

LED COLOR ZOOM 54/36

TECHNICAL SPECIFICATIONS

Power supply: 220v/50Hz

Source: High-power RGB LEDs, No light source replacement

Red LEDs:18/12

Green LEDs: 18/12

Blue LEDs:18/12

Luminous Flux:1000 Lumens

Rated life :100.000 hours

Movement: Automatic PAN and TILT reset, Movement :630°(PAN),270°(TILT).

Colors: RGB colour system mixing, 16,7 Million colours (24bit), Pre-programmed colour.

Dimmer strobe: Electronic dimmer from 0 to 100%, High-speed white or strobe effect with 1-25fps flash.

Control: Control by DMX 512protocol via 3-pin XLR. 11 DMX control channels(16bit).

Cooling system: Forced ventilation cooling system. Self-adjusting variable speed fans for quiet operation,

House:Self-extinguishing V0 class fire-retardant ABS pc moulded covers, Aluminum and steel metal plate. Separate LED compartment for easy maintenance, Handle for easy transportation, IP20 protection rating. Exterior finish: black (carbon),white (snow) or grey (Platinum).

Rigging: Fastening system: two Omega Quarter-turn bracketsdesigned for use with standard rigging systems. safety cable attachment point.

Operating parameters: Maximum ambient temperature(Ta):40°C(104°C)

Minimum distance from illuminated surface:0.3m(12in)

Dimension (L x W x H): 415x400x480mm

Weight: 9Kgs

FOREWORD

Thanks for choosing LED COLOR ZOOM

WARNING! This product is not intended for any domestic utilisation.

You own now a professional product with many functions .Before operating the unit ,please make sure that the LED COLOR ZOOM has not suffered any damage during transportation. Should any damage have occurred,please do not use the unit and contact you dealer /retailer immediately.

For your personal and third-party safety ,please read this user's manual carefully before you operate the unit .

Persons involved with the installation ,utilisation or maintenance of the LED COLOR ZOOM must meet the following requirements:

- a) Be qualified to make the this type of intervention.
- b) Comply and follow the instructions contained in this manual.

Once manual has been thoroughly read ,we recommend that you should file it for future reference .

SAFETY INSTRUCTIONS

Before using LED COLOR ZOOM you must first read the safety instructions as well as the precautions to be taken .

CAUTION!ELECTRIC-SHOCK RISK

Handle this product with great care, Unit needs high-voltage tension, That can generate risk of electric shock.

Your LED COLOR ZOOM has left our production facilities perfectly in mint conditions. Should you however detect please contact your dealer/retailer immediately before using the unit.

The manufacturer will not be held responsible for any resulting damage due to the observance of the safety instructions, for the installation or mounting contained in this manual, as well as for any unauthorized modification of the LED COLOR ZOOM.

Non-complying with given safety instructions for installation, mounting and any unauthorized modification of LED COLOR ZOOM will result in the warranty to be voided.

Please verify that the supplied voltage is not exceeding maximum tensions authorized.

Ensure your electric installation complies with norms in force.

Please make sure that power-cable is intact and free from chinks, sharp-edges etc. Handle power-cable with extreme attention.

LED COLOR ZOOM conforms to class 1 of the security norms; earth connection is essential.

Installation and electrical connections must be carried out by qualified personnel. In the event installation is carried out by unqualified persons, the manufacturer declines any responsibility for consequent damage that might occur to the unit.

When disconnect LED COLOR ZOOM, never pull the cable, instead grip on the plug and pull it out gently.

Never disconnect power-cable of LED COLOR ZOOM if your hands are wet or humid.

Make sure that neither objects nor liquid are dropped inside the LED COLOR ZOOM.

When used for the first time, smoke or scent might be emitted from the LED COLOR ZOOM. This is a harmless chemical process that will fade away after a few minutes of utilisation.

ENVIRONMENT UTILISATION

LED COLOR ZOOM is an LED moving-head designated for professional utilisation (Nightclubs, Architectural Lighting Installations, Exhibition-halls, Museum, Tv Studio Productions, Theatres etc.). LED COLOR ZOOM has been designed for indoor use only and on no account must it be utilized in adverse weather conditions, (Snow, rain, etc).

Condensation water might form on LED COLOR ZOOM in some circumstances:

When heat-system is turned-on.

Places with high presence of moisture and very humid condition.

When unit is quickly moved from a cold place to a hot place.

