



**YELLOWRIVER**  
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## **200W COB Moving Head Spot**

**Model: YR-COB200Z**



## **User Manual**

*Please read these instructions carefully before use*

## 1. Notes:

Any damage caused by disregard of this manual does not belong to the scope of warranty, and the manufacturer shall not bear any responsibility for all consequences and problems arising therefrom. Please note that the damage caused by violation of operating procedures does not belong to the scope of warranty.

### Technical specification

LED PARAMETER

LED: LED 200W WHITE

LED life span: 20000H

CCT: 5600K

Controls parameters

Strobe: 1-20t/s

Control signal: DMX512 protocol, RDM protocol

Control channel: 10CH

Operation mode: DMX512/ master-slave/ auto/ sound-active

Display function:

1.4 -inch LCD color screen, can be set horizontal and vertical inversion, screen reversible, switchable in both Chinese and English, automatic screen turn off, display the channel number, fault prosecution, manual control channel, data memory, the software version information, restore factory Settings, the scanning and the effect correction result.

LED opening mode: supports instant blackout and light on

Effect parameters:

Color wheel: 4 colors (R,G,B,Y) + white, semi-color effect +bi-direction flow effect.

Beam Angle: zoom, 14-60 degrees.

Scanning: use three-phase motor, Pan 540°/2.1 seconds, tilt 270° /1.1 seconds, 8-16 bit scanning, using photoelectric reset with automatic error correction function.

Working parameters:

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

Power: 250W

Safety parameters:

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

Working temperature: under 40 °C

Light parameters:

Display: color screen +5 buttons

Power interface: one in powercon

Signal interface: one in one out 3 pin

Waterproof grade: IP20

Net weight: 8.2 KG

Size:296\*230\*440mm

## 2. Menu:

### 2.1 Manual control:

The menu will display 10 channels according to the standard 10 channels set in the setup menu.

Option	Description	
1CH. X	0~255	The yellow arrow indicates the selection. Press the "OK" button to enter the editing state. At this time, the font color is red. Press the "Up" and "Down" buttons to change the channel value, then press the "OK" button to save and exit the editing state.
.....	0~255	
9CH.Focus motor	0~255	
10CH.Reset		Press "OK" to see the confirmation dialog box, press "OK" again to enter the reset interface, all motor reset

## 2.2 Set up:

Option	Description	
Running mode	DMX	Slave status: Receive DMX signals from the console or host
	Auto Run 1	Self-propelled effect demonstration;
	Auto Run 2	Host status: self-propelled and send DMX signal to
	Random	slave
	Sound active	
DMX Address	1~512	Press "OK" to enter the editing state, then press "Up" and "Down" to change the address code. Press the "OK" button again to save and exit the editing state.
Channel Mode	Standard 10CH	Standard 10CH mode
X Reverse	Open as the starting point and end point exchange, the default is off	
Y Reverse	Open as the starting point and end point exchange, the default is off	
XY Exchange	Open channel for exchanging XY axes (including fine tuning), default is off	
XY encoder	Open for the optocoupler to determine the out of step and automatically correct the position, off as not correct	
DMX Signal	Hold: continue running according to the original state. Clear: the motor returns to the position and stops running.	
Color linear	Open as a color wheel linear change, off as a color wheel nonlinear change, half color change	
Reset	Press "OK" to see the confirmation dialog, press "OK" again to restore the default value.	

## 5. 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 well grounded.

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

### 3. master-slave mode online explanation

Set one of the machines as the master unit, select the auto operation, set the other machines as the slave unit, set the slave machine as DMX address code 001 state, connect the signal line, at this time, the slave unit are controlled by master unit, and its function is synchronized with the current function of the master units

### 4. Instructions and remarks

Warning, danger of electric shock



The light source inside this lamp should be replaced by the company or our service agent or a person with similar qualifications.

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 for power supply.
2. This equipment belongs to the first class protective light and the product power cord must be grounded and well grounded when used
3. The cover temperature of this equipment is 40-50 °C at work, do not touch the cover.
4. The internal components of the equipment must be purchased from the manufacturer.
5. When using controller, try to avoid signal interference sources (example: wireless intercom, high-frequency transmitter, etc.)
6. When using this product, a maximum of 20 identical products can be controlled within 20 meters of the same signal line. If exceeding this range, additional signal amplification equipment is needed to amplify the signal before it can be used.
7. The light source in use must be controlled within the service time indicated by the light source. After the service time is reached, please change the light source in time before use.

### 5. System:

	Description	
Software version		Present software version
Reset calibration	Pan calibration	Enter sub-menu, reset for Pan/tilt motor can be adjusted to compensate the errors caused by hardware installation.
	Tilt calibration	
	Color calibration	Adjustment range: -128~+127, +0 means no adjustment
	Focus calibration	
Sensor Detection	Pan hall sensor	0: Function properly, 1: otherwise
	Tilt hall sensor	
	Color hall sensor	
	Focus hall sensor	
	Pan Encoder State	2 figures, each one is corresponding to Photoelectric switch for the encoder involved
	Tilt Encoder State	2 figures, each one is corresponding to Photoelectric switch for the encoder involved
	Pan Encoder Value	The value increases when following original setting and decreases when moving from another direction. It shows the same value when passing a certain place, otherwise error occurs.

	Tilt Encoder Value	The value increases when following original setting and decreases when moving from another direction. It shows the same value when passing a certain place, otherwise error occurs.
System Error	Common Errors	Red alert light on, the fixture has a technical problem. Check the detail from sub-menu. The error record can be deleted after checking.
DMX Detecting		Enter the sub-menu, show the value according to channel value .

#### 4.Failure indications menu:

Sub menu	Failure indications
MT board connection failure	The driver board did not respond. the connection between the display board and the drive board has error, or the driver board has error
Pan does not reset correctly	the pan photoelectric switch or pan motor of the pan has error
Tilt does not reset correctly	The tilt photoelectric switch or tilt motor of the tilt has error
Pan hall error	Pan hall has error
Tilt hall error	Tilt hall has error
Color wheel does not reset correctly	color wheel hall or color wheel motor has error
Focus does not reset correctly	focus hall or focus motor has error

#### 5.Channel

Ch	Function	Value	Description
1	Pan motor	0~255	pan motor movement adjustment
2	Pan fine	0~255	pan motor movement fine adjustment
3	Tilt motor	0~255	tilt motor movement adjustment
4	Tilt fine	0~255	tilt motor movement fine adjustment
5	Pan/tilt speed	0~255	pan/tilt speed adjustment
6	Dimmer	0~255	0-255 From dark to bright
7	Strobe	0~3	off the light, no flicker
		4~251	open the light, from slow to fast, 255 the fastest
		252~255	open the light, no strobe
8	Color wheel	0~49	Color wheel switch
		50~200	Clockwise rotation, from fast to slow
		201~255	Counterclockwise rotation, from slow to fast
9	Focus motor	0~255	Zoom from 14 to 60 degree
10	Reset	0~49	Null
		50~99	Small motor reset, keep for 5 seconds and then reset
		100~199	Pan/tilt motor reset, keep for 5 seconds and then reset
		200~255	All motor reset, keep for 5 seconds and then reset