

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, CMY lamellas, gobo and graphic wheels and the internal lenses should be cleaned monthly. 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.

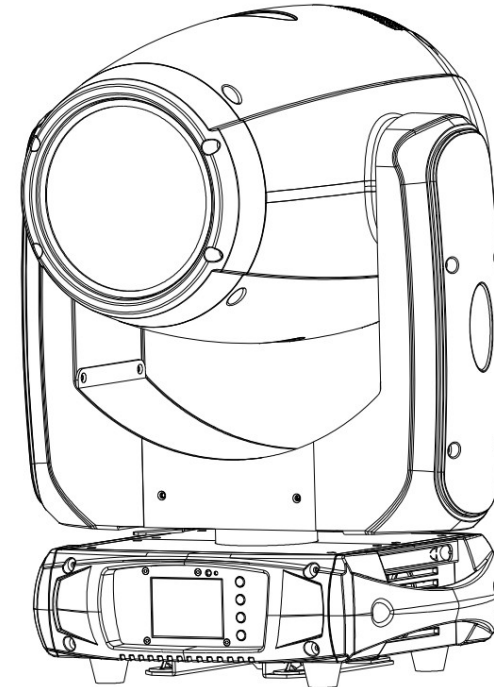
After replacing the air filters, reset the elapsed time counter in the menu "Information" (Information--->Air Filters---->Elapsed Time).

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.



FOS Triton



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.Sicherheitshinweise

Vielen Dank, dass Sie sich für unseren FOS Triton entschieden haben. LESEN SIE ZU IHRER SICHERHEIT DIESE BEDIENUNGSANLEITUNG VOR DER ERSTEN

INBETRIEBNAHME SORGFÄLTIG DURCH!

VORSICHT!

Seien Sie vorsichtig bei Ihren Operationen.
Bei hoher Spannung können Sie beim Berühren der Leitungen einen gefährlichen Stromschlag erleiden!

Dieses Gerät hat unser Haus in absolut einwandfreiem Zustand verlassen. Um diesen Zustand aufrechtzuerhalten und einen sicheren Betrieb zu gewährleisten, ist es für den Benutzer unbedingt erforderlich, die in dieser Anleitung aufgeführten Sicherheitshinweise und Warnhinweise zu befolgen.

VORSICHT!

Halten Sie dieses Gerät von Regen und Feuchtigkeit fern!
Vor Öffnen des Gehäuses Netzstecker ziehen!

Wichtig: Der

Hersteller übernimmt keine Haftung für daraus resultierende Schäden, die durch die Nichtbeachtung dieser Anleitung oder durch unerlaubte Veränderungen am Gerät entstehen.

Bitte beachten Sie, dass Schäden, die durch manuelle Veränderungen am Gerät entstehen, nicht der Gewährleistung unterliegen.

Während des Betriebs wird das Gehäuse heiß). Lassen Sie das Gerät etwa 20 Minuten abkühlen, bevor Sie es mit ii bearbeiten.

Stellen Sie sicher, dass die verfügbare Spannung nicht höher ist als auf der Rückseite angegeben.

WARNUNG! Dieses Gerät verfügt über keinen EIN/AUS-Schalter. Trennen Sie immer das Netzkabel, um das Gerät vollständig von der Stromversorgung zu trennen, wenn es nicht verwendet wird oder bevor Sie das Gerät reinigen oder warten.

Stellen Sie sicher, dass das Netzkabel niemals gequetscht oder durch scharfe Kanten beschädigt wird. Überprüfen Sie von Zeit zu Zeit das Gerät und das Netzkabel.

Trennen Sie das Gerät immer vom Stromnetz, wenn es nicht verwendet wird oder bevor Sie es reinigen. Fassen Sie das Netzkabel nur am Stecker an. Ziehen Sie niemals den Stecker, indem Sie am Netzkabel ziehen.

Dieses Gerät fällt in die Schutzklasse I. Daher ist es unbedingt erforderlich, den gelb/grünen Leiter mit der Erde zu verbinden.

Der elektrische Anschluss sowie Reparaturen und Wartungsarbeiten müssen von einem qualifizierten Mitarbeiter durchgeführt werden.

