BEAM200W/230W

USER MANUAL

PLEASE READ THIS CAREFULLY BEFORE USE

Menu description

➢ Menu structure

- Main interface
  - --manual
  - -- set up
    - --- operating mode
    - ---- DMX address
    - ---- channel mode
    - ---- X reverse
    - ---- Y reversal
    - ---- XY swap
    - ---- XY encoder
    - ---- DMX signal
    - ---- Turn on the bubble
    - ---- Color wheel changes linearly
    - ---- restore default settings
  - --system
    - -- Software version
    - -- reset calibration
    - -- Sensor monitoring
    - -- system error
    - -- Permission settings
    - -- DMX monitoring
  - --Switch between Chinese and English
  - --screen rotation

➢ Manual control

This interface controls the current fixtures with thousands, and at the same time automatically enters the master state (does not receive DMX signals, and sends DMX signals to the bus to the slaves). The manual menu will display 16 channels or 20 channels correspondingly according to the standard 16-channel or extended 20-channel mode set in the setup menu.

Options	Directions	
1CH.color wheel	0~255	Press "OK" to enter the editing state. At this time, the hundreds digit is selected, press the "Up" and "Down" keys to change the channel value. Press the "OK" button again to select the ten-digit editing. Press the "OK" button again to select the one digit editing. Press again to exit the editing state
.....	0~255	
14CH. macro function	0~255	
15CH.reset		Press the "OK" button to see the confirmation dialog box, press the "OK" button again to enter the reset interface, all motors are reset
16CH.light bulb control	ON	
	OFF	
17CH.XYSpeed	0~255	Displayed when the channel mode is "Extended CH20"
18CH.color wheel speed	0~255	Displayed when the channel mode is "Extended CH20"
19CH. DIMMER-PRISM-FROST TIME	0~255	Displayed when the channel mode is "Extended CH20"
20CH. Gobo speed	0~255	Displayed when the channel mode is "Extended CH20"

➢ Set up

Options	Directions	
operating mode	DMX	Slave state: receive DMX signal from console or host
	Auto1	Master status: self-propelled and send DMX signal to slave
	Auto2	
	Random	
	Sound	
DMX address	1~512	Press the "OK" key to enter the editing state. At this time, the hundreds digit is selected, and the "up" and "down" keys are pressed to change the address code. Press the "OK" key again to select ten edits. Press the "OK" key again to select the one digit editing. Press again to exit the editing state

Channel mode		Standard 16-channel mode, the 17th to 20th channels are invalid
		Extended 20-channel mode, the 17th~20th channel controls the speed (refer to the channel table)
X reverse		
Y reversal		
XY swap		
		Swap the channels of the XY axes (including fine-tuning)
XY encoder		Use the encoder (optical coupler) to judge the out-of-step and automatically correct the position
		Correct position without encoder (optocoupler)
DMX signal		Continue to operate as it is
		The motor returns and stops running
screen protector		Turn off the backlight after 30 seconds of inactivity
		Backlight always bright
Turn on the bubble		Reset directly after power on, do not light the bulb (need to use the menu or console to manually light the bulb)
		After the power is turned on, the bulb will automatically light up, and the reset will not be performed until the light bulb is successfully turned on.
Color wheel changes linearly		Color wheel changes linearly
		Color wheel non-linear change, half color change
restore default settings		Press the "OK" button to see the confirmation dialog box, press the "OK" button again to restore the default settings

- **System message**

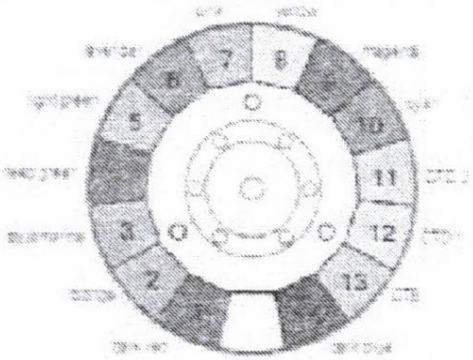
  A layer of password is set in the "Permission Settings" option to prevent non-professionals from misoperation.

