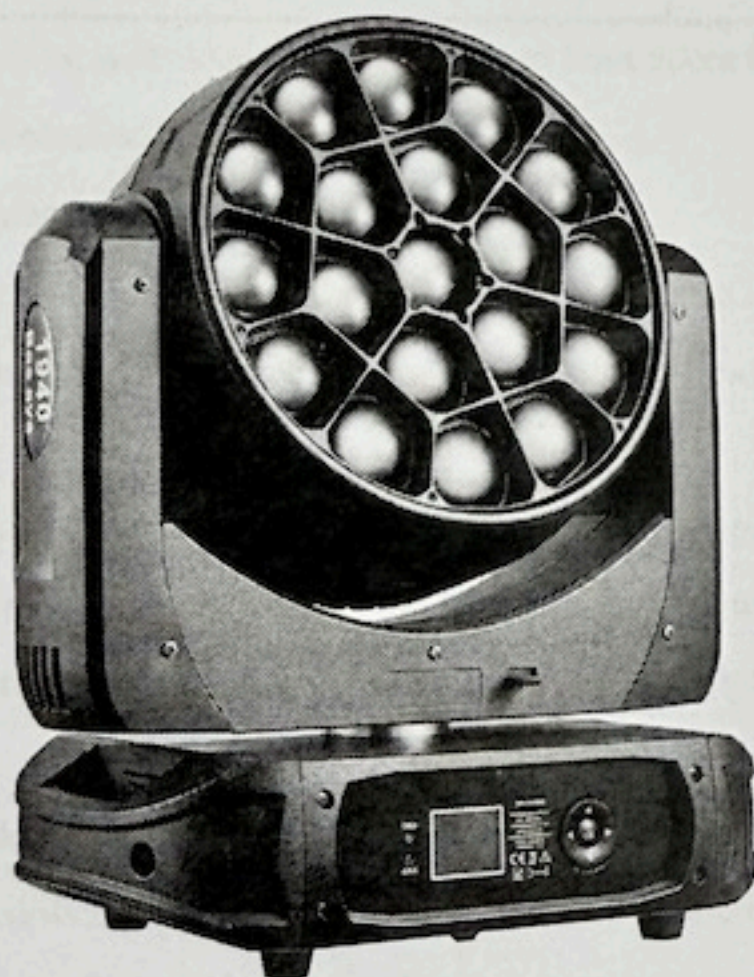# User manual

19X40 B-EYE

Please read the instructions carefully before use

fixed to avoid vibration and slipping while operating. And make sure that the structure to which you are attaching the unit is secure and is able to su pport a weight of 10 times of the unit's weight. Also always use a safety cable that can hold 12 times of the weight of the unit when installing the fixture.

• The equipment must be fixed by professionals. And it must be fixed at a place where is out of the touch of people.

Technical Specifications

Voltage: AC100V~240V 50-60HZ

Rated Power: 760W

LED Source: 19x40W high power RGBW 4 in 1 LEDs

Zoom: 4°-60°

Strobe: 0-20Hz

Control Mode: DMX512,Sound-actived,Master slave

DMX Channels: 21/22/35/36 channel

Pixel Channel: 57 / 76 channel

linear dimmer: 0-100%

Pan: 540°+16 bit fine
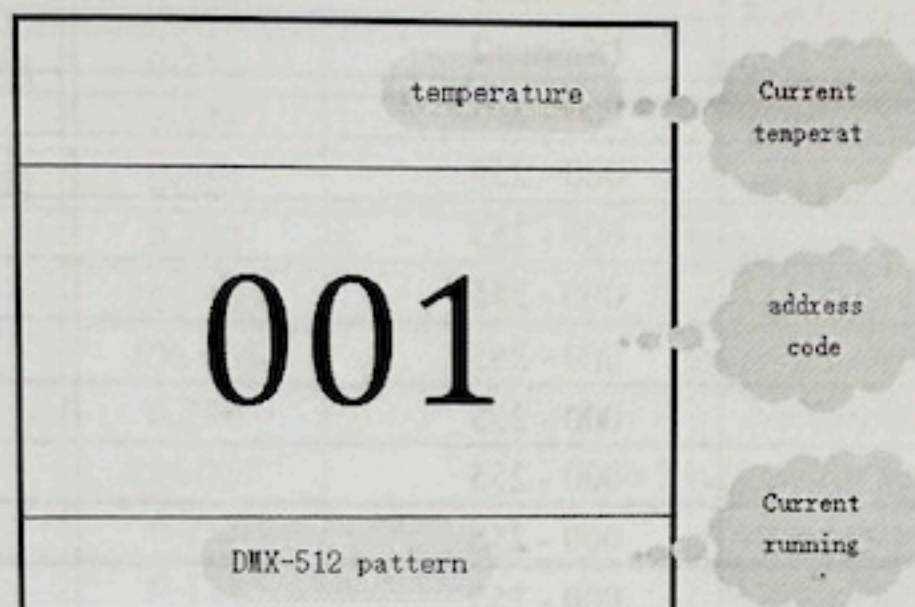
Tilt: 270°+16 bit fine

