

# 10. 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.

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 mains lead.

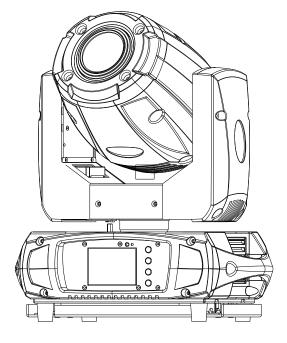
- 1) Remove the fuse holder on the rear panel of the base with a fitting screwdriver from the housing (anti-
- 2) Remove the old fuse from the fuse holder.
- 3) Install the new fuse in the fuse holder (only the same type and rating).
- 4) Replace the fuseholder in the housing and fix it.



2nd-3rd floor, No.288, Guangzhou East Line, Pingwen, Lanhe Town, Nansha District, Guangzhou, China.



# BA-50S 50W BATTERY **MOVING HEAD SPOT**



Version 1.0

# **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

Tel.+86-020-84939726

Fax.+86-020-84939725





# 1. Safety instructions

Thank you for choosing our 50w Battery moving head spot. 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 suffera 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 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 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.

WARNING! This unit does not contain an ON/OFF switch. Always disconnect power input cable 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 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 bare hands during its operation (housing becomes hot)!

For replacement use lamps and fuses of same type and rating only.

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

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Tel:86-020-84939726

Fax:86-020-84939725

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11	9		Focus	
		0255	In(near) to out(far)	
12	10		Prism &Rrotating	
		05	OFF	
		6127	ON	
		128255	Rrotating from slow to fast	
			Special function	
		019	No function	
	11	2039	No function	
		4059	Enter power saving mode	
		6079	Exit power saving mode	
13		8084	All Motor reset	
		8587	Scan motor reset	
		8890	Colors motor reset	
		9193	Gobo motor reset	
		9496	No function	
		9799	Other motor reset	
		100119	Internal program 1	
		120139	Internal program 2	
		140159	Internal program 3	
		160179	Internal program 4	
		180199	Internal program 5	
		200219	Internal program 6	
		220239	Internal program 7	
		240255	Internal Sound program 1	



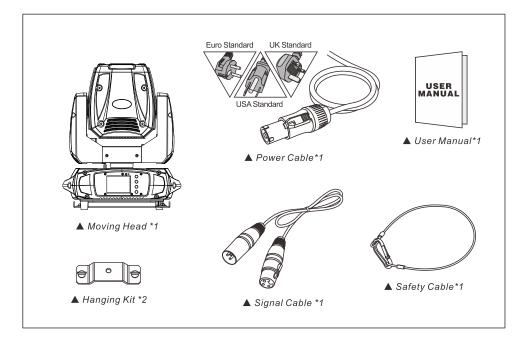
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			Gobo wheel	
		09	Open	
		1019	gobo 1	
		2029	gobo 2	
		3039	gobo 3	
		4049	gobo 4	
		5059	gobo 5	
7	5	6069	gobo 6	
		7089	Gobo 1 shake slow to fast	
		90109	Gobo 2 shake slow to fast	
		110129	Gobo 3 shake slow to fast	
		130149	Gobo 4 shake slow to fast	
		150169	Gobo 5 shake slow to fast	
		170189	Gobo 6 shake slow to fast	
		190255	Rot. gobo wheel cont. rotation slow to fast	
8	5		Gobo rotation	
		03	no function	
		4127	Forwards gobo rotation from fast to slow	
		128131	Gobo rotation stop	
		132255	Backwards gobo rotation from slow to fast	
	7		Shutter	
		031	Shutter closed	
		3263	shutter open	
9		6495	Strobe effect slow to fast	
		00 407	shutter open	
9	/	96127	shutter open	
9	/	128159	Shutter open Pulse-effect in sequences slow to fast	
9	/		·	
9	/	128159	Pulse-effect in sequences slow to fast	
9	7	128159 160191	Pulse-effect in sequences slow to fast shutter open	
10	8	128159 160191 192223	Pulse-effect in sequences slow to fast shutter open Random strobe effect slow to fast	



# 2.UNPACKING

The 50w Battery moving head spot adopts a 50W white LED lamp 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:



The 50w Battery 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 per formances, theater, studio, nightclubs and discos.