Options	Directions	
Software version		current software version
reset calibration	X-axis calibration	After entering the sub-interface, you can adjust the reset positions of motors such as X-axis and Y-axis to make up for the error in hardware installation. The adjustment range is -128~+127, +0 means no adjustment.
	Y-axis calibration	
	color calibration	
	Pattern Calibration	
	Focus calibration	
	Dimming calibration	
Sensor monitoring		Real-time monitoring of the status of various photoelectric switches, Hall and other sensors on the lamp
system error		System error message
Permission settings	Permission duration	0-9999 hours, the system will have an alarm prompt when operating the maximum bubbling time
	User password	The default password "1010" is "up down up down" can be modified
	Administrator password	
DMX monitoring		Real-time monitoring of console signals

error message	Directions
Motor reset failed, serial port error	The driver board is not responding. There is a problem with the serial communication line connecting the display board and the driver board, or there is a problem with the driver board.
X axis reset failed	X-axis photoelectric switch, or X-axis motor is faulty
Y axis reset failed	Y-axis photoelectric switch, or Y-axis motor is faulty
X axis Hall error	Problem with X-axis Hall
Y axis Hall error	Problem with Y axis Hall
Color wheel reset failed	The color wheel Hall, or the color wheel motor has a problem
Pattern disk reset failed	Gobo Hall, or gobo motor is faulty
Focus reset failed	Focusing Hall, or there is a problem with the focusing motor
Prism focus reset failed	There is a problem with the prism focusing Hall, or the prism focusing motor
Lamp control failed	Failure to brighten or debubble, there is a problem with the lighter or bulb
The bright bubble time is too long, please change the bubble!	If the cumulative bright bubble time exceeds the maximum bright bubble time set in the "Advanced" menu, the user is prompted to change the gun in time. After changing the bubble, clear the bubble time in the "Advanced" menu, and the bubble time will be counted again.

CHANNEL	CHANNEL MODE	
	16	20
1	COLOUR WHEEL	COLOUR WHEEL
2	STOP/STROBE	STOP/STROBE
3	DIMMER	DIMMER
4	STATIC GOBO CHANGE	STATIC GOBO CHANGE
5	PRISM 1 INSERTION	PRISM 1 INSERTION
6	PRISM 1 ROTATION	PRISM 1 ROTATION
7	RFU	RFU
8	FROST	FROST
9	FOCUS	FOCUS
10	PAN	PAN
11	PAN FINE	PAN FINE
12	TILT	TILT
13	TILT FINE	TILT FINE
14	MARCO FUNCTION	MARCO FUNCTION
15	RESET	RESET
16	LAMP CONTROL	LAMP CONTROL
17		PAN-TILT TIME
18		COLOUR TIME
19		DIMMER-PRISM-FROST TIME
20		GOBO TIME

- COLOUR WHEEL - channel 1



BIT	EFFECT		Remark
255	FAST ROTATION		
.....	.....	.....	
150	SLOW ROTATION		
145	BLUE + WHITE		For ease of memory, color values are always multiples of 5. Linear change: The color ratio is adjustable, for example: when the value is 5, white 50% dark red 50%. If the value is 4, it is 60% white and 40% dark red; if the value is 6, it is 40% white and 60% dark red. Nonlinear Variation: Colors are adjusted in secondary color units.
140	BLUE		
135	CTB 8000 + BLUE		
130	CTB 8000		
125	CTO 190 + CTB 8000		
120	CTO 190		
115	CTO 260 + CTO 190		
110	CTO 260		
105	CYAN + CTO 260		
100	CYAN		
95	MAGENTA + CYAN		
90	MAGENTA		
85	YELLOW + MAGENTA		
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		"Linear" and "Nonlinear " selection of color chips via the settings menu
15	RED + ORANGE		
10	RED		
5	WHITE + RED		
0	WHITE		

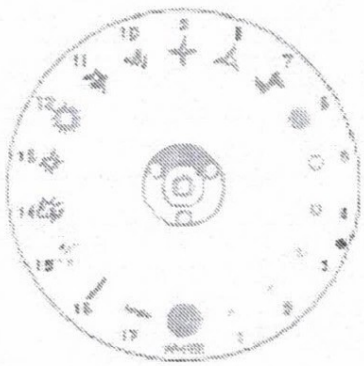
➢ STOP/STOBE - channel 2

BIT	EFFECT		Remark
251-255	OPEN		Controlled by dimming CH
250	FAST STROBE		
.....	.....	.....	
4	SLOW STROBE		
0-3	CLOSED		

