STARSHINE LIGHTS PRODUCT MANUAL

LASER 260W BEAM PRODUCT MANUAL

Precautions and Installation

1.1 Declaration

Thank you for choosing our company's products! This product has good performance and complete packaging when it leaves the factory. For your safe and effective use of this product, please carefully and completely read this user manual before using it. This manual contains important information for installation and use. Please follow the requirements of the manual for installation and operation. At the same time, please keep this manual properly for use at any time. Our company does not assume any responsibility for any damage to lighting fixtures or other performance caused by individuals not following the instructions during installation, use, or maintenance。
This manual is subject to technical changes without prior notice。

1.2 Maintenance and upkeep

l Please disconnect the power before performing maintenance and upkeep。
l This lighting fixture should be kept dry and avoid working in humid environments。
l Intermittent use can effectively extend the lifespan of this lighting fixture。
l To achieve good ventilation and lighting effects, it is important to regularly clean the fan, fan mesh, and lens。
l Do not wipe the Fixuture housing with organic solvents such as alcohol to avoid damage。

Product precautions

l This lighting fixture is only for professional use。
l Before operation, ensure that the power supply voltage matches the required power supply voltage of the equipment。
l Do not place this product in areas that are prone to looseness or vibration。
l During use, if there are any abnormalities in the lighting fixtures, they should be stopped in a timely manner。
l To ensure the service life of the product, it should not be placed in damp or leaking places, and should not be operated in environments with temperatures exceeding 60 degrees Celsius。
l When using the light bulb, the voltage change of the power supply should not exceed ± 10%. If the voltage is too high, it will shorten the life of the light bulb. If the voltage is too low, it will affect the light color of the light bulb。
l After the power is cut off, it takes 5 minutes to fully cool the lighting fixture before it can be powered on again for use。
l The rotating parts and adhesive accessories of the lighting fixtures must be checked regularly. If they become loose or shake, they should be reinforced in a timely manner to prevent accidents。
l To ensure the normal use of this product, please carefully read this instruction manual。

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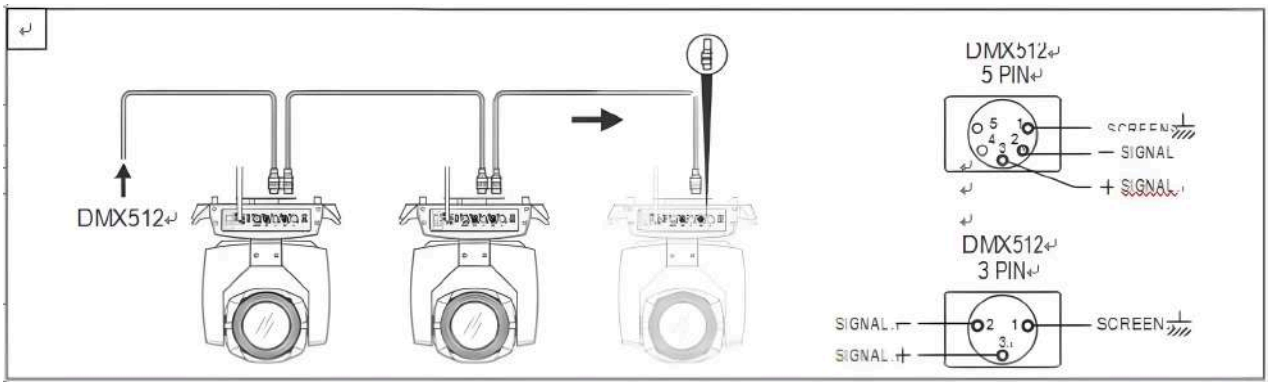
1.3 Product Introduction

l Light Power：260W Laser Module
l Total Power：300W
l Voltage：AC 110V~220V/50~60Hz;
l Color palette： 17Colors+White；
l Fixed Gobo palette：30Gobos；
l Prism：2Prisms，2Rotations;
l 1 Frost and 1 MultiColors;
l Pan:540°Tilt:270°;
l Overheating protection；
l Control mode: DMX512/Automatic；
l Control channel: 17CH DMX channel
IP20 protection level

1.4 Signal line connection

The lighting fixtures are equipped with standard DMX input and output 3-core or 5-core XLR sockets. Please use a shielded twisted pair signal cable specifically designed for DMX 512; The signal line is generally connected at a distance of 150 meters. When transmitting long-distance signals, a DMX512 signal amplifier must be added.
Connect a shielded twisted pair signal cable from the DMX output port of the controller to the DMX input port of the first device, and from the DMX output port of the first device to the DMX input port of the second device, and so on, until all the Fixutures are connected. Then install a terminal plug on the last 3-core socket of each connected Fixuture output. (Weld a 4/1W, 120 Ω resistor between the 2 and 3 pins of a 3-core pin XLR plug)。
Important reminder: The wires should not come into contact with each other or with the metal casing。

