

180W MOVING HEAD

BEAM & SPOT & ZOOM



USER MANUAL



KEEP THIS MANUAL FOR FUTURE NEEDS

Extend the warranty period to 18 months and send the order number to our corporate email for registration: support@divlights.com

1. GENERAL

Thank you for choosing our company's products, in order to make you safe, fast and easy to use this product, please read the "user manual" before using the device, and strictly in accordance with "user manual" to install or use the device. In case of any doubt during the process, please feel free to contact with us or the distributor, meanwhile, we welcome your valuable suggestion, we will be happy to provide you with high-quality consulting and after-sales service.

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.



Keep this device away from rain and moisture!



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 in this manual
- For added protection, install fixtures outside walkways, seating areas, or areas where unauthorized persons may come into contact with fixtures.
- Before mounting the luminaire to any surface, ensure that the mounting area can withstand a minimum point load of 10 times the weight of the unit.
- Clamp installations must always be secured using secondary safety accessories such as appropriate safety cables.
- Never stand directly beneath the unit when installing, removing or servicing the light fixture from the ceiling or when setting it up on a flat, level surface. Make sure the fixture is at least 0.5m (1.5ft) away from any flammable objects (decorations, etc.)
- The moving head is an LED wash light for onsite 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.

2. PACKING INSTRUCTIONS

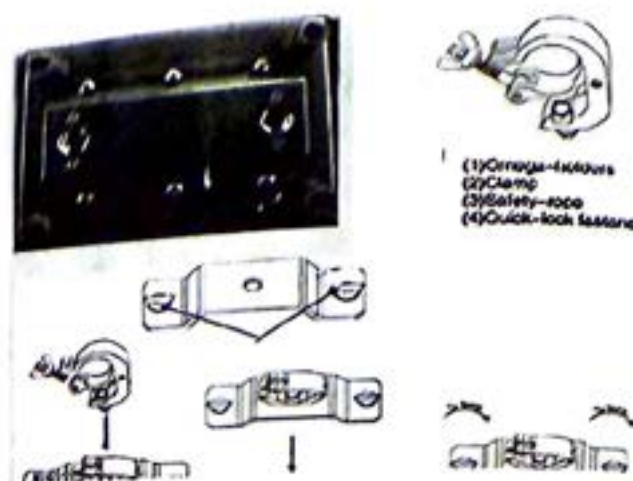
Once receiving a fixture, carefully unpack the carton, check the contents to ensure that all parts are presented, and have been received in a good condition. Notify the shipper immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows, sign of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

- Stage lights 1 Pcs
- Power cable 1 Pcs
- User manual 1 Pcs
- DMX cable 1 Pcs
- Bow mount 1 Pcs
- Screws(install the bottom of the light) 2 Pcs

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.

3. OPERATION

- Be sure to install this product should be at least 0.5 m from the flammable materials.
- Overhead installation requires extensive experience, including calculation of working load limits, in-depth knowledge of the installation materials used and regular safety inspections of all installation materials and fixtures. If you lack these qualifications.
- Do not attempt to install it yourself, improper installation may result in personal injury.
- Be sure to complete all fitting and installation procedures before connecting the mains power cord to a suitable wall outlet.
- The LED moving head light offers a unique mounting bracket assembly that integrates the bottom of the base, included "omega bracket" and safety cable rigging points in one unit (see image below).



To show the various menus and the selected functions

LED:

POWER	ON	Power on
NULL		No function
NULL		No function
DMX	ON	DMX input present

Button:

MENU	To select the programming functions
DOWN	To go backward in the selected functions
UP	To go forward in the selected functions
ENTER	To confirm the selected functions

4. DMX-512 CONTROL

- 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.
- Connect the supplied XLR cable to the 3-pin XLR female output of the controller and the other end to the 3-pin XLR male input of the moving head.
- You can chain multiple moving heads together via a serial link. The required cable should be a two-conductor shielded cable with XLR input and output connectors.
- Please refer to the picture below

Address	1-512
channel	14 channel
Sound Sensitivity	1-99
Invert Pan	OFF/ON
Invert Tilt	OFF/ON
Swap Pan Tilt	OFF/ON
Code wheel	OFF/ON
Signal timeout	KEEP / CLEAR
Screen Saver	OFF/ON
Colour Smooth	OFF/ON
Load Factory Set	Confirm
2. TEST	
Dimmer	0-255
Strobe	0-255
Pan	0-255
Pan Fine	0-255
Tilt	0-255
Tilt Fine	0-255
Pan Tilt Time	0-255
Colour	0-255
Gobo	0-255
Focus	0-255
Frost&Color wheel	0-255
Prism Rotation	0-255
Macro	0-255
Reset	>
3. OFF set	
Pan Set	(-128) - (+127)
Tilt Set	(-128) - (+127)
Colour Set	(-128) - (+127)
Gobo Set	(-128) - (+127)
Focus Set	(-128) - (+127)
Frost color set	(-128) - (+127)
4. ADUANCE	
Language sw tch	Confirm OK
Screen Rot	Confirm OK
Hours Clear	Confirm OK
Top Protection temperature	0-120
5. HARD WARE	
Pan Hall	X
Tilt Hall	X
Colour Hall	X
Gobo Hall	X

