




FOS technology PA-2810 IQ Par Zoom Party Light User Manual

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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

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Safety instructions

Thank you for choosing our FOS IQ PAR ZOOM 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 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 the 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 a warranty. During the operation the housing becomes hot). Allow the fixture to cool approximately 20 minutes prior to manipulating it. Make sure that the available voltage is not higher than stated on the rear panel.

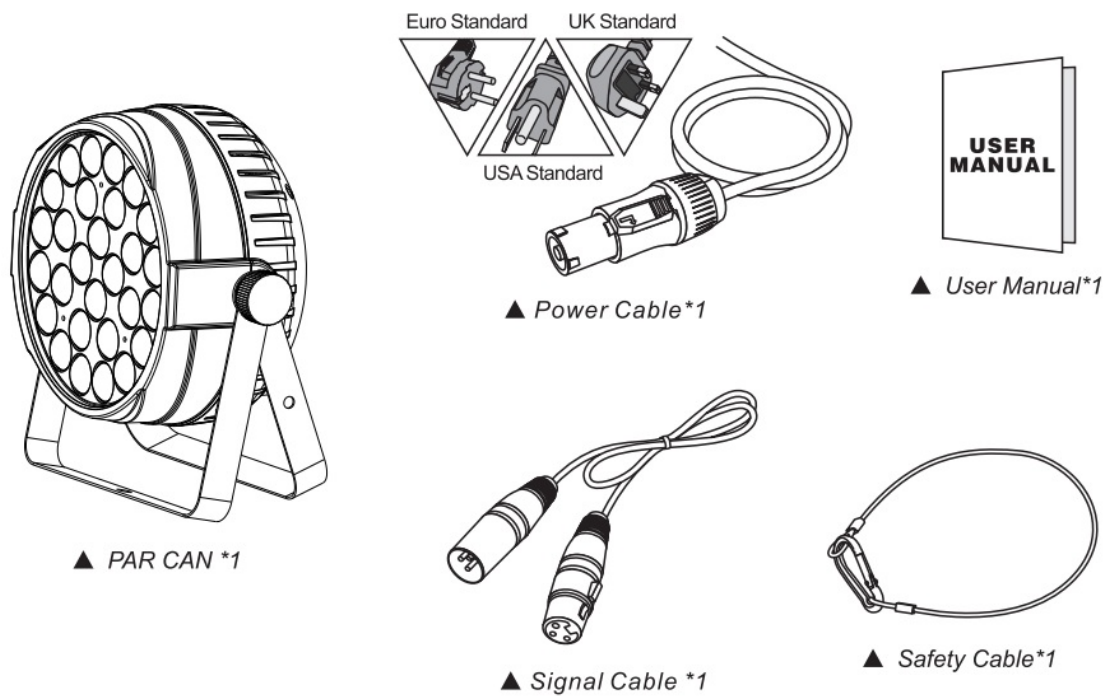
WARNING! This unit does not contain an ON/OFF switch. Always disconnect the power input cable to completely remove power from the unit when not in use or before cleaning or servicing the fixture. Make sure that the power cord is never crimped or damaged by sharp edges. Check the device and the power 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 with bare hands during its operation (housing becomes hot)! For replacement use lamps and fuses of the same type and rating only.

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

UNPACKING

FOS IQ PAR ZOOM adopts 28x12W RGBW LEDs which feature 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:



FOS IQ PAR ZOOM is made of a new type of high-temperature strength engineering plastics and cast aluminum casing with a 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, theaters, studios, nightclubs, and discos. This manual covers important information on installation and applications. Meanwhile, please keep this manual well for future needs.

