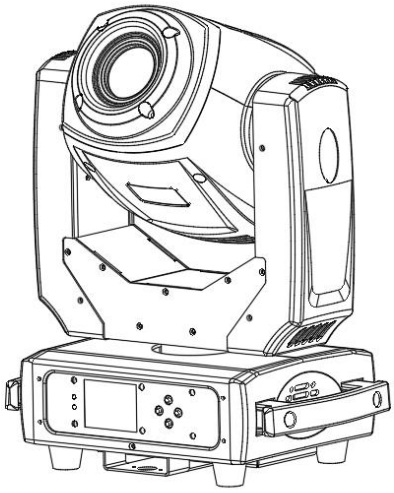
150W SPOT LED Moving Head



USER MANUAL

CE

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!

CAUTION!

Unplug 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. One 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.

4： Optional accessories

IR Control

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.

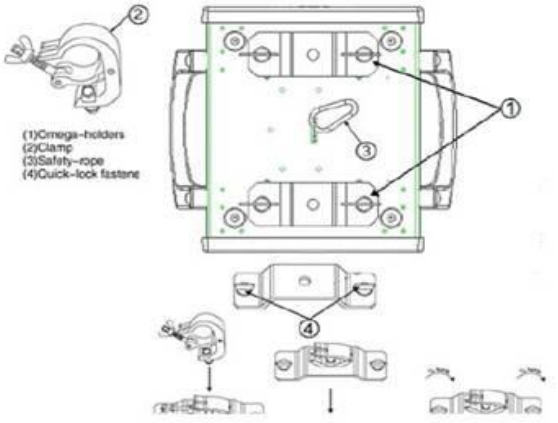
2.2 Mounting points:

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.

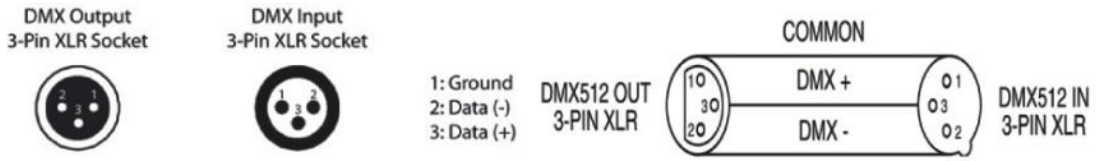
2.3 Clamp mounting :

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

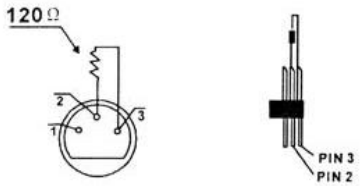
Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the moving head. You can chain multiple Moving head together through serial linking. The cable needed should be two core, screened cable with XLR input and output connectors. 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 :170W
LED source: 1 x 150W LED
DMX channel:16 channels
Pan scan：540°(16bit) Electric correction
Tilt scan：270° (16bit) Electric correction
Color wheel: one color wheel, 7 kinds of color chips in one color wheel
Static Gobo: 7gobos+open
Rotation Gobo:6 gobos+open
Beam angle:16 degree
Effect Wheel: one Rotation three-faced prism
Frost
RDM function
Effect move ， Bi-directional rotation
Lens optical system mechanical focus
Control mode:DMX512/Master-Slave/Auto run
Over heat protection
Dimmer : 0- 100 %
Strobe:0-20 HZ
Display:LCD display
WEIGHT&SIZE
N.W: 9.5 KG
G.W: 11 KG
Packing size: 48x37x28cm

4 :MENU FUNCTION

DMX Address	001-512		
Run mode	DMX Ctrl	DMX mode, receive DMX signal, RDM signal	
	Auto Run	Fixture run automatically according to built-in programs	
	Sound Ctrl	When the fixture detects a strong sound, the fixture automatically runs a scene according to the built-in program, otherwise it will stay the last scene	
	Scene Mode 01	runs in a set scene, which supports most of the custom editing of 10 scenes.	
		1~10	outputs the specified scene
		Auto	Automatically loops the output scene in the set scene time (non-zero) order, and the scene with time 0 automatically ignore
	M/S Choose	Master and slave selection, non-DMX mode takes effect, select the mode of data output, fixture detect DMX cable state automatic switch output, prevent data conflicts	
		Master	fixture runs built-in program. If DMX has no signal, it outputs data (synchronization), otherwise it does not output data.
		Slave	fixture runs built-in program and do not output data
		Auto	If DMX has no signal, the fixture will runs built-in program. Otherwise, the fixture will run in DMX Mode(follow DMX).
DISPLAY SETTING	Language	display language settings	
		English	English display
		Chinese	Chinese display
	Screen saver	Set screen 30 seconds without operation, the screen's display content or method.	
		OFF	Keep the last operation page
		Mode1	Black
		Mode2	Black screen, showing the address code of the current fixture in the lower left corner.
		Mode3	Display trademark information, address code and operation mode.
	Screen Rot	Set the display direction of the screen.	
		OFF	No reverse display
		ON	Reverse display
	DMX Indicate	Set the indication mode of DMX signal indicator.	
		Mode1	When signal is bright, no signal is off.
		Mode2	When signal is off, no signal is bright.
		Mode3	When signal is flash, no signal is off.
	Screen Light	Set the screen backlight for 10 seconds without operation	
		1~10	10
SCENE MODE	Scene Select	Select the current operation scenario.	
		1~10	The 10 scenes sets the format
	Scene Time	Sets the retention time of the current scene when it is automatic, unit in 0.1 seconds.	
		0	The current scene is not output in automatic scene output.
		1-255	0..1s-25.5s
	1. PAN	0-255	Set up the data of each channel, and the contents and order of the display are one-to-one correspondence with the channel list of
	……	0-255	