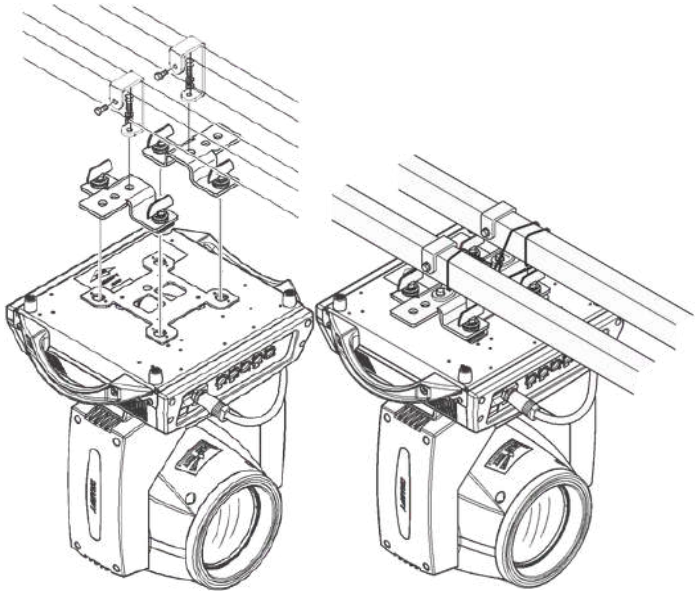


DMX Signal Cable Connection Diagram

Ø Calculation method for starting address code of lighting fixtures：
Ø The starting address code of the current Fixuture is equal to (the starting address code of the previous Fixuture)+(the number of channels of the Fixuture). Explanation:
Ø 1: The starting address code value of the first Fixuture is 001.
Ø 2: The basic number of channels for the controller should be greater than or equal to the total number of channels used by the lighting fixture。
Ø 3: Attention: When using any controller, each Fixuture must have its own starting address code. If the starting address code of the first Fixuture is set to 001 and the number of channels is 17CH, then the starting address code of the second Fixuture should be set to 018; The starting address code of the third Fixuture is set to 035; And so on, (this setting method also needs to be determined according to different consoles)

1.5 Installation

Lighting fixtures can be placed horizontally, hung diagonally, or hung upside down. Be sure to pay attention to the installation method when hanging diagonally or upside down。
Before positioning the lighting fixtures, it is necessary to ensure the stability of the installation site. When reversing the hanging installation, it is necessary to ensure that the lighting fixtures do not fall off the support frame. Safety ropes need to be used to pass through the support frame and the lighting fixture handle for auxiliary hanging to ensure safety Prevent Fixutures from falling and sliding.
During the installation and debugging of the lighting fixtures, pedestrians are prohibited from passing underneath. Regular inspections should be conducted to ensure that the safety ropes are not worn and that the hook screws are not loose.
Our company shall not be held responsible for any consequences arising from the fall of the lighting fixtures due to unstable hanging installation。



Main Menu		
1	Dmx Address	1-512
2	Fixture	
3	Manual	
4	Information	
5	Factory	
6	Fixture Reset	
7	Display	

DMX Address setting

The address code cannot be greater than (512 channels), otherwise the lighting fixtures will be uncontrolled. The specific setting operation is as follows:
Enter the DMX settings interface and use the "up" or "down" buttons to accurately set the desired DMX address code,
Then press confirm to save the data and complete the address code setting operation

Fixture Setting

Set the operation mode of the lighting fixtures, control the light cannon and channel mode. The lighting fixtures support operating modes (DMX mode, self-propelled mode) and other functions, with specific parameter descriptions as follows：
l DMX mode: The lighting fixture supports two channel modes. The "22CH" channel eliminates several channels for setting motor speed, saving the utilization rate of the DMX channel. The "27CH" channel adds several channels as mentioned earlier compared to the "standard" channel。
l Run mode: In DMX mode, the lighting fixtures receive data from the DMX controller or Host Signal；In Host mode,run auto and send host signal ;
l Pan Invert: After the Pan Invert is turned on and the initialization of the Fixuture is completed, the initial and final positions of the Pan motor are swapped。 Tilt reverse: After the vertical reverse is turned on and the Fixuture initialization is completed, the initial and final positions of the vertical motor are swapped。
l Tilt Invert: After the Tilt Invert is turned on and the initialization of the Fixuture is completed, the initial and final positions of the Tilt motor are swapped。 Tilt reverse: After the vertical reverse is turned on and the Fixuture initialization is completed, the initial and final positions of the vertical motor are swapped。
l XY Sensor: Through this setting, the optocoupler error correction function can be controlled to turn on and off. After the optocoupler calibration is turned off, the horizontal and vertical motors have no error correction function。
l Dimmer Curve: Linear/S-Curve/Squre/Invert Squre.
l Dimmer Speed: Smooth/Fast.
l Fan Mode: Quite/Auto
l No DMX state: When there is no DMX signal, select reset, which means that all functions of the Fixuture return to the initialization state. When there is no DMX signal, select hold, which means that the Fixuture remains in the last DMX signal command state when there is no DMX signal。