Display: LCD colorful display

IP: IP20

Control Menu

temperature ··· Current temperat

001

address code

DMX-512 pattern

Current running

Menu Operation

Address: Click to enter the address code setting

Settings: Click to enter system settings

Test: Click to enter manual mode

Calibration: Click to enter the password to enter the system calibration mode Reset:

Click to enter the system reset mode

Information: Click to enter to view system information

menu	Sublevel menu	Three menu / parameters	Fourth
address	001 - 512		
Fixture	Dmx Mode	STD / HSI	
	Pixel Mode	Trun off/RGB/RGBW	
	Run Mode	DMX / Host / Sound	
	Pan Invert	Close / Open	
	Tilt Invert	Close / Open	
	Fan Control	Auto/Client	
Manual	Pan	000-255	
	Pan Fine	000-255	
	Tilt	000-255	
	Tilt Fine	000-255	
	⋮	⋮	
Information	Time	Current Time	xxxH
		Current Time	xxxH
	Sensor	Pan	FALSE / TURE
		Tilt	FALSE / TURE
		Zoom	FALSE / TURE
		Temp	FALSE / TURE
		Fan	FALSE / TURE
	Temperature	Head Temp	xxxC

Information	Software Version	Panel	Vx.xx
		Motor	Vx.xx
		Dimmer1	Vx.xx
		Dimmer2	Vx.xx
Factory	Password	000 - 255	
	Pan	000 - 255	
	Tilt	000 - 255	
	Zoom	000 - 255	
	Zoom Rotation	000 - 255	
	Red	000 - 255	
	Green	000 - 255	
	Blue	000 - 255	
	White	000 - 255	
Fixture Reset	Motor Reset	Cance / Run	
	Factory	Cance / Run	
Display	Language	CH / EN	
	Display Flip	Normal / Reverse	
	Display Mode	60s / Show	

DMX Channels

21 channel

ch	function	DMX value	detailed information
1	red	0-255	Red 0-100% brightness adjustment, from dark to bright.
2	Red fine tuning	0-255	Red fine tuning
3	green	0-255	Green 0-100% brightness adjustment, from dark to bright.
4	Green fine tuning	0-255	Green fine tuning
5	blue	0-255	Blue 0-100% brightness adjustment, from dark to bright.
6	Blue fine tuning	0-255	Blue fine tuning
7	white	0-255	White 0-100% brightness adjustment, from dark to bright.
8	White fine tuning	0-255	White fine tuning
9	colour temperature	0-255	Linear control of color temperature
10	Macro color	0-255	Macro change of color
11	stroboscopic	0-3	Lights go out
		4-103	Use the same steps from slow to fast
		104-107	Light up
		108-207	from slow to fast
		208-212	Light up
		213-225	Low speed random strobe
		226-238	Medium speed random strobe
		239-251	High speed random strobe
		252-255	Light up

12	light modulator	0-255	0-100 Linear brightness adjustment
13	Fine adjustment of dimmer	0-255	Fine adjustment of dimmer
14	X axis control	0-255	X axis control
15	X-axis fine tuning	0-255	X-axis fine tuning
16	Y axis control	0-255	Y axis control
17	Y axis fine tuning	0-255	Y axis fine tuning
18	function	0-102	Empty (no function)
		103-105	Turn on the pixel function
		106-255	Empty (no function)
19	reset	0-250	No function
		251-255	Wait 5 seconds for automatic reset.
20	focus	0-255	Focusing control
21	rotate	0-127	0 to 60 degrees
		128-191	Linear Fast to Slow Rotation
		192-255	Linear Slow to Fast Rotation