➢ DIMMER - channel 3

BIT	EFFECT		Remark
255	100%		
.....	.....	.....	
0	0%		

➢ STATIC GOBO CHANGE - channel 4



BIT	EFFECT		Remark
255	GOBO 17 SHAKE, FAST SPEED		Every 5 values corres ponds to a pattern
.....	.....	.....	
251	GOBO 17 SHAKE, SLOW SPEED		
250	GOBO 16 SHAKE, FAST SPEED		
.....	.....	.....	
246	GOBO 16 SHAKE, SLOW SPEED		
.....	.....	.....(GOBO3 to GOBO15)	
180	GOBO 2 SHAKE, FAST SPEED		
.....	.....	.....	
176	GOBO 2 SHAKE, SLOW SPEED		
175	GOBO 1 SHAKE, FAST SPEED		
.....	.....	.....	
171	GOBO 1 SHAKE, SLOW SPEED		
170	FAST ROTATION		
.....	.....	.....	
135	SLOW ROTATION		
130-134	STOP		
129	SLOW ROTATION		
.....	.....	.....	
90	FAST ROTATION		
85	GOBO 17		The value is alway s a multi ple of 5
80	GOBO 16		
75	GOBO 15		
70	GOBO 14		
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		

- PRISM 1 INSERTION - channel 5

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

- PRISM 1 ROTATION - channel 6

BIT	EFFECT		Remark
255	FAST ROTATION		
.....	.....	.....	
193	SLOW ROTATION		
191-192	STOP		
190	SLOW ROTATION		
.....	.....	.....	
128	FAST ROTATION		
0-127	POSITION		

- RFU- channel 7 (none)
- FROST - channel 8
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BIT	EFFECT		Remark
128-255	FROST INSERTED		
0-127	FROST EXCLUDED		

- FOCUS - channel 9

BIT	EFFECT		Remark
255	100%	Focus 100%	
.....	.....	.....	
0	0%	Focus 0%	

- PAN - channel 10 （none）
- PAN FINE - channel 11 （none）
- TILT - channel 12 （none）
- TILT FINE - channel 13 （none）
- MACRO FUNCTION - channel 14 (none)
- RESET - channel 15

BIT	EFFECT		Remark
128-255	COMPLETE RESET	Reset all motors	Reset is activated passing through the unused range and staying 5 seconds.
77-127	PAN/TILT RESET	Large motor （XY axis) reset	
26-76	EFFECTS RESET	Small motor reset	
0-25	UNUSED RANGE	invalid area	

- LAMP CONTROL- channel 16

BIT	EFFECT		Remark
101-255	LAMP ON		Lamp switch passing through the unused range and staying 5 seconds.
10-100	LAMP OFF		
0-9	UNUSED RANGE		

➢ **TIMING CHANNELS**

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

S085A-B5R-S0 (Special Instructions)

- During the reset process, long press the touch screen for 5 seconds, or long press the OK button for 5 seconds to interrupt the reset.
- Press and hold the confirm key or touch screen when power on to interrupt the reset process and enter the test mode.
- Set the DMX address to 512, go back to the main interface, press and hold "512" on the touch screen for 5 seconds,
  Or long press the OK button for 5 seconds, you can set the "show" or "hide" LOGO.
- The pattern disk and color disk have automatic magnetic detection and error correction function. When installing the Hall, it should be noted that when the channel value is 0, even if the reset calibration is used for fine-tuning, it is best to align the magnet. The function will be invalid: if it can be magnetized, when the user finds that the gobo or color plate of a certain lamp is out of sync, push the channel value to 0, and the system will automatically reset the gobo or color plate for error correction.
- **Signal indicator:**
  - **ERR red indicator flashes, indicating that there is an error message, enter "Information" -> "**
    System error message "View.
  - **DMX blue indicator light, always on means receiving DMX signal, always off means no DMX signal.**
  - **The blue indicator light on the motor driver board, if it flashes rapidly at intervals of 1 second, means that the serial port signal sent by the display board is received; if it flashes slowly at intervals of 2 seconds, it means that there is no serial port signal. It indicates that the system is running; if the indicator light is always on or off, it means there is a problem with the motor driver board.**