

10. Maintenance and cleaning

It is absolutely essential that the fixture is kept clean and that dust, dirt and smoke-fluid residues must not build up on or within the fixture. Otherwise, the fixture's light-output will be significantly reduced. Regular cleaning will not only ensure the maximum light-output, but will also allow the fixture to function reliably throughout its life. A soft lint-free cloth moistened with any good glass cleaning fluid is recommended, under no circumstances should alcohol or solvents be used!

DANGER !
Disconnect from the mains before starting any maintenance work

The front objective lens will require weekly cleaning as smoke-fluid tends to building up residues, reducing the light-output very quickly. The cooling-fans should be cleaned monthly.

The interior of the fixture should be cleaned at least annually using a vacuum-cleaner or an air-jet. Dichroic colour filters. Remove dust and dirt from the fans and cooling vents using a soft brush and vacuum-cleaner.

Important! Check the air filters periodically and clean before they become clogged!

Clean two air filters placed in the fixture's covers and two in the fixture base. Use a vacuum cleaner, compressed air or you can wash them and put back dry.

After replacing the air filters, reset the elapsed time counter in the menu "Information" (Information--->Air Filters--->Elapsed Time).

Replacing the fuse. Before replacing the fuse, unplug mains lead.

- 1) Remove the fuse holder on the rear panel of the base with a fitting screwdriver from the housing (anti-clockwise).
- 2) Remove the old fuse from the fuse holder.
- 3) Install the new fuse in the fuse holder (only the same type and rating).
- 4) Replace the fuseholder in the housing and fix it.

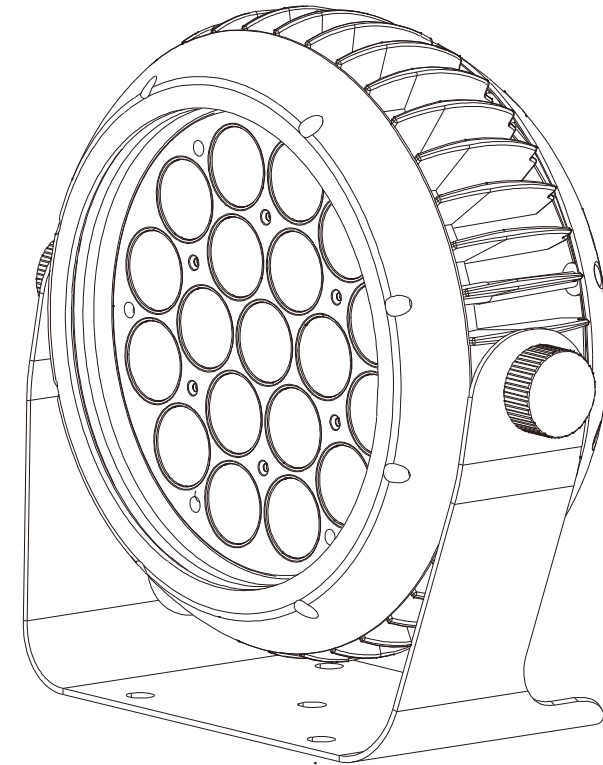
Wireless function

1. Choose the wireless DMX on the light display
"SET" → "Signal setting" → "Wireless DMX" (ULd showed on display)
 2. Wireless transmitter transmits signal, press "UP" and "ENTER" button at the same time on the light display until you see the indicator flashing yellow
 3. Pairing signal in transmitter, would see indicator flashing green on the light display
2. In the Use mode, Description of Status Indicator:

| Protocol | Action | Status Description |
|-----------------------|-------------------|---------------------------------|
| W-DMXReceive Protocol | White | Connection is not Established |
| | Red | Deleting Connection |
| | Red(Fast-Flash) | Connection is Lost |
| | Green(Fast-Flash) | Connecting to Transmitter |
| | Green(Slow-Flash) | Connected, Without DMX Signal |
| | Green | Connected, Receiving DMX Signal |



FOS IQ Par Ip65



Version 1.0

USER MANUAL

- Be sure to read the USER MANUAL carefully before using this product.
- Be sure to keep the USER MANUAL properly for future needs.
- Use this product correctly when you can fully understand the User Manual

1.Safety instructions

Thank you for choosing our FOS IQ Par Ip65 . for your own safety, please read this user manual carefully

BEFORE YOU INITIAL START - UP!