Fixture	Dmx Mode	STD
	Run Mode	DMX / Host
	Pan Invert	Close / Open
	Tilt Invert	Close / Open
	XY Sensor	Close / Open
	Dim Curve	Liner/S-Curve/Curve3/Curve4
	Dim Fast	Close / Open
	No DMX State	Clear / Keep
	KeyLock	Close / Open

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Manual

The Fixuture enters testing mode, in which it does not receive data from the DMX console. The parameters on the page correspond to the numerical values of the DMX channel. You can change the data of the corresponding parameter items to control the operation of the lighting fixtures:

Manual	Color	000 - 255
	Strobe	000 - 255
	Dimmer	000 - 255
	Gobo	000 - 255
	⋮	⋮

Information

l Entering this interface, you can view the current usage time, sensor information, software version, and other information of the lighting fixtures;

Information	Time	Current Time	xxxxxH
		Total Time	xxxxxH
		Power Count	xxxxx
	Sensor	Pan Raster	
		Tilt Raster	
		⋮	
	Temperature	xxx	
	Software Version	Panel	Lx.xx
		Motor	Lx.xx

Factory

Enter this interface, enter the password, and you can set the offset of the motor

Factory	Password	000 - 255
	Pan	000 - 255
	Tilt	000 - 255
	Dimmer	000 - 255
	Color	000 - 255
	Fixed Gobo	000 - 255

Fixture Reset

Enter this interface to reset the initialization of the Fixuture motor function and restore the factory settings of the Fixuture;

Fixture Reset	XY Reset	Run / Cancel
	Motor Reset	Run / Cancel
	All Reset	Run / Cancel
	Factory	Run / Cancel

Display

l Entering this interface, you can set the display language of the lighting fixtures, rotate the screen display, and adjust the screen brightness time;
l Language setting, select Chinese or English display, and it will take effect immediately after selection。
l Display inversion: Select whether the screen rotates 180 degrees to display. When the light fixture is inverted, this option can be turned on to make the display content more intuitive and clear。
l Display mode: After a period of time (60 seconds) without any settings on the lighting fixtures, the screensaver will enter sleep mode (black screen); When set to 'always on', it does not enter sleep mode and displays the main interface continuously。

Display	Language	CH / EN
	Display Flip	Normal / Reverse
	Display Mode	60s / Show

DMX Table

STD	DMX Val	Function
1		Color
	0-4	White
	2026/5/9	White+Color1
	2026/10/14	Color1
	15-19	Color1+Color2
	20-24	Color2
	25-29	Color3+Color3
	30-34	Color3
	35-39	Color3+Color4
	40-44	Color4
	45-49	Color4+Color5

1	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
	100-104	Color10
	105-109	Color10+Color11
	110-114	Color11
	115-119	Color11+Color12
	120-124	Color12
	125-129	Color12+Color13
	130-134	Color13
	135-139	Color13+Color14
	140-144	Color14
	145-149	Color14+Color15
	150-154	Color15
	155-159	Color15+Color16
	160-164	Color16
	165-169	Color16+Color17
	170-174	Color17
	175-179	Color17+Color18
	180-215	FAST ROTATION - SLOW ROTATION
	216-219	STOP
	220-255	SLOW ROTATION - FAST ROTATION

2		Strobe
	0-3	Closed
	4-103	SLOW - FAST
	104-107	Open
	108-207	FAST STROBE-SLOW STROBE
	208-212	Open
	213-251	RANDOM SLOW - FAST
	252-255	Open
3		Dimmer
	0—255	Linear Dimmer
4		Gobo 1
	0-2	white
	3～5	Gobo 1
	6～8	Gobo 2
	9～11	Gobo 3
	12～14	Gobo 4
	15-17	Gobo 5
	18-20	Gobo 6
	21-23	Gobo 7

