

Ref. No.: 150.520

**MHL-45 DMX Mini Moving Head
Wash
3X 15W COB LED DMX**



MANUAL

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UNPACKING INSPECTIONS

Unpacking instructions

- Please unpack the carton and check the goods carefully when you receive it , if discover packing damage, shortage or quality problem, please notify the shipper and reject the goods.
- Before using this product, please read the instructions carefully and keep it in a safe place for future reference.

Safety Instructions

- Safety and regulatory power socket with high quality output should be used .
- Always connect the product to a grounded circuit to avoid the risk of electrocution.
- Never put tiny metal objects such as a screwdriver, iron wire and coins, etc. into the internal or stretch into the machine in case of short circuit .
- Please make sure to connect the proper voltage and do not higher or lower than that stated on the decal or rear panel of the product .
- Avoid hitting, crashing or squeezing with other objects in transportation. Never carry the product from the power cord or any moving part . Always use the hanging / mounting bracket or the handles.
- Never pull or tug on the cord and change it for another one , stop using it when it is damaged or becomes hot .
- Stop using the product once there is sparks when connecting with the power plug .
- Make sure there are no flammable materials close to the fixture while operating . Always install it in a location with adequate ventilation.
- Never replace the lighting source with different specification and rating when the original one is damaged.
- Make sure to power off before replacing the light source or the fuse. Never do it while it is on.
- The ambient temperature is no more than 40°C(104°F) .
- Never clean the fixture by water, thinner or other dissolved agent .
- Stop using the product in case of a serious operating problem and send it to our maintenance agent immediately. Never repair by non-professional workers .
- Avoid direct eye exposure to the light source while the product is on.

SPECIFICATION

TECHNICAL SPECIFICATIONS

Model	C315 COB moving wash
Voltage	110V- 250V / 50-60Hz
Power consumption:	65W
LED	3pcsX15w RGB 3 in 1 COB LEDs
Gross Weight	3.5Kgs

Features

11 channel DMX-512 .
Pan :630° /tilt:180° .
Variable electronic strobe.
Variable electronic dimmer(0-100%).
LED display menu with invert.
Reset to factory settings option.
Pan/tilt invert option.
Fan cooled.

Dimensions	28(H) x 22(W) x 27(L) mm
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INSTALLATION

Rigging

The installation of the projector has to be built and constructed in a way that it can hold 10 times the weight for 1 hour without any harming deformation.

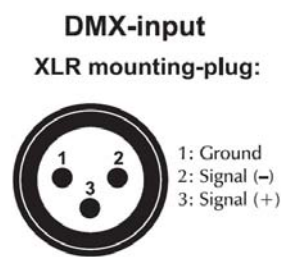
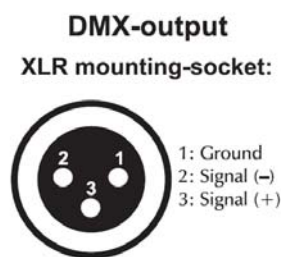
IMPORTANT!OVERHEAD RIGGING REQUIRES EXTENSIVE EXPERIENCE, including calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the projector. If you lack these qualifications, do not attempt the installation yourself, but instead use a professional structural rigger. Improper installation can result in bodily injury and or damage to property. The projector had to be installed out of the reach of people

DANGER OF FIRE! When installing the device, make sure there is no highly-inflammable material(decoration articles, etc.)within a distance of min.0.5m.

DMX 512 connection/ connection between fixture


The wires must not come into contact with each other, otherwise the fixture will not work at all or properly. Please note the starting address depends upon which controller is being used. Only use a DMX cable and 3-pin XLR-plugs and connectors in order to connect the controller with the fixture or one fixture to another

Occupation of the XLR-connection:



Connection with the mains.

The occupation of the connection-cables is as follows:

Cable	Pin	International
Brown	Live	L
Blue	Neutral	N
Yellow/Green	Earth	

The earth has to be connected. The device must only be connected with an electric installation carried out in compliance with IEC standards.

OPERATION

After you connected the effect to the mains, The fixture starts running

Stand Alone operation

In the stand alone mode, the fixture can be use without controller

Master/slave-operation

The master/slave-operation enables that several devices can be synchronized and controlled by one master-device

DMX controlled operation

You can control the projectors individually via your DMX-controller

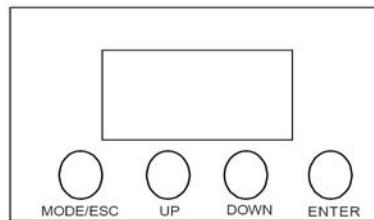
Addressing

The control board allows you to assign the DMX starting address,

Note;it's necessary to insert the XLR termination plug (with 120ohm) in the last device in the link in order to ensure proper transmission on the DMX data link.