TECHNICAL INFORMATION

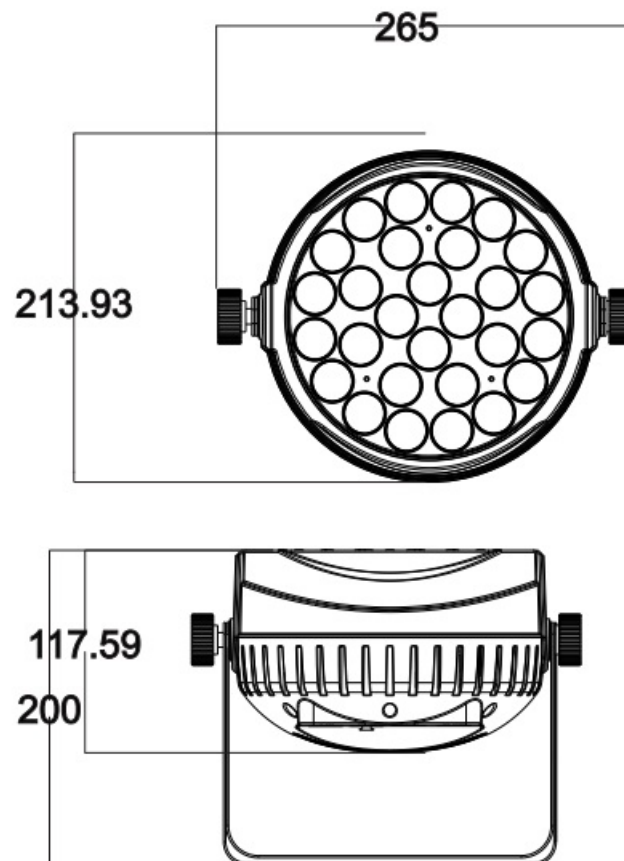
SPFCIFICATIONS

- Powered by 28x12W RGBW LEDs
- Input Voltage: AC90-260V 50-60Hz
- Power Consumption: 285W
- Control Signal: DMX512, master-slave, and sound activated
- Control Channel: 13/29 DMX Channels USITT DMX-512
- Dimensions: 265(D)*213(W)* 117(H)mm
- Packing Dimensions: 325(D)*190(H)*300(H)mm
- Net Weight: 2.54 kgs
- Gross Weight: 3.42 kgs

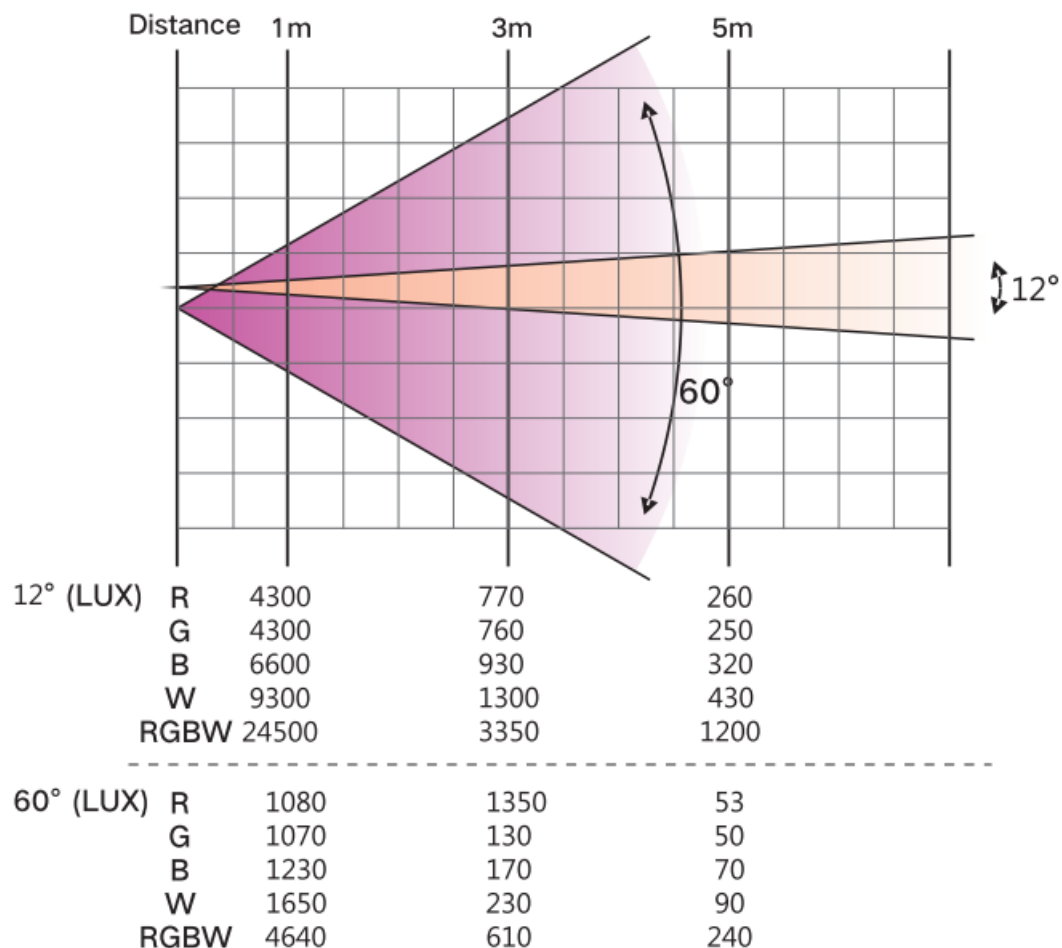
FEATURES.

