

# 120W LED Moving Head Spot



## User Manual

**KEEP THIS MANUAL FOR FUTURE NEEDS**

## 1. Dispacking

Thank you for this LED Moving Head Spot. For your own safety, please read this manual before installing the device. This manual covers the important information on installation and applications. Please install and operate the fixture with following instructions. Meanwhile, please keep this manual well for future needs.

This LED Moving Head Spot 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.

Adopts powerful Luminus 12W CBM-360-W 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:

Moving Head -----one	Signal Cable-----one
Omega Clamp----- two	User Manual-----one
Safety chain----- one	

## 2. Safety Instructions

### CAUTION!

**Be careful with your operations. With a dangerous voltage you can suffer a dangerous electric shock when touching wires!**

This device has left the factory in 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 user manual.

### Important

**Damages caused by the disregard of this user manual are not subject to warranty.**

**The dealer will not accept liability for any resulting defects or problems.**

If the device has been exposed to temperature changes due to environmental changes, do not switch it on immediately. The arising condensation could damage the device. Leave the device switched off until it has reached room temperature.

This device falls under protection-class I. Therefore it is essential that the device be earthed.

The electric connection must carry out by qualified person.

The device shall only be used with rate voltage and frequency.

Make sure that the available voltage is not higher than stated at the end of this manual.

Make sure the power cord is never crimped or damaged by sharp edges. If this would be the case, replacement of the cable must be done by an authorized dealer.

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.

During initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective, it should decrease gradually.

Please don't project the beam onto combustible substances.

Fixtures cannot be installed on combustible substances, keep more the 50cm distance with wall for smooth air flow, so there should be no shelter for fans and ventilation for heat radiation.

If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard.

### **3.Operation Instructions**

-The moving head is for beam effect for inside 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 change. So make sure to operate the fixture until it is in normal temperature.

-This light should be kept 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 electric shock to the people.

-Make sure the installation place is in good and safety condition before installing the fixture.

-Make sure to put the safety chain and check it 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 person who knows the fixture before using.

-keep the original packages if any second shipment is needed.

-Don't try to change the fixture without any instruction by the manufacturer or the appointed repairing agencies.

-It is not 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.

#### **4. Mounting and Installation**

**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 person. 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 (1.5ft) 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 other calculate 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 spot LED provides a unique mounting bracket assembly that integrates the bottom of the base, the included "Omega Bracket," and the safety cable rigging point in the unit. When mounting this fixture to trusses be sure to secure an appropriately rated clamp to the included omega bracket using a M10 screw fitted through the center hole of the "omega bracket". As an added safety measure be sure to attached at least one properly rated safety cable to the fixture using one of the safety cable rigging points integrated in the base assembly.

Regardless of the rigging option you choose for your SPOT LED, always be sure to secure your fixture with a safety cable. The fixture provides a built-in rigging point for a safety cable on the hanging bracket as illustrated above. Be sure to only use the designated rigging point for the safety cable and never secure a safety cable to a carrying handle.

#### **DMX-512 Control Connections**

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.

## DMX-512 connection with DMX terminator

For installation 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 120 resistor connected between pins 2 and 3, which is then plugged into the output XLR socket of the last fixture in the chain.

### 6. Menu Operations

DMX Address	A001~Axxx	
Auto Play	Auto Run Music Control	
Reset	On/Off	
Reverse Pan	On/Off	
Reverse Tit	On/Off	
Special	Reset Default	On/Off

### 7. DMX Channels

1-----	0	-	255	x	
2-----	0	-	255	X 16bit	
3-----	0	-	255	Y	
4-----	0	-	255	Y 16Bit	
5-----	0	-	15	Color	(open/White)
	16	-	31	Color 1	
	32	-	47	Color 2	
	48	-	63	Color 3	
	64	-	79	Color 4	
	80	-	95	Color 5	
	96	-	111	Color 6	
	112	-	31	Color 7	
	128	-	189	Forward rainbow effect from fast to slow	
	190	-	193	Rotation stop	
	194	-	255	Backward rainbow effect from slow tp fast	
6-----	0	-	9	Rotation	Gobo Wheel (Open / White )
	10	-	19	Gobo 1	
	20	-	29	Gobo 2	
	30	-	39	Gobe 3	

