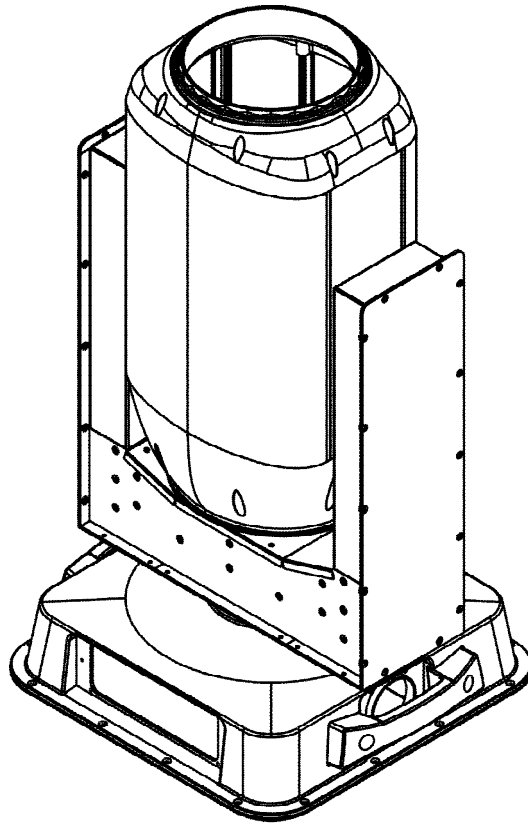


IM-WPB600 600W Waterproof Beam Moving Head Light

USER MANUAL



IP65 OUTDOOR WATERPROOF
MOVING HEAD BEAM LIGHT
(14/18 CHANNELS)



CONTENT

Content..... 1

Attention..... 2

Maintenance..... 2

Technical Parameter..... 2

Menu Description..... 4

Setting..... 5-6

Programming..... 6

Manual..... 6

System..... 7

Advance..... 7

Channels..... 8

Channel Details..... 9-13

Safety information..... 13

Alarm..... 13

Solutions to problems..... 13

Signal Indication Light..... 13

FAQ..... 13

Declaration..... 13

ATTENTION:

Thank you for choosing our products! Please read this instruction carefully before installing this product. This product is only for professional use, non-professional do not use without authorization, to avoid the risk.

After unpacking, the accessories should be:

- (1) A waterproof power cable;
- (2) A 3-core waterproof extension signal cable (3 meters);
- (3) A 3-core switching signal cable (1 meter) (not every match);
- (4) A user manual;
- (5) A lamp qualification certificate (stuck on the lamp).

Ø PRODUCT ADVISORIES:

- 1) In order to ensure the service life of the product, do not place the product in low-lying areas or places with standing water;
- 2) Do not place the product in a place easy to loosen or shake;
- 3) Please keep the product horizontally, do not tilt or invert it, if you need to invert it, please customize in advance;
- 4) To avoid the risk of electric shock, ensure that the power cable is not crimped or damaged by sharp edges. If the power cable is found damaged, please replace it in time. When using this product, please ensure that the grounding wire is effectively connected;
- 5) Do not use this product to illuminate flammable articles. Flammable articles (such as cloth, wood and paper) should be at least 5 meters away from the lamp body. Flammable articles should be kept away from the lamp body and at least 10 meters away from the light outlet;
- 6) Do not look directly at the light source and keep away from children;
- 7) When the bulb is in use, the change of power supply voltage shall not exceed 10%. If the voltage is too high, the life of the bulb will be shortened, if the voltage is too low, the light color of the bulb will be affected;
- 8) After the power of the lamp is cut off, it shall wait for at least 10 minutes, and then the lamp can be powered on again after fully cooling;
- 9) To ensure the normal use of this product, please read this manual carefully.

Ø MAINTENANCE:

- 1) Intermittent use can effectively extend the service life of this lamp;
- 2) In order to obtain good ventilation effect and lighting effect, it is necessary to regularly clean the fan, fan net and lens;
- 3) Do not use alcohol or other organic solvents to clean the lamp shell and lens to avoid damage.

