



STARSHINE LIGHTS PRODUCT MANUAL



F20 300W LED BEAM PRODUCT MANUAL



Please read the manual carefully before installing and using the product

1. Precautions and Installation

1.1 Disclaimer

Thank you for choosing our company's products! This product is shipped in perfect condition and in complete packaging. In order for you to use this product safely and effectively, please read this instruction manual carefully and completely before you use this product. This manual contains important information for installation and use, please follow the instructions for installation and operation, and, at the same time, please keep this manual in a safe place so that you can use it at any time.

This manual is subject to technical changes without notice.

1.2 Maintenance

!! This luminaire is intended for professional use only.

!! If the external flexible cable or cord of this luminaire is damaged, it should be replaced with a special cord or wire supplied by the manufacturer or its service agent.

!! The light source contained in this luminaire should only be replaced by the manufacturer or its service agent or similarly qualified personnel.

!! Always connect the product to a protected circuit (circuit breaker or fuse). Ensure that the product has proper electrical grounding to avoid the risk of electric shock or fire.

!! To avoid unnecessary wear and tear and to prolong its life, completely disconnect the product from the power supply through the circuit breaker or unplug it when not in use.

!! The product's housing may become hot during operation. The product should be installed in a well-ventilated location.

!! When transferring the product from an extreme temperature environment (e.g., from a cold truck to warm and humid), the product's internal electronics may become condensed. To avoid causing malfunctions, allow the product to fully acclimatize to its surroundings before turning on the power.

! Flash lamps are known to trigger seizures. Users must comply with local notification laws regarding the use of flash lamps.

1.3 Product Precautions

!! Disconnect power before cleaning the product or replacing fuses.

!! Replace and secure all power, data, USB, or other port guards to an IP rating when not in use.

!! Use a safety harness when mounting this product above your head.

!! Connect this product to a grounded and protected circuit.

!! View the light source when the product is on.

!! Do not place any flammable material within 20 centimeters of this product when operating or turning on the power.

!! Do not operate the product if there is damage to the housing, lens or cable.

!! Use only handles or lifting/mounting brackets to handle this product.

!! To avoid unnecessary wear and tear and to prolong its service life, the power supply should be completely disconnected through the circuit breaker or unplugged when not in use.

! In case of serious operational problems, discontinue use immediately!



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1.4 Products Introduction

- l Voltage: 90V-240V
- l Frequency: 50Hz-60Hz
- l Light Source: 300W LED Module
- l Power: 400W
- l Control Channels: 16CH
- l Color Temperature: 8000K
- l Beam Angle: 160°

l Features:

- l One Color Wheel: 10 colors + white light,
- l One Gobo Wheel: 15 gobos+ white light with gobo flicker, unidirectional flow, adjustable speed, arbitrary positioning function
- l One rainbow wheel, one frost filter,
- l One 8 prism, one honeycomb 48 prism, Bi-directional rotation with motorized index positioning.
- l Dimming: 0-100% dimming
- l Strobe: Ultra-fast strobe, dual-chip strobe 0.5-14 times/s, with synchronous, asynchronous, and random strobe modes, adjustable speed
- l Display: LCD screen, bilingual (Chinese/English) operating system.
- l Optics: Combination lens, Zoom 0-3.9 degrees, electronic focus at 20 meters.
- l Horizontal scan: 540 degrees (16-bit precision scanning).
- l Vertical scan: 280 degrees (16-bit precision scanning) with auto-return function.
- l Control: International standard DMX512 signal. RDM-enabled, 3-pin/5-pin DMX512, thermal protection.
- l Product Dimensions: 340mm × 170mm × 560mm
- l Packaging Dimensions: 480mm × 400mm × 560mm
- l Net Weight: 15kg
- l Gross Weight: 17kg





2. Display panel and button definition

2.1 Control Panel



Menu key: Enter/return to the main menu

Up Arrow: Menu function up selection/parameter increment

Down Arrow: Menu function to select down/decrement parameters

Confirm button: Select the menu function, and confirm and save it when the menu function parameters are modified.

2.2 Menu Function

After powering on and resetting the whole machine, press the menu button to enter the main menu (the main menu interface will exit after 30 seconds of no operation), see the main menu function table (a total of 5 main menu options) for details; Up or down key to select the main menu, confirm button to enter the modification of the function parameters of each menu, and then press the confirm button to save the current function parameters (after saving, it has a power-off memory).