- 50,000 hours life span and low power consumption
- Engineering grade nylon plastic, flame retardant, and corrosion resistant
- Cooling system
- CTB and CTO, linear color temperature 2800K-8000K changeable
- 16.7million additive RGBW colors whit full saturation control
- Built-in programs that could be called up via a DMX controller
- 25t/s strobe effect and pulse strobe effect

- 0-100% electronic dimming
- 4-button LED display on rear panel
- Dual bracket system available for setting the fixture on the ground or hanging
- POWER CON connector IN/OUT
- 3-Pin XLR connectors IN/OUT
- Overheat protection
- -35 ° C ~ 45 ° C max ambient temperature
- 12-60°Smooth electronic linear zoom



PHOTOMETRICS DIAGRAM



OPERATION INSTRUCTIONS

- FOS IC PAR ZOOM is for wash effect for on-site decoration purposes.
- 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 environmental changes. So make sure to operate the fixture until it is at 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 damage to the mechanical parts.
- Don't expose the fixture to overheating, moisture, or an 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 scratches.
- Make sure the fixture is operated by qualified personnel who know the fixture before use.
- 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.

INSTALLATIONS

Cautions:

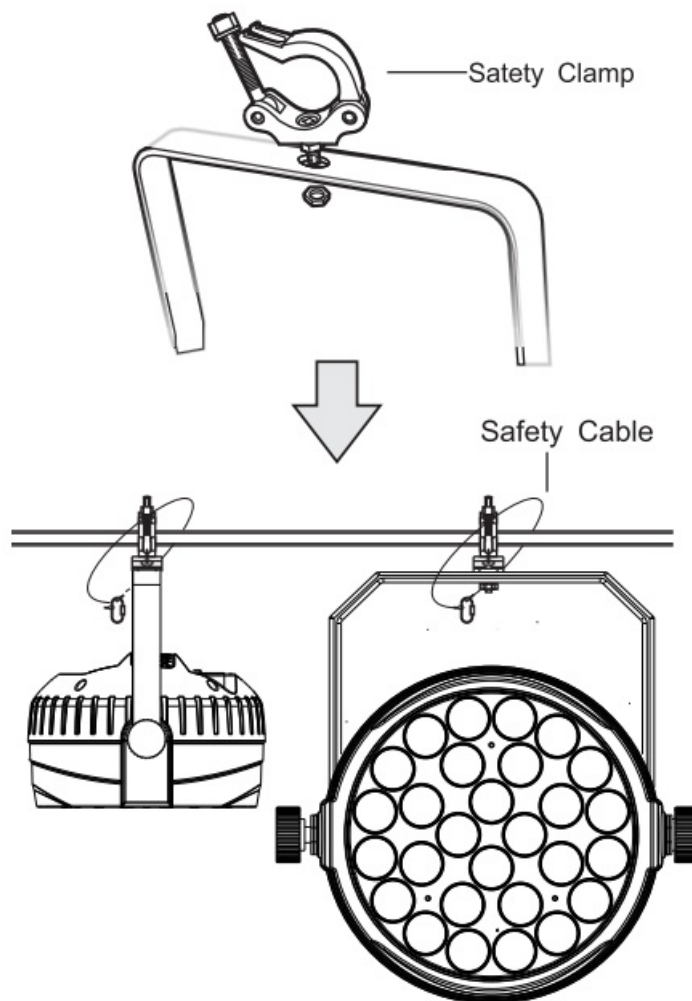
For added protection mount the fixtures in areas outside walking paths, seating areas, or in areas where the fixture might be reached by unauthorized personnel. Before mounting the fixture to any surface, make sure that the installation area can hold a minimum point load of 10 times the device's weight. 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 f t) 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.