TECHNICAL PARAMETER:

Input Voltage: AC90-240V, 50/60Hz

Light Source: Original OSRAM lamp

Life Span: 1500~2000hours

Power Consumption: 600W/800W

Color Temperature: 7500K

Ballast: OSRAM

Luminous Flux: 660000lumen@10m

Color Wheel: Adopt imported high color temperature color filter, 11pcs colors+open, half color and rainbow effect

Fixed Gobo Wheel: 14pcs fixed metal gobos+open, bidirectionally shaking

Prism Wheel: 1pc 8-facet prism, bidirectionally rotating at variable speed (3-facet or 16-facet prism is optional)

Rainbow Prism: Adopt imported 7 colors filters, make colorful beams

Beam Angle: 1.2°

Frost: 1pc frost filter, can achieve soft light effect

Shutter/Strobe: Independently strobe with double motors, 0.5-20 F.P.S, speed adjustable

Dimmer: 0-100% mechanical dimming, smooth without flicker

Lens: Adopt imported multilayer coating lens combination, the diameter of beam aperture is up to 200mm

Projection Distance: Up to 1000m in similar parallel light

Control Mode: DMX512, with RDM function, remotely set the address code via a large DMX512 controller

Channel: 14/18

Display: 2.8 inch colorful LCD screen, 180° inversion

Lamp Control: Control the lamp on/off via controller

Pan and Tilt: Adopt high precision three phase motors for pan and tilt, accurate location, smoothly moving, automatic correction location

Pan: 540°rotation, 8/16Bit adjustment

Tilt: 270°rotation, 8/16Bit adjustment

Fixture Material: High hardness heat dissipation aluminum profile, flame-retardant anti-aging high temperature engineering PVC, adopt outdoor imported fine sand spraying technology, anti-uv treatment, anti-aging, high temperature, long service life

IP Grade: IP65

Cooling System: Adopt imported fans (Japan), the chip controls the fan speed, the original heat dissipation structure, cooperate with the radiator shell, guarantee the long time outdoor use

Feature: It can be programmed independently via LCD display, master and slave lights are running synchronously without controller operation

Fixture N.W.: 32.5KG

Packing G.W.: carton: 35.5KG

Fixture Size: L430*W400*H780mm

Packing Size: carton: L570*W500*H930mm

.....

MENU DESCRIPTION

Ø MENU STRUCTURE:

Main Interface:

1. Setting:
 - 1) : Run Mode
 - 2) : DMX Address... 001-512
 - 3) : Channel Mode...Ext.18CH / Std.14CH
 - 4) : Invert Pan...OFF / ON
 - 5) : Invert Tilt...OFF / ON
 - 6) : Pan-Tilt Swap...OFF / ON
 - 7) : Pan-Tilt Encoder...OFF / ON
 - 8) : No DMX Signal...KEEP / CLEAR
 - 9) : Display...OFF / ON
 - 10) : Lamp On @ Start Up...OFF / ON
 - 11) : Linear Color...OFF / ON
 - 12) : Programme...Program1~6
 - 13) : Load Default...OK / CANCEL

2. Manual:

3. System:
 - 1) : Ver: T080A-BS440-A101
 - 2) : DMX Monitor: CH1-CH18
 - 3) : System Errors
 - 4) : Total Fixture Hours
 - 5) : Partial Fixture Hours
 - 6) : Total Lamp Hours
 - 7) : Partial Lamp Hours

4. Advance:
 - 1) : Reset the calibration
 - 2) : Maximum lamp working hours
 - 3) : Clear lamp working time
 - 4) : Sensor monitoring

5. Language:

6. Screen Rotation:

Ø SETTING:

Option	Description	
Run Mode	DMX	Slave status: receive the DMX signal from the console or host
	Auto 1	Host status: auto go and send DMX signal to slave
	Auto 2	
	Auto 3	
	Auto 4	
	Draw up 8	
	Draw front 0	
	Draw front upright 8	
	Draw front sleep 8	
	Random	
	Sound control	
	Programme1~6	
DMX Address	1~512	Press "ok" to enter the edit state. At this time, select the hundreds digit and press "up" and "down" to change the address code. Press "ok" again to select the ten editors. Press "ok" again to select the bits. Press "ok" again to exit the edit state.
Channel Mode	Std. 14CH	Standard 14 channel mode, invalid channel 15~18
	Ext. 18CH	Extended 18 channel mode, 15~18 channel control speed (see channel table)
Invert Pan	OFF	
	ON	
Invert Tilt	OFF	
	ON	
Pan-Tilt Swap	OFF	
	ON	Switch XY axis channels (including fine tuning)
Pan-Tilt Encoder	ON	Using an encoder (optical coupler) to determine the out-of-step and automatically correct the position
	OFF	Correct position without using encoder (optical coupler)
No DMX Signal	KEEP	Continue running as before
	CLEAR	Motor return to position, stop operation
Display	ON	Turn off the backlight after idle for 30 seconds
	OFF	Backlight keep on
Lamp On @ Start Up	OFF	Direct reset after power on, no light bulb (need to use the menu or control table to manually light bulb)
	ON	After power on the automatic bright lamp, and to wait for the success of the bulb lit up before the reset
Linear Color	ON	The color wheel changes linearly
	OFF	Color wheel nonlinear change, half color change
Programme	Program 1~6	

