

User Manual



10W Laser Moving Head Light



Please read this manual carefully before use

➤ 1. Safety Guidelines

Thank you for using our products. For safe and effective use of this product, please read the entire contents of this manual carefully before making it. This manual contains: This product introduction and important information such as safe installation and use, please keep it properly for reference.

Note: The equipment is packaged in good condition when it leaves the factory. Please follow the user manual. Failure to follow hand movements can lead to failures and problems, or human failures can lead to machine failures.

- Before using the product, please turn it on and check it carefully to make sure that the lamp is not damaged due to transportation.
- The lamp is suitable for use in a dry environment.
- The installation and operation of the lamp should be carried out by professionals.
- Use a safety rope when securing the device and hold the bottom when moving the light.
- The equipment must be installed in a well-ventilated place.
- Make sure the vents are clear to prevent the lights from overheating during operation.
- Before making, make sure that the power supply voltage matches the power supply voltage required by the device.
- Ground the conductor to prevent electric shock.
- Do not use light in environments above 40 °C.
- There may be a small amount of smoke or odor when the new light is working, and it will disappear after 15 minutes of operation.
- Do not place flammable materials near the lamp to prevent fire.
- Before turning on the light, please carefully check whether the power cord is damaged, and replace it immediately if it is damaged.
- The surface temperature of the lamp can reach 75°C during operation. Do not touch with bare hands.
- Avoid flammable liquids, water, or metal conductors from entering the light to avoid electric shock or fire. If a foreign object gets into the light, cut off the power immediately.
- Avoid working in a dirty and messy environment, and clean and maintain the lights regularly.
- Do not touch the wires when the lamp is running to avoid electric shock.
- Avoid twisting the power cord with other wires.
- In the event of a serious malfunction, please stop using it immediately.
- Do not make your own machine. Doing so by non-professionals can lead to damage or malfunction of the equipment. If repairs are required, please contact the nearest authorized service center.
- If the lamp is not in use for a long time, cut off the power supply during maintenance.
- To avoid fire hazards or electric shock, do not expose the lamp to rain or damp places.

➤ 2. Make an explanation

- ❖ This luminaire is used for the washing effect of the decoration of the site.
- ❖ If the fixture has experienced a severe temperature difference after transport, do not turn on the fixture as it may damage the light due to changes in the environment. Therefore, be sure to make a fixture until it is at a normal temperature.

- ❖ Strong shaking should be avoided during any transportation or movement.
- ❖ Don't pull the light up just through your head, or you may damage the mechanical parts.
- ❖ Do not expose the luminaire to excessive heat, humidity, or excessive dust when installing. And do not run any power cords on the floor. Or it may cause an electric shock to a person.
- ❖ Before installing the fixture, make sure that the installation site is in good safety condition.
- ❖ When installing the clamp, be sure to place the safety chain and check that the screws are properly screwed.
- ❖ Make sure the lens is in good condition. If there is any damage or severe scratches, it is recommended to replace the device.
- ❖ Before use, ensure that the luminaire is made by a qualified person who understands the luminaire.
- ❖ If a second shipment is required, keep the original package.
- ❖ Do not attempt to replace the fixture without any instructions from the manufacturer or designated repair facility.
- ❖ If it is not done in accordance with the user manual or any illegal operation, such as electric shock, short circuit, electronic contact, lamp breakage, etc., it is not covered by the warranty.

➤ **3. Wiring method**

A: In order to reduce the signal error and avoid signal attenuation and interference during transmission, the DMX input of the last machine can be used. Output: Add a 120 ohm 4/3W resistor between the 1 and 2 pins at the end.

B : Connect the light using an XLR signal cable, one end to the output port of the light and the other end to the input port of the next light. XLR signal cables can only be used in series, not in parallel. The DMX512 has a very fast signaling speed. If the signal line is damaged, the weld is not firm, the contact is poor, etc., the signal transmission will be affected, resulting in signal loss or interference.