Schließen Sie dieses Gerät nicht an ein Dimmerpaket an.

Schalten Sie die Leuchte nicht in kurzen Abständen ein und aus, da dies die Lebensdauer der Lampe verkürzt.

Bei der ersten Inbetriebnahme kann es zu Rauch- oder Geruchsentwicklung kommen. Dies ist ein normaler Vorgang und bedeutet nicht unbedingt, dass das Gerät defekt ist.

Berühren Sie das Gehäuse des Geräts während des Betriebs nicht mit bloßen Händen (Gehäuse wird heiß)!

Verwenden Sie zum Austausch nur Lampen und Sicherungen desselben Typs und derselben Leistung.

VORSICHT! AUGENSCHÄDEN!

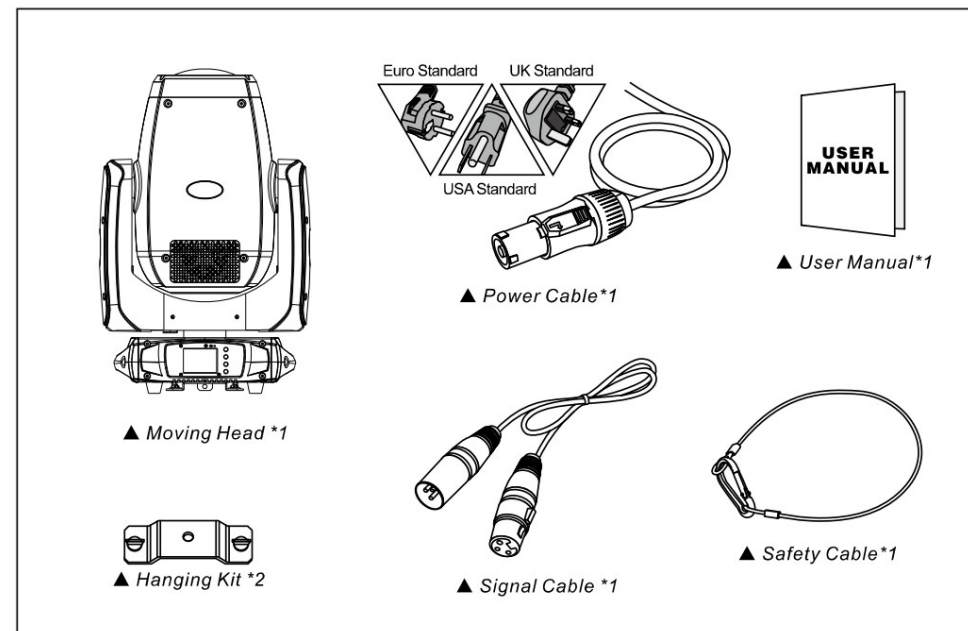
Vermeiden Sie es, direkt in die Lichtquelle zu blicken (besonders für Epileptiker gedacht)!