22 channel

ch	function	DMX value	detailed information
1	red	0-255	Red 0-100% brightness adjustment, from dark to bright.
2	Red fine tuning	0-255	Red fine tuning
3	green	0-255	Green 0-100% brightness adjustment, from dark to bright.
4	Green fine tuning	0-255	Green fine tuning
5	blue	0-255	Blue 0-100% brightness adjustment, from dark to bright.
6	Blue fine tuning	0-255	Blue fine tuning
7	white	0-255	White 0-100% brightness adjustment, from dark to bright.
8	White fine tuning	0-255	White fine tuning
9	colour temperature	0-255	Linear control of color temperature
10	Macro color	0-255	Macro change of color
11	stroboscopic	0-3	Lights go out
		4-103	Use the same steps from slow to fast.
		104-107	Light up
		108-207	Strongpoint from slow to fast.
		208-212	Light up
		213-225	Low speed random strobe
		226-238	Medium speed random strobe
		239-251	High speed random strobe
		252-255	Light up
12	light modulator	0-255	0-100 Linear brightness adjustment
13	Fine adjustment of dimmer	0-255	Fine adjustment of dimmer
14	X axis control	0-255	X axis control
15	X-axis fine tuning	0-255	X-axis fine tuning

16	Y axis control	0-255	Y axis control
17	Y axis fine tuning	0-255	Y axis fine tuning
18	function	0-102	Empty (no function)
		103-105	Turn on the pixel function
		106-255	Empty (no function)
19	reset	0-250	No function
		251-255	Wait 5 seconds for automatic reset.
20	focus	0-255	Focusing control
21	rotate	0-127	0 to 60 degrees
		128-191	Linear Fast to Slow Rotation
		192-255	Linear Slow to Fast Rotation
22	frequency	0-255	adjusting of frequency

35 channel

ch	function	DMX value	detailed information
1	red	0-255	Red 0-100% brightness adjustment, from dark to bright.
2	Red fine tuning	0-255	Red fine tuning
3	green	0-255	Green 0-100% brightness adjustment, from dark to bright.
4	Green fine tuning	0-255	Green fine tuning
5	blue	0-255	Blue 0-100% brightness adjustment, from dark to bright.
6	Blue fine tuning	0-255	Blue fine tuning
7	white	0-255	White 0-100% brightness adjustment, from dark to bright.
8	White fine tuning	0-255	White fine tuning
9	colour temperature	0-255	Linear control of color temperature
10	Macro color	0-255	Macro change of color
11	stroboscopic	0-3	Lights go out
		4-103	Use the same steps from slow to fast.
		104-107	Light up
		108-207	Strongpoint from slow to fast.
		208-212	Light up
		213-225	Low speed random strobe
		226-238	Medium speed random strobe
		239-251	High speed random strobe
		252-255	Light up
12	light modulator	0-255	0-100 Linear brightness adjustment
13	Fine adjustment of dimmer	0-255	Fine adjustment of dimmer
14	X axis control	0-255	X axis control
15	X-axis fine tuning	0-255	X-axis fine tuning
16	Y axis control	0-255	Y axis control
17	Y axis fine tuning	0-255	Y axis fine tuning
18	function	0-102	Empty (no function)
		103-105	Turn on the pixel function

		106-255	Empty (no function)
19	reset	0-250	No function
		251-255	Wait 5 seconds for automatic reset.
20	focus	0-255	Focusing control
21	rotate	0-127	0 to 60 degrees
		128-191	Linear Fast to Slow Rotation
		192-255	Linear Slow to Fast Rotation
22	Shape selection	0-255	Shape selection
23	Shape speed	0-255	Shape speed
24	Shape fade	0-255	Smooth,fading curve gamma
25	Shape r	0-255	Linear from no light to max brightness
26	Shape g	0-255	Linear from no light to max brightness
27	Shape b	0-255	Linear from no light to max brightness
28	Shape w	0-255	Linear from no light to max brightness
29	Shape brightness adjustment	0-255	Shape dimmer 0-100%
30	Background brightness adjustment	0-255	Background dimmer 0-100%
31	Shape transition	0-255	Shape transition
32	Shape deviation	0-255	Shape deviation
33	Foreground strobe	0-255	Foreground strobe control
34	Background strobe	0-255	Background strobe control
35	Background select	000-007	wash
		008-255	Background selection

