds |
| **Program 17** | Red, Green, Blue | Pause time: 8 seconds / Fade time: 7 seconds |
| **Program 18** | Blue, Cyan, Orange | Pause time: 8 seconds / Fade time: 7 seconds |
| **Program 19** | Green, Yellow, Red | Pause time: 8 seconds / Fade time: 7 seconds |
| **Program 20** | Red, Magenta, Blue, Cyan, Green, Yellow + Strobe | Pause time: 8 seconds / Fade time: 7 seconds |

| Program | Colours | Programmed times |
|---|---|---|
| **Program 21** | Red, Magenta, Blue, Cyan, Green, Yellow | Pause time: 24 seconds / Fade time: 0,5 seconds |
| **Program 22** | Green, Azure, Violet | Pause time: 24 seconds / Fade time: 0,5 seconds |
| **Program 23** | Red, Yellow, Blue | Pause time: 24 seconds / Fade time: 0,5 seconds |
| **Program 24** | Blue, Green, Cyan | Pause time: 24 seconds / Fade time: 0,5 seconds |
| **Program 25** | Orange, Blue, Green | Pause time: 24 seconds / Fade time: 0,5 seconds |
| **Program 26** | Magenta, Yellow, Cyan | Pause time: 24 seconds / Fade time: 0,5 seconds |
| **Program 27** | Red, Green, Blue | Pause time: 24 seconds / Fade time: 0,5 seconds |
| **Program 28** | Blue, Cyan, Orange | Pause time: 24 seconds / Fade time: 0,5 seconds |
| **Program 29** | Green, Yellow, Red | Pause time: 24 seconds / Fade time: 0,5 seconds |
| **Program 30** | Red, Magenta, Blue, Cyan, Green, Yellow + Strobe | Pause time: 24 seconds / Fade time: 0,5 seconds |

| Program | Colours | Programmed times |
|---|---|---|
| **Program 31** | Red, Magenta, Blue, Cyan, Green, Yellow | Pause time: 24 seconds / Fade time: 23 seconds |
| **Program 32** | Green, Azure, Violet | Pause time: 24 seconds / Fade time: 23 seconds |
| **Program 33** | Red, Yellow, Blue | Pause time: 24 seconds / Fade time: 23 seconds |
| **Program 34** | Blue, Green, Cyan | Pause time: 24 seconds / Fade time: 23 seconds |
| **Program 35** | Orange, Blue, Green | Pause time: 24 seconds / Fade time: 23 seconds |
| **Program 36** | Magenta, Yellow, Cyan | Pause time: 24 seconds / Fade time: 23 seconds |
| **Program 37** | Red, Green, Blue | Pause time: 24 seconds / Fade time: 23 seconds |
| **Program 38** | Blue, Cyan, Orange | Pause time: 24 seconds / Fade time: 23 seconds |
| **Program 39** | Green, Yellow, Red | Pause time: 24 seconds / Fade time: 23 seconds |
| **Program 40** | Red, Magenta, Blue, Cyan, Green, Yellow + Strobe | Pause time: 24 seconds / Fade time: 23 seconds |

*SweetPRO*

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