

# **LED250W BEAM SPOT WASH ZOOM Moving Head**



## **USER MANUAL**



**KEEP THIS MANUAL FOR FUTURE NEEDS**

Thank you for your patronage. We are confident that our excellent products and service can satisfy you. For your own safety, please read this user manual carefully before installing the device.

In order to install, operate, and maintain the lighting safety correctly. We suggest that the installation and operation should be done by the verified technician and follow the instruction strictly.



**CAUTION!** Keep this device away from rain and moisture!



Unplug

**CAUTION!**

mains lead before opening the housing.

Every person involved with the installation, operation and maintenance of this device has to:

-be qualified

-follow carefully the instructions of this manual

### **1. INTRODUCTION**

Thank you for having chosen this professional moving head.

You will see you have acquired a powerful and versatile device.

Unpack the device. Inside the carton box you should find:

1. One XLR power cable
2. One user manual
3. Two pcs omega

Please check carefully that there is no damage caused by transportation. Should there be any, please consult your dealer and don't install this device.

### **2 Mounting and installation**

**2.1 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 (1.5ft) away from any flammable (decoration etc.)

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

### **2.2 Mounting points:**

Overhead mounting requires extensive experience , including 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 ,

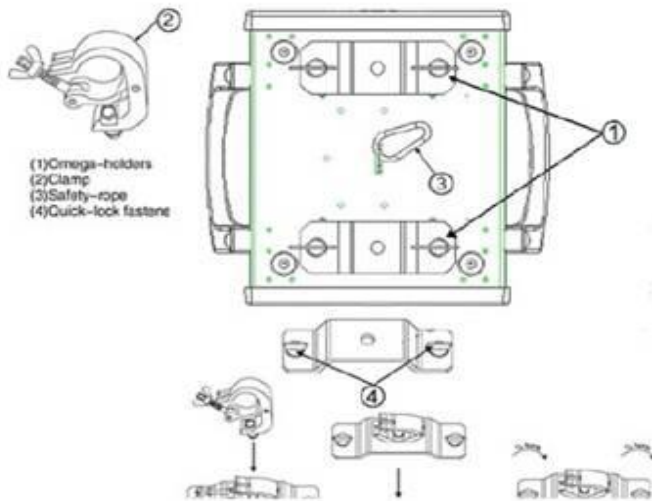
Do not attempt the installation yourself ,improper installation can result in bodily injury.

Be sure to complete all rigging and installation procedures before connecting the main power

cord to the appropriate wall outlet.

### 2.3 Clamp mounting :

The LED moving head provides a unique mounting bracket assembly that integrates the bottom of the base, the included 'omega bracket' and the safety cable rigging point in one unit (see the illustration below).When mounting this fixture to truss be sure to sere to secure an 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 on of the safety cable rigging point integrated in the base assembly.



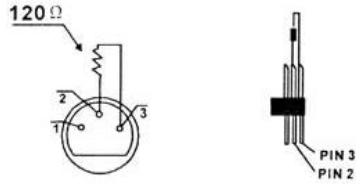
### 2.4 DMX-512 control connection

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.



### 2.4 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 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. Please see illustrations below.



### 3 TECHNICAL PARAMETERS

#### POWER SUPPLIE

Input power:AC100-240V 50/60 Hz

Power consumption :300W

DMX channel:17/20 channels

Pan scan: 540° (16bit) Electric correction

Tilt scan: 270° (16bit) Electric correction

Color wheel: one color wheel,9 kinds of color chips in one color wheel

Static Gobo: 11gobos+open

Rotation Gobo:8 gobos+open

Effect Wheel: 3 faced prism , Bi-directional rotation

Lens optical system mechanical focus .beam Zoom angle 5° -45°

Control mode:DMX512/Master-Slave/Auto run/ RDM

Dimmer : 0- 100 %

Strobe:0-20 HZ

Display:LCD display

#### WEIGHT&SIZE

N.W: 13.5 KG

G.W: 15.5 KG

Packing size: 52\*41.5\*37cm

### 4 :MENU FUNCTION

ADDR	001-512		
MODE	Channel mode	17 CH	
		20 CH	
	DMX Ctrl		
	Auto run		
	Sound Ctrl		
	Scene Mode	Auto	
		Scene 1- 10	
	M/S Choose	Auto	
Slave			
Master			
DISP	Language	中文	
		English	
	Screen saver	mode 1	