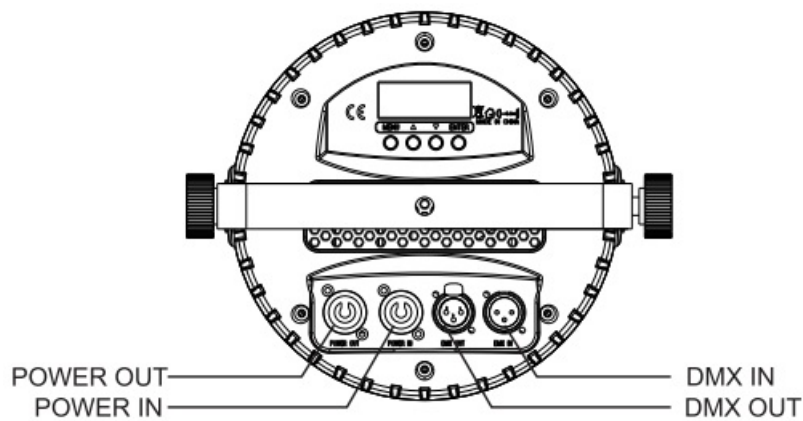
Mounting points:

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.

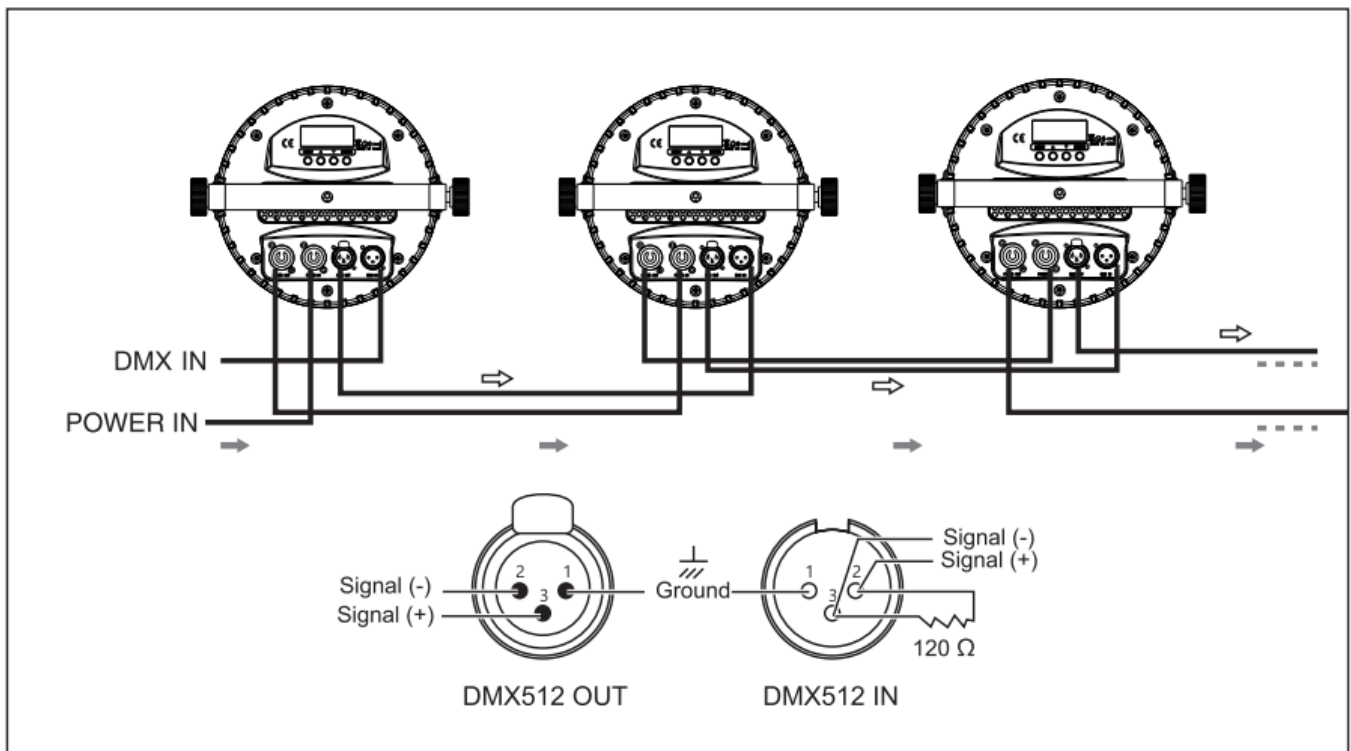
Clamp Mounting:

The FOS IQ PAR ZOOM 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 the truss be sure to secure an appropriately rated clamp to the included omega bracket using an M10 screw fitted through the center hole of the handle. 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 into the base assembly.

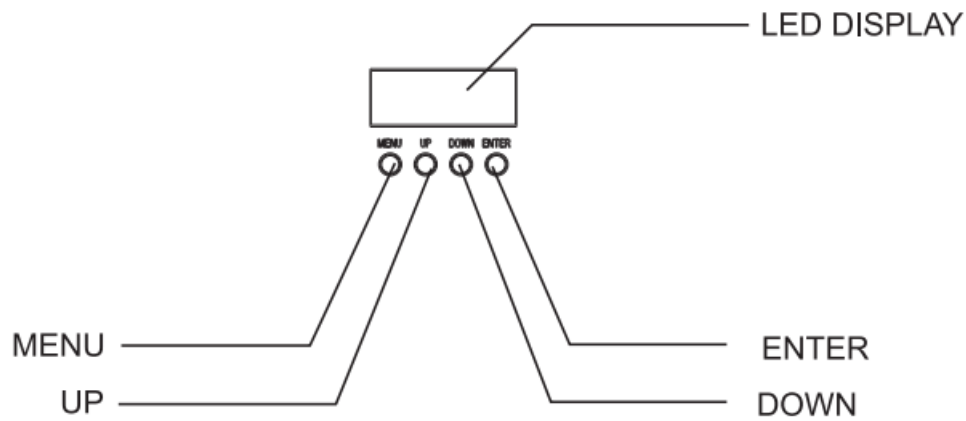
**CONTROL CONNECTION**



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 heads together through serial linking. The cable needed should be two core, screened cables 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 an a3 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 the illustrations below.



MENU OPERATIONS



| | | MENU | Description | | |
|----------|---------|----------------------------------|--------------------|--------------------------------------------|-------------------------|
| RUN MODE | Address | Value | A001 ~ AXXX (AXXX) | | Dmx Setting |
| | | Slave | | | Slave Setting |
| | Auto | Program1 Program8 Spe ed-5 | Alone | Speed-1 ~ Speed- 5(Speed Adjustment) | AutoRun(Alone) |
| | | | Master | | AutoRun(Master) |
| | Sound | Program1-7 | Alone | | Sound Setting(Alone) |
| | | | Master | | Sound Setting(Master) |
| SET | MicSens | M-00-99% | | | Mic Sensitivity Setting |
| | Reload | ON/OFF | | | Reloadall data |
| | Version | V-2.0 | | | Software Version |
| | Cal. | Code (Password 088) | | | Input Password |
| | | CH03—CH06 | | | Calibration |
| | SIG SET | WireDMX | | | WiredInput |
| DMX MODE | CH13 | default | | | CH13 |
| | CH29 | | | | CH29 |
| REST | ON/OFF | | | | reset all |
| TEST | CXXX | | 000-255 | | Manual control |
| TEMP | TXXX | | | | Current temperature |

DMX PROTOCOL

| CH13 | CH29 | | |
|------|------|-------|------------------|
| 1 | 1 | | Dimmer |
| | | 0.255 | Dimmer 0%...100% |
| | | | Shutter |

| | | | |
|---|----|----------|----------------------------------------------|
| 2 | 2 | 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 | | R 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 | | Focus |
| | | 0..255 | In(near) to out(far) |
| | 8 | | Red 1 |
| | | 0.255 | Red in pixel 1 saturation control (0-100%) |
| | 9 | | Green 1 |
| | | 0.255 | Green in pixel 1 saturation control (0-100%) |
| | 10 | | Blue1 |
| | | 0.255 | Blue in pixel 1 saturation control (0-100%) |
| | 11 | | White1 |
| | | 0.255 | White in pixel 1 saturation control (0-100%) |
| | 12 | | Red2 |
| | | 0.255 | Red in pixel 2 saturation control (0-100%) |
| | 13 | | Green2 |
| | | | |

