STARSHINE LIGHTS PRODUCT MANUAL

MT8 MOVING HEAD LASER PRODUCT MANUAL

Catalogue

●Product Warranty Card

product name	product model

ultimate user
name of organization ：
address ：
contacts ：
telephone ：

date of manufacture	User purchase date

Sell products	
contacts ：	
Phone:	Seal

Note: All blank fields above must be truthfully completed and stamped by the end user and the seller; otherwise,

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Warranty Statement

Damage caused by improper use, human error, unauthorized operation, or force majeure is not covered by the warranty.
This product has undergone strict quality inspection before leaving the factory. It is delivered with verified performance and complete packaging. All users must carefully read and strictly follow the safety warnings, operating instructions, and maintenance guidelines in this manual.
Any product damage caused by misuse, incorrect operation, unauthorized modification, or failure to follow the instructions will not be covered under warranty. Any malfunction or accident caused by negligence, improper operation, or failure to follow the user manual shall be the responsibility of the user.

Warranty Terms

The free warranty period is 24 months from the date of purchase, provided that the product is used under normal conditions and in accordance with this user manual.
If the product fails during the warranty period, please contact the authorized dealer or sales store for repair service.
When requesting warranty service, the user must present this warranty card. If the warranty card is missing, incomplete, altered, or not stamped by the seller, warranty service may be refused.
Please keep this warranty card safe. No replacement will be issued if the warranty card is lost.

Non-Warranty Conditions

The following conditions are not covered by the free warranty. Repair service may still be available, but additional charges may apply.
Seal Damage: The machine's original seal or unboxing label has been intentionally removed or damaged.
Improper Operation: Malfunctions or damage caused by failure to follow the user manual and operating precautions.
Transport Damage: Faults or damage caused by shaking, impact, or improper transportation after purchase.
Unauthorized Repair: Faults or damage caused by user repair, modification, disassembly, or cleaning.
Abnormal Voltage: Component failure or malfunction caused by unstable or abnormal voltage.
External Damage: Damage caused by fire, natural disasters, earthquakes, flooding, or other force majeure events.
Invalid Warranty Card: The warranty card does not record the purchase date, user name, seller name, or official seller stamp.
External Equipment Issues: Faults or damage caused by connecting incompatible or unauthorized external devices.
We shall not be responsible for any direct or indirect failure of other connected devices caused by this product.

Important Operating Notes

Based on the operating characteristics of all-solid-state lasers, continuous long-term operation should be avoided. After continuous use for 3 hours, turn off the laser fixture for 15 minutes to allow proper cooling before reuse.
Do not touch the reflective lens inside the laser projection window with your hands.
High voltage exists inside the device. Do not disassemble the laser fixture without professional guidance.
Damage caused by human error, misuse, unauthorized disassembly, or natural disasters is not covered by the warranty.

Dear User

Thank you for choosing this professional laser lighting product.
This product integrates advanced technologies in optics, electronics, and digital graphic processing. It is specially designed for dance halls, DISCO venues, clubs, bars, and stage entertainment spaces.
The built-in beam programs can respond to music rhythms. When used with smoke or haze, the laser beams can form vivid light curtain effects. With effects such as the Time Tunnel, this fixture creates an intense and immersive spatial lighting atmosphere, bringing the vibrant world of laser shows to your venue.

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Packing List

Item	Quantity
Complete Laser Performance System Unit	1 pc
International Power Cord	1 pc
User Manual	1 copy
DMX512 Signal Cable	1 pc

Product Specifications and Features

High-Brightness Color Laser:
This product uses the latest high-brightness color laser technology, offering a compact structure, stable performance, reliable operation, and long service life.
Advanced Graphic Processing:
The animated laser system uses a high-capacity single-chip microcontroller and high-performance optical scanning galvanometer to create vivid laser text, patterns, graphics, and animation effects.
128 Built-In Beam Effects:
The fixture includes 128 built-in beam effects designed for DISCO, club, and stage applications.
Multiple Playback Modes:
Supports sound-triggered operation, console manual control, DMX512 signal control, PC control, and laser control software systems to meet different application needs.
DMX512 Compatibility:
Fully compatible with the international DMX512 signal standard, with flexible control channels for professional lighting operation.
Master-Slave Synchronization:
Multiple fixtures can be connected through master-slave mode to achieve synchronized laser effects.