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

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 manual.

CAUTION!
Keep this device away from rain and moisture!
Unplug mains lead before opening the housing!

Important:

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.

Please consider that damages caused by manual modifications to the device are not subject to warranty.

During the operation the housing becomes hot). Allow the fixture to cool approximately 20 minutes prior to manipulate with it.

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

WARNING! This unit does not contain an ON/OFF switch. Always disconnect power input cable to completely remove power from unit when not in use or before cleaning or servicing the fixture.

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.

Always disconnect from the mains, when the device is not in use or before cleaning it. Only handle the power-cord by the plug. Never pull out the plug by tugging the power cord.

This device falls under protection class I. Therefore it is essential to connect the yellow/green conductor to earth.

The electric connection, repairs and servicing must be carried out by a qualified employee.

Do not connect this device to a dimmer pack.

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

During the initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective.

Do not touch the device's housing bare hands during its operation (housing becomes hot)!

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

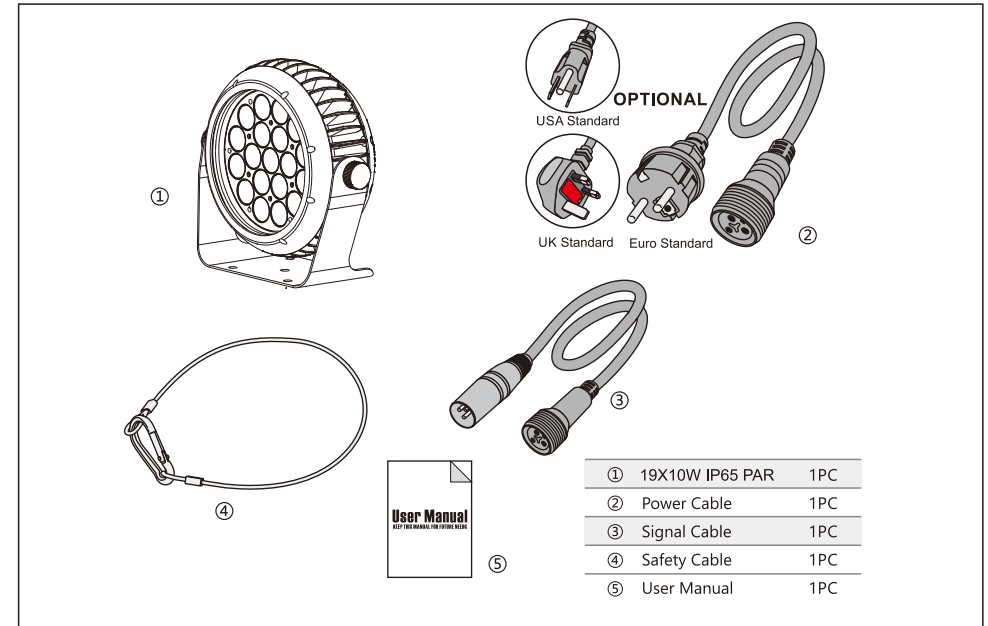
CAUTION ! EYE DAMAGES !
Avoid looking directly into the light source
(meant especially for epileptics) !

