160W Beam Spot Wash 3IN1 LED Moving Head Light

CAUTION! Keep this device away from rain and moisture!

FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY

BEFORE YOU INITIAL START - UP!

1-Maintenance

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.

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 fixture'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 fixtures and fuses of same type and rating onl

CAUTION!

Be careful with your operations.

With a high voltage you can suffer a dangerous electric shock when touching the wires!

2- Operating determination

Attention: The powerCON is a connector without breaking capacity, i.e. the powerCON should not be connected or disconnected under load or live!

This device is a moving head for creating decorative effects and was designed for indoor use only.

This device is for professional use only. It is not for household use.

If the device has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.

Before switching the fixture OFF, turn the fixture OFF and allow the fixture to cool for a while.

Never run the device without fixture!

Do not shake the device. Avoid brute force when installing or operating the device.

Never lift the fixture by holding it at the projector-head, as the mechanics may be damaged. Always hold the fixture at the transport handles.

When choosing the installation-spot, please make sure that the device is not exposed to extreme heat, moisture or dust. There should not be any cables lying around. You endanger your own and the safety of others!

The minimum distance between light output and the illuminated surface must be more than 8 meters.

Make sure that the area below the installation place is blocked when rigging, derigging or servicing the fixture.

Always fix the fixture with an appropriate safety rope. Fix the safety rope at the correct holes only.

Only operate the fixture after having checked that the housing is firmly closed and all screws are tightly fastened.

The fixture must never be ignited if the objective-lens or any housing-cover is open, as discharge fixtures may

explode and emit a high ultraviolet radiation, which may cause burns.

The maximum ambient temperature 45°C must never be exceeded.

3-Attention Item

1.For guarantee the life of product,please do not put it on the wet place and not use it the place over 40 degree.

2.Please don't lay the product on the un-fixable or shakable place.

3.Ask for the professional to maintain the product in order to avoid the danger of get an electric shock.

4.Power supply should not be changed over +&-10% while the light is using,it will be decreased the life of fixture if the power is too high,but it will be influenced the luminosity if the power is too low.

5.After power off,if it is need used again,please cool down over 20 minuter.

6.Please look round the manual for ensure the product can be used normally.

4-Rigging the fixture

A structure intended for installation of the fixture(s) must safely hold weight of the fixture(s) placed on it. The structure has to be certificated to the purpose.

The fixture (fixtures) must be installed in accordance with national and local electrical and construction codes and regulation.

For overhead installation, the fixture must be always secured with a safety wire that can bear at least 10 times the weight of the fixture

When rigging, derigging or servicing the fixture staying in the area below the installation place, on bridges,under high working places and other endangered areas is forbidden.

The operator has to make sure that safety-relating and machine-technical installations are approved by an expert before taking into operation for the first time and after changes before taking into operation another time.

The operator has to make sure that safety-relating and machine-technical installations are

approved by a skilled person once a year.

Allow the fixture to cool for ten minutes before handling.

The projector should be installed outside areas where persons may walk by or be seated.

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 use a help of professional companies.

CAUTION: Fixtures may cause severe injuries when crashing down! If you have doubts concerning the safety of a possible installation, do not install the fixture!

The fixture has to be installed out of the reach of public.

The fixture must never be fixed swinging freely in the room.

Danger of fire !

When installing the device, make sure there is no highly inflammable material (decoration articles, etc.) in a distance of min. 1 m.

The minimum distance of 8 meters between light output from the moving head and the lit objects must be kept!

CAUTION!

Use 2 appropriate cfixtures to rig the fixture on the truss.

Follow the instructions mentioned at the bottom of the base.

Make sure that the device is fixed properly! Ensure that the structure (truss) to which you are attaching the fixtures is secure.

The fixture can be placed directly on the stage floor or rigged in any orientation on a truss without altering its operation characteristics.

For securing a fixture to the truss, install two safety wires which can hold at least 10 times the weight of the fixture. Use only the safety wires with screw-on carabines.

5-DMX-512 connection

The fixture is equipped with both 3-pin sockets for DMX input and output. The sockets are wired in parallel.

Only use a shielded twisted-pair cable designed for 3-pin XLR-plugs and connectors in order to connect the controller with the fixture or one fixture with another.

DMX - output
XLR mounting-sockets (rear view):

1 - Shield
2 - Signal (-)
3 - Signal (+)

DMX-input
XLR mounting-plugs (rear view):

1 - Shield
2 - Signal (-)
3 - Signal (+)

Building a serial DMX-chain:

Connect the DMX-output of the first fixture in the DMX-chain with the DMX-input of the next fixture. Always connect one output with the input of the next fixture until all fixtures are connected. Up to 32 fixtures can be connected.

Caution: At the last fixture, the DMX-cable has to be terminated with a terminator.

Solder a 120 Ω resistor between Signal (–) and Signal (+) into a 3-pin (5-pin) XLR-plug and plug it in the DMX-output of the last fixture.

6-Technical Specifications

Voltage: AC90V ~ 240V / 50 ~ 60Hz	Pan/Tilt: 540°/190°
Output Power: 160W	Dimmer: 0-100% Linear dimmer
Light source: LED 160W	Effect: Frost wash
Beam angle: Linear zoom 10~20 degrees	Prism: 6 face prism and rotating
Control mode: DMX512/Master-Slave/Auto/Sound	Product Size: 27x35x21 cm
Channel: 18 CH	Product weight: 7.5 kg
Color wheel: 9 pcs + open	Package Size: 48x33x29 cm
Gobo 1 wheel: 9 pcs +open	Package weight: 8.95kg
Gobo Rot wheel: 6 pcs + open and rotation	
Function: RDM. Intelligent temperature control, DMX monitor, Manual control	

7-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.