| | | | |
|------------|--------------------------|------------|--|
| 11 | 9 | | Cyan |
| | | 0 .. 255 | Cyan 0 % ... 100 % |
| 12 | 10 | | Magenta |
| | | 0 .. 255 | Magenta 0 % ... 100 % |
| 13 | 11 | | Gelb |
| | | 0 .. 255 | Gelb0 % ... 100 % |
| 14 | 12 | | CTO |
| | | 0 .. 255 | Auf Bestellung konfigurieren 0 % ... 100 % |
| 15 | 13 | | Fokus |
| | | 0 .. 255 | In/fast bis out(farl) |
| 16 | 14 | | Zoomen |
| | | 0 .. 255 | In/fast bis out(farl) |
| 17 | 15 | | Rotierendes Prisma, Prisma |
| | | 0 .. 5 | AUS |
| | | 6 .. 127 | AN |
| | | 128 .. 189 | Vorwärtsrotation von schnell nach langsam |
| | | 190 .. 193 | Prismenrotationsstopp |
| | | 194 .. 255 | Vorwärtsrotation von schnell nach langsam |
| 18 | 16 | | Frost |
| | | 0 .. 199 | AUS |
| | | 200 .. 255 | Voller Frost |
| 19 | 17 | | Geschwindigkeit |
| | | 0 .. 225 | Max. bis Min |
| | | 226..235 | BO durch X/Y |
| | | 236..245 | BO von Wheel Change |
| | | 246..255 | Keine Funktion |
| | | | Spezialfunktion |
| 20 | 18 | 0 .. 19 | Keine Funktion |
| | | 20 .. 29 | Keine Funktion |
| | | 30 .. 39 | Keine Funktion |
| | | 40 .. 79 | Keine Funktion |
| | | 80 .. 84 | Alle Motoren zurückgesetzt |
| | | 85 .. 87 | Scan-Motor-Reset |
| | | 88 .. 90 | Farben Motor zurückgesetzt |
| | | 91 .. 93 | Zurücksetzen des Gobomotors |
| | | 94 .. 96 | Keine Funktion |
| | | 97 .. 99 | Anderer Motor-Reset |
| | | 100 .. 119 | Internes Programm 1 |
| | | 120 .. 139 | Internes Programm 2 |
| | | 140 .. 159 | Interner Oroaram 3 |
| | | 160 .. 179 | Internes Programm 4 |
| 180 .. 199 | Internes Programm 5 | | |
| 200 .. 219 | Internes Programm 6 | | |
| 220 .. 239 | Internes Orogramm 7 | | |
| 240 .. 255 | Internes Soundprogramm 1 | | |

| | | | | | |
|----------|---|---------------------|---|------------------------|--|
| 6 | 4 | Gobo wheel 1 | | | |
| | | 0..9 | Open | | |
| | | 10..19 | gobo 1 | | |
| | | 20..29 | gobo 2 | | |
| | | 30..39 | gobo 3 | | |
| | | 40..49 | gobo 4 | | |
| | | 50..59 | gobo 5 | | |
| | | 60..69 | gobo 6 | | |
| | | 70..79 | gobo 7 | | |
| | | 80..99 | Gobo 1 shake slow to fast | | |
| | | 100..119 | Gobo 2 shake slow to fast | | |
| | | 120..139 | Gobo 3 shake slow to fast | | |
| | | 140..159 | Gobo 4 shake slow to fast | | |
| | | 160..179 | Gobo 5 shake slow to fast | | |
| | | 180..199 | Gobo 6 shake slow to fast | | |
| | | 200..219 | Gobo 7 shake slow to fast | | |
| | | 220..255 | Rot. gobo wheel cont. rotation slow to fast | | |
| | | 7 | 5 | Gobo 1 rotation | |
| | | | | 0..127 | Gobo indexing |
| | | | | 128..189 | Forwards gobo rotation from fast to slow |
| 190..193 | Gobo rotation stop | | | | |
| 194..255 | Backwards gobo rotation from slow to fast | | | | |
| 8 | 6 | Gobo wheel 2 | | | |
| | | 0..9 | Hole with spot | | |
| | | 10..19 | Gobo 1 | | |
| | | 20..29 | Gobo 2 | | |
| | | 30..39 | Gobo 3 | | |
| | | 40..49 | Gobo 4 | | |
| | | 50..59 | Gobo 5 | | |
| | | 60..69 | Gobo 6 | | |
| | | 70..89 | Gobo 1 shake slow to fast | | |
| | | 90..99 | Gobo 2 shake slow to fast | | |
| | | 110..129 | Gobo 3 shake slow to fast | | |
| | | 130..149 | Gobo 4 shake slow to fast | | |
| | | 150..169 | Gobo 5 shake slow to fast | | |
| | | 170..189 | Gobo 6 shake slow to fast | | |
| 190..255 | Gobo wheel rotation from slow to fast | | | | |
| 9 | 7 | 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 | | |
| 10 | 8 | Dimmer | | | |
| | | 0..255 | Dimmer 0%...100% | | |

2.UNPACKING

The FOS Triton adopts a 350W white LED lamp which features high brightness and stability. 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 Triton 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 performances, 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

SPECIFICATIONS:

