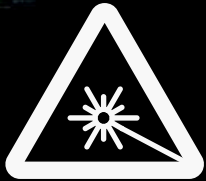


# M7 MOVING HEAD LASER PRODUCT MANUAL



## STARSHINE LIGHTS PRODUCT MANUAL



### Maintenance

Regular product maintenance. If the lamp is used for a long time, the surface of the lens at the light outlet will absorb dust and reduce the output power of the laser. Please clean the lens with rubbing paper or dip a cotton swab in alcohol to optimize the light effect output, do not wipe the lens with wet cloth or other chemical solvent. The cleaning frequency depends on the operating frequency of the lamp and the surrounding environment. It is recommended to clean every 20 days. Please clean the surface of the machine case with clean towel regularly, check and clean the air vent.

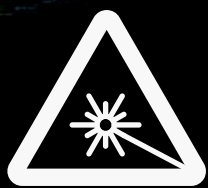
### Installation

1. Before installation, make sure that the power supply voltage you are using is the same as the voltage indicated by the luminaire.
2. Need to ask professional installation, will be safe and reliable fixture, and adjust to the appropriate exposure angle.
3. When installing this equipment, please ensure that there are no extremely explosive and inflammable articles (decorations, etc.) within at least 0.5 meters, and that the distance between the lamp and the wall is more than 15 cm.
4. Make sure that the fans and exhaust ducts are not clogged with other equipment or decorative materials.
5. For safety reasons, please use a safety rope that can bear 10 times the weight of the lamp for auxiliary hoisting.
6. Products should be fixed installation. Seven. Grounding the ground wire is important for safety reasons.

### Warning

1. Please make sure that the power has been cut off before any installation and maintenance work is carried out.
2. This lamp is Class III B. It is dangerous to observe directly in the beam. The minimum irradiation distance is 13 cm and the maximum irradiation time is less than 10 seconds.
3. Please keep the distance between the lamp and the combustible material above 0.5 m.
4. The power requirement of the lamp is  $220/110 \pm 10\%$  V. If it is beyond this range, it is recommended to use voltage stabilizing equipment, otherwise it will seriously affect the laser life.

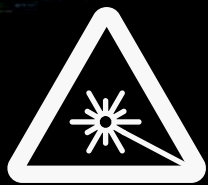




# STARSHINE LIGHTS PRODUCT MANUAL



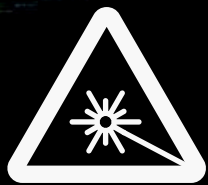
channel		Value	Control the content
CH1	Horizontal motor	0~255	Horizontal motor
CH2	Horizontal motor16Bit	0~255	Horizontal motor16Bit
CH3	Vertical Motor	0~255	Vertical Motor
CH4	Vertical Motor16Bit	0~255	Vertical Motor16Bit
CH5	Motor speed	0~255	Horizontal Vertical Motor speed
CH6	Head Shake System Reset	0~250	Invalid
		251~255	System reset after 3 seconds delay
CH7	laser ON/OFF	0	OFF
		1~255	ON Brightness1-100%
CH8	Auto trigger	0~26	512 Speed is 0
		27~127	512 Effect speed selection
	Voice trigger	128~255	Voice control
CH9	Pattern Library and effect library	0~255	Select Pattern Library and effect Library, select a Library for every 8 values, such as the first is 0-7, the second is 8-15, the third is 16-23...
CH10	Pattern selection	0~255	Select a pattern, one for every two values
CH11	Strobe	1~255	Strobe speed selection
CH12	Size of the pattern	0~255	Pattern is chosen from large to small
CH13	Horizontal position	0~255	Horizontal position selection, with a value of 128 being the middle position and a value of 1-255 for CH12
CH14	Vertical position	0~255	Vertical position selection, with a value of 128 being the middle position and CH12 being 1-255
CH15	Color	0-63	Fixed Color selection
		64~95	Fixed Color/change effect speed selection
		96~127	Color change effect speed selection
		128~159	Color change effect speed selection/Flow effect speed selection
		160~191	Flow effect speed selection
		192~223	Flow effect speed selection
		224~255	Speed selection for fade effect



