



**YELLOWRIVER**  
MAKE YOUR STAGE TO BE MORE EXCELLENT

## **300W Moving Head Beam** **(Model: YR-300B)**



**User Manual**

*Please read these instructions carefully before use*



# Certificate

Product Name: \_\_\_\_\_

Product Model: \_\_\_\_\_

Inspector: \_\_\_\_\_

Inspection Date: \_\_\_\_\_

Execution Standard: GB7000-217-2008

This product has been inspected and qualified for shipment.



Guangdong Yellow River Lighting Technology Limited  
National Service Hotline: 400-618-4388

## Product Warranty Card

**Dear Customer:**  
Thank you very much for purchasing our product. In the future use, you will enjoy the one-year after-sales service warranty provided by us.

**Warranty Terms:**  
This product, from the date of purchase, under normal operation and without repair, if confirmed by the warranty personnel to be a product quality issue, will enjoy the warranty service within one year, and maintenance will be provided under any normal circumstances.  
The warranty card should be filled out at the time of purchase, and the warranty card is invalid without the warranty seal of our company. Please bring the warranty card when the product is maintained.

**Customer Information**

Customer Name: \_\_\_\_\_ Buyer: \_\_\_\_\_

Date of Purchase: \_\_\_\_\_ Product Model: \_\_\_\_\_

**Warranty Record**

Repair Date	Fault and Solution	Repair Date	Repair Technician

Guangdong Yellow River Lighting Technology Limited  
After-sales Service Address: C 108 Building, No.41 Dawang Avenue,  
Wanyang Zhongsheng center,Zhongshan High-tech Zone,Zhansheng City, Guangdong, China

**Attention:**

Any damage caused by disregard of this manual is not covered by the warranty. The manufacturer does not assume any responsibility for any consequences and problems caused by disregard of this manual. Please note that the damage caused by violation of the operating rules is not covered by the warranty.

**Technical indicators:**

**The light source parameters:**

Power Source: 300W  
Service life:20000 hours  
CCT: 8500K

**Control parameter:**

Optical lens: beam angle 0.8°, beam is sharp  
Strobe: Double-shutter strobe 1~30t/s,Support pulse strobe + effect strobe + standard strobe  
Dimming: Linear dimming  
Control Signal: DMX512+RDM,Comply with international standard lighting control transmission protocol, support setting address code by console , support DMX interface to upgrade software.  
Control Channel: 16CH/20CH  
Control mode: DMX512/Manual/Master&Slave  
Cooling System: 2pcs big power Fan,Active cooling  
Color: 1 color wheel: 14 colors + white, with semi-color effect  
Color: 1pcs 7 colors rainbow glass  
Gobo: 1 metal gobo wheel: 17 gobos + white, with shaking, flowing effect  
Prism: 1pc 16 facet prism+3 layers lens, rotate forward and backwards  
Frost: 1 independent atomizing glass

## Installation requirement

1. The product shall be free from corrosive vapors and gases in the operating environment and shall not contain inflammable and explosive articles.
2. Keep the distance between the light outlet direction and the subject at least more than 3 meters.
3. The direction of the light is an optical lens. No external force can hit the glass in the process of operation. If the lens is damaged, it can only be used after the professional technician replacing the lens of the same specifications .
4. When the outer cover of the power cord is damaged, it must be replaced with a new power cord of the same specification by relevant professional personnel before use.
5. When the product is hung and installed, the load bearing of the hanging device shall be at least 3 times greater than the weight of the product, and the safety rope shall be fastened on the auxiliary hanging device of the lamp, and the load bearing of the safety rope shall be more than 3 times greater than the weight of the product.
6. The lens and light source of this product must be fully used together. When any part is damaged, it shall be replaced by relevant professional personnel before it can be used again.
7. In the operating environment, it must be determined that the current voltage provided is within the range required by this specification and well grounded.

The company reserves the right to amend this product manual without prior notice

Scanning: pan movement 540 degrees 1.7S/cycle, tilt movement 270 degrees 1.2S/cycle, three-phase motor, double-precision reset with photoelectric reset + Hall correction, making the positioning more accurate, and automatic error correction, with automatic return function

Display function: LCD screen, reversible screen, Chinese-English switchable, it can display the working time of lighting, fault detection and control, and can be restored to factory settings

Safety protection: automatically cut off the power when the machine overheats or system fails

## Working parameters:

Operating voltage: AC100V~240V, 50/60hz

Power: 350W

Power factor: 0.99

Working temperature: under 40 °C

## Light parameters:

Wire: high temperature resistant silicone wire is used for high voltage part, 1332 Teflon high temperature wire is used for weak current part

Shell: heat-resisting engineering plastic

Display: LCD display + 5 mechanical buttons

Power interface: PowerCon, one in (blue) and one out (white)

Signal interface: 3 pin(male+female)

Waterproof grade: IP20

Net weight: 17KG

Size:32\*27\*59cm

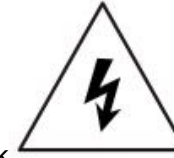
## Menu:

### 1. Menu Description:

#### Settings:

options	instructions	
operation mode	DMX	Slave state: receiving DMX signal from console or host
	Auto mode	Host state: self-powered and sends DMX signal to slave
	Sound active mode	
DMX address	1~512	Press "OK" to enter editing mode. At this time, select hundreds place and press the "up" and "Down" keys to change the address code. Press OK again to select the ten place edit. Press "OK" again to select the bits to edit. Press again to exit the edit mode
bulb	close	Off the light bulb
	open	Open the light bulb
The motor is reset	close	
	open	Light reset
The channel model	Standard 16 ch	Standard 16 ch, Channels 17th~20th are not valid.
	Extended 20 ch	Extended 20 ch, speed controlled by channels 17th~20th (pls check the channel chart)
language	Chinese	Set the interface to Chinese
	English	Set the interface to English
Screen rotation	close	Positive display
	open	The screen is displayed inversely
X inversion	close	
	open	

## Instructions and remarks



Warning. Electric shock

The light source inside this lamp should be replaced by our company or our service agent or person with similar qualification

1. Check whether the power supply and voltage are normal before use. If the voltage fluctuates greatly, it is recommended to use voltage stabilizer or voltage regulator.
2. The equipment belongs to the first-level protective lamps. The power cord of the product must be grounded and well grounded when used.
3. This equipment shell temperature around 40 to 60 °C while work, do not touch the shell.
4. The internal components of the equipment must be purchased from the manufacturer.
5. Use the console control as far as possible avoid neighbors have interference sources (example: wireless walkie-talkie, high frequency source, etc.)
6. When using this product, the same signal lines within 20 meters maximum control 20 sets of the same products, beyond this range should be an additional signal amplification devices amplify the signal to use .
7. Light source in use, must be controlled within the indicated the use time of light source, out of timer, please change the lamp.
8. When replacing the lamp, power dump firstly, open the head's plastic cover, and open the fan shelf in the lamp area, then replace with a same specification lamp.

16	Reset	000-025	Invalid area, no specified function area also no action
		026-050	Effect motor reset
		061-085	XY reset
		250-255	The whole light reset
17	Reserved	000-255	Speed from fast to slow
18	The speed of color wheel		
19	Speed of Dimmer/ Prism/frost		
20	The speed of gobo wheel		

### Description of master-slave mode

Set one of the machines as the host, select self-running, set the other machines as the slave, and the slave machines as the DMX address code 001 state, connect the signal line. At this time, the slave machines accept the host control, and the functions are synchronized with the current functions of the host.

Y inversion	close	
	open	
XY exchange	close	
	open	Swap XY axis channels (including fine tuning)
XY encoder	open	Use an encoder (optocoupler) to determine out-of-step and automatically correct position
	close	No encoder (optocoupler) is used to correct position
DMX signal	keep	Continue running as before
	reset	Motor back, stop running
Bulb off when low fan working speed	open	If the speed of the fan is too low, bulb will automatically be off
	close	If the speed of the fan is too low, bulb will not be automatically off
Switch on light and turn on bulb	close	Directly reset after power on, bulb off (need to use menu or console to turn on bulb)
	open	After power on light, the bulb is also powered on, reset after the bulb successfully lights up
Color wheel changes linearly	open	Color wheel changes linearly
	close	Color wheel nonlinear change, half-color change
Restore default Settings		Press OK to see the confirmation dialog box. Press OK again to restore the default Settings

**Information:**

options	instructions	
DIS		Display board software version
MT		Motor board software version
manual operation	Manual interface	The corresponding channel is manually controlled
Time information	lighting time	Record bulb lighting time
	Total using time	Record working time
	Valid time	9999 means no password and can be always used
Blower speed		Display current blower speed
System error		If the red ERR indicator lights up, it indicates that the lamp is running wrong. Details can be viewed in the sub-interface. After viewing, you can press the "Clear" button to clear error records
Hall state	0000000	when magnetic is detected,0, otherwise 1
Steps of X encoding disk	0000	In the clockwise direction, the steps should increase, in the anti-clockwise direction, the steps should decrease. It should be same numbers every time when you turn into same point
Steps of Y encoding disk	0000	In the clockwise direction, the steps should increase, in the anti-clockwise direction, the steps should decrease. It should be same numbers every time when you turn into same point