		mode 2	
		mode 3	
		close	
	Screen Rot	Forward	
		Reverse	
	DMX indicate	mode 1	
		mode 2	
mode 3			
Screen light	0-10		
SCENE	Scene select	Scene 1- 10	
	Scene Time		
	Pan	000-255	
	Pan fine	000-255	
	Tilt	000-255	
	Tilt fine	000-255	
	XY Speed	000-255	
	Dimmer	000-255	
	Dimmer fine	000-255	
	Strobe	000-255	
	Colour	000-255	
	Colour fine	000-255	
	Fixed gobo wheel	000-255	
	Rotation gobo wheel	000-255	
	Gobo rotating	000-255	
	Focus	000-255	
	Focus fine	000-255	
	Zoom	000-255	
	Prism	000-255	
	Prism rotation	000-255	
Frost	000-255		
Reset	000-255		
ADUA	Pan invert	Off	
		Open	
	Tilt invert	Off	
		Open	
	P/T Rectity	Off	
		Open	
	Pan offset		
	Tilt offset		
	Data hold	Off	
		Open	
Scene Time	001-255		
Reset			

	Factory resetting		
STAT	Stepper info		
	Error Logging		
	Fixture status		
	Version		
	light time		
	Total time		

## 5: DMX CHANNELS

### 17/20channel definition table

Channel 1	Channel 2	Name	Value	Function
CH1	CH1	Pan	0-255	0-540 degree
CH2	CH2	Pan Fine	0-255	0-2degree
CH3	CH3	Tilt	0-255	0-270degree
CH4	CH4	Tilt Fine	0-255	0-1degree
CH5	CH5	XY speed	0-255	from fast to slow
CH6	CH6	Dimmer	0-255	0-100% dimmer
	CH7	Dimmer fine	0-255	dimmer fine
CH7	CH8	Strobe	0-3	close
			4-127	Pulse strobe slow to fast
			128-191	Gradient strobe slow to fast
			192-251	Random strobe slow to fast
			252-255	open
CH8	CH9	color	0-4	open
			5-9	open+color1
			10-14	color1
			15-19	color1+color2
			20-24	color2
			25-29	color2+color3
			30-34	color3
			35-39	color3+color4
			40-44	color4
			45-49	color4+color5
			50-54	color5
			55-59	color5+color6
			60-64	color6
			65-69	color6+color7
			70-74	color7
			75-79	color7+color8
			80-84	color8
85-89	color8+color9			
90-94	color9			

			95-99	color9+color10
			100-180	Forward flow from fast to slow
			181-185	stop
			186-255	Reverse flow from slow to fast
	CH10	Color Fine	0-255	Color Fine
CH9	CH11	Gobo	0-9	open
			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
			80-99	Gobo 8
			100-109	Shake from slow to fast white
			110-119	Shake from slow to fast gobo1
			120-129	Shake from slow to fast gobo2
			130-139	Shake from slow to fast gobo3
			140-149	Shake from slow to fast gobo4
			150-159	Shake from slow to fast gobo5
			160-169	Shake from slow to fast gobo6
			170-179	Shake from slow to fast gobo7
180-189	Shake from slow to fast gobo8			
190-223	Reverse flow from fast to slow			
224-255	Forward flow from slow to fast			
CH10	CH12	Rotation 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	Shake from slow to fast gobo1
			90-99	Shake from slow to fast gobo2
			100-109	Shake from slow to fast gobo3
			110-119	Shake from slow to fast gobo4
			120-129	Shake from slow to fast gobo5
			130-139	Shake from slow to fast gobo6
			140-149	Shake from slow to fast gobo7
150-200	Forward flow from fast to slow			
201-255	Reverse flow from slow to fast			
CH11	CH13	Gobo rotating	0-127	0-360 degree

			128-190	Reverse flow from fast to slow
			191-192	stop
			193-255	Forward flow from slow to fast
CH12	CH14	Focus	0-255	fast to near
	CH15	Focue Fine	0-255	Focus fine
CH13	CH16	zoom	0-255	big to small
CH14	CH17	Prism1	0-127	empty
			128-255	insert prism 1
CH15	CH18	prism rotating	0-127	0-360 degree
			128-187	Forward flow from fast to slow
			188-195	stop
			196-255	Reverse flow from slow to fast
CH16	CH19	Frost	0-127	empty
			128-255	Frost
CH17	CH20	Reset	0-209	Empty
			210-215	Reset XY motor after 3 seconds
			216-219	Empty
			220-235	Reset effect motor after 3 seconds
			236-239	Empty
			240-255	Reset the entire light after 3 seconds