Technical Parameters

Parameter	Description
Control Signal	International standard DMX512 signal
Control Methods	DMX512, Auto, Sound, Master-Slave
Power Supply	90–250V, 50/60Hz
Dispersion Angle	±30°
Operating Temperature	-20°C to 40°C
Temperature System	Built-in thermostat system with automatic temperature adjustment
Control Modes	Voice, Auto, DMX, ILDA
Software Compatibility	Compatible with major laser control software
Channel System	28 channels / SD laser control system
Display Information	DMX address, working mode, current file, software version

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Control Panel Operation

Main Panel
The display panel shows the current working status, including:
DMX Address: Current DMX address setting
Working Mode: Current operation mode
File: Current working file
Version: Software version
Click the button on the main panel to enter the menu.
Under ILD and PRG modes, double-click the button to change the folder.
After entering the menu, double-click the button to exit.

Menu Functions

DMX Address Configuration
DMX address range: 1–512
Display Mode
Available operation modes include:
Auto Mode
PRG Mode
ILD Mode
Sound Mode

PRG Mode
Playlist mode. The system plays PRG files, and the second line of the display shows the current playlist name.
ILDA Mode
ILDA playback mode. The system loops an ILDA file with the .ILD extension. File names are not case-sensitive.
Audio Mode
Sound mode. The system plays the internal voice-control program according to sound input.
Auto Mode
Auto mode plays the internal automatic program.
Phase Setting
Press UP and DOWN to adjust phase and graphic orientation. This setting only modifies the phase of the built-in program.
Sound Sensitivity
Sensitivity range: 0–100
SD Card Folder Selection
Select the folder stored on the SD card for program playback.
Size Setting
Graphic size adjustment range: 10–100
Playback Speed Setting
Adjust playback speed according to the scanner speed parameters. Do not set the speed too high, as this may damage the galvanometer scanner.
DMX Status Configuration
When DMX is not enabled, the system operates according to the default display mode.
Laser Output Lock
When the output is deactivated, the system enters HOLD status.
Master-Slave Mode
Slave Mode: The fixture operates as a slave unit and receives signals from the master unit.
Master Mode: The fixture operates as the master unit and outputs control signals. Only one master unit should be used in each system to prevent signal interference.
X/Y Phase Settings
The X-phase and Y-phase settings adjust the phase of both built-in programs and external ILDA input.

Warning

Before installation, maintenance, or cleaning, always disconnect the power supply.
This fixture is classified as a Class III B laser product. Direct viewing of the laser beam is hazardous. The minimum exposure distance is 13 cm, and exposure time should not exceed 10 seconds.
Keep the fixture at a safe distance from combustible materials.
This fixture requires a stable power supply. If the voltage exceeds the recommended range, use a voltage stabilizer to avoid shortening the laser lifespan.

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Maintenance

Regular maintenance is required to keep the fixture in good working condition.
Long-term use may cause dust to accumulate on the lens surface near the light output window. This can reduce laser output power and weaken the beam effect.
Clean the lens using professional lens paper or alcohol-soaked cotton swabs. Do not use wet cloths or chemical solvents.
The cleaning frequency should depend on the usage environment and operating time. A cleaning interval of approximately 20 days is recommended for regular use.
Also regularly wipe the machine housing with a clean towel and check whether the fan and ventilation areas are clean and unobstructed.

Maintenance Checklist

Part	Maintenance Method
Laser Lens	Clean with lens paper or alcohol cotton swabs
Housing Surface	Wipe with a clean dry towel
Fan Area	Check and remove dust regularly
Ventilation Ports	Keep clear and unobstructed
Internal Components	Do not open or clean without professional guidance

Common Product Fault Comparison Table	
failure cause	**Main Fault Analysis and Solutions**
The lamp does not emit light inoperation	1. Check whether the power cord is connected to the lamp and whether the power fuse is blown. 2. Does the input voltage match the specified voltage of the lamp?
Lamp fails to respond to voice command	1. The potentiometer may be set to the minimum value. Try adjusting the potentiometer again.
The lamp emits light normally. but not controlled by the controller	1. Check whether the DIP starting address code setting for the lamp is correct 2. Check whether the XIR signal line is damaged
Master-slave synchronization mode: The master is normal, but the slave is abnormal	1. Only one host should be used. The host must not be connected to a DMX console. Set to voice control or auto mode. 2. The host setup is correct but the issue persists. Check the network cable.
Key malfunction, no effect	1. Check whether any buttons have failed to reset properly.
Dim light with significant reduction in brightness	1. Check whether the bulb or laser tube has reached its service life. 2. Inspect internal and external optical lenses for stains and maintain cleanliness.