| | | | |
|----------|---------------|----------|-------------------------------|
| 27 | 9 | 192..207 | R+G+B+W |
| | | 208..212 | 2700K |
| | | 213..217 | 3200K |
| | | 218..222 | 3500K |
| | | 223..227 | 5000K |
| | | 228..232 | 5500K |
| | | 233..237 | 6000K |
| | | 238..242 | 6500K |
| | | 243..247 | 7000K |
| | | 248..255 | 8000K |
| 28 | 10 | | Color Temp |
| | | 0..15 | No Function |
| | | 16..45 | Below 3200K |
| | | 46..75 | 3200K - 3500K |
| | | 76..105 | 3500K - 5000K |
| | | 106..135 | 5000K - 5500K |
| | | 136..165 | 5500K - 6000K |
| | | 166..195 | 6000K - 6500K |
| | | 196..225 | 6500K - 7000K |
| | | 226..255 | 7000K - 8000K |
| 29 | 11 | | Macro RUN |
| | | 0..15 | No function |
| | | 16..31 | Macro Run 1 |
| | | 32..47 | Macro Run 2 |
| | | 48..63 | Macro Run 3 |
| | | 64..79 | Macro Run 4 |
| | | 80..95 | Macro Run 5 |
| | | 96..111 | Macro Run 6 |
| | | 112..127 | Macro Run 7 |
| | | 128..143 | Macro Run 8 |
| | | 144..159 | Macro Sound 1 |
| | | 160..175 | Macro Sound 2 |
| | | 176..191 | Macro Sound 3 |
| | | 192..207 | Macro Sound 4 |
| 208..223 | Macro Sound 5 | | |
| 224..239 | Macro Sound 6 | | |
| 240..255 | Macro Sound 7 | | |
| 30 | 12 | | Macro Speed |
| | | 0..255 | Macro Speed from Slow To Fast |

| | | | |
|----------|--------------|----------|--|
| 14 | | | UV1 |
| | | 0..255 | 0-100% UV1 dimmer from dark to bright |
| 15 | | | Red2 |
| | | 0..255 | 0-100% Red2 dimmer from dark to bright |
| 16 | | | Green2 |
| | | 0..255 | 0-100% Green2 dimmer from dark to bright |
| 17 | | | Blue2 |
| | | 0..255 | 0-100% Blue2 dimmer from dark to bright |
| 18 | | | White2 |
| | | 0..255 | 0-100% White2 dimmer from dark to bright |
| 19 | | | Amber2 |
| | | 0..255 | 0-100% Amber2 dimmer from dark to bright |
| 20 | | | UV2 |
| | | 0..255 | 0-100% UV2 dimmer from dark to bright |
| 21 | | | Red3 |
| | | 0..255 | 0-100% Red3 dimmer from dark to bright |
| 22 | | | Green3 |
| | | 0..255 | 0-100% Green3 dimmer from dark to bright |
| 23 | | | Blue3 |
| | | 0..255 | 0-100% Blue3 dimmer from dark to bright |
| 24 | | | White3 |
| | | 0..255 | 0-100% White3 dimmer from dark to bright |
| 25 | | | Amber3 |
| | | 0..255 | 0-100% Amber3 dimmer from dark to bright |
| 26 | | | UV3 |
| | | 0..255 | 0-100% UV3 dimmer from dark to bright |
| 27 | 9 | | Macro Color |
| | | | No Function |
| | | 0..15 | Red |
| | | 16..31 | Green |
| | | 32..47 | Blue |
| | | 48..63 | White |
| | | 64..79 | Red+Green |
| | | 80..95 | Red+Blue |
| | | 96..111 | Red+White |
| | | 112..127 | Green+Blue |
| | | 128..143 | Green+White |
| | | 144..159 | Blue+Wtibe |
| 160..175 | R+G+B | | |
| 176..191 | | | |

2.UNPACKING

Please carefully unpack it when you receive the fixture and check whether it is damaged during the transportation. And please check whether the following items are included inside the box:



The FOS IQ Par Ip65 is made of a new type of high temperature strength of engineering plastics and cast aluminum casing with nice outlook . The fixture is designed and manufactured strictly following CE standards, complying with international standard DMX512 protocol. It's available independently controlled and linkable with each other for operation. And it is applicable for large-scale live per formances, theater, studio, nightclubs and discos.

This manual covers the important information on installation and applications. Meanwhile, please keep this manual well for future needs.