CONTROL BOARD

The control board offer several features :you can simple set the starting address, run the pre-programmed program or make a reset



he main menu is accessed by pressing the Mode/Esc-button, Browse through the submenu by pressing Up or Down .Press the Enter-button in order to select the desired menu. You can change the selection by pressing Up or Down, Confirm every selection by pressing the Enter-button. You can leave every mode by pressing the Mode/Esc-button .The functions provided are described in the following setting.

MENU MAP

The device has two operation modes, It can be operated in Stand Alone or in DMX controlled

A001 (address code setting from A001-----A512)

AU01(auto-moving speediness)

AU02(slow speed auto-moving)

SN01(Sound control for color changing)

SN02(Sound control for strobe)

RPOF(Set pan to forward-rotating)

RPON(Set pan circumrotate reverse)

RTOF(Set tilt to forward-rotating)

RTON(Set tilt circumrotate reverse)

RDOF(set the LED readout to non-inverting)

RDON(Set the LED readout to inverting)

DFON (Default output setting)

Note: output default setting address code is A001, pan is positive circumrotate, tilt is positive circumrotate, LED positively reveal.

User configurations

Setup single-desk light's autocephaly moving mode(auto-running)

- .Press the **MENU** until it shows **AU01**
- .Use the **UP/DOWN** buttons to set to **AU01** or **AU02** ,Press **ENTER** to confirm.

Setup single-desk light's autocephaly moving mode(sound control)

- .Press the **MENU** button until it shows **SNOF** .
- .Use the **UP/DOWN** buttons to set to **SNOF** ,press **ENTER** to confirm.

Master/slave mode(auto-running, sound control)

- .This mode will allow you to link up 32 units together without a controller.
- .Use standard DMX cables to daisy chain your units together via the DMX connector on the rear of the units.Proper performance it may be necessary to use a terminator at the last fixture. For more information about terminators..
- Set the desired master-mode-** "Automatic program mode" or"sound controlled mode", for the master-device, send the DMX address 1 for all slave-devices. Please refer to the instruction under control board.

To set the pan to reverse

- .Press the **MENU** until it shows **RPOF**.
- .Use the **UP/DOWN** buttons show **RPON**, press **ENTER** to confirm.

To set the tilt to reverse

- .Press the **MENU** until it shows **RTOF**
- .Use the **UP/DOWN** buttons show **RTON**, press **ENTER** to confirm.

To set the LED readout to 180° ,rotating

- .Press the **MENU** until it shows **RDOF**.
- .Use the **UP/DOWN** buttons show **RDON**, press **ENTER** to confirm.

Resume reverse Windows default

- .Press the **MENU** until it shows **DFON**.
- .press **ENTER** to confirm.

DMX-protocol

11 DMX channel mode

Channel	Value	Function
1	0-255	Pan Pan movement 0~630
2	0-255	Tilt Tilt movement 0~180
3	0-255	Pan Tilt speed Pan & Tilt speed adjustment
4	0-255	Red 0-100% Red
5	0-255	Green 0-100% Green
6	0-255	Blue 0-100% Blue
7	0-40 41-80 81-120 121-140 141-160 161-200 201-255	Color Change Neutral Red Green Blue Green/Blue Green Red/Blue
8	0-10 11-20 21-30 31-200 201-250 251-255	Switching the LEDs/Strobe/Reset LED OFF Neutral Reset Strobe-effect with increasing speed Random strobe-effect with increasing speed Neutral
9	0-255	Dimmer 0-100% Dimmer
10	0-255	Pan Fine Pan fine
11	0-255	Tilt Fine Pan fine

0-40, no function, 41-80,red. 81-120,red/blue. 121-140,blue.
141-160,green/blue.161-200,green. 201-255, red/green



CE Declaration of Conformity

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Product number: **150.520**
Product Description: **MHL-45 Wash 3x15W COB LED DMX**

Regulatory Requirement: EN 60598-1/-2-17
EN 55015
EN 61547
EN 61000-3-2/-3-3
EN 300 440-1/-2

The product meets the requirements stated in the above mentioned Standards.

13-12-2012

Signature :