# STARSHINE LIGHTS PRODUCT MANUAL



<b>CH16</b>	Color segmentation	0~255	Different effects for Color segmentation are selected
<b>CH17</b>	Line scan speed	0~127	Line scan speed selection
	Point scan speed	128~255	Point scan speed selection
<b>CH18</b>	Spin Z	0~127	Spin Z Angle selection
		128~255	Spin Z Speed options
<b>CH19</b>	Spin X	0~127	Spin X Angle selection
		128~255	Spin X Speed options
<b>CH20</b>	Spin Y	0~127	Spin Y Angle selection
		128~255	Spin Y Speed options
<b>CH21</b>	Move horizontally	0~127	Move horizontally position selection
		128~255	Move horizontally Speed options
<b>CH22</b>	Move vertically	0~127	Move vertically location selection
		128~255	Move vertically Speed options
<b>CH23</b>	Zoom	0~127	Zoom fixed size selection
		128~255	Zoom Speed options
<b>CH24</b>	Step by step	1~255	Step by step Speed options
<b>CH25</b>	Horizontal waves	1~127	Waves Speed options
	Vertical waves	128~255	
<b>CH26</b>	Pattern Library and effect library	0~255	Select Pattern Library and effect Library, select a Library for every 8 values, such as the first is 0-7, the second is 8-15, the third is 16-23...
<b>CH27</b>	Pattern selection	0~255	Select a pattern, one for every two values
<b>CH28</b>	Strobe	1~255	Strobe speed selection
<b>CH29</b>	Size of the pattern	0~255	Pattern is chosen from large to small
<b>CH30</b>	Horizontal position	0~255	Horizontal position selection, with a value of 128 being the middle position and a value of 1-255 for CH12
<b>CH31</b>	Vertical position	0~255	Vertical position selection, with a value of 128 being the middle position and CH12 being 1-255



# STARSHINE LIGHTS PRODUCT MANUAL



CH32	Color	0~63	Fixed Color selection
		64~95	Fixed Color/change effect speed selection
		96~127	Color change effect speed selection
		128~159	Color change effect speed selection/Flow effect speed selection
		160~191	Flow effect speed selection
		192~223	Flow effect speed selection
		224~255	Speed selection for fade effect
CH33	Color segmentation	0~255	Different effects for Color segmentation are selected
CH34	Line scan speed	0~127	Line scan speed selection
	Point scan speed	128~255	Point scan speed selection
CH35	Spin Z	0~127	Spin Z Angle selection
		128~255	Spin Z Speed options
CH36	Spin X	0~127	Spin X Angle selection
		128~255	Spin X Speed options
CH37	Spin Y	0~127	Spin Y Angle selection
		128~255	Spin Y Speed options
CH38	Move horizontally	0~127	Move horizontally position selection
		128~255	Move horizontally Speed options
CH39	Move vertically	0~127	Move vertically location selection
		128~255	Move vertically Speed options
CH40	Zoom	0~127	Zoom fixed size selection
		128~255	Zoom Speed options
CH41	Step by step	1~255	Step by step Speed options
CH42	Horizontal waves	1~127	Waves Speed options
	Vertical waves	128~255	
CH43	LED Brightness	0~255	ledBrightness0-100%
CH44	LED Effect	0~255	Select Led effect and select 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

## LED display panel is shown below



The LED display panel includes two main parts:

- Indicator Lights
- Menu Selection

### A. LED Status Indicators

Status	LED Indicator
Laser Lock Status	Red and green slow flashing
Closed Light Protection Status	Red light
DMX / Slave Mode	Green medium-speed flashing
Auto Mode	Green slow flashing
Voice-Activated Mode	Green flashing with sound activation
ILDA Interface Mode	Green fast flashing

### B. Menu Selection

Use the rotary knob to select and confirm menu functions.

Operation	Description
Rotate Left / Right	Browse and select the desired function menu
Highlighted Menu Item	The currently selected menu item will be highlighted
Press the Knob	Confirm the selected function or return to the previous menu

### User-Friendly Version

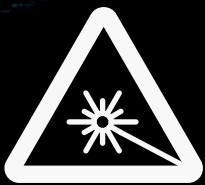
The LED display panel helps you check the current working status of the unit and adjust menu settings easily.

The indicator lights show the current operating mode or protection status.

The menu selection knob allows you to scroll through functions by rotating left or right.

Press the knob to confirm your selection or go back to the previous menu.



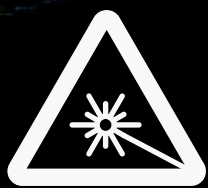


# STARSHINE LIGHTS PRODUCT MANUAL



## LED Chinese/English menu functions are as follows:

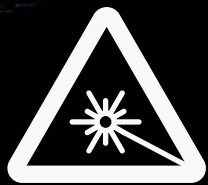
Level 1 menu	Level 2 menu	Level 3 menu
1.Function mode	DMX-512 Auto Voice ILDA	
2. Play the laser program	laser program ALL/001 ALL/001 Effect All/Off	
3.Playthe moving program	Moving program Effect Off/All Remote position128 Speed 255 LED Effect OFF/All/001 LED Speed 50 LED Brightness 255	
4.Play set	speed mode	speed 50%
		Looping/random play
5. Address code	1	
6.Channel set	General mode professional mode	
7. Laser set	Speed 20KPPS	Speed20KPPS
	Color set RGB	Color set Monochrome RGY RBP GBC RGB WYPC