Gobo Hall 2	X
Focus	Y
Hall 7	X
Pan Code Wheel	XX
Pan Steps	XX XX
Tilt code wheel	XX
Tilt Steps	XX XX
6. SYSINFO	
Version	XXXXX-XXXXX
Total Hours	XX XX
On Hours	XXXXX
Temperature	XX

Running mode		
1	DMX mode	14 channels can select the required working mode in the channel mode.
2	Sound control mode	It can be used as a host and runs with other lights.
3	Auto mode	Demonstration 4 can run as a host and run with other lights.
4	Random mode	can be used as a host and run with other lights.
5	Address code	The address code for setting the DMX mode is 1-512.
6	Channel mode	Set the DMX channel , 14 channel.
7	Sound Sensitivity	1-99 Sound Sensitivity
8		1 - 99 Sound sensitivity adjustment
9		Pan reverse./Tilt reverse
10	Pan reverse./Tilt reverse	Pan/Tilt exchanges
11	Code wheel	Can be turned on, or close the encoding Code wheel correction function.
12	Signal timeout.	The state of the disconnected console, or the state of the lamps when the host signal, can choose to maintain and cut light.
13		Screen Saver.
14		Colour Smooth.
15	Restore the factory settings.	

● Set DMX Address

Click and select the "ADDR", can enter the page of DMX address setting, range from 1 to 512, the address code shouldn't be greater than (512- channels quantity), otherwise the light will not be controlled. Following is the operation:

Enter the page of DMX address, click the blank area in right side of display will pop-up dialog as in Fig. 4, modify value, then click 'ENTER' to confirm and save DMX address code.

Corresponding to the channel, the initial value will change with the change of the Selfie mode, or the value of the console mode, which can be set in the channel mode.

● Set Light work mode

Light includes 4 work mode: DMX MODE, AUTO RUN, SOUND MODE, SLAVE MASTER MODE

Parameter definition as following:

- ✓ **DMX Mode** - Under this mode, the light receive data from the DMX controller and move.
- ✓ **AUTO RUN** - Under this mode, light will run with inside code(data), ignore data from DMX controller.
- ✓ **SOUND Ctrl** - Under this mode, light ignore data from DMX controller., When there is a strong sound in stage, the light will run a scene, otherwise it will keep the last scene.
- ✓ **M/S Choose** - 'M/S Choose' is available when light just in 'AUTO RUN' or 'SOUND Ctrl' mode. If this item is set as 'OFF', the light don't send data to other light via DMX Cable. When 'ON', the data will send to other slave light immediately.
- ✓ **Lamp control** - Turn on lamp when this item is set 'ON', otherwise, turn off lamp. The gap between operation is limited to 30 second.
- ✓ **Test mode** - Corresponding to the channel, the initial value will change with the change of the Selfie mode, or the value of the console mode, which can be set in the channel mode.

● Set display

Light support 2 language, rotation display. Enter page to set parameter following:

- ✓ **Language** - Select display as simplified Chinese or English.
- ✓ **Screen Saver** - when panel is idle (there is no operation in 10 second), display will enter saver status. When set as 'mode 1', saver status is close display, as 'mode 2' saver status will display DMX address code (DMX MODE) or display LOGO (AUTO RUN or SOUND CTRL). As 'OFF', keep light up display and show main menu.
- ✓ **Screen Rotation** - Rotate display.
- ✓ **Touch enable** - Disable or enable touch function, when disable, use encoder to operate light and set parameter.
- ✓ **Touch adjust** - adjust touch function, normally, not enter this item.

- **The amount of offset**

- ✓ Pan Set offset = Adjust the offset in the pan direction.
- ✓ Tilt offset = Adjust the Tilt offset.
- ✓ Color offset = Adjust the offset of the color
- ✓ Gobo offset = Adjust the offset of the gobo
- ✓ Focus offset = Adjust the shift of focus
- ✓ Magnification lens & 7-Color wheel offset
- ✓ The offset of Magnification lens & 7-Color wheel sheet

- **Advanced**

- ✓ Language switching. Switch the menu language to Chinese or English.
- ✓ The screen is displayed in reverse. Switches the display orientation of the screen.
- ✓ hours clear.
- ✓ The total usage time is cleared.
- ✓ Maximum protection temperature.
- ✓ After the detection temperature exceeds the protection temperature, the brightness decreases.