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Installation Instructions

1. Check the Power Supply
2. Before installation, make sure the power supply voltage matches the voltage rating marked on the fixture.
3. Professional Installation Required
4. The fixture must be installed by qualified professional personnel. Make sure the fixture is securely mounted, properly clamped, and adjusted to the correct lighting angle.
5. Keep a Safe Distance
6. During installation, make sure there are no flammable or explosive materials, such as decorations, within 0.5 meters of the fixture. Keep at least 30 cm of clearance between the fixture and the wall.
7. Keep Ventilation Clear
8. Make sure the cooling fan and air outlet are not blocked by other equipment, curtains, decorations, or installation materials.
9. Use a Safety Cable
10. For safety, use a safety steel rope capable of supporting at least 10 times the weight of the fixture. Attach the safety rope through the designated safety connection hole for secondary protection.
11. Grounding Requirement
12. Proper grounding is essential for safe operation. Make sure the ground wire is correctly connected before powering on the fixture.

Important Precautions

1. Follow the Manual
2. Strictly follow the procedures in this user manual. Do not disassemble the fixture without authorization. If a fault occurs, contact a qualified technician or authorized dealer for repair.
3. Indoor Use Only
4. This product is designed for indoor use only. Keep it away from water, moisture, vibration, impact, and dusty environments.
5. Operating Temperature and Cooling
6. Based on the characteristics of semiconductor lasers, the recommended operating environment is 15°C–30°C. After continuous operation for 10 hours, turn off the fixture for 10 minutes to allow the laser system to cool completely. Failure to do so may shorten the service life of the laser source.
7. Avoid Vibration and Impact
8. For fixed installation, take precautions to prevent strong vibration, shaking, or impact. Avoid moving or shaking the fixture during operation.
9. Keep Foreign Objects Out
10. Prevent foreign objects from entering the fixture housing to avoid malfunction or internal damage.
11. Maintain Proper Ventilation
12. During operation, make sure the exhaust path is clear and unobstructed to ensure proper heat dissipation.
13. Check the Plug Before Powering On
14. Before powering on the fixture, make sure the plug is securely inserted and the power supply is properly grounded to prevent electric shock.
15. Avoid Frequent Power Switching
16. Avoid frequently turning the fixture on and off, as this may reduce the lifespan of the laser source. Avoid unnecessary long-term continuous operation.
17. Do Not Remove Repair Seals
18. Do not remove the repair sticker or warranty seal. If the seal is removed, the product may no longer qualify for warranty service.
19. Avoid Optical Viewing Devices
20. Do not view the laser beam through binoculars, telescopes, cameras, or other long-distance optical devices, as this may increase the risk of eye injury.
21. Keep Hands Dry
22. Do not touch the fixture or pull the power cord with wet hands.
23. No User-Serviceable Parts Inside
24. This fixture contains no user-serviceable components. Do not open the housing or attempt internal repairs.
25. Contact the Dealer for Abnormal Operation
26. If the semiconductor laser brightness decreases significantly, or if any other damage or abnormal operation occurs, contact the dealer promptly.
27. Use Original Packaging for Transport
28. During re-transportation, protect the fixture from vibration and impact. It is recommended to use the original packaging whenever possible.

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Indicator Status Description

Indicator Color	Status / Mode Description
Red Indicator	Power supply status, Auto mode, Sound mode, ILD mode, or PRG mode
Green Indicator	Auto mode, Sound mode, ILD mode, or PRG mode operating status
Blue Indicator	Auto mode, Sound mode, ILD mode, or PRG mode display status

Directions for Use

1. Select Working Mode
When the PC key switch is set to ON, the system enters PC control mode.
In PC control mode, the system can be controlled by Pangolin software to run professional laser performance programs.
When the PC key switch is turned OFF, different working modes can be selected through the function keys on the fixture.