This manual covers the important information on installation and applications. Meanwhile, please keep this manual well for future needs.

Function

Pan

**PAN Movement** 

Pan-fine

Fine control of Pan movement

Tilt

Tilt Movement

Tile-fine

Fine control of Tilt movement

Speed pan/tile

max to min speed

blackout by movement

blackout by all wheel changing

no function

Open / white

Color 1

Color 2

Color 3

Color 4

Color 5

Color 6

Color 7

Forwards rainbow effect from fast to slow

Color rotation stop

Backwards rainbow effect from slow to fast

Color wheel

9.DMX PROTOCOL

Value

0..255

0..255

0..255

0..255

0..225

226.235

236.245

246..255

0..15

16..31

32..47

48.63

64..79

80..95

96..111

112..127

128 189

190-193

194..255





# **Light Source**

- > 1\* 50W white led lamp
- > Life span: 50000 hours
- > Color: Cool white , 7500K

#### Optics

- > Beam angle:12°
- > Specific high precision glass optic system

#### Power Supply

- > Input Voltage: AC90-260V 50/60Hz
- > Power Consumption: Sate of charge 190W; non-charged state: 90W

#### Battery

- >0% to 100% charge 4.5 hours, full power use 8 hours, built-in program use 8-12 hours
- >Temperature detection function (-20 °C to 50 °C normal charge,;not the range,it do damage to the battery and can not be normal charged)
- >Battery short circuit protection, overcurrent protection
- >Overflow charging
- >After the battery is switched on, the battery is automatically charged when the battery is low, and the charging function is automatically stopped when the battery is fully charged.
- >Support battery extension.

#### Control

- > Control Signal:DMX512, master-slave and sound activated ,auto operation or wireless
- > Control Channel: 13/11 DMX channels USITT DMX-
- > DMX recorder and edit function integrated

# Movement

- > 8/16 bit smooth and precise resolution for PAN/TILT movement
- > 360°/540°/630° PAN and 90°/180°/270° TILT movement
- > PAN/TILT inversion available
- > Scan position memory, auto reposition after unexpected movement

#### Static Gobo Wheel



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#### Color Wheel

> 1 Color wheel with 7 colors plus open

#### Gobo Wheel

> 1 Rotatable gobo wheel with 6 rotatable and interchangeable gobos

plus open with speed adjustable, stream effect, dithering effect and

rotatable clockwise or anticlockwise

Gobo size 21.8mm (external dimensions)/14.5mm (inner dimensions)

## Working Enviroment

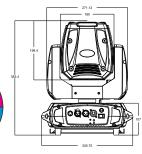
- .> Fan cooling system
- > -20-50°C max ambient temperature
- > Constant temperature readout and management function.
- > Protection Rating: IP 20

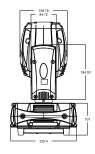
### Construction & Weight

- > Dimensions:38.5\*38\*22(CM)
- > Packing Dimensions:40\*29\*44.5(CM)
- > Net Weight: 10.6kgs
- > Gross Weight: 12.6kgs

## Features

- > ABS die-cast plastic cover with Aluminium structure
- > 2.5-15m electronic focus
- > 3-Facet prism with variable speed and direction
- > 0-100% Linear LED dimmer
- > 28T/sec high speed LED shutter/strobe effect with variable speed
- > Preset variable/random strobe and dimming pulse effect
- >2.4'TFT LCD display (320\*240pix)
- > POWER CON connector IN
- > 3-Pin XLR connectors IN/Out
- > 55dB at 3'dB rating
- > 2\*1/4 turn fastening Omega clamp
- > 1\* Safety attachment point