- **Hard Ware**

- ✓ Pan Hall
- ✓ Tilt Hall.
- ✓ Colour Hall
- ✓ Gobo Hall
- ✓ Gobo 2 Hall
- ✓ Hall 7
- ✓ Pan Code Hall wheel
- ✓ Pan steps
- ✓ Tilt Code Hall wheel
- ✓ Tilt steps

- **System information.**

- ✓ Version.
- ✓ Lighting use time.
- ✓ High level can clear the total usage time of the lamp.turning on time.
- ✓ Time to use this time.
- ✓ If the temperature of the bulb is exceeded, the brightness decreases.

DMX CHANNELS

14 DMX CHANNELS

Channel	Function	Channel Set	Instructions
1	Dimmer	0-255	Dimmer 0-255
2	Strobe	0-10	No Strobe
		11-255	From slow to fast Strobe
3	Pan	0-255	Pan
4	Pan fine	0-255	16bit Pan fine
5	Tilt	0-255	Tilt
6	Tilt fine	0-255	16bit Tilt fine
7	Pan Tilt speed	0-255	Pan Tilt Speed adjustment
8	color	0-4	White
		5 月 9 日	White light+ color 1
		10 月 14 日	Color 1
		15-19	Color 1+ color 2
		20-24	Color 2
		25-29	Color 2+ color 3
		30-34	Color 3
		35-39	Color 3+ color 4
		40-44	Color 4
		45-49	Color 4+color 5
		50-54	Color 5
		55-59	Color 5+ color 6
		60-64	Color 6
		65-69	Color 6+ color 7
		70-74	Color 7
		75-79	Color 7+ color 8
		80-84	Color 8
		85-89	Color 8+ color 9
		90-94	Color 9
		95-99	Color 9+ color 10
		100-104	Color 10
		105-109	Color 10+ color 11
		110-104	Color 11
		115-119	Color 11+White
		120-200	Color clockwise fast to slow
		201-255	color clockwise slowly to fast
9	GOBO	0-5	White
		6 月 10 日	Gobo 1
		1	
		11 月 15 日	Gobo 2
		16-20	Gobo 3

		21-25	Gobo 4
		26-30	Gobo 5
		31-35	Gobo 6
		36-40	Gobo 7
		41-45	Gobo 8
		46-50	Gobo 9
		51-55	Gobo 10
		56-60	Gobo 11
		61-65	Gobo 12
		66-70	Gobo 13
		75-80	Gobo 14
		81-150	Gobo shake 1-14
		151-200	Gobo clockwise fast to slow
		201-255	Gobo clockwise slowly to fast
10	Focus	0-255	Focus
11	Magnification lens & 7-Color wheel	0-127	off
		128-191	Magnification lens
		192-255	7-Color wheel
12	Prism	0-127	off
		128-136	24 Prism
		137-255	Prism is slow to fast rotate
13	Macro function	0-5	NO effect
		6-55	Auto 1
		56-105	Auto 2
		106-155	Auto 3
		156-205	Auto 4
		206-255	Random mode
14	Restoration	0-25	NO effect
		26-76	Motor reset
		77-127	XY Motor reset
		128-255	Completely reset

6. CLEANING AND MAINTENANCES

Internal and external optical lenses and/or mirrors must be cleaned regularly to optimize light output. The frequency of cleaning depends on the operating environment of the luminaire: humid, smoky or particularly dirty environments can lead to more dirt accumulation on the device's optical components.

1. Clean with a soft cloth using a common glass cleaning fluid.
2. Always dry the parts carefully.
3. Clean external optics at least every 20 days. Clean internal optics at least every 30/60 days

- ✓ We recommend cleaning the device frequently. Please use a damp, lint-free cloth. Never use alcohol or solvents.
- ✓ There are no serviceable parts inside the device. Please refer to the instructions under "Installation Instructions".
- ✓ If you need any spare parts, please order original parts from your local dealer
- ✓ It is recommended to clean the fan and ventilation equipment every 15 days, and the lens and dichroic filter should also be replaced regularly. Special cleaning to maintain optimal light output.
- ✓ Do not use any solvents on the dichroic filter. This will damage the projector.
- ✓ It is recommended that the continuous use time of the lamp does not exceed 4 hours. Otherwise, the service life of the lamp will be shortened. It is recommended to use alternative operations to solve this problem.
- ✓ When you start maintenance or remove the lamp, disconnect the power supply.
- ✓ Before starting installation, let the parts cool down for at least 10 minutes.
- ✓ If you need to replace the lamp, wait at least 10 minutes again for the lamp to cool completely, otherwise it may burn out.
- ✓ Please check the lens or other moving parts in time and keep them clean and static. If any damage or missing is found, the lamp must be replaced or repaired to avoid accidents.
- ✓ The lamp adopts a strong cooling system. Dirt is easy to accumulate, please clean the hot barrel at least every two weeks.
- ✓ After using the bulb, please check if there is waste paper in the air inlet, please clean it up, otherwise the windmill will malfunction and cause a fire.