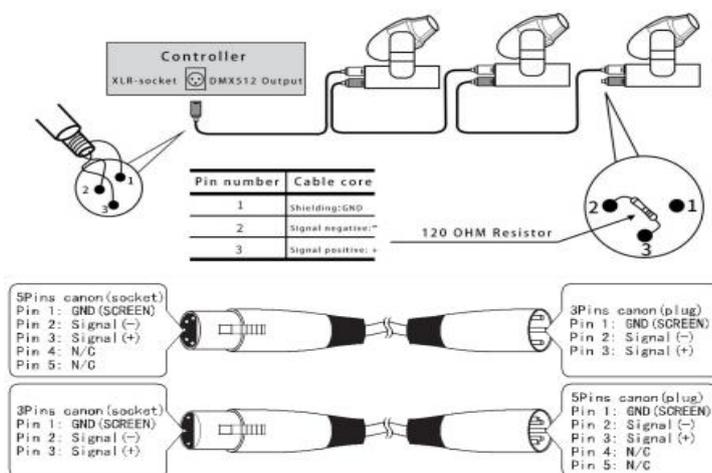
C: When the machine is powered off, the DMX output and input connections are bypassed to keep the DMX line connected.

D: 3-pin XLR connectors are more common than 5-pin XLR:

3-pin XLR: PIN 1: GND, PIN 2: Negative, PIN 3: Positive.

5-pin XLR: PIN 1: GND, PIN 2: Negative, PIN 3: Positive, PIN4/PIN5: Unused.

The wiring method is as follows:



➤ 4. Precautions for installation

In order to ensure the stability of the installation site during the installation of the lamp, it is necessary to ensure that the connection between the lamp pole and the lamp hook is firm during the reversing installation, and the safety rope must be used to assist the suspension; In order to prevent the lamp from falling and slipping, pedestrians are prohibited from passing during installation and commissioning, and regularly check whether the safety rope is worn, whether there are hook screws and loosening, so as to prevent accidents caused by unstable installation caused by hanging installation.

➤ 5. Technical Parameters

Voltage: AC100-240V 50/60Hz

Rated Power: ≤180W

Laser Power: RGB 10W

Operation Modes: DMX512, Master-Slave, Auto-Propelled, Voice Control, ILDA Standard, Software

Control: Pangolin (QS) (USA)

Operating Temperature: -20-45°C

Control Channels: 29, 46

Playback System: High-speed galvanometer 15/20kpps, galvanometer scanning angle: ±20°, linear distortion <2%

Panning Scan Angle: 540° horizontal, 270° vertical; 16-bit

Patterns: Various beams, complex graphics, hundreds of animation and line effects stored

Display: Color LCD, switchable between Chinese and English, and display in both upright and inverted modes

Operating Environment: Indoor

Protection: There is a power failure protection system device, dustproof, moisture-proof, anti-corrosion, anti-rust, good sealing system, and efficient cooling and heat dissipation area covering 50% of the chassis area.

Safety device: stable high-speed control system, safe start key, laser initial delay safe start device, scanning fault protection device.

Applications: bars, KTV, performing arts bars, dance halls, hotel banquet halls, entertainment venues, etc

Packing size: 34×31×44cm (1pcs/carton)

Gross weight: 9.5kg (1pc)

➤ 6. Menu Description

Display & Description:

"Yellow box": indicates the current location item.

Red Background: Indicates the current work or the last selected item.

Turn the knob to change the current position or edit the value. Press the knob to enter edit mode or go to the lower menu.

The initial interface is as follows: 4 rows and 2 columns, "/" before the English menu, "/" followed by the Chinese menu. Press the Confirm button to enter the corresponding main menu.

➤ 7. LCD display panel is as shown below:



 LED Indicator

 SelectMenu/Menu selection

1. LED indicator status description.

Laser Key RG:Slow Laser lock status red and green flash slowly

SafetyProtected R: ON G:OFF Light blocking protection status red

DMX And Slave Mode ROFF G:Middle DMX, slave mode green medium speed flash

Auto Mode R: OFF G:Slow Auto Mode Green Slow Flashing

Music Mode, R: OFF G:Fast Voice control mode, green voice control flash

ILDA Mode R: OFF G:Fast ILDA interface mode green fast flashing

2. SelectMenu/Menu selection.

Select the required function menu by rotating left and right. The menu is selected when it is high.

Press OK/Return to select the function.