Load Default		Press "ok" to see the confirmation dialog. Press "ok" again to restore the default Settings
--------------	--	---

MANUAL PROGRAMMING OPERATION:

Main Menu → setting(OK button) → programming(OK button) → program selection(1~6)(OK button) → programming(Long press OK button to switch operation buttons, save and add the next step, press OK button for saving, continue long press OK button to switch channel change button, change DMX value, cyclic operation, MAX. 20 scenes for each program.)

Level 1 menu	Level 2 menu	Level 3 menu
setting	programming	program selection

Select a program and enter, the interface is as follows:

Programming	
Total time	000
Gradual change time	000
1. Colour wheel	000
2. Stop/Strobe	000
Delete current step	Save and add steps
The previous step	The next step
00/00	Save
Back Up Down	Confirm

- 1) : A total of 6 programs can be written, MAX. 20 scenes for each program.
- 2) : After entering the programming interface, above are channels, below are operation buttons.
 Total time: It is the total running time of this scenes, the larger the value, the slower the running, there is no unit.
 Gradual change time: It's the time of travel steps in this scene, the larger the value, the slower the running, there is no unit, the recommended total time is greater than the gradual change time.
- 3) : Long press OK button to switch "operate function" or "channel change function".
- 4) : "Delete current step": Delete the step on the currently displayed channel value.
- 5) : "Save and add steps": Add a step to save the step on the currently displayed channel value.
- 6) : "The previous step": View the value from the previous step and display it on the channel.
- 7) : "01/2": Show how many steps the program is currently editing and the current edit steps.
- 8) : "The next step": View the value from the next step and display it on the channel.
- 9) : "Save": Save the the current display channel value step.
- 10) : Save and exit, select program 1 to 6 to play at the running mode.
- 11) : To enter a new program, you must exit the current running program and re-enter.

Ø MANUAL:

This interface is used to control the current lamp and automatically enter the host state (do not receive the DMX signal, send the DMX signal to the slave).

The manual menu will display 14 channels or 18 channels according to the standard 14 channels or extended 18 channels mode set in the Settings menu.

Ø SYSTEM:

Option	Description
Software version	Current software version
DMX address value	From there, enter the subscreen to display the channel values as values and percentages for viewing.
System error logging	If the red ERR indicator lights up, it indicates that there is something wrong with the operation of the lamp. The details can be viewed in the sub-interface. After viewing, press the "clear" key to clear the error record. Note: sometimes it is not the hall or optocoupler installation problem, but the motor wiring is reversed.
Total Fixture Hours	Accumulated usage time (accurate to minutes)
Partial Fixture Hours	Usage time since starting up this time (accurate to minutes)
Total Lamp Hours	Accumulated bright lamp time (accurate to minutes)
Partial Lamp Hours	Time of bright lamp (accurate to minutes)

Error Message	Description
Motor reset failed, serial port error	The drive board did not respond. There is a problem with the serial communication line connecting the display board to the driver board or the driver board.
Pan reset failed	Pan photoelectric switch or motor problem
Tilt reset failed	Tilt photoelectric switch or motor problem
Pan Hall error	Pan hall problem
Tilt Hall error	Tilt hall problem
Colour wheel reset failed	Colour hall or motor problem
Static gobo wheel reset failed	Gobo hall or motor problem
Focus reset failed	Focus hall or motor problem
Prism focus reset failed	Prism focus hall or motor problem
Lamp control failed	Ballast or lamp problem
Lamp usage time is too long, please change the lamp!	The cumulative bright lamp time exceeds the maximum bright lamp time set in the "advanced" menu, prompting the user to change the gun in time. After changing the lamp, clear the lamp time in the "advanced" menu, and the lamp time will be re-timed.

Ø ADVANCE:

Here set a layer of password, to prevent non-professional error operation. The default password is up and down. Press "ok" for password validation.