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03

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Mode/Channel

8b

2

3

16b

2

3

4

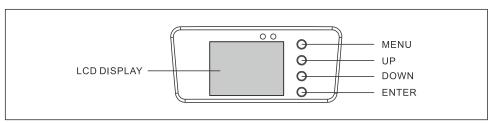
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Tel:86-020-84939726 WWW. brightenfocus.com
Fax:86-020-84939725 08 E-mail:info@ brightenfocus.com



# **8.MENU OPERATIONS**



		MENU	Description
Function	Dmx Address	A001~AXXX	DMX address setting
Mode	Channel Mode	CH13 MODE	Standard mode
		CH11 MODE	Vector mode
	Auto Run	Internal Program1~8 Master/Alone	Auto run
	Music Control	Internal Program1~8 Master/Alone	Sound Control
Option	Reset Default	Yes/No	Reset Default
		Wire DMX	Wire DMX
	Signal Set	Wireless DMX	Wireless DMX
		Act WDMX & Out	Act WDMX & Out
		Reverse Pan (On/Off)	Reverse Pan
	Pan / Tilt	Reverse Tilt (On/Off)	Reverse Tilt
		Select Pan 540°/360°/630°	Pan Degree, default is 540
		Select Tilt 270°/90°/180°	Tilt Degree, default is 270°
	UISET	Mic SEN 0~99%	MIC Sensitivity Setting
		OFF Signal Mode (On/Off)	OFF at original status and ON at reset status when no DMX signal
		Start Up Saving	Start Up Saving
Information	Temperature	XXX°C/°F	Current Temperature
	Software Version	V1.0~V9.9	Software Version
		Total Reset	Total Reset
Manual	Reset	Pan/Tilt Reset	Pan/Tilt Reset
Control		Color Reset	Color Reset
	,	Gobo Reset	Gobo Reset
	,	The Others Reset	The Others Reset
	Channel	PAN=XXX	Channel Control
Advanced	Calibration	PAN=XXX	Calibration

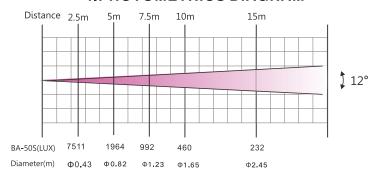
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# 4.PHOTOMETRICS DIAGRAM



# **5.OPERATION INSTRUCTIONS**

- The 50w Battery moving head spot is for beam effect for on-site 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 changes. So make sure to operate the fixture until it is in 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 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 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 scratch.
- Make sure the fixture is operated by qualified personnel who knows the fixture before using.
- 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.





## Cautions:

For added protection mount the fixtures in areas outside walking paths, seating areas, or in areas were 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 ft) away from any flammable materials (decoration etc.).

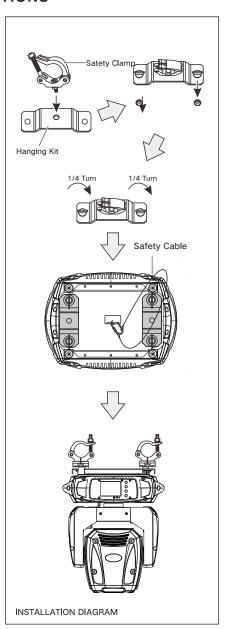
Always use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.

## 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 50w Battery moving head spot 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 truss be sure to secure an appropriately rated clamp to the included omega bracket using a M10 screw fitted through the center hole of the "Hanging Kit". As an added safety measure be sure to attached at least one properly rated safety cable to the fixture using on of the safety cable rigging point integrated in the base assembly.

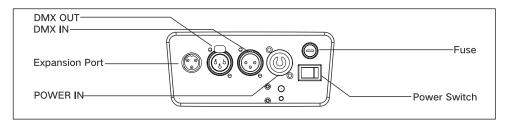


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# 7. CONTROL CONNECTION



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 head together through serial linking. The cable needed should be two core, screened cable 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 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 illustrations below.