Should moisture form inside the unit(s), then it might not operate correctly. In this event please wait until the unit(s) has reached room temperature.

Avoid shaking the LED COLOR ZOOM handling or during operation.

Do not carry LED COLOR ZOOM by holding the movable-head as internal mechanisms can suffer from serious damage. Always use the purposed carrying-handle located at the back of the base.

The installation point for LED COLOR ZOOM is important. Always make sure that unit is not exposed to heat sources, humidity or dust. Keep away from flammable items and surface. Electrical cables must never be laid on the floor.

The minimum distance to be observed, between the outer lens and the illuminated surface, is of 0,3 Mt.

Do not obstruct ventilation vents. Allow 20 cm room all around the LED COLOR ZOOM to ensure adequate air-circulation.

Room temperature must never exceed 40°C:

LED COLOR ZOOM must be rigged-up and secured to the truss with safety-cord which is to be fitted in

the correct hole located at the bottom of the unit .

Do not use the LED COLOR ZOOM before you are familiar with the given recommendations. Never allow non-authorized & unqualified personnel with any kind of intervention to the unit..

When LED COLOR ZOOM is left idling for a long period ,we strongly recommend it must be turned off.
LED COLOR ZOOM

When LED COLOR ZOOM is to be carried or moved to other locations ,original packaging is to be used.

INSTALLATION

DIFFUSER FILTER INSTALLATION

LED COLOR ZOOM is delivered with an optional diffuser filter to achieve 14°aperture.

When a wider aperture is required ,you may replace the filter and folloiw these instruction:

Loosen front-threaded projector-ring

- a) Make light pressure on the original filter then remove it from housing .
- b) Lay the new filter in place.
- c) Tighten front-threaded projector-ring .

Other types of diffuser can be used depending on applications.It id essential that filter diameter is of 106.6mm.

RIGGING OF THE PROJECTOR

LED COLOR ZOOM can operate if placed on the floor as well as in all positions.Installation position will not affect operations of the unit.

LED COLOR ZOOM is delivered with two Omega aluminium stands .(You will find these parts outside the Polystyrene forms).

When installing LED COLOR ZOOM use the G-clamps with M12 threaded-screw.(G-clamp is not delivered).G-clamps must be approved and must sustain 10 times the weight of the unit .Test G-clamp allowing 1 hour to elapse.which then must not present any sign of distortion.

Never install LED COLOR ZOOM by its carrying –handle.

Install each Omega stand to a G-clamp using a 12M threaded-screw and bolt .Set the two Omega stands on to the base fixing holes A B,C&D, Choose suitable position for your installation .Tighten screw clockwise by 1/4turn.

Before installing LED COLOR ZOOM on the truss,make sure that covers and accessories are firmly secured and tigheneed.

Install LED COLOR ZOOM on the truss by placing base towards area to be illuminated. Make sure to tighten G-clamp firmly.

The use of an additional and independent safety-cord is essential to project accidental failure of the primary suspension ponit .This safety-cord must bear at least 10 times the weight of the unit.The safety –cord must be fitted in the provided hole under the base.

CONNECTION TO MAINS OF THE PROJECTOR

Connect the power-cable of the LED COLOR ZOOM directly to the mains .Never connect unit to dimmer point as unit could be damaged.

A good earth connection of the LED COLOR ZOOM is essential.

Table of possible connections.

Connections		Marks	
wire	core	International	UK
Brown	PHASE	L	Red
Blue	NEUTRAL	N	Black
YELLOW/GREEN	EARTH		Black

To power **LED COLOR ZOOM**, set breaker to position.

DMX 512 CONNECTIONS

Cables must comply with EIA 485 norms. Only use shielded cables twisted in pairs. Never use microphone cables as transmitters are unreliable on long distance .When used for over 300 MT a signal amplifier is recommended.

Connect DMX cable from controller to be the DMX IN base of the first LED COLOR ZOOM.

Set-up now a DMX chain as follow; Connect DMX cable between the DMX-out of the first LED COLOR ZOOM and DMX-input of the second LED COLOR ZOOM of the relevant DMX chain .Now repeat operation to connect all the projectors.

To ensure reliable transmission information ,make sure to end-up last dmx-cable with a terminal. To accomplish with this operation ,solder a 120 Ohm resistor between cores 2&3 of a 3-pin XLR-plug. This terminal must be situated on the DMX-output of the last LED COLOR ZOOM DMX-line.