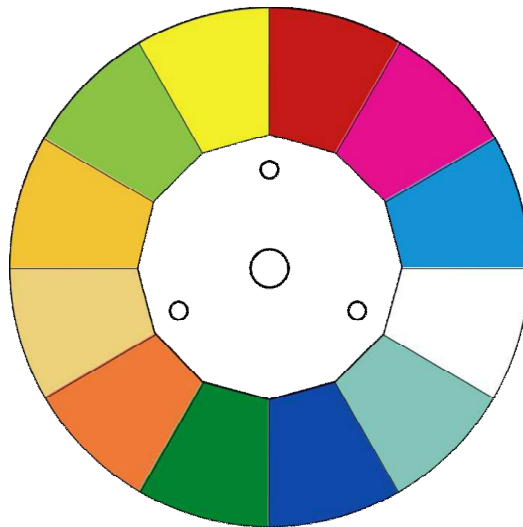
Option	Description
--------	-------------

Calibration reset	After entering the sub-interface, the reset position of motors such as X axis and Y axis can be adjusted to make up for the error in hardware installation. The adjustment range is -128~+127, and +0 means no adjustment.
Maximum bright lamp time	0-9999 hours, operation of the maximum bright lamp time system will be alerted
Clear lamp time	After clearing, the time of bright lamp is re-timed
Sensor monitoring	Real-time monitoring of lights on a variety of photoelectric switches, hall and other sensor status

DMX 512 CHANNELS:

CHANNEL	CHANNEL MODE	
	14CH MODE	18CH MODE
1	COLOUR WHEEL	COLOUR WHEEL
2	STOP/STROBE	STOP/STROBE
3	DIMMER	DIMMER
4	STATIC GOBO CHANGE	STATIC GOBO CHANGE
5	PRISM INSERTION	PRISM INSERTION
6	PRISM ROTATION	PRISM ROTATION
7	COLOURFUL MIRROR	COLOURFUL MIRROR
8	FROST	FROST
9	FOCUS	FOCUS
10	PAN	PAN
11	PAN FINE	PAN FINE
12	TILT	TILT
13	TILT FINE	TILT FINE
14	LAMP CONTROL& RESET	LAMP CONTROL& RESET
15		PAN-TILT TIME
16		COLOUR TIME
17		DIMMER-PRISM TIME
18		GOBO TIME

Ø COLOUR WHEEL - channel 1



BIT	EFFECT	REMARK
255	FAST ROTATION	For the sake of memory, the color value is always a multiple of 5.
.....	
191	SLOW ROTATION	Linear variation:
190	FAST ROTATION	
.....	The color proportion can be adjusted, for example: when the value is 5, white 50%, dark red 50%; if the value is 4, white 60%, dark red 40%;
120	SLOW ROTATION	
115	CTO 260 + CTO 190	If it's 6, it's 40 percent white and 60 percent dark red.
110	CTO 260	
105	CYAN + CTO 260	Nonlinear variation:
100	CYAN	
95	MAGENTA + CYAN	The color is adjusted with the companion color as the unit.
90	MAGENTA	
85	YELLOW + MAGENTA	You can select "linear" and "nonlinear" from the Settings menu.
80	YELLOW	
75	PINK + YELLOW	
70	PINK	
65	LAVENDER + PINK	
60	LAVENDER	
55	LIGHT GREEN + LAVENDER	
50	LIGHT GREEN	
45	GREEN + LIGHT GREEN	
40	GREEN	
35	AQUAMARINE + GREEN	
30	AQUAMARINE	
25	ORANGE + AQUAMARINE	
20	ORANGE	

.....

15	RED + ORANGE	
10	RED	
5	WHITE + RED	
0	WHITE	

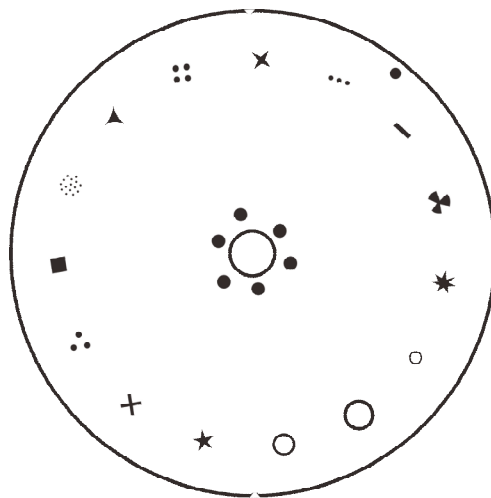
Ø STOP/STOBE - channel 2

BIT	EFFECT	REMARK
251-255	OPEN	Controlled by dimming channel
103	FAST STROBE	
.....	
4	SLOW STROBE	
0-3	CLOSED	

Ø DIMMER - channel 3

BIT	EFFECT	REMARK
255	100%	
.....	
0	0%	

Ø STATIC GOBO CHANGE - channel 4



BIT	EFFECT	REMARK
255	FAST ROTATION	
.....	
201	SLOW ROTATION	
200	SLOW ROTATION	
.....	
150	FAST ROTATION	
149	GOBO 14 SHAKE, FAST SPEED	Every 5 values corresponds to a pattern
.....	
145	GOBO 14 SHAKE, SLOW SPEED	

.....