# STARSHINE LIGHTS PRODUCT MANUAL



7. Laser set	Laser Analog	Laser: TTL (analog) Brightness/ Brightness R max: 255 Brightness/ Brightness G max: 255 Brightness/ Brightness B max: 255
	Inverse setting	Normal XY Inverse X Inverse Y Inverse XY
	Size settings X Y	<a href="#">Scan size</a> X/ Y Auto size X/ Y
	Location settings X Y	Location settings <a href="#">Location</a> X/ Y
8. Head system setup	Common settings 1、 Restore the default	Restore the default Yes / no
	2、 Security protection closed light	Security protection closed light ON/OFF
	3、 Host settings	Host settings ON/OFF
	4、 Backlight setting	Backlight setting: Chang Liang Delay 15 seconds
	5、 Language settings	Language settings: Chinese English
	6、 Display settings	Display settings Rotate 180° Normal
	7、 About the system	Laser system 2.9 Software version Ver1.0XGD:2022101407H
	8、 Shake head motor set	Shake head motor set Reverse phase motor Fine-tune the level Vertical fine tuning
	9、 Reset	Shake head laser reset yes / no
Shake head motor set		
Reverse phase motor	Normal level is reversed Vertical inverse Horizontal and vertical inverse	
Fine-tune the level	Fine-tune the level Please unlock	Values are unlocked at 101-255
Vertical fine tuning	Vertical fine tuning Please unlock	Values are unlocked at 101-255



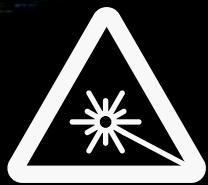
# STARSHINE LIGHTS PRODUCT MANUAL



## DMX-512 Description of the channel:

1、STD/ Normal mode: 29CH

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CH1	Horizontal motor	0~255	Horizontal motor
CH2	Horizontal motor16Bit	0~255	Horizontal motor16Bit
CH3	Vertical Motor	0~255	Vertical Motor
CH4	Vertical Motor16Bit	0~255	Vertical Motor16Bit
CH5	Motor speed	0~255	Horizontal Vertical Motor speed
CH6	Head Shake System Reset	0~250	Invalid
		251~255	System reset after 3 seconds delay
CH7	laser ON/OFF	0	ON
		1~255	ON Brightness1-100%
CH8	Auto trigger	0~26	512 Speed is 0
		27~127	512 Effect speed selection
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		192~223	Flow effect speed selection
		224~255	Speed selection for fade effect

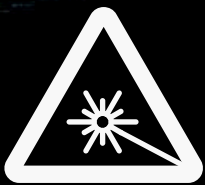


# STARSHINE LIGHTS PRODUCT MANUAL

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		128~255	Spin X Speed options
CH20	Spin Y	0~127	Spin Y Angle selection
		128~255	Spin Y Speed options
CH21	Move horizontally	0~127	Move horizontally position selection
		128~255	Move horizontally Speed options
CH22	Move vertically	0~127	Move vertically location selection
		128~255	Move vertically Speed options
CH23	Zoom	0~127	Zoom fixed size selection
		128~255	Zoom Speed options
CH24	Step by step	1~255	Step by step Speed options
CH25	Horizontal waves	1~127	Waves Speed options
	Vertical waves	128~255	
CH26	LED Brightness	0~255	ledBrightness0-100%
CH27	LED Effect	0~255	Select the Led Effect and select one 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

Thanks for your purchasing, please read this manual carefully before operating the system.. It gives you general information for your safe and better operation.





# STARSHINE LIGHTS PRODUCT MANUAL



## INSPECTION

Check for the contents in the package refer to the following list:

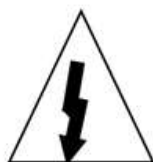
1. Laser lighting: 1
2. Power cable: 1
3. User's manual: 1

## Technical parameters

1. Laser diode: DPSS:red:638nm,green:520nm,blue445nm.
2. Power supply: AC85V-220V, 50/60Hz 110W
3. Laser power: RGB5W/10W
4. Scanner:25kpps high-speed stepper motor.
5. Control mode: sound control/auto/dmx/ILDA
6. Dimensions: 285mm×215mm×440mm
7. Net weight: 7.45KG
8. Gross weight: 8.95KG

## Warning and Declaration

Do not look directly at the light source with your eyes when turning on the light. Before any installation and maintenance work, please make sure that the power has been cut off.



**DANGER**

LASER RADIATION AVOID EXPOSURE



TO BEAM CLASS 3B LASER PRODUCT