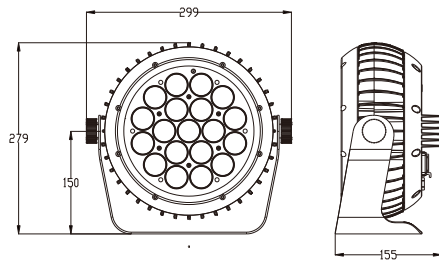
3. TECHNICAL INFORMATION

Features

- 19*12W 6-in-1 LEDs (RGBWAUV)
- 50,000 hours lifespan and low power consumption
- High light output with even color mixing
- 26 degree beam angle
- 0-100% Smooth LED dimmer
- Flicker free control system for TV production and film
- High efficiency LED shutter with variable speed
- Strobe effect with 1-25T/s and pulse effect
- Built-in default programs
- Macro effects
- 30/12 DMX channels USITT MDX-512
- 4-Button LED display control menu DMX512, master-slave and sound activated controllable or auto
- Noise free efficient aluminum cooling system
- IP65 protection rating
- IP rated power connector IN/OUT
- IP rated 3-pin DMX connectors IN/OUT
- 35°C~45°C ambient temperature
- Dual mounting brackets for installation/floor stand
- WDMX operations
- 3 pixels rings

Specifications

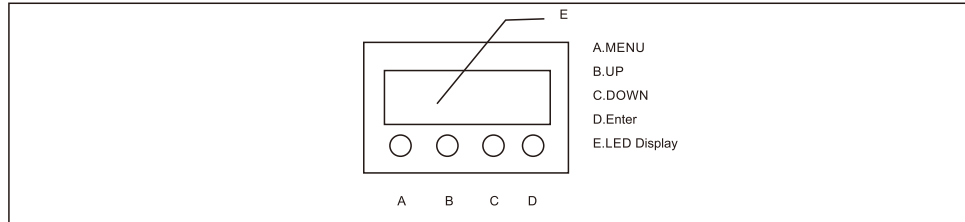
- Input Voltage:** AC90-260V 50/60Hz
- LED Quantities:** 19PCS 6IN1-12W LED
- Control Signal:** DMX512, master-slave and sound activated or auto operation
- Control Channel:** 22/10 DMX Channels USITT DMX-512
- Power Consumption:** 266W
- Dimensions:** 155(D)*299(W)*279(H)mm
- Packing Dimensions:** 370(D)*335(W)*245(H)mm
- Net Weight:** 4.65kg
- Gross Weight:** 5.65kg



9. DMX PROTOCOL

| Mode/Channel | | Value | Function |
|--------------|------|----------|--|
| CH30 | CH12 | | |
| 1 | 1 | | Dimmer |
| | | 0..255 | Dimmer 0%...100% |
| 2 | 2 | | Shutter |
| | | 0..31 | Shutter closed |
| | | 32..63 | shutter open |
| | | 64..95 | Strobe effect slow to fast |
| | | 96..127 | shutter open |
| | | 128..159 | Pulse-effect in sequences slow to fast |
| | | 160..191 | shutter open |
| | | 192..223 | Random strobe effect slow to fast |
| | | 224..255 | shutter open |
| 3 | 3 | | Red |
| | | 0..255 | 0-100% Red dimmer from dark to bright |
| 4 | 4 | | Green |
| | | 0..255 | 0-100% Green dimmer from dark to bright |
| 5 | 5 | | Blue |
| | | 0..255 | 0-100% Blue dimmer from dark to bright |
| 6 | 6 | | White |
| | | 0..255 | 0-100% White dimmer from dark to bright |
| 7 | 7 | | Amber |
| | | 0..255 | 0-100% Amber dimmer from dark to bright |
| 8 | 8 | | UV |
| | | 0..255 | 0-100% UV dimmer from dark to bright |
| 9 | | | Red1 |
| | | 0..255 | 0-100% Red1 dimmer from dark to bright |
| 10 | | | Green1 |
| | | 0..255 | 0-100% Green1 dimmer from dark to bright |
| 11 | | | Blue1 |
| | | 0..255 | 0-100% Blue1 dimmer from dark to bright |
| 12 | | | White1 |
| | | 0..255 | 0-100% White1 dimmer from dark to bright |
| 13 | | | Amber1 |
| | | 0..255 | 0-100% Amber1 dimmer from dark to bright |