- 1* 350W white led lamp, 5800K, 50000 hours life span.
- Input Voltage: AC90-260V 50/60Hz
- Power Consumption: 500W
- Control Signal: DMX512 , RDM, master-slave and sound activated or auto operation (8 built-in programs)
- Control Channel: 20/18 DMX channels USITT DMX-512.
- Dimensions: 379(D)*255(W)*585(H)mm
- Packing Dimensions: 510(D)*470(W)*650(H)mm
- Net Weight: 21.5kgs
- Gross Weight: 24kgs

FEATURES:

- Low power consumption
- Linear motorized zoom with 3.6-36° beam/spot mode, 10-60° frost mode
- 2.5m-15m electric focus
- Linear CMY+CTO
- 8-Facet prism and frost filter
- 0-100% Linear LED dimmer
- Aperture effect: 5% -100% smooth adjustment of the focal length.
- DMX512, master-slave and sound activated or auto operation
- 25T/sec high speed LED shutter/strobe effect with variable speed
- Preset variable/random strobe and dimming pulse effect
- 2,4" TFT LCD display (320*240pix)
- Powercon IN/OUT
- 3-Pin XLR connectors IN/OUT
- IP20 protection rating
- 55dB at 3'dB rating
- 2*1/4 turn fastening Omega clamps
- Safety attachment point

MOVEMENT:

- 8/16 bit smooth and precise resolution for PAN/TILT movement
- 540°/630°/360° / PAN and 270°/180°/90° TILT movement

COLORS:

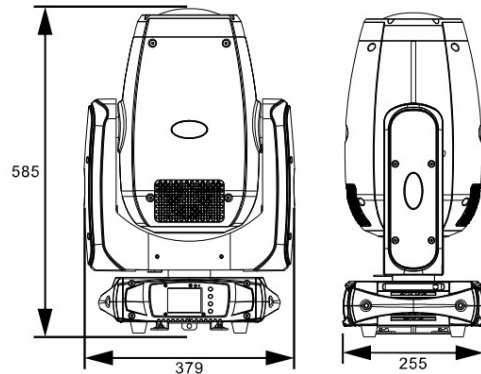
- 1 Color wheel with 10 colors plus open

GOBOS:

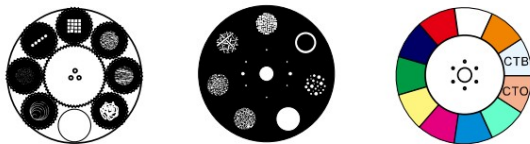
- 1 Static gobo wheel with 6 gobos plus open
- 1 Rotatable gobo wheel with 7 rotatable and interchangeable glass gobos plus open with speed adjustable, stream effect, dithering effect and rotatable clockwise or anticlockwise

FUNCTION:

- Improved optics and flat beam field
- Variable direction rainbow effect with speed adjustable
- Fan cooling system
- Constant temperature readout and management function
- -35°C ~ 45°C max ambient temperature



Gobo Wheel&Color Wheel:



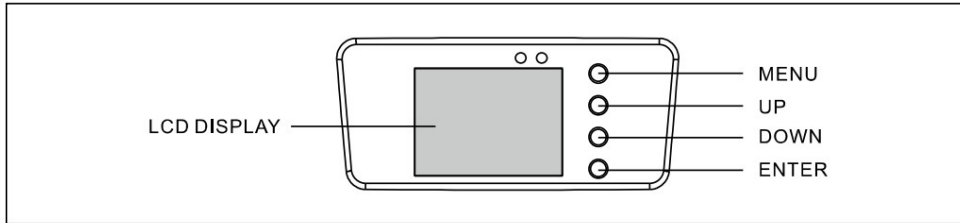
CMY+CTO Wheel

| | | |
|----|---------|------|
| 0% | Cyan | 100% |
| 0% | Magenta | 100% |
| 0% | Yellow | 100% |
| 0% | CTO | 100% |