4	Fixed gobo wheel	140-144 145-149 150-154 155-159 160-164 165-169 170-174 175-179 180-217 218-255	Fixed gobo 11 shake (from slow to fast) Fixed gobo 12 shake (from slow to fast) Fixed gobo 13shake (from slow to fast) Fixed gobo 14shake (from slow to fast) Fixed gobo 15shake (from slow to fast) Fixed gobo 16shake (from slow to fast) Fixed gobo 17shake (from slow to fast) Fixed gobo 18shake (from slow to fast) Positive flow effect(from fast to slow) Reverse flow effect(from slow to fast)
5	Prism 1	000-127 128-255	Prism 1 out Prism 1 in
6	Prism 1 rotation	000-127 128-190 191-192 193-255	Prism Angle adjustment Reverse rotation (fast to slow) stop Positive rotation (from slow to fast)
7	Prism 2	000-127 128-255	Prism 2 out Prism 2 in
8	Prism 2 rotate	000-127 128-190 191-192 193-255	Prism Angle adjustment Reverse rotation (fast to slow) stop Positive rotation (from slow to fast)
9	Focus	000-255	The gobo sharpness from far to near
10	Pan scan	000-255	Pan 540 degree scan
11	Pan fine	000-255	Pan 1.2 degree fine
12	Tilt scan	000-255	Tilt 270 degree scan
13	Tilt fine	000-255	Tilt 1.2 degree fine
14	XY speed	000-255	Speed from fast to slow
15	Frost&7-colors	000-127	No use

	glass	128-191 192-255	Frost lens in 7-colors glass in
3	Dimmer	000-255	From dark to light
4	Fixed gobo wheel	000-004 005-009 010-014 015-019 020-024 025-029 030-034 035-039 040-044 045-049 050-054 055-059 060-064 065-069 070-074 075-079 080-084 085-089 090-094 095-099 100-104 105-109 110-114 115-119 120-124 125-129 130-134 135-139 140-144	Gobo 1 Gobo 2 Gobo 3 Gobo 4 Gobo 5 Gobo 6 Gobo 7 Gobo 8 Gobo 9 Gobo 10 Gobo 11 Gobo 12 Gobo 13 Gobo 14 Gobo 15 Gobo 16 Gobo 17 Gobo 18 Fixed gobo 1 shake (from slow to fast) Fixed gobo 2 shake (from slow to fast) Fixed gobo 3 shake (from slow to fast) Fixed gobo 4 shake (from slow to fast) Fixed gobo 5 shake (from slow to fast) Fixed gobo 6 shake (from slow to fast) Fixed gobo 7 shake (from slow to fast) Fixed gobo 8 shake (from slow to fast) Fixed gobo 9 shake (from slow to fast) Fixed gobo 10 shake (from slow to fast) Fixed gobo 11 shake (from slow to fast)

		145-149	Fixed gobo 12 shake (from slow to fast)
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**Error Message Description:**

Common error messages	instructions
MT board connection failed.	Motor board is not responding. The connection of display board and motor board is faulty, or the motor board is faulty.
The X reset failed	X photoelectric switch, or X motor or motor board failed
The Y reset failed	Y photoelectric switch, or Y motor or motor board failed
X-axis Hall error	X Hall, or motor PCB failed
Y-axis Hall error	Y Hall, or motor PCB failed
Reset of color wheel failed	Hall of color wheel, or motor of color wheel failed
Reset of gobo wheel failed	Hall of gobo wheel, or motor of gobo wheel failed
Focus reset failed	There is a problem with the focusing hall or the focusing motor
Bulb control failure	Bulb on/off failed, bulb ignitor or bulb is faulty

1	Color wheel	000-004	White color
		005-009	White + color 1
		010-014	Color 1
		015-019	Color 1 plus color 2
		020-024	Color 2
		025-029	Color 2 plus color 3
		030-034	The color of 3
		035-039	Color 3 plus color 4
		040-044	Color 4

**factory:**

calibration	X	After entering the sub-interface, you can adjust the reset position of the X , Y and other motors to compensate for errors in hardware installation. The adjustment range is -128~+127, +0 means no adjustment.
	Y	
	color	
	gobo	
	Zoom	
	Dimmer	
	Prism 1	
	Prism 1	
	Prism 2	
	Prism 2	
	Frost calibration	
	7 colors glass	

**16/20CH channel:**

1	Color wheel	045-049	Color 4 plus color 5
		050-054	Color 5
		055-059	Color 5 plus color 6
		060-064	Color 6
		065-069	Color 6 plus color 7
		070-074	Color 7
		075-079	Color 7 plus color 8
		080-084	Color 8
		085-089	Color 8 plus color 9
		090-094	Color 9
		095-099	Color 9 plus color 10
		100-104	Color 10
		105-109	Color 10 plus color 11
		110-114	Color 11
		115-119	Color 11 plus color 12
		120-124	Color 12
		125-129	Color 12 plus color 13
130-134	Color 13		
135-139	Color 13 plus color 14		
140-144	Color 14		
145-149	Color 14+ white light		
150-200	Forward flow (from fast to slow)		
201-255	Reverse flow (from slow to fast)		
2	strobosco pic	000-003	Shutter close
		004-103	From fast to slow
		104-107	Shutter open(control by dimmer CH )
		108-207	Pulse strobe from slow to fast
		208-212	shutter on → (controlled by dimming channel)
		213-251	Random strobe from slow to fast
		252-255	shutter on → (controlled by dimming channel)

