



FOS Luminus Polar

USER MANUAL



This product manual contains important information about the safe installation and use of the light. Please read and follow these instructions carefully and keep this manual in a safe place for future reference.

Safety warning information

After receiving the lights, please open to check whether there is any damages caused by transportation. In case of damages caused of transportation, please don't this device and contact your dealer or manufacturer as soon as possible.

The projector is for indoor and outdoor use, IP65.

Do not install the fixtures onto inflammable surfaces directly. 

The fixture is only intended for installation, operation and maintenance by qualified personnel.

Do not project the beam onto inflammable surfaces; the minimum distance is 3 meters.  3m 

Avoid direct exposure to the light from the lamp. The light is harmful to the eyes.

Do not attempt to dismantle and/or modify the projector in any way.

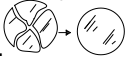
Electrical connections must only be carried out by qualified personnel.

Before installation, ensure that the voltage and frequency of the power supply match the power requirements of the fixture.

It is essential that each projector is correctly earthed and that the electrical installation conforms to all relevant standards.

Do not connect this device to any other types of dimmer apparatus.

The projector should always be installed with a secondary safety fixing. A safety cord is supplied for this; it should be attached as shown in the "installing the projector" section.

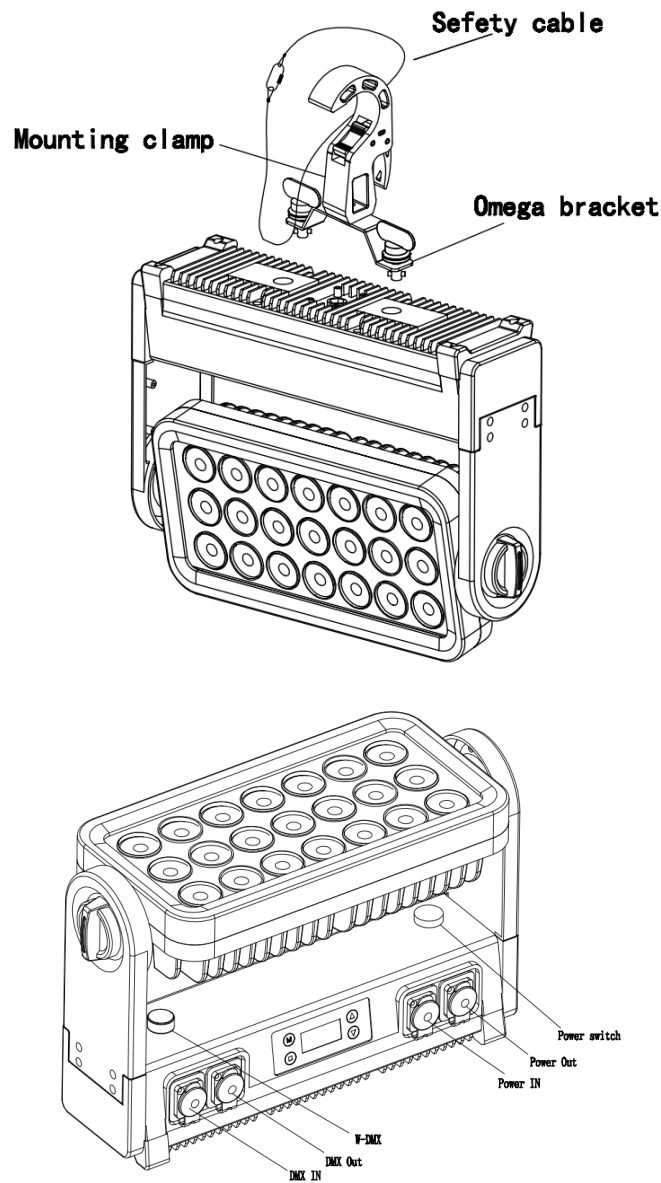
Shields and lenses shall be changed if they have become visibly damaged to such an extent that their effectiveness is impaired, for example by cracks or deep scratches. 

Exterior surface temperatures of the luminaire after 5 minutes operation is 45°C, when steady state is achieved 70°C. There is no user serviceable parts inside the projector, do not open the housing and never operate the fixture with the covers removed.

There is no user serviceable parts inside this light, please check whether all covers or shells have been installed and screws have been tightened securely. It is forbidden to use lights with covers(or shell) open.

If you have any questions, don't hesitate to consult your dealer or manufacturer.