MODE Button Operation

Press the MODE button to switch between the following display modes:
"0000" → "Auto" → "d001" → "SLAV"

Display	Meaning
0	System switch-hour counter
Auto	Auto program mode
d001	DMX address mode
SLAV	Slave mode

3. DMX Console Operation

After powering on both the laser fixture and the DMX console, the user can control various functions through the console, including:

- Color control
- Pattern selection
- Movement speed
- Beam effects
- Laser animation effects
- Brightness adjustment
- Synchronized show programming

Power Supply and Signal Connection

Before connecting the fixture, make sure the power supply voltage and frequency match the fixture's rated input. Use the correct power cable and signal cable, and make sure all connections are secure before operation.
For DMX control, connect the fixture to a DMX console using a standard DMX512 signal cable. For multi-fixture setups, connect each fixture in sequence and set the correct DMX address or Master-Slave mode according to the show requirements.

voltage	AC100-240V		AC100-120V	AC200-240V
select and use				
frequency	50HZ	60HZ	50HZ—60HZ	
select and use				

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Connection and Control of Lamp Power Supply

Connect the laser lamp to the main power supply line using a dedicated plug, and ensure that the voltage and frequency indicated on the label match those of the power supply.

Channel table content:

channel	function	numeric value	explain
CH1	x	0-255	X shift
CH2	xFine	0-255	X fine-tune movement
CH3	xRun	0-127	Controlled by the "X Movement" - "X Fine-Tuning Movement" channel, covering 0-540 degrees
		128-189	Clockwise from fast to slow
		190-193	cease
		194-255	Countdown from slow to fast
CH4	y	0-255	Y shift
CH5	yFine	0-255	Y fine-tuning movement
CH6	yRun	0-127	Controlled by the "Y Movement" - "Y Fine-Tuning Movement" channel for 0-180 degrees
		128-189	Clockwise from fast to slow
		190-193	cease
		194-255	Countdown from slow to fast
CH7	speed	0-255	XY speed from slow to fast
channel	function	numeric value	explain
CH8	Head-shaking reduction	0-250	all-or-none
		251-255	Retain this position for 3 seconds to initiate reset
		128-191	Flip automatically clockwise

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channel	function	cresset	numeric value	explain
CH9	Switch light	1	0-10	douse the glim
			11-255	Light brightness: 1-100%
channel	function	cresset	numeric value	explain
CH10	LED effect	1	0-10	LED light-off mode
			11-255	Select LED effects. Choose one effect per value.
CH11	LED effect position and speed	1	0-128	Manual LED effect position
			129-170	Positive and negative circulation action, with speed decreasing from fast to slow
			171-212	Forward motion, with speed decreasing from fast to slow
			213-255	Reverse motion, with speed decreasing from fast to slow
CH12	LED stroboflash	1	0～255	Select LED strobe speed from fast to slow
channel	function	cresset	numeric value	explain
CH13	Chart Group select	1	0-49	Static group of images, 1 group for every 5 values
			50-99	Self-propelled effect group, 1 group for every 5 values
			100-199	SD card effect group, 1 group for every 5 values
			200-255	Built-in storage effect group, 1 group for every 5 values
CH14	figure	1	0-255	1 graphic per every 3 values
CH15	Red light modulation	1	0-255	Red light transitions from dark to bright
CH16	Green light modulation	1	0-255	The green light transitions from dark to bright.
CH17	blue light modulation	1	0-255	Blue light transitions from dark to bright
CH18	pigment	1	0-1	primary colours
			2～22	7 solid colors: red, green, blue, yellow, cyan, purple, and white
			23-25	7 solid color variations
			26-46	7-color (see table below for details)
			47-49	7-stage color variation
			50-154	Color Palette
			155-255	Color Segment Flow
			192-255	Automatically flip counterclockwise

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CH19	stroboflash	1	1～255	Selection of strobe speed, from fast to slow
CH20	X shift	1	0-255	Manual position adjustment (the "X Auto Move" channel only works when set to 0)
CH21	Y shift	1	0-255	Manually adjust position (the "Y Auto Move" channel only works when set to 0)
CH22	Display mode	1	0-63	Normal display
			64-127	Highlights
			128-191	Display at 4:00 PM
			192-255	Display at 8 o'clock
CH23	X overturn	1	0	No flip
			1-127	hand regulation
			128-191	Flip automatically clockwise
			192-255	Automatically flip counterclockwise
CH24	Y overturn	1	0	No flip
			1-127	hand regulation
			128-191	Flip automatically clockwise
			192-255	Automatically flip counterclockwise
CH25	Center rotation	1	0	Non-Rotation
			1-127	hand regulation
			128-191	Rotate automatically clockwise
			192-255	Rotate automatically counterclockwise
CH26	X Auto Move	1	0-63	Automatic forward movement, out-of-bound crossing
			64-127	Automatic cyclic motion
			128-191	Automatic reverse movement, disappears after exiting the boundary
			192-255	Automatic forward movement, out-of-bound return
CH27	Y-axis auto movement	1	0-63	Automatic forward movement, out-of-bound crossing
			64-127	Automatic cyclic motion
			128-191	Automatic reverse movement, disappears after exiting the boundary
			192-255	Automatic forward movement, out-of-bound return