8.MENU OPERATIONS

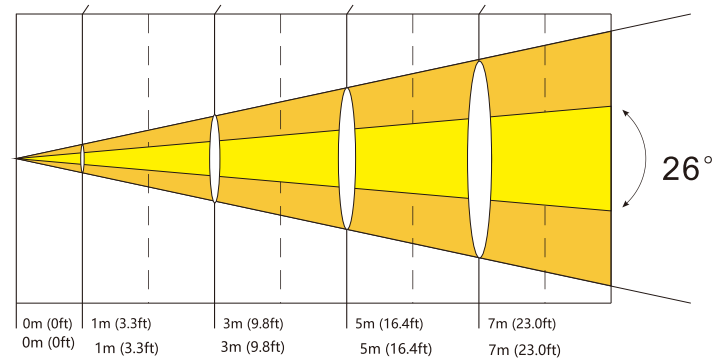


| | | | | | |
|------------|--|-------------|--|-------------------------|-------------|
| MODE | ADDR | VALU | Λ001~AXXX (AXXX) | DMX address setting | |
| | | SLAV | | Slave setting | |
| | AUTO | IP1~8 | ALON/(AU-A) | SP_1~ SP_5 (SPEED) | Auto alone |
| | | | MAST/(AU-M) | SP_1~ SP_5 (SPEED) | Auto Master |
| SOUN | IP1~7 | ALON (SO-A) | | Sound alone | |
| | | MAST (SO-M) | | Sound master | |
| SET | MIC | M-XX | | Mic sensitivity setting | |
| | LODA | ON/OFF | | Reset default | |
| | VER | V-2.0 | | Software version | |
| | CALI | Code (088) | | Calibration code | |
| | | CH03—CH06 | | Calibration channel | |
| Signal Set | Wire DMX Wireless DMX Act WDMX & Out | | Wire DMX Wireless DMX Act WDMX & Out | | |
| DMX | MOD1 | | | 30CH | |
| | MOD2 | | | 12CH | |
| REST | ON/OFF | | | Total reset | |
| MANU | STROBE | | 000-255 | Manual control-strobe | |
| | DIMMER | | 000-255 | Manual control-dimmer | |
| | RED | | 000-255 | Manual control-red | |
| | GREEN | | 000-255 | Manual control-green | |
| | BLUE | | 000-255 | Manual control-blue | |
| | WHITE | | 000-255 | Manual control-white | |
| | AMBER | | 000-255 | Manual control-amber | |
| UV | | 000-255 | Manual control-uv | | |
| TEMP | TXXX | | | Temperature | |

4. PHOTOMETRIC DATA

Photometric Beam Angle Data

| | | LUX | | |
|-----|---------|-------|------|------|
| | | 1M | 3M | 5M |
| 26° | R | 5570 | 670 | 260 |
| | G | 4728 | 609 | 230 |
| | B | 6300 | 820 | 303 |
| | W | 7453 | 983 | 361 |
| | A | 2227 | 258 | 124 |
| | UV | 830 | 88 | 26 |
| | RGBWALV | 26670 | 3286 | 1141 |