Installation

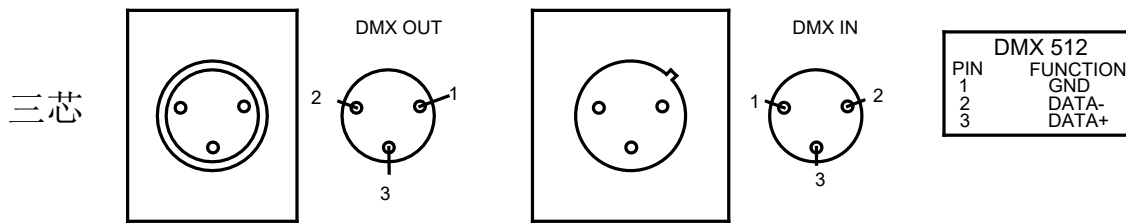


Take out 2 clamps and 1 safety rope, install the 2 clamps on the bottom of the fixture with the 4 quick knob attached to the clamps , then hang the fixture on the fixed support with the clamp, and tighten the clamp lock bolt to fix the fixture. Please confirm that the fixture installation is stable and reliable, and ensure that the hoisting position has sufficient strength to withstand the weight of the fixture. please carry the randomly equipped safety rope through the bottom of the fixture holder for auxiliary hoisting to ensure safety.

Warn:

- 1、 The clamps are only used when install the fixtures. It is strictly forbidden to use the clamps as a handle to carry the fixtures.
- 2、 For safety reasons, please use a safety rope that can withstand 10 times the weight of the fixture through the safety hole of the fixture body.
- 3、 Side hang the fixtures are forbidden .

Signal and power connect



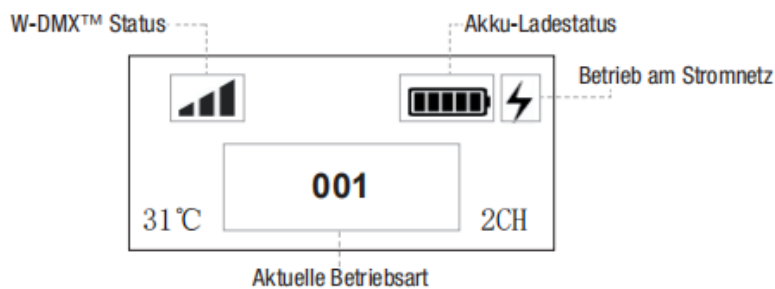
For the connection of control signals, 2-pin shielded cables with a diameter not less than 0.5 mm must be used between the fixture and the controller and between the fixtures. Please use the 3-pin signal output / incoming line of the lamp to connect. The connections between the 3-pin signal line ports are shown in the figure above. It must be noted that the 3 pin of the XLR plug / socket must not be in contact with the inner shell or between the cores when connecting. The XLR plug / socket and the XLR control cable cannot be connected in any other way than the connection shown in the figure above. This product receives the international standard DMX512 (1990) control signal.

The signal connection of multiple fixtures, the maximum number of connection is 32 fixtures, use a 3-pin signal cable from the DMX output port of the controller to the DMX input line of the 1st fixture, and connect from the DMX output line of the first fixture To the DMX input line of the second fixture, and so on, until all the fixtures are connected.

When the first fixture is not connected to the controller (the signal line connection between the other fixtures remain unchanged), it is the connection mode of master-slave synchronous control. However, to achieve master-slave synchronization control, the first fixture should be set as the master in the menu, and the remaining fixtures should be set as slaves (the default value is slave).

When connecting the power supply, the power supply of each fixture should be connected separately. Please note that the power supply voltage and frequency must match with the power supply voltage and frequency listed in the product manual.

Function and installation



Press button **UP** or **DOWN** if you want to browse through the various Setup Options.

Press button **ENTER** to save your settings or enter the next menu.

Press button **UP** or **DOWN** to shift.

Press button **Menu** will return to the upper menu one by one.

DMX address setting

When using the controller to control multiple fixtures, each fixture shall be provided with a DMX address to receive signals from the controller and respond correctly, There are 3 control modes in this product, which are simple mode, standard mode and extent mode.

For example: The fixture has 20 channels at standard mode.

We set the 1st fixture :DMX Address 001, then the 2nd fixture DMX Address 021, the 3rd fixture DMX Address 041, the 4th fixture 61,and so on.