40 - 49 Gobo 4  
 50 - 59 Gobo 5  
 60 - 69 Gobo 6  
 70 - 79 Gobo 7  
 80 - 89 Gobo 1 shake slow to fast  
 90 - 99 Gobo 2 shake slow to fast  
 100 - 109 Gobo 3 shake slow to fast  
 110 - 119 Gobo 4 shake slow to fast  
 120 - 129 Gobo 5 shake slow to fast  
 130 - 139 Gobo 6 shake slow to fast  
 140 - 149 Gobo 7 shake slow to fast  
 150 - 202 Forward rotation from fast to slow  
 230 - 255 Backward rotation from slow to fast

7----- 0 - 5 Gobo rotation stop  
 6 - 127 Forward gobo rotation from fast to slow  
 128 - 133 Gobo rotation stop  
 134 - 255 Backward rotation from slow to fast

8----- 0 - 9 Shutter closed  
 10 - 250 Strobe effect slow to fsat  
 251 - 255 Shutter open

9----- 0 - 255 Dimmer (0- 100%)

10---- 0 - 255 Focus In (near) to Out(far) to out(far)

11---- 0 - 49 Prism swing out (No Prism)  
 50 - 99 Prism swing in (Static Prism)  
 100 - 175 Forward rotation from fast to slow  
 176 - 179 Rotation stop  
 180 - 255 Backward rotation from slow to fast  
 0 - 191 Iris Max. diameto Min. diameter  
 192 - 223 Pulse Closing fast to slow  
 244 - 225 Pulse Closing slow to fast

12---- 0 - 255 XY Speed from Max to Min

13----- 0 - 15 Empty  
 16 - 45 Internet program 1  
 46 - 75 Internet program 2  
 76 - 105 Internet program 3  
 106 - 135 Internet program 4

	136	-	165	Internet	program 5
	166	-	195	Internet	program 6
	196	-	225	Internet	program 7
	226	-	225	Internet	program 8
14---	0	-	225	N/A	
15---	0	-	225	N/A	
16---	0	-	180	N/A	
	181	-	200	Reset	
	201	-	255	N/A	

## 8. Key Features

16 bit smooth and precise resolution for PAN/TILT movement

540%/630 pan and 270% tilt movement

scan position memory, auto reposition after unexpected movement

1 color wheel with 7 dichroic color plus open

Variable direction rainbow effect with speed adjustable

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

1 static gobo wheel with 7 fixed gobos plus open

1 rotatable 3-facet prism with speed adjustable and variable direction

2 meter to infinite electric focus

15\* projection beam angle

0-100% linear dimmer with 1-18 times/sec high speed electronic strobe

LED shutter with variable speed

16 DMX channels

DMX512, master-slave and sound activated controllable or auto operation (8 built-in program)

## 9. Technical Specifications

Input Voltage: AV90-260V 50-60Hz

LED Quantities: 1\* 120W High brightness white LED unit

Control Signal: DMX512, master-slave and sound activated or auto operation

Control Channel: 16 DMX Channels

Power Consumption: 240W  
Dimensions: 230x 300x437mm  
Packing Dimensions: 253 x 350 x 487mm  
Net weight: 11kgs  
Gross Weight: 12.5kgs

## **10. Maintenance and Cleaning**

The following points have to be considered during the inspection:

- 1) All screws for installing the devices or parts of the device have to be tightly connected and must not be corroded.
- 2) There must not be any deformations on the housing, color lenses, fixations and installation spots (ceiling, suspension, trussing).
- 3) Mechanically moved parts must not show any traces of wearing and must not rotate with unbalances.
- 4) The electric power supply cables must not show any damage, material fatigue or sediments.

Further instructions depending on the installation spot and usage have to be adhered by a skilled installer and any safety problems have to be removed.

### **CAUTION!**

**Disconnect from main before starting maintenance operation.**

In order to make the lights in good condition and extend the life time, we suggest a regular cleaning to the lights.

- 1) Clean the inside and outside lens each week to avoid the weakness of the light due to accumulation of dust.
- 2) Clean the fan each week.
- 3) A detailed electric check by approved electrical engineer each three month, make sure that the circuit contacts are in good condition, prevent the poor contact of circuit from overheating.

We recommend a frequent cleaning of the device. Please use a moist, lint-free cloth. Never use alcohol or solvents.



There are no serviceable parts inside the device. Please refer to the instruction under "Installation instruction".

Should you need any spare parts, please order genuine parts from your local dealer.