8.The LCD Chinese and English menu functions are as follows:

Run Function	Menu Functions	Menu Settings	Instructions
DMX Control DMX Control	DMX Setup DMX Settings	DMX+Slave	DMX512 mode and slave mode, when the master and slave are connected, the slave must be set to DMX+slave
		DMX+Slave	
		DMX512	DMX512 Mode
	Channel	16CH	Normal mode
	Channel Mode	36CH	Professional Mode
	Address Address code	1	Set the address code of the light
Dmx Signal DMX signal	Disconnect	No DMX signal received	
	disconnect		
	Connect	DMX signal reception is normal	
	connect		
StateInfo Running status	Laser ON/Laser light	Display light working status	
	Laser OFF/Laser off		
QuickPlay Fast Play	Trigger Trigger Play	Auto	Self-propelled mode
		Self-propelled	
		Music	Voice control mode
		Voice control	
Playing Now Playing	Show:All	Select the program to play, All is all programs	
PlayList	List: All	Select the playlist, All is the entire	

	Playlist		list
		SizeX:100	Select the horizontal size of the self-propelled pattern
		SizeY:100	Select the vertical size of the self-propelled pattern
		Bright:255	Select the overall brightness of the self-propelled pattern
	PlaySpeed Playback Speed	AutoSpeed 50 50/Self-propelled speed	Select the self-propelled speed from 0 to 100
		Sensitivity 80 80/Voice control sensitivity	Select the voice control sensitivity from 0 to 100
	StateInfo Running status	Laser ON/Laser light Laser OFF/Laser off	Display light working status
ILDA-Mode ILDA Control	ILDASetup ILDA Settings	ILDA-DB25	Select DB25 signal input, automatically identify ILDA line
		ILDA-NET ILDA-Network Cable	Select the network cable signal input, and note that you can only select other operating modes after manually shutting it down.
	ILDA1 ILDA1 Run	Reserve Not used	reserve
	ILDA2 ILDA2 Run	Reserve Not used	reserve
	Signal ILDA signal	Disconnect disconnect	ILDA line is not connected
		Connect connect	ILDA line connection is normal
	StateInfo Running status	Laser ON/Laser light Laser OFF/Laser off	Display light working status
Laser Setup Laser light settings	ScanRate Scan speed	High speed	Set the scanning speed of the galvanometer
		Pattern:1	Selecting a test pattern
	Color Color settings	RGB	Set the color of the light
		Rmax:255	Set the red brightness of the laser
		Gmax:255	Set the green brightness of the laser
	XY-Invert Inverting setting	Bmax:255	Set the blue brightness of the laser
		Invert-X:Yes No YesNo/XInvert	Set horizontal inversion
	Invert-Y:Yes No YesNo/Y invert	Set vertical inversion	

		SwapXY:Yes No YesNo/XY exchange	Setting XY Swap
		<<<	return
	XY-Size Size settings	X: 100	Set the horizontal scan size
		Y: 100	Set the vertical scan size
	XY-Offset Location Settings	X: 128	Set the horizontal position, close the light when out of bounds
		Y: 128	Set vertical position, close the light when out of bounds
Settings General settings	Safety Security protection	OFF closure	Set safety protection to off, laser single point light
		ON Open	Set safety protection to on, laser single point light off
	Master Host Settings	OFF closure	Set the host to shut down, and cannot control the master and slave online
		ON Open	Set the host to start, master-slave online control
	LaserType Laser	Anglog simulation	Setting up analog modulated lasers
		TTL	Setting up TTL modulated laser
	DMX-Trig DMX Trigger	TriggerRun Trigger Run	Automatically runs DMX512 mode after receiving DMX signal
		ManualRun Manual Run	Manually select DMX512 mode. The host must be set to manual operation when the master and slave are connected.
Oper.Temp Thermostat	OFF closure	Turn off the laser temperature detection function	
	ON Open	Turn on the laser temperature detection function	
SystemSet System Settings	Language Voice message settings	Chinese English	Set the menu interface to English
			Set the menu interface to Chinese
	Backlight Backlit lock screen	LCD ON Always on	LCD backlight always on
		15S LCD OFF 15S-Close	LCD backlight off
		15S LCD Lock 15S-Lock screen	LCD backlight turns off and the screen is locked
	Display Display Settings	Normal normal	Set the menu interface to display normally
180deg		Set the menu interface to rotate 180	

		180 degrees	degrees
	App Skin Skin Settings	1 to 4	Set the skin style of the menu interface
	Default Restore Defaults	111	When you reach 222, press OK to restore factory settings.
SystemInfo System Information	Version System version	Thread3.13	View system information
	Hardware Hardware version	C100MV1.8	View Hardware Information
	App Name Program Name	YM01V1.56G	View software information
	Firmware System Firmware	2024012201	View firmware information
	UpdateApp Firmware Upgrade	CheckVer Check for upgrades	Upgrade function reserved
Led moving head Move Head	Head shaking show MoveShow	All/Program Show:All Head shaking speed 255 Speed:255	
	Shake head manually RunManual	Pan: 128 Tilt: 128	
	Shaking head inverted Movephase	No/Pan Invert Panphase :No No/Tilt Invert Tiltphase:No	
	Shaking head settings MoveSetup	Lock:230	234 Enter settings
	Led Show LedShow	All/Led Program Show:All 50/Led speed Speed:50 255/Led brightness Bright:255	