4	24-26	Gobo 8
	27-29	Gobo 9
	30-32	Gobo 10
	33-35	Gobo 11
	36-38	Gobo 12
	39-41	Gobo 13
	42-44	Gobo 14
	45-47	Gobo 15
	48-50	Gobo 16
	51-53	Gobo 17
	54-56	Gobo 18
	57-59	Gobo 19
	60-62	Gobo 20
	63-65	Gobo 21
	66-68	Gobo 22
	69-71	Gobo 23
	72-74	Gobo 24
	75-77	Gobo 25
	78-80	Gobo 26
	81-83	Gobo 27
	84-86	Gobo 28
	87-89	Gobo 29
	90-92	Gobo 30
	93-96	Gobo 1 Jitter
	97-100	Gobo 2 Jitter
	101-104	Gobo 3 Jitter
	105-108	Gobo 4 Jitter
	109-112	Gobo 5 Jitter
	113-116	Gobo 6 Jitter

4	117-120	Gobo 7 Jitter
	121-124	Gobo 8 Jitter
	125-128	Gobo 9 Jitter
	129-132	Gobo 10 Jitter
	133-136	Gobo 11 Jitter
	137-140	Gobo 12 Jitter
	141-144	Gobo 13 Jitter
	145-148	Gobo 14 Jitter
	149-152	Gobo 15 Jitter
	153-156	Gobo 16 Jitter
	157-160	Gobo 17 Jitter
	161-164	Gobo 18 Jitter
	165-168	Gobo 19 Jitter
	169-172	Gobo 20 Jitter
	173-176	Gobo 21 Jitter
	177-180	Gobo 22 Jitter
	181-184	Gobo 23 Jitter
	185-188	Gobo 24 Jitter
	189-192	Gobo 25 Jitter
	193-196	Gobo 26 Jitter
	197-200	Gobo 27 Jitter
	201-204	Gobo 28 Jitter
	205-208	Gobo 29 Jitter
	209-212	Gobo 30 Jitter
	213-232	FAST ROTATION - SLOW ROTATION
	233-235	STOP
	236-255	SLOW ROTATION - FAST ROTATION

5		Prism1
	0-127	Reserve
	128-255	prism1
6		Prism1 Rot
	0—127	Rotation
	128-190	FAST ROTATION - SLOW ROTATION
	191-192	STOP
	193-255	SLOW ROTATION - FAST ROTATION
7		Prism2
	0-127	Reserve
	128-255	prism2
8		Prism2 Rot
	0—127	Rotation
	128-190	FAST ROTATION - SLOW ROTATION
	191-192	STOP
	193-255	SLOW ROTATION - FAST ROTATION
9		Foucs
	0-255	Foucs，Linear
10	0—255	Pan 8bit
11	0—255	Pan 16bit
12	0—255	Tilt 8bit
13	0—255	Tilt 16bit
14		Frost
	0-127	white
	128-190	Frost
	191-255	MultiColors
15		CMY-C
	0-255	0%-100%

16		CMY-M
	0-255	0%-100%
17		CMY-Y
	0-255	0%-100%
18		Function
	100-109	Dimmer Fast: Close
	110-119	Dimmer Fast: Open
	200-209	XY Reset
	210-219	Effect Reset
	220-229	All Reset
19		XY Speed
	0-255	Fast to Slow

Common fault handling

The Fixture contains professional components such as microcomputer circuit boards and high-voltage power supplies. For your safety and product lifespan, non professionals are not allowed to disassemble the Fixuture and related accessories without authorization.

1. Brightness
Possible reasons: The light bulb has been used for a long time or the light path is not clean. The following measures should be taken:：
l Check if the LASER has reached its service life and replace it with a new one；
l Check whether the optical components or light bulbs are clean, whether there is dust accumulation on the optical components such as light bulbs, and regularly clean and maintain the LASER and various components inside the lamp.
2. Pattern projection blurred
l Check if the electronic focusing channel value is appropriate for the current projection distance。
3. The Fixture work intermittenly
Possible reason: The internal circuit has entered a protected state, and the following measures should be taken:：
l Check if the fan is running normally or if it has become dirty, causing an increase in the internal temperature of the lighting fixture；
l Check if the internal temperature control switch is in the closed state；
l Check if the light bulb has reached its service life and replace it with a new one.
4. The fixtures dose not accept control from the console after normal reset
Possible reasons: Signal line malfunction or abnormal lighting parameter settings. The following are the solutions：
l Check the starting address code and the connection status of the DMX signal cable (whether the signal cable is intact and whether the connector is loose)；
l Add a signal amplifier and a 120 ohm terminal resistor；
5. The fixtures cannot be started
Possible cause: Poor power supply circuit, the following measures should be taken:
l Check if the fuse on the power input socket is blown and replace the fuse；
l Poor line contact caused by vibration during long-distance transportation of lighting fixturesCheck the input power supply, computer board, and other plug-in components.