PROTOCOL

DMX CHANNEL

CH1: Pan

CH2: Tilt

CH3: PAN 16bit

CH4: TILT 16bit

CH5: Speed of Pan/Tilt movement

CH6: RESET

CH7: Red

CH8: Green

CH9: Blue

CH10: Strobe

CH11: Demo

CH12: DIM. -

Display and function buttons

□ Press the Mode button and select from the functions:

A001 - DMX 512 Address settings:

Use the **Up** and **Down** buttons to select required address and press **Enter** to confirm or **Mode** to cancel and return to the main menu.

Re-1 – programme version

(No function, just show the model with which programme version)

PAN - Pan Reverse

With this function you can reverse the Pan-movement.

Press the **Mode** button and select „**PAN**“.

Press the **Up** button to select “**y**” if you wish to enable this function or press the **Down** button to select “**n**” if you don't.

Press **Enter** to confirm.

TIL - Tilt Reverse

With this function you can reverse the Tilt-movement.

Press the **Mode** button and select „**TIL**“.

Press the **Up** button to select “**y**” if you wish to enable this function or press the **Down** button to select “**n**” if you don't.

Press **Enter** to confirm.

DEM - Demo operation

In the Stand Alone mode, the LED COLOR ZOOM can be used without controller. Disconnect LED COLOR ZOOM from the controller and call up the internal program.

Press the **Mode** button and select „**DEM**“.

Press the **Up** button to select “**y**” if you wish to enable this function or press the **Down** button to select “**n**” if you don't.

Press **Enter** to confirm.

RST - Reset Function

This option enables the LED COLOR ZOOM to index all effects (functions) and return to their standard positions.

Press the **Mode** button and select „**RST**“.

Press the **Up** button to select “**y**” if you wish to enable this function or press the **Down** button to select “**n**” if you don't.

Press **Enter** to confirm.

DIS - Display-reverse

With this function, you can rotate the display by 180°.

Press the **Mode** button and select „**DIS**“.

Press the **Up** button to select “**y**” if you wish to enable this function or press the **Down** button to select “**n**” if you don't.

Press **Enter** to confirm.

SERVICE & MAINTENANCE

Service & Maintenance of your LED COLOR ZOOM must be carried –out by qualified and skilled persons.

LED COLOR ZOOM projector needs periodical check-up that essentially depends on the environmental status. Dusty areas and the presence of oily particles produced by fog-generators, can affect the correct operation of LED COLOR ZOOM. This may lead the unit to overheat or other serious damage that will not be covered by the warranty.

WARNING! Always disconnect power before any operation

CLEANING OF THE OPTICS

It is essential that optics-components of the LED COLOR ZOOM are regularly cleaned. dust and liquid –particles from fog –generations can reduce light –output efficiency.

- 1) DISconnect power-cable from MAINS
- 2) Unscrew front-ring of the projector
- 3) Use compressed-air pistol to blow laid dust-particles away from venting –grids located on the peripher of the lenses.
- 4) Use soft dump cloth to clean diffusion fitter &secondary optics.
- 5) re-install front ring of the projector

Never use solvent or denatured alcohol for cleaning the optical-systems .The use of distilled-water or galass-detergent is recommended.

CLEANING OF VENTING –GRIDS

It is essential to remove all dust laid on the venting-grids .For a perfect air-flow though the venting –grids of LED COLOR ZOOM ,remove dust of a compressed-air pistol.

Disconnect power-cable from MAINS

Use a compressed-air pistol to blow laid dust-particles away from venting –grids located beneath the head .as well at the back and beneath the base of the Projector.

Use soft dump cloth to clean venting-grids.

Your LED COLOR ZOOM is equipped with a ermanent built-in temperature probe.keeping venting-grids clean will reduce fan speed rotation thus reducing noise.

SURVEILLANCE

Your instatllation must be regularly checked by a qualified sub-contractor.We strongly recommend that the following points are regularly checked every year by qualified personnel:

- 1) Projector fixing system must be installed correctly,ensure that no parts show rust or corrosion.In the event they do,please replace with brand new parts immediately.
- 2) Projector installation holder must not show any deformation and no process of rust and corrosion.
- 3) Security cords must be secured to the provided housing.
- 4) All mechanical parts must not show any sign of wear & tear.
- 5) Electric cables must be free cuts.chinks,sharp-edges and wear & tear.