➤ **9.DMX-512 channel description:**

A. Normal mode: 29CH

CH		Channel Value	Control content
CH1	Horizontal motor	0~255	Horizontal motor
CH2	Horizontal motor 16Bit	0~255	Horizontal motor 16Bit
CH3	Vertical motor	0~255	Vertical motor
CH4	Vertical motor 16Bit	0~255	Vertical motor 16Bit
CH5	Motor speed	0~255	Horizontal and vertical motor speed
CH6	Shake the system to reset	0~250	invalid
		251~255	The system resets after a delay of 3 seconds
CH7	Laser switch light	0	Turn off the lights
		1~255	Light brightness 1-100%
CH8	Automatic trigger	0~26	Default self-propelled speed
		27~127	Select the self-propelled speed
	Voice trigger	128~255	Select the voice control sensitivity
CH9	Pattern Group	0~127	Select a pattern group for every 16 values
	Dynamic Effects Group	128~255	Select a dynamic effect group for every 16 values
CH10	Pattern selection	0~255	Choose a pattern every 5 values
	Dynamic effect selection	0~1	Play all programs of the selected dynamic effect group
		2~255	Select an effect program for every 2 values
CH11	Strobe	1~255	Strobe speed selection
CH12	Pattern size	0~255	Choose from large to small patterns
CH13	Horizontal position coarse adjustment	0~255	Horizontal position coarse adjustment selection, the value 128 is the middle position, out of bounds close the light
CH14	Vertical position coarse adjustment	0~255	Vertical position coarse adjustment selection, the value 128 is the middle position, out of bounds close the light
CH15	color	0~3	Original color
		4~31	Fixed seven-color selection, choose one for every 4 values
		32~35	Colorful color changing effect
		36~39	Red, green and blue color changing effect
		40~43	Original color change effect
		44~239	Multiple combinations of water effects, choose one for every 4

			values
		240~255	Gradient effect
CH16	Color Speed	0~3	Color Speed Off
		4~127	Color speed from slow to fast, positive
		128~255	Color speed from slow to fast, invert
CH17	Line scan speed	0~127	Line scan speed selection
	Point scanning speed	128~255	Point scanning speed selection
CH18	Rotate Z	0~127	Rotate Z angle selection
		128~255	Rotation Z speed selection
CH19	Rotate X	0~127	Rotate X angle selection
		128~255	Rotation X speed selection
CH20	Rotate Y	0~127	Rotate Y angle selection
		128~255	Rotation Y speed selection
CH21	Horizontal movement	0~127	Horizontal movement position selection
		128~255	Horizontal movement speed selection
CH22	Vertical movement	0~127	Vertical movement position selection
		128~255	Vertical moving speed selection
CH23	Zoom	0~127	Scaling fixed size selection
		128~255	Zoom speed selection
CH24	Gradual Drawing	1~255	Gradient speed selection
CH25	Horizontal waves	1~127	Wave speed selection
	Vertical Waves	128~255	
CH26	LED overall brightness	0~255	LED brightness 0-100%
CH27	LED Effects	0~255	Select the LED effect, select an effect for every 8 values
CH28	LED Effect Speed	0~255	Select LED effect and speed from slow to fast
CH29	LED Strobe	0~255	Select LED strobe speed from slow to fast

B. Professional mode: 46CH

CH	Channel Value	Control content
CH1	Horizontal motor	0~255 Horizontal motor
CH2	Horizontal motor 16Bit	0~255 Horizontal motor 16Bit
CH3	Vertical motor	0~255 Vertical motor
CH4	Vertical motor 16Bit	0~255 Vertical motor 16Bit