	……	0-255	fixture.
	N. Function	0-255	
ADVANCED SETTING	Pan Invert	Set the rotation direction of PAN	
		OFF	
		ON	
	Tilt Invert	Set the rotation direction of TILT	
		OFF	
		ON	
	P/T Rectify	Setting up fixture to detect XY lost step and correct	
		OFF	Uncorrected position after out of step
		ON	After losing step, the position is automatically corrected and the out of step fault is recorded.
	Pan Offset	Setting the zero point of the PAN of the fixture	
		4-150	
	Tilt Offset	Setting the zero point of the TILT of the fixture	
		4-48	
	Data hold	When the fixture is not equipped with DMX signal, the output state of the fixture	
		OFF	No signal, so the motor and light source return to the position and state when reset is completed.
		ON	No signal, keep the last frame DMX data output.
	Reset	Reset fixture	
	Factory Setting	Pop up the confirmation box, select "SURE", and return the lamp parameters to the factory settings.	
STATUS INFORMATION	Stepper info	Display information status of all motors and signals in fixture.	
		Hall	No display, indicating that the motor has no Hall, 0 indicating that the motor leaves the correction position point, 1 indicating that the motor is in the correction position point
		Status	Display motor reset status
		PAN	Display real-time position value of PAN optocoupler feedback
		TILT	Display real-time position value of TILT optocoupler feedback
		PAN OP	Displays the PAN TILT optocoupler two signal level state, binary
	Error Logging	Show the latest 8 error records when the fixture is reset and running. The error records are not saved after power failure. The current power cycle is valid.	
		Error Logging	Total number of failures detected after power on
		12：:03	The time of power failure when the fault occurs is in minutes.
		Hall error	The effective hall signal is not detected when the motor is reset
		Hall short	When the motor is reset, the hall signal of the motor is always effective
		Opti error	No effective optocoupler signal is detected when the motor is reset.
		Lose stop	The corresponding motor is out of step during its operation.

		Hit	Striking the positioning rod when the motor is reset
		Lamp error	Lamp explosion accident
		NTC error	The temperature sensor signal is abnormal
		Fan error	The main fan is not working properly.
	Fixture status	Displays the critical state data of the current fixture for reference.	
		Communication prec	0~100%, Communication quality of internal data link of lamps and lanterns
		Error cnt	The number of erroneous frames was detected after power on, and the total number of erroneous frames was detected.
		Light Temperature	Show the temperature of the current light source, "---" means no detection.
		Panel Temperature	Displays the temperature of the current display panel or the ambient temperature.
		Sensor1 Temperature	Display the ambient temperature of the motherboard temperature or the motherboard installation position.
	Version	Display the information and version of the current fixture, important reference for after sales maintenance.	
		Device	The name of the fixture is the same as the equipment information of RDM.
		Model	The type of fixture is the same as the model information of RDM.
		Panel	Firmware version and serial number of display panel
		Main Board	Firmware version and serial number of mother board 1
	Light time	Record the total cumulative time of light source opening, unit minute, user manual cleaning, as a reference for regular maintenance of light source time	
	Total time	The total accumulated time for recording the opening of fixture is not allowed to be removed.	

5: DMX CHANNELS

16channel definition table

Channel	Name	Value	Function
CH1	Pan	0-255	0-540 degree
CH2	Pan fine	0-255	0-2 degree
CH3	Tilt	0-255	0-270 degree
CH4	Tile fine	0-255	0-1degree
CH5	XY speed	0-255	From fast to slow
CH6	Dimmer	0-255	0-100% dimmer
CH7	strobe	0-10	close
		11-99	pulse strobe,slow to fast
		100-199	regular strobe,slow to fast
		200-239	random strobe,slow to fast
		240-255	open

CH8	Color	0-9	white
		10-19	white + color1
		20-29	color1
		30-39	color1 + color2
		40-49	color2
		50-59	color2 + color3
		60-69	color3
		70-79	color3 + color4
		80-89	color4
		90-99	color4 + color5
		100-109	color5
		110-119	color5 + color6
		120-129	color6
		130-139	color6 + color7
		140-149	color7
		150-159	color7 + white
		160-205	Forward rainbow effect from fast to slow
		206-210	Rotation stop
		211-255	Backward rainbow effect from slow to fast
CH9	Fixed 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	Gobo1 Shake slow to fast
		90-99	Gobo2 Shake slow to fast
		100-109	Gobo3 Shake slow to fast
		110-119	Gobo4 Shake slow to fast
		120-129	Gobo5 Shake slow to fast
		130-139	Gobo6 Shake slow to fast
		140-149	Gobo7 Shake slow to fast
		150-205	Forward rainbow effect from fast to slow
		206-255	Backward rainbow effect from slow to fast
CH10	Rot- 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	Gobo1 Shake slow to fast
		80-89	Gobo2 Shake slow to fast
		90-99	Gobo3 Shake slow to fast
		100-109	Gobo4 Shake slow to fast
		110-119	Gobo5 Shake slow to fast
		120-129	Gobo6 Shake slow to fast
		130-191	Forward rainbow effect from fast to slow
		192-255	Backward rainbow effect from slow to fast
CH11	Gobo Rotation	0-127	Angle adjustment
		128-190	Forward rainbow effect from fast to slow
		191-192	Stop
		193-255	Backward rainbow effect from slow to fast
CH12	Prism	0-127	Empty
		128-255	Prism
CH13	Prism Rotation	0-127	Angle adjustment
		128-190	Forward rainbow effect from fast to slow
		191-192	Stop
		193-255	Backward rainbow effect from slow to fast
CH14	Frost	0-127	Empty
		128-255	Frost
CH15	Focus	0-255	Far to near
CH16	Reset	240-255	Reset after 5 second