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.

8-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 fuse holder in the housing and fix it.

Checking plastic parts of the fixture.

The plastic parts of the fixture should be checked for damages and beginning cracks at least every two months.

In addition, the plastic part of the front lens has to be checked mechanically (by means of movement by the plastic part) if it is firmly fastened to the fixture. If hint of a crack is found on some plastic part, do not use the fixture until the damaged part will be replaced.

Cracks or another damages of the plastic parts can be caused by the fixture transportation or manipulation and also ageing process may influence plastic materials.

This checking is necessary for both fixed installations and preparing fixtures for renting. Any free moving parts inside of the fixture head, cracked plastic or any plastic part of front lens not sitting properly in place need to be immediately replaced.

9-Control menu

- [MENU] used to move back to the previous scree
- [UP] used to move up on the previous page.
- [DOWN] used to move down on the next page.
- [ENTER] used to save adjusted values

10-Control menu map

Menu		Function
Set	Run Mode	DMX
		Auto
		Random
		Sound
	DMX Address	001-512
	Channel Mode	Std.17 ch
	Top LED Temp	001-125
	Sound Regulator	±002
	Invert Pan	ON / OFF
	Invert Tilt	ON / OFF
	Pan-Tilt Swap	ON / OFF
	Pan-Tilt Encoder	ON / OFF
	No DMX Signal	CLEAR/KEEP
	Display	ON / OFF
	Load Default	OK/Cancel
Manu	DMX channel	
Sys	DMX Monitor	
	System Errors	

	LED Temp	
	Partial Fixture Hours	
	Partial LED Hours	
	DIS	
	N:	
	XY:	
	DATE:	
	TIME:	
Advan PassWord: ↑↑↑↓↓↓	Sensor Monitor	Hall 1-6 State
		HallXY State
		Pan Tilt Codewheel State
		Pan Codewheel Step
		Tilt Codewheel Step
	Reset Calibration	Pan Calibration
		Tilt Calibration
		Colour Calibration
		Gobo Calibration
		Focus Calibration
		Zoom Calibration
		Prism Calibration
		Rt.Gobo Calibration
	Zero Point Correction	ON / OFF

18-DMX Channel

DMX Channel Summary-18 Channels Mode

Channel		Value	Features
CH1	Dim	0-255	Dimming
CH2	Strobe	0-255	Strobe
CH3	Pan	0-255	Pan movement by 540°
CH4	Tilt	0-255	Tilt movement by 270°
CH5	Speed	0-255	Pan/Tilt speed , Pan/Tilt time
CH6	Color	0-4	Color 1
		5-9	Color 2
		10-14	Color 3
		15-19	Color 4
		20-24	Color 5
		25-29	Color 6
		30-34	Color 7
		35-39	Color 8
		40-44	Color 9
		45-49	Color 10
		50-54	Half Color 1
		55-59	Half Color 2
		60-64	Half Color 3
		65-69	Half Color 4
		70-74	Half Color 5
		75-79	Half Color 6
		80-84	Half Color 7
		85-89	Half Color 8
		90-94	Half Color 9
		95-99	Half Color 10
		100-255	Clockwise Rotation

CH7	Gobo	0-9	White
		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
		80-89	Gobo 8
		90-99	Gobo 9
		100-129	Clockwise Rotation
		130-134	White
		135-210	Anti clockwise Rotation
		211-215	Gobo 1 shake
		216-220	Gobo 2 shake
		221-225	Gobo 3 shake
		226-230	Gobo 4 shake
		231-235	Gobo 5 shake
		236-240	Gobo 6 shake
		241-245	Gobo 7 shake
		246-250	Gobo 8 shake
		251-255	Gobo 9 shake
CH8	Gobo	0-9	White
		10-19	Gobo 1
		20-29	Gobo 2
		30-39	Gobo 3
		40-49	Gobo 4

		50-59	Gobo 5
		60-69	Gobo 6
		70-129	Clockwise Rotation
		130-225	White
		226-230	Gobo 1 shake
		231-235	Gobo 2 shake
		236-240	Gobo 3 shake
		241-245	Gobo 4 shake
		246-250	Gobo 5 shake
		251-255	Gobo 6 shake
CH9	Gobo Rot	0-63	Rotation angle
		64-192	Clockwise Rotation
		193-255	Anti clockwise Rotation
CH10	Prism	0-127	No Prism
		128-255	Prism on
CH11	Prism Rot	0-128	Prism Rotation Clockwise
		129-255	Prism Rotation Counterclockwise
CH12	Frost	0-127	NoFunction
		128-255	Frost simple
CH13	Focus	0-255	Focus linear
CH14	Zoom	0-255	Zoom linear
CH15	Pan fine	0-255	Pan 8bit
CH16	Tilt fine	0-255	Tilt 8 bit
CH17	Maoro	10-120	Auto mode
		121-150	Auto mode
		151-255	Sound mode
CH18	Reset	0-127	No Function
		128-255	Reset aftr 5 seconds

20-Fault handling

A.The fixture does not work, there is no light, and the fan does not run

1. Check the power contact.

2. Check the voltage.

B. Control of uncontrolled stations

1. Check whether the DMX signal connector and signal cable are connected correctly.

2. Check whether the address code setting is correct.

3. If the DMX signal transmission is intermittent, check whether the XLR socket and the signal cable are well connected.

4. Try it with other controllers.

5. Check if the distance between the DMX signal line and the high-voltage line is too close, otherwise it will damage or interfere with the signal circuit.

C. A channel fails

1. The stepper motor or motor lead may be damaged.

2. The drive circuit of the motor may be damaged.

21-Accessories list

Quick lock x 2

Power cable x 1

Dmx512 cable x 1

Manual x 1