7. TROUBLESHOOTING

Following are a few common problems that may occur during operation. Here are some suggestions for easy troubleshooting:

■ Some solutions are recommended for some general troubleshooting.

- ✓ Any unapproved problems should always be handled by professionals.
- ✓ Before maintaining the fixture, please disconnect the power supply. Turn off the lamp.
- ✓ Please check if the lamp is suitable.
- ✓ Please check if the connection of the power supply or switch is normal.
- ✓ Please check if the lamp will reach its service life and may explode, please replace the lamp of the same description.
- ✓ Please measure whether the power supply is sufficient.
- ✓ Please check if the operation is correct. Please wait at least 30 minutes until the lamp cools down low enough before connecting the power supply, which can work properly
- ✓ Please check if the DMX 512 controller passes the "turn on" command.
- ✓ Please check if the connection of the trigger circuit is loose.

- ✓ Please check if the connection point of the trigger point is loose. Check the connecting cable
- ✓ Please check if the temperature switch is damaged.
- ✓ Please check if the resistance between the two wires of the "WK" socket of the bottom box driver board is 0.

■ **About the dark and uneven beam:**

- ✓ When the lamp reaches its service life, the light is not enough
- ✓ Please replace it with a new lamp.
- ✓ Please check if the reflector part is dirty and keep it clean.
- ✓ Please measure if the power supply is sufficient.
- ✓ Small adjustments are applied to change the height or screw system until the ideal beam is obtained.

■ **Light shadow fogging:**

- ✓ Please check if the data on the DMX512 controller is suitable for electric focus.
- ✓ Please check if the mechanical parts are blocked. After cleaning, please add high temperature resistant oil

■ **Light intermittent:**

- ✓ Please check if the fan is running normally or if there is any blockage.
- ✓ Please check if the heat sink is blocked.
- ✓ Please check if the lamp has reached the end of its service life.
- ✓ Please check if the power supply is sufficient and the power supply or circuit connection is good.
- ✓ Please check if the low temperature switch is good.

■ **Although the light is on, it cannot accept control commands:**

- ✓ Please check whether the start code address and function options are correct.
- ✓ Please check whether the communication control line is well connected, whether the line is too long or interrupted.
- ✓ Please check whether the control system is effective and whether the signal amplifier of the connected link is effective.
- ✓ Please check whether the communication line is too long or coupled with other devices.
- ✓ Please organize the line, shorten the signal line, and repair the high-voltage line and low-voltage line.
- ✓ Add a signal amplifier isolator.
- ✓ The signal line uses excellent shielded twisted pair (resistance 752)
- ✓ Lamp end and terminal resistor.
- ✓ When the lamp is not cooled enough, if the operation is improper, it will cause ultra-high voltage leakage, damage the circuit and communication IC or CPU. In this case, please replace the PCB board.

- **Stage lights are not moving:**
 - ✓ Please check if the power supply is suitable for the lamp voltage data.
 - ✓ Please check if the fuse of the input voltage is defective.
 - ✓ Please check if the lamp is deformed, the internal parts are damaged, damp, etc., which will cause poor contact.
 - ✓ Please check if the internal leads and connectors are loose.
 - ✓ Please check if the electrical components (such as switches, transformers, ballasts, capacitors, varistors, filters, PCB boards, controllers to motors) are short-circuited or burned.

- **Some projectors cannot respond to control commands:**
 - ✓ Please check whether the motion command is correct.
 - ✓ Please check whether the mechanical part is deformed or loose.
 - ✓ Please check whether the motor socket function is loose or the driver chip is burned.
 - ✓ Please check whether the motor wire is cut at point Z.
 - ✓ Please check whether the motor function is damaged.

- **When working, the pan/tilt does not work properly:**
 - ✓ Please check one by one according to the above steps.
 - ✓ Please check whether the X.Y belt is broken.
 - ✓ Please check whether the receiver X/Y direction data is damaged.
 - ✓ Reset the stage light machine.

DUTY EXONERATIVE AND COPYRIGHT PROTECTION

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- a. Any product that is not damaged according to the instructions is not guaranteed to be in good condition. All interpretations of the instructions are ultimately the property of the supplier.
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