| | | | |
|--|----|--------|----------------------------------------------|
| | | 0..255 | Green in pixel 2 saturation control (0-100%) |
| | 14 | | Blue2 |
| | | 0.255 | Blue in pixel 2 saturation control (0-100%) |
| | 15 | | White2 |
| | | 0.255 | White in pixel 2 saturation control (0-100%) |
| | 16 | | Red3 |
| | | 0.255 | Red in pixel 3 saturation control (0-100%) |
| | 17 | | Green3 |
| | | 0.255 | Green in pixel 3 saturation control (0-100%) |
| | 18 | | Blue3 |
| | | 0.255 | Blue in pixel 3 saturation control (0-100%) |

Maintenance and cleaning

It is absolutely essential that the fixture is kept clean and that dust, dirt, and smoke-fluid residues must not build upon 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 build 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 color 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 them before they become clogged! Clean two air filters placed in the fixture's covers and two in the fixture base. Use a vacuum cleaner or compressed air or you can wash them and put them 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 the 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.
-
1. SWITCHING THE LEDS ON AND OFF The LEDs can be switched on with the button ON and switched off with the button OFF.
 2. ADJUST BRIGHTNESS AND SPEED Use the buttons and to adjust the brightness for the static colors or speed in program mode.

3. SELET BASIC COLOUR

R: Select red colour

G: Select green colour

B: Select blue colour

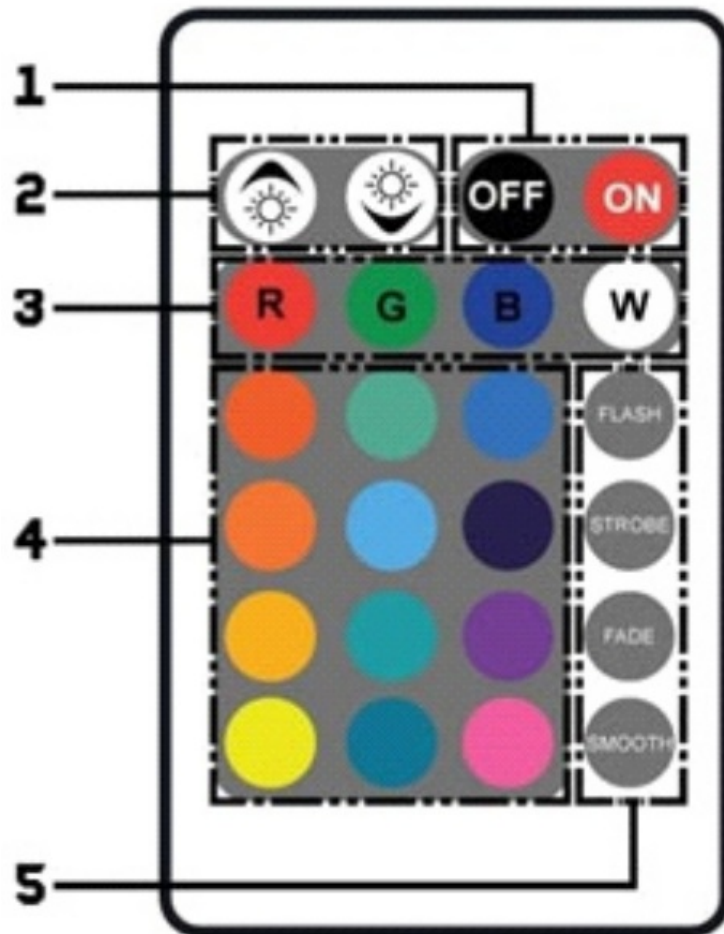
W: Select white colour

4. COLOUR BUTTONS For constant lighting of all LEDs in one colour press the corresponding colour button.

5. SELECTING AN INTERNAL PROGRAM

FLASH: Colour switch

STROBE: Colour strobe



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technologies
Version 1.0

Documents / Resources



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