Main menu	submenu	Menu function description
1. System settings	1. DMX address	Modify the DMX address code up or down (the address code can be selected in the range 001-512), and save it with the confirmation key, which is 001 by default.
	2. Encoder	Modify the encoder on/off up or down, confirm key to save, and enable by default.
	3. X reversal	Modify X up or down to reverse on/off, confirm key to save, off by default.
	4. Y reversal	Modify Y up or down to turn on/off, confirm key to save, and turn off by default.
	5. No signal	Hold/Zero, default hold.
	6. Turn on the bright bubble	Modify up/down on/off, off by default.
	7. Reset	Modify up/down on/off, off by default.
	8. Advanced settings	
2. Operation mode	1. Operation mode	Up or down to select the run mode DMX/Voice Activated/Auto, confirm key to save, default DMX.
	2. Channel selection	Select the CH18 confirmation key up or down to save, the default CH18.



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3. Manual control	1. Color wheel	Modify the value (000-255) up and down, and save the confirmation key, default 000
	2. The color wheel is half-colored	Modify the value (000-255) up and down, and save the confirmation key, default 000
	3. a gobo	Modify the value (000-255) up and down, and save the confirmation key, default 000
	4. Gobo disc vibrate	Modify the value (000-255) up and down, and save the confirmation key, default 000
	5. Strobe	Modify the value (000-255) up and down, and save the confirmation key, default 000
	6. Dimming	Modify the value (000-255) up and down, and save the confirmation key, default 000
	7. X-axis	Modify the value (000-255) up and down, and save the confirmation key, default 000
	8. Y-axis	Modify the value (000-255) up and down, and save the confirmation key, default 000
	9. XY speed	Modify the value (000-255) up and down, and save the confirmation key, default 000
	10. a prism 1	Modify the value (000-255) up and down, and save the confirmation key, default 000
	11. The prism 1 rotates	Modify the value (000-255) up and down, and save the confirmation key, default 000
	12. a prism 2	Modify the value (000-255) up and down, and save the confirmation key, default 000
	13. The prism 2 rotates	Modify the value (000-255) up and down, and save the confirmation key, default 000
	14. Atomization colorful	Modify the value (000-255) up and down, and save the confirmation key, default 000
	15. Focusing	Modify the value (000-255) up and down, and save the confirmation key, default 000
	16. X-axis fine-tuning	Modify the value (000-255) up and down, and save the confirmation key, default 000
	17. Y-axis fine-tuning	Modify the value (000-255) up and down, and save the confirmation key, default 000
	18. Bulb control	Modify on/off up or down, confirm key to save, and turn off by default.
	19. Resetting	Modify Yes/No up or down, confirm key to save, default no.



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4. Display settings	1. Language selection	Select Chinese/EN (English) up or down, confirm the key to save, default Chinese.
	2. Inverted display settings	Up or down select Off/On Inverted Settings, Confirm key Save, and turn off by default.
	3. Screen protection	Up or down select Mode 1 - Mode 4, Default Mode 2.
	4. DMX index	Up or down select Mode 1-Mode 4, Default Mode 1.
	5. Backlight display	Modify up or down (001-010), OK key to save, default 010

5. Factory setting	DisplayPlease enter password! Modify it up or down to 138, and then press the confirm button to enter the factory settings.	1. X-axis calibration	Modify the parameters up or down (000-255) and save the confirmation key, which is 128 by default.
		2. Y-axis calibration	
		3. Disc calibration	
		4. Solid-image calibration	
		5. Strobe calibration	
		6. Strobe stroke	
		7. Strobe half a step	
		8. Focus calibration	
		9. Focusing stroke	
		10. Prism 1 stroke	
		11. Prism 1 half step	
		12. Prism 2 strokes	
		13. Prism 2 half step	
		14. Atomization stroke	
		15. Atomization half a step	
		16. Colorful itinerary	
		17. Colorful half-step	
		18. Animated diagram calibration	
		19. GIF rotation calibration	
		20. Amplification calibration	
		21. Enlarge the stroke	
		22. a uniform light stroke	



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5. Factory setting	DisplayPlease enter password! Modify it up or down to 138, and then press the confirm button to enter the factory settings.	23. Half a step of even light	Modify the parameters up or down (000-255) and save the confirmation key, which is 128 by default.
		24. Aperture stroke	
		25. Half a step of aperture	
		26 prism rotation calibration	
		27. CMY2 calibration	
		28. CMY3 calibration	
		29. Fine-tuning 1	
		30. Fine-tuning 2	
		31. Fine-tuning 3	
		32. Fine-tuning 4	
		33. X speed	
		34. X stroke	
		35. X current	
		36. Y speed	
		37. Y stroke	
		38. Y current	
		39. Fan speed	Modify the parameters up or down (range 3000-9500) and save the confirmation key, which is 6450 by default
		40. Time clearing	Modify Yes/No up or down, confirm key to save, default no.
		41. Half power	Modify on/off up or down, confirm key to save, and turn off by default
		42. Fan control	Modify the switch/normally open/speed control up or down, confirm the key to save, and the default switch
		43. Logo	Modify 000/001 up or down, default 000.
		44. White light speed	Modify the parameters up or down (range 3000-9500) and save the confirmation key, which is 6450 by default
		45. Closing speed	Modify the parameters up or down (range 3000-9500) and save the confirmation key, which is 4500 by default