CH5	Motor speed	0~255	Horizontal and vertical motor speed
CH6	Shake the system to reset	0~250	invalid
		251~255	The system resets after a delay of 3 seconds
CH7	Laser switch light	0	Turn off the lights
		1~255	Light brightness 1-100%
CH8	Automatic trigger	0~26	Default self-propelled speed
		27~127	Select the self-propelled speed
	Voice trigger	128~255	Select the voice control sensitivity
CH9	Pattern Group	0~127	Select a pattern group for every 16 values
	Dynamic Effects Group	128~255	Select a dynamic effect group for every 16 values
CH10	Pattern selection	0~255	Choose a pattern every 5 values
		Dynamic effect selection	0~1
		2~255	Select an effect program for every 2 values
CH11	Strobe	1~255	Strobe speed selection
CH12	Pattern size	0~255	Choose from large to small patterns
CH13	Horizontal position coarse adjustment	0~255	Horizontal position coarse adjustment selection, the value 128 is the middle position, out of bounds close the light
CH14	Vertical position coarse adjustment	0~255	Vertical position coarse adjustment selection, the value 128 is the middle position, out of bounds close the light
CH15	color	0~3	Original color
		4~31	Fixed seven-color selection, choose one for every 4 values
		32~35	Colorful color changing effect
		36~39	Red, green and blue color changing effect
		40~43	Original color change effect
		44~239	Multiple combinations of water effects, choose one for every 4 values
		240~255	Gradient effect
CH16	Color Speed	0~3	Color Speed Off
		4~127	Color speed from slow to fast, positive
		128~255	Color speed from slow to fast, invert
CH17	Line scan speed	0~127	Line scan speed selection
	Point scanning speed	128~255	Point scanning speed selection
CH18	Rotate Z	0~127	Rotate Z angle selection
		128~255	Rotation Z speed selection
CH19	Rotate X	0~127	Rotate X angle selection
		128~255	Rotation X speed selection
CH20	Rotate Y	0~127	Rotate Y angle selection
		128~255	Rotation Y speed selection

CH21	Horizontal movement	0~127	Horizontal movement position selection
		128~255	Horizontal movement speed selection
CH22	Vertical movement	0~127	Vertical movement position selection
		128~255	Vertical moving speed selection
CH23	Zoom	0~127	Scaling fixed size selection
		128~255	Zoom speed selection
CH24	Gradual Drawing	1~255	Gradient speed selection
CH25	Horizontal waves	1~127	Wave speed selection
	Vertical Waves	128~255	
CH26	Pattern Library	0~255	Select a pattern library for every 16 values
CH27	pattern	0~255	Choose a pattern every 5 values
CH28	Strobe	1~255	Strobe speed selection
CH29	Pattern size	0~255	Choose from large to small patterns
CH30	Horizontal position coarse adjustment	0~255	Horizontal position coarse adjustment selection, the value 128 is the middle position, out of bounds close the light
CH31	Vertical position coarse adjustment	0~255	Vertical position coarse adjustment selection, the value 128 is the middle position, out of bounds close the light
CH32	color	0~3	Original color
		4~31	Fixed seven-color selection, choose one for every 4 values
		32~35	Colorful color changing effect
		36~39	Red, green and blue color changing effect
		40~43	Original color change effect
		44~239	Multiple combinations of water effects, choose one for every 4 values
		240~255	Gradient effect
CH33	Color Speed	0~3	Color Speed Off
		4~127	Color speed from slow to fast, positive
		128~255	Color speed from slow to fast, invert
CH34	Line scan speed	0~127	Line scan speed selection
	Point scanning speed	128~255	Point scanning speed selection
CH35	Rotate Z	0~127	Rotate Z angle selection
		128~255	Rotation Z speed selection
CH36	Rotate X	0~127	Rotate X angle selection
		128~255	Rotation X speed selection
CH37	Rotate Y	0~127	Rotate Y angle selection
		128~255	Rotation Y speed selection
CH38	Horizontal movement	0~127	Horizontal movement position selection
		128~255	Horizontal movement speed selection

CH39	Vertical movement	0~127	Vertical movement position selection
		128~255	Vertical moving speed selection
CH40	Zoom	0~127	Scaling fixed size selection
		128~255	Zoom speed selection
CH41	Gradual Drawing	1~255	Gradient speed selection
CH42	Horizontal waves	1~127	Wave speed selection
	Vertical Waves	128~255	
CH43	LED overall brightness	0~255	LED brightness 0-100%
CH44	LED Effects	0~255	Select the LED effect, select an effect for every 8 values
CH45	LED Effect Speed	0~255	Select LED effect and speed from slow to fast
CH46	LED Strobe	0~255	Select LED strobe speed from slow to fast