5. OPERATION INSTRUCTIONS

- The FOS IQ Par Ip65 is for beam effect for on-site decoration purpose.
- Don't turn on the fixture if it's been through severe temperature difference like after transportation because it might damage the light due to the environment changes. So make sure to operate the fixture until it is in normal temperature.
- This light should be keep away from strong shaking during any transportation or movement.
- Don't pull up the light by only the head, or it might cause damages to the mechanical parts.
- Don't expose the fixture in overheat, moisture or environment with too much dust when installing it. And don't lay any power cables on the floor. Or it might cause electronic shock to the people.
- Make sure the installation place is in good safety condition before installing the fixture.
- Make sure to put the safety chain and check whether the screws are screwed properly when installing the fixture.
- Make sure the lens are in good condition. It's recommended to replace the units if there are any damages or severe scratch.
- Make sure the fixture is operated by qualified personnel who knows the fixture before using.
- Keep the original packages if any second shipment is needed.
- Don't try to change the fixtures without any instruction by the manufacturer or the appointed

6. INSTALLATIONS

Cautions:

For added protection mount the fixtures in areas outside walking paths, seating areas, or in areas where the fixture might be reached by unauthorized personnel.

Before mounting the fixture to any surface, make sure that the installation area can hold a minimum point load of 10 times the device's weight.

Fixture installation must always be secured with a secondary safety attachment, such as an appropriate safety cable.

Never stand directly below the device when mounting, removing, or servicing the fixture.

from a ceiling, or set on a flat level surface (see illustration below). Be sure this fixture is kept at least 0.5m (1.5 ft) away from any flammable materials (decoration etc.).

Always use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.

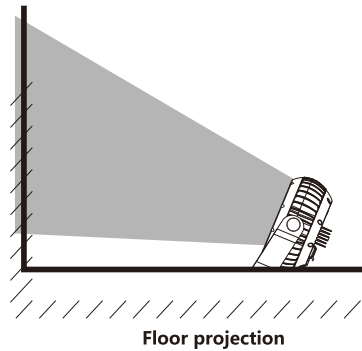
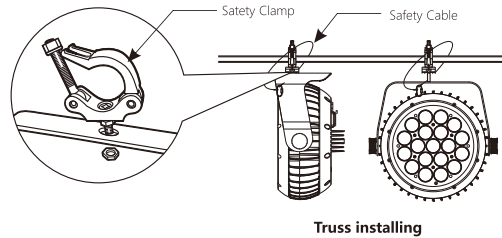
Mounting points:

Overhead mounting requires extensive experience, including amongst others calculating working load limits, a fine knowledge of the installation material being used, and periodic safety inspection of all installation material and the fixture. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.

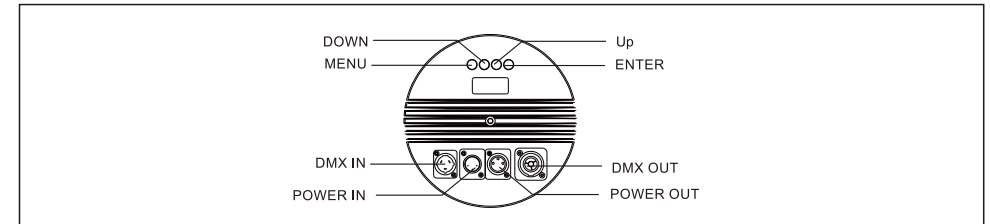
Be sure to complete all rigging and installation procedures before connecting the main power cord to the appropriate wall outlet.

Clamp Mounting:

FOS IQ Par Ip65 provides a unique mounting bracket assembly that integrates the bottom of the base, and the safety cable rigging point in one unit (see the illustration below). When mounting this fixture to truss be sure to secure an appropriately rated clamp to the included omega bracket using a M10 screw fitted through the center hole of the "Hanging Kit". As an added safety measure be sure to attached at least one properly rated safety cable to the fixture using one of the safety cable rigging points integrated in the base assembly.



7. CONTROL CONNECTION



Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the moving head. You can chain multiple Moving head together through serial linking. The cable needed should be two core, screened cable with XLR input and output connectors. Please refer to the diagram below. DMX-512 connection with DMX terminator.

For installations where the DMX cable has to run a long distance or is in an electrically noisy environment, such as in a discotheque, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR plug with a 3 resistor connected between pins 2 and 3, which is then plugged into the output XLR socket of the last fixture in the chain. Please see illustrations below.