5. Factory setting	DisplayPlease enter password! Modify it up or down to 138, and then press the confirm button to enter the factory settings.	46. Color rotation speed	Modify the parameters up or down (range 3000-9500), and save the confirmation key, which is 6100 by default
		47. Rotational speed 1	Modify the parameters up or down (range 3000-9500) and save the confirmation key, which is 6450 by default
		48. speed 2	Modify the parameters up or down (range 3000-9500) and save the confirmation key, which is 6450 by default
6. Information Status	1. Sensors	Used to view Hall status and temperature communication status	
	2. Error messages	Used to display error messages	
	3. Lamp information	It is used to display luminaire information	
	4. Channel information	Used to display error messages	
	5. Version Information	Used to display version information	
	6. Instruction manual	Used to display instructions	
	7. Time Information	Bright bubble time Fixture time Time remaining	

3. Master-slave control

There are 2 or more identical lamps connected with DMX three-core signal cable, all lamps and lanterns are modified to 001~512 arbitrary address code, set any one as the host, and other lamps and lanterns are slaves, and all slave display screens do not flash; When using the master to adjust the gradient, pulse, jump, voice-activated and self-propelled effects, all slaves synchronize the gradient, pulse, jump, voice-activated and self-propelled effects.

Special Note:

1. A group of fixtures can only set a host. if there are more than one host. all the fixtures will be flashing and not synchronized.
2. All fixtures must be off the DMX512 console when the master and slave have a role.

4.DMX512 control

4.1 Address Code

All lamps and lanterns address code set up. all lamps and lanterns with DMX three-core signal line connected in parallel to the DMX512 console. the address code stops blinking, indicating that the DMX512 console signal has been sent to the lamps and lanterns. according to the channel description to control the relevant functions with DMX512 console.



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4.2 CH18 channel

Channel	Channel Name	Channel Value
1	Color Wheel	0-255
2	Color Wheel Half Color	0-255
3	Gobo Disk	0-255
4	Gobo Disk Vibration	0-255
5	Strobe	0-9 Invalid 10-245 Slow to Fast 246-255 Invalid
6	Dimming	0-255
7	X-Axis	0-255
8	Y-Axis	0-255
9	XY-Axis Speed	0-255
10	Prism 1	0-255
11	Prism 1 Rotate	0-255
12	Prism 2	0-255
13	Prism 2 Rotate	0-255
14	Atomization/Sevens	0-255
15	Focusing	0-255
16	X-Axis Fine Adjustment	0-255
17	Y-Axis Fine Adjustment	0-255
18	Reset	0-255



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5. Frequently Asked Questions

l Solutions for common issues are provided below. For any unresolved problems, always consult a professional technician. Ensure the power is disconnected before performing maintenance.

1. LED Module Not Lighting Up

- l Verify that the input voltage matches the fixture's requirements.
- l Check for loose connections at the power supply or control switch.
- l Confirm the power supply capacity is sufficient.
- l Ensure the DMX512 controller is sending correct signals.

2. Fixture Resets but Fails to Respond to Console Control

- l Check if the DMX start address and function settings are correct.
- l Inspect the DMX signal cable for proper connection, excessive length, or disconnection.
- l Test the controller and signal amplifiers (if daisy-chained) for malfunctions.
- l Eliminate potential signal interference from other devices.
- l Optimize wiring. Shorten DMX cable length. Separate high-voltage and low-voltage lines.
- l Add a signal booster if needed.
- l Use high-quality shielded twisted-pair cables.
- l Terminate the signal line with a 120Ω resistor.

3. Fixture Fails to Power On

- l Confirm the power supply parameters match the fixture's specifications.
- l Check whether the lamps have any contact issues or detachment due to factors such as compression deformation during long-distance transportation, vibration of internal components, or moisture.
- l Please check whether the internal wires and connectors of the lamp are loose or detached.
- l Check whether the electronic components of the lighting fixtures (such as electronic transformers, PCB boards, motor control boards, etc.) are loose, short-circuited or damaged.