9. DMX PROTOCOL

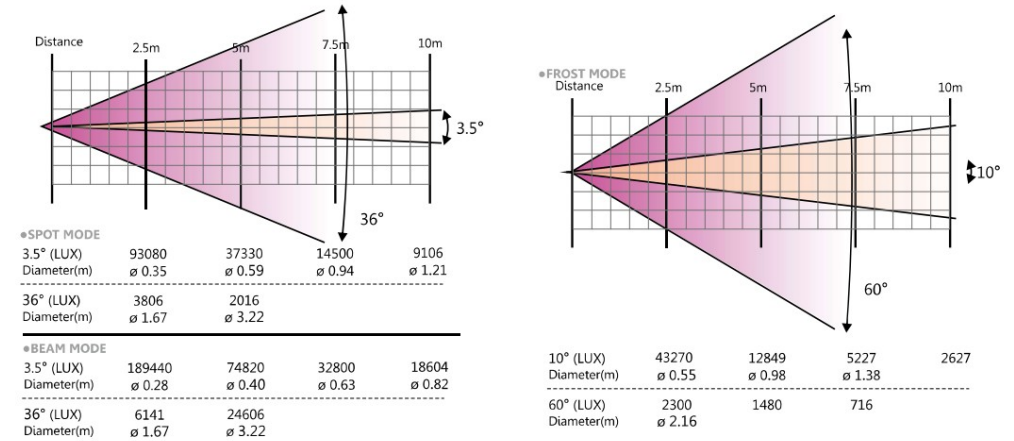
| Mode/Channel | | Value | Function |
|--------------|------|----------|--|
| 20CH | 18CH | | |
| | | | Pan |
| 1 | 1 | 0..255 | PAN Movement |
| | | | Pan-fine |
| 2 | | 0..255 | Fine control of Pan movement |
| | | | Tilt |
| 3 | 2 | 0..255 | Tilt Movement |
| | | | Tilt-fine |
| 4 | | 0..255 | Fine control of Tilt movement |
| | | | Color wheel |
| | | 0..9 | Open / white |
| | | 10..19 | Color 1 |
| | | 20..29 | Color 2 |
| | | 30..39 | Color 3 |
| | | 40..49 | Color 4 |
| | | 50..59 | Color 5 |
| | | 60..69 | Color 6 |
| | | 70..79 | Color 7 |
| | | 80..89 | Color 8 |
| | | 90..99 | Color 9 |
| | | 100..127 | Color 10 |
| | | 128..189 | Forwards rainbow effect from fast to slow |
| | | 190-193 | Color rotation stop |
| | | 194..255 | Backwards rainbow effect from slow to fast |
| | | | Color wheel (Mode 2) |
| | | 0..4 | Open / white |
| | | 5..9 | White + Color 1 |
| | | 10..14 | Color 1 |
| | | 15..19 | Color 1 + Color 2 |
| | | 20..24 | Color 2 |
| | | 25..29 | Color 2 + Color 3 |
| | | 30..34 | Color 3 |
| | | 35..39 | Color 3 + Color 4 |
| | | 40..44 | Color 4 |
| | | 45..49 | Color 4 + Color 5 |
| | | 50..54 | Color 5 |
| | | 55..59 | Color 5 + Color 6 |
| | | 60..64 | Color 6 |
| | | 65..69 | Color 6 + Color 7 |
| | | 70..74 | Color 7 |
| | | 75..79 | Color 7 + Color 8 |
| | | 80..84 | Color 8 |
| | | 85..89 | Color 8 + Color 9 |
| | | 90..94 | Color 9 |
| | | 95..99 | Color 9 + Color 10 |
| | | 100..104 | Color 10 |
| | | 105..127 | Color 10 + White |
| | | 128..189 | Forwards rainbow effect from fast to slow |
| | | 190-193 | Color rotation stop |
| | | 194..255 | Backwards rainbow effect from slow to fast |