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CH28	zoom	1	0-63	Adjust size manually
			64-127	amplify
			128-191	reduce
			192-255	Zoom cyclically
CH29	Gradient Paint	1	0-10	No gradual rendering
			11-74	Manual adjust gradient fill
			75-104	Auto Fill (Plus)
			105-144	Auto Fill (Subtract)
			145-184	Auto Cycle Gradient Paint
			185-224	Loop fill with head-to-tail connection (enhanced)
			225-255	Loop fill with head-to-tail connection (reduced)
CH30	wave	1	0	No waves
			1-127	x wave
			128-255	y wave
channel	function	cresset	numeric value	explain
CH31	Switch light	2	0-10	douse the glim
			11-255	Light brightness: 1-100%
channel	function	cresset	numeric value	explain
CH32	LED effect	2	0-10	LED light-off mode
			11-255	Select LED effects. Choose one effect per value.
CH33	LED effect position and speed	2	0-128	Manual LED effect position
			129-170	Positive and negative circulation action, with speed decreasing from fast to slow
			171-212	Forward motion, with speed decreasing from fast to slow
			213-255	Reverse motion, with speed decreasing from fast to slow
CH34	LED stroboflash	2	0～255	Select LED strobe speed from fast to slow
			1-127	x wave
			128-255	y wave

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channel	function	cresset	numeric value	explain
CH35	Chart Group select	2	0-49	Static group of images, 1 group for every 5 values
			50-99	Self-propelled effect group, 1 group for every 5 values
			100-199	SD card effect group, 1 group for every 5 values
			200-255	Built-in storage effect group, 1 group for every 10 values
CH36	figure	2	0-255	1 graphic per every 3 values
CH37	Red light modulation	2	0-255	Red light transitions from dark to bright
CH38	Green light modulation	2	0-255	The green light transitions from dark to bright.
CH39	blue light modulation	2	0-255	Blue light transitions from dark to bright
CH40	pigment	2	0-1	primary colours
			2～22	7 solid colors: red, green, blue, yellow, cyan, purple, and white
			23-25	7 solid color variations
			26-46	7-color (see table below for details)
			47-49	7-stage color variation
			50-154	Color Palette
			155-255	Color Segment Flow
CH41	stroboflash	2	1～255	Selection of strobe speed, from fast to slow
CH42	X shift	2	0-255	Adjust position manually
CH43	Y shift	2	0-255	Adjust position manually
CH44	Display mode	2	0-63	Normal display
			64-127	Highlights
			128-191	Display at 4:00 PM
			192-255	Display at 8 o'clock
CH45	X overturn	2	0	No flip
			1-127	hand regulation
			128-191	Flip automatically clockwise
			192-255	Automatically flip counterclockwise
CH46	Y overturn	2	0	No flip
			1-127	hand regulation
			128-191	Flip automatically clockwise

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CH47	Center rotation	2	0	Non-Rotation
			1-127	hand regulation
			128-191	Rotate automatically clockwise
			192-255	Rotate automatically counterclockwise
CH48	X Auto Move The "X Mobile" channel only works when it is set to 0	2	0-63	Automatic forward movement, out-of-bound crossing
			64-127	Automatic cyclic motion
			128-191	Automatic reverse movement, disappears after exiting the boundary
			192-255	Automatic forward movement, out-of-bound return
CH49	Y-axis auto movement The "Y Mobile" channel only works when it is set to 0	2	0-63	Automatic forward movement, out-of-bound crossing
			64-127	Automatic cyclic motion
			128-191	Automatic reverse movement, disappears after exiting the boundary
			192-255	Automatic forward movement, out-of-bound return
CH50	zoom	2	0-63	Adjust size manually
			64-127	amplify
			128-191	reduce
			192-255	Zoom cyclically
CH51	Gradient Paint	2	0-10	No gradual rendering
			11-74	Manual adjust gradient fill
			75-104	Auto Fill (Plus)
			105-144	Auto Fill (Subtract)
			145-184	Auto Cycle Gradient Paint
			185-224	Loop fill with head-to-tail connection (enhanced)
			225-255	Loop fill with head-to-tail connection (reduced)
CH52	wave	2	0	No waves