Turn on the fixture, If operating menu is locked, press **ENTER** for 5 Sec, the fixture will be unlocked;

Then press **Menu** , or **UP** or **DOWN** to find AddR menu;

Press **ENTER** , display DMX Address;

Press **UP** / **DOWN** set DMX Address value;

Press **ENTER** to confirm, then the fixture automatically saved this DMX address

Press Menu will return to the upper menu

power-on password: **UP** - **DOWN** **UP** - **DOWN** **ENTER**

Menu

1st LEVEL	2nd LEVEL	1rd LEVEL	1th LEVEL
DMX Address	XXX (1~499)	enter	
Config	Channel mode	4 channel mode	
		9 channel mode	
	OFFLine Show	DMX512 off	
		DMX512 on	
		DMX512 Hold	
		Manual	
		Fix show	
		User Shou	
	LED	LED HZ	600
			1200
			2400
			4800
			9600
			19200
		Dimmer Speed	Auto
			Fast
			Middle
			Slow
		LED Curve	Curve 1
			Curve 2
			Curve 3
			Curve 4
	Flash modle	Percentage	
		Normal	
	Signal select	XLR first	
		Only XLR	
		Only wireless	
		wireless first	
		wireless to XLR	
	Wireless Free	Cancel/ok	
	Parameter	Yes/No	
	Default	Canel / Ok	
	Factory Set	123	
AC Failure	No Action	Last command is retaine	
	Blackout	Activates blackout	
	Full On	All the LEDs have 100% output	
	Stand Alone	Spotlight switches to the last selected stand-alone mode	
Battery runtime Setting	2/4/6/8hour	Lamp usage time setting	
Display	Ch / En	Yes/No	
	Display Dir	Normal	
		Reverse	
		30S	

	Backlight	On
	PassWord	< >
Manual	Red	0-255
	Green	0-255
	Blue	0-255
	Red	0-255
	White	0-255
Auto	Show RGBW	0-255
	Speed RGBW	0-255
Information	RDM UID	
	Version	
	DMX channel	
	Temperature	
	Error	
	Encoder	
	RestCount	

Remarks:

- 1、 Only one fixture can be set to host in one signal line, remove DMX control signal when using host function
2. In the synchronous control of multiple fixtures parameters can be transmitted from the master including: DMX mode, display setting, operation mode (user memory data included); All fixtures accepting parameters will automatically be set to slave mode.

DMX channel list

4 Channel

Channel	Name	DMX Value	DMX Percentage	Description
1	Red	0-255	0-100%	0-100% R
2	Green	0-255	0-100%	0-100% G
3	Blue	0-255	0-100%	0-100% B
4	White	0-255	0-100%	0-100% W

9 Channel

Channel	Name	DMX Value	DMX Percentage	Description
1	Dimmer	0-255	0-100%	0-100%Intensity
2	Shutter	0-255	0-100%	Shutter
3	CTO	0-255	0-100%	CTO
4	Color-Macro	0-255		Color-Macro
5	Red	0-255	0-100%	0-100% R
6	Green	0-255	0-100%	0-100% G
7	Blue	0-255	0-100%	0-100% B
8	White	0-255	0-100%	0-100% W
9	Electronic Frost	0-255	0-100%	0-100% Electronic Frost

Channel priority: dimming> built-in program call > user program call>ARGBW dimming >HSV dimming> Macro Instruction> Color Temperature

Maintenance

To ensure the reliability of the projector it should be kept clean. It is recommended that the fans should be cleaned every 15 days. The lens and dichroic color filters should also be regularly cleaned to maintain an optimum light output. **Do NOT use any type of solvent on dichroic color filters.**

Cleaning frequency depends on the environment in which the fixture operates: damp, smoke or particularly dirty surroundings can cause greater accumulation of dirt on the unit's optics. A soft cloth and typical glass cleaning products should be used in cleaning. It is recommended to clean the external optics at least once every 20 days and clean the internal optics at least once every 30 / 60 days.

Do not use any organic solvent, e.g. alcohol, to clean the reflector mirror, dichroic color filters or housing of the apparatus.

Technical data

LED light source :

Number of LEDs: 21 PCS *15 W RGBW

Working lifetime: 50000h

LED PWM frequency : 800 Hz, 1200 Hz, 2000 Hz, 3600 Hz, 12 kHz, 25 kHz (adjustable)

Input voltage :

AC 100V/120V/200V/220V /230V/240V 50/60Hz

Power :

350W@220V

Power consumption: 200W

Battery voltage: 33.3 V

Battery capacity: 12.4 Ah

Battery power: 412.92 Wh

Battery charge time: 4h

Battery protection: Protection against overloading and deep discharge

Dimmer : 0-100% linear dimming

Strobe : Electric strobe, 0.3-20pcs/sec Max 20 Hz

Control mode:

International standard DMX 512signal, 3 Pin (5 Pin) DMX512 interface RDM

Wireless: 2.4 GHz W-DMX™ (optional)

2-channel modes

Master-slave

Stand-alone mode

Self-test mode

Other functions:

Adjustable horizontal and vertical speed

Display fixture using time

Display software version number

Modular structure for easy maintenance

Speed-regulating radiator

Shell and protection level:

High-strength casting aluminum alloy, IP65 black shell (white optional)

Working temperature:

-20°C~40°C

Weight:

9.85Kg

Product Size