144	GOBO 13 SHAKE, FAST SPEED		
.....		
140	GOBO 13 SHAKE, SLOW SPEED		
.....		
89	GOBO 2 SHAKE, FAST SPEED		
.....		
85	GOBO 2 SHAKE, SLOW SPEED		
84	GOBO 1 SHAKE, FAST SPEED		
.....		
80	GOBO 1 SHAKE, SLOW SPEED		
79	WHITE SHAKE, SLOW SPEED		
.....		
75	WHITE SHAKE, SLOW SPEED		
70	GOBO 14		It's always a multiple of 5
65	GOBO 13		
60	GOBO 12		
55	GOBO 11		
50	GOBO 10		
45	GOBO 9		
40	GOBO 8		
35	GOBO 7		
30	GOBO 6		
25	GOBO 5		
20	GOBO 4		
15	GOBO 3		
10	GOBO 2		
5	GOBO 1		
0	WHITE		

Ø PRISM INSERTION - channel 5

BIT	EFFECT	REMARK
128-255	PRISM INSERTED	
0-127	PRISM EXCLUDED	

Ø PRISM ROTATION - channel 6

BIT	EFFECT	REMARK
255	FAST ROTATION	
.....	
193	SLOW ROTATION	
191-192	STOP	
190	SLOW ROTATION	
.....	
128	FAST ROTATION	

.....

0-127	POSITION	
-------	----------	--

Ø COLOR EFFECT INSERTION - channel 7

BIT	EFFECT	REMARK
128-255	PRISM INSERTED	
0-127	PRISM EXCLUDED	

Ø FROST - channel 8

BIT	EFFECT	REMARK
128-255	FROST INSERTED	
0-127	FROST EXCLUDED	

Ø FOCUS - channel 9

BIT	EFFECT	REMARK
255	100%	
.....	
0	0%	

Ø PAN - channel 10

BIT	EFFECT	REMARK
0-255	Pan movement 0-540°	

Ø PAN FINE - channel 11

BIT	EFFECT	REMARK
0-255	Pan fine movement 0-2.1°	

Ø TILT - channel 12

BIT	EFFECT	REMARK
0-255	Tilt movement 0-270°	

Ø TILT FINE - channel 13

BIT	EFFECT	REMARK
0-255	Tilt fine movement 0-1.0°	

Ø LAMP CONTROL&RESET - channel 14

BIT	EFFECT	REMARK
250-255	COMPLETE RESET	Reset is activated passing through the unused range and staying 5 seconds.
206-249	UNUSED RANGE	
200-205	LAMP ON	
106-199	UNUSED RANGE	
100-105	LAMP OFF	
0-99	UNUSED RANGE	

Ø TIMING CHANNELS - channel15~18

	Timing Channel	Channel function	Remark	
15	Pan-Tilt time	Pan-Tilt-(Pan fine-Tilt fine)	255	SLOW SPEED
16	Colour time	Colour wheel
17	Beam time	Dimmer-Prism	0	FAST SPEED
18	Gobo time	Static Gobo		

Ø SIGNAL INDICATING LIGHT:

- n The ERR red indicator light flashes, indicating that there is an error message. Go to "information" -> "system error message" to check.
- n DMX blue indicator light, always on means receiving DMX signal, always off means no DMX signal.
- n If the blue indicator light on the motor drive board flashes rapidly at an interval of 1 second, it means that the serial port signal sent from the display board is received; If the light flashes at a slow speed at an interval of 2 seconds, it means that there is no serial port signal, and the flicker of the light is used to indicate that the system is running; If the indicator light is always on or off, it means there is something wrong with the motor drive board.

Ø FREQUENTLY ASKED QUESTIONS:

- (1) Uncontrolled: check whether the signal connection line is normal and whether the control mode of the display board is DMX512 mode;
- (2) Automatic reset: check whether the signal connection line is normal and whether the lamp is set to other control modes

Ø DECLARATION:

This product in factory, the performance is good, the packing is complete. All users shall strictly abide by the warning and operation instructions stated above. Any lamp damage caused by misuse is not covered by the warranty of the company, and the distributor shall not be responsible for any failure or problem caused by ignoring the operation manual.

This manual is subject to change without notice, thanks for your patronage!