8.MENU OPERATIONS



| | MENU | Description |
|-----------------------------|--|---|
| Function Mode | Dmx Address | A001~AXXX DMX address setting |
| | Channel Mode | CH20 Standard mode |
| | | CH18 Vector mode |
| | Auto Run | Internal Program1~9 Internal Program |
| | | State: Master/Alone Auto Run State |
| | | Auto Run (On/Off) Open Auto Run |
| | Music Control | Internal Program1~9 Internal Program |
| | | State: Master/Alone Sound Control State |
| | | Music Run (On/Off) Open Sound Control |
| | Option | Reset Default |
| Signal Set | | Wire DMX Wire DMX |
| | | Wireless DMX Wireless DMX |
| | | Act WDMX&Out Act WDMX&Out |
| Pan / Tilt | | Reverse Pan (On/Off) Reverse Pan |
| | | Reverse Tilt (On/Off) Reverse Tilt |
| | | Select Pan 630°/540°/360° Pan Degree, default is 540° |
| | | Select Tilt 270°/180°/90° Tilt Degree, default is 270° |
| UI SET | | Mic sensitivity 0~99% MIC Sensitivity Setting |
| | | OFF Signal Mode (On/Off) OFF at original status and ON at reset status when no DMX signal |
| | Half Color Wheel(On/Off) Open half color function (Default: off) | |
| Information | Temperature | XXX°C/°F Current Temperature |
| | Software Version | V1.0~V9.9 Software Version |
| Manual Control | Reset | Total Reset Total Reset |
| | | Pan/Tilt Reset Pan/Tilt Reset |
| | | Color Reset Color Reset |
| | | Gobo Reset Gobo Reset |
| | | The Others Reset The Others Reset |
| | Channel | PAN=XXX..... Channel Control |
| Advanced (Access Code 088): | Calibration | PAN=XXX..... Calibration |

4.PHOTOMETRICS DIAGRAM



5.OPERATION INSTRUCTIONS

- The FOS Triton is for beam spot wash 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 repairing agencies.
- It is not in warranty range if there are any malfunctions from not following the user manual to operate or any illegal operation, like shock short circuit, electronic shock, lamp broke, etc.

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.

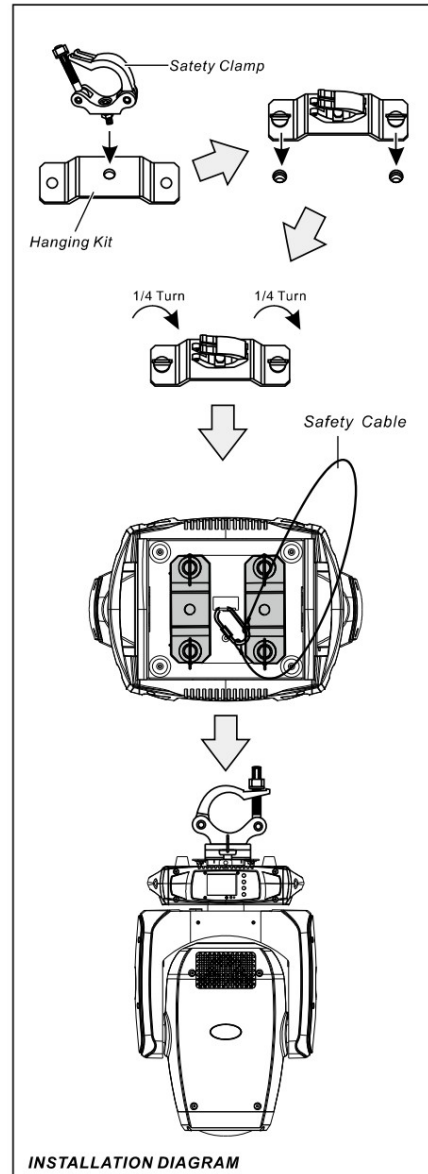
Mounting points:

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.

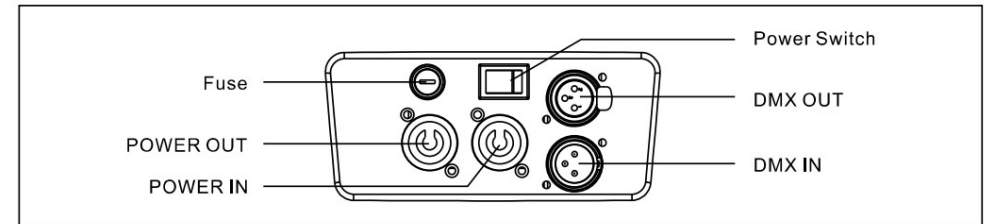
Be sure to complete all rigging and installation procedures before connecting the main power cord to the appropriate wall outlet.

Clamp Mounting:

FOS Triton 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 attach 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.