36 channel

ch	function	DMX value	detailed information
1	red	0-255	Red 0-100% brightness adjustment, from dark to bright.
2	Red fine tuning	0-255	Red fine tuning
3	green	0-255	Green 0-100% brightness adjustment, from dark to bright.
4	Green fine tuning	0-255	Green fine tuning
5	blue	0-255	Blue 0-100% brightness adjustment, from dark to bright.
6	Blue fine tuning	0-255	Blue fine tuning
7	white	0-255	White 0-100% brightness adjustment, from dark to bright.
8	White fine tuning	0-255	White fine tuning
9	colour temperature	0-255	Linear control of color temperature
10	Macro color	0-255	Macro change of color
11		0-3	Lights go out

		4-103	Use the same steps from slow to fast.
	stroboscopic	104-107	Light up
		108-207	Strongpoint from slow to fast.
		208-212	Light up
		213-225	Low speed random strobe
		226-238	Medium speed random strobe
		239-251	High speed random strobe
		252-255	Light up
12	light modulator	0-255	0-100 Linear brightness adjustment
13	Fine adjustment of dimmer	0-255	Fine adjustment of dimmer
14	X axis control	0-255	X axis control
15	X-axis fine tuning	0-255	X-axis fine tuning
16	Y axis control	0-255	Y axis control
17	Y axis fine tuning	0-255	Y axis fine tuning
18	function	0-102	Empty (no function)
		103-105	Turn on the pixel function
		106-255	Empty (no function)
19	reset	0-250	No function
		251-255	Wait 5 seconds for automatic reset.
20	focus	0-255	Focusing control
21	rotate	0-127	0 to 60 degrees
		128-191	Linear Fast to Slow Rotation
		192-255	Linear Slow to Fast Rotation
22	Shape selection	0-255	Shape selection
23	Shape speed	0-255	Shape speed
24	Shape fade	0-255	Smooth,fading curve gamma
25	Shape r	0-255	Linear from no light to max brightness
26	Shape g	0-255	Linear from no light to max brightness
27	Shape b	0-255	Linear from no light to max brightness
28	Shape w	0-255	Linear from no light to max brightness
29	Shape brightness adjustment	0-255	Shape dimmer 0-100%
30	Background brightness adjustment	0-255	Background dimmer 0-100%
31	Shape transition	0-255	Shape transition
32	Shape deviation	0-255	Shape deviation
33	Foreground strobe	0-255	Foreground strobe control
34	Background strobe	0-255	Background strobe control
35	Background select	000-007	wash
		008-255	Background selection

36	Frequency	0-255	adjusting of frequency

57 channel

DMX	Function	Bit Value	Function Detailed Description
1	Red 1	0-255	0-100% brightness adjustment, from dark to bright.
2	Green 1	0-255	0-100% brightness adjustment, from dark to bright.
3	Blue 1	0-255	0-100% brightness adjustment, from dark to bright.
4	Red 2	0-255	0-100% brightness adjustment, from dark to bright.
5	Green 2	0-255	0-100% brightness adjustment, from dark to bright.
6	Blue 2	0-255	0-100% brightness adjustment, from dark to bright.
7	Red 3	0-255	0-100% brightness adjustment, from dark to bright.
8	Green 3	0-255	0-100% brightness adjustment, from dark to bright.
9	Blue 3	0-255	0-100% brightness adjustment, from dark to bright.
⋮	⋮	⋮	⋮
⋮	⋮	⋮	
⋮	⋮	⋮	⋮
49	Red 17	0-255	0-100% brightness adjustment, from dark to bright.
50	Green 17	0-255	0-100% brightness adjustment, from dark to bright.
51	Blue 17	0-255	0-100% brightness adjustment, from dark to bright.
52	Red 18	0-255	0-100% brightness adjustment, from dark to bright.
53	Green 18	0-255	0-100% brightness adjustment, from dark to bright.
54	Blue 18	0-255	0-100% brightness adjustment, from dark to bright.
55	Red 19	0-255	0-100% brightness adjustment, from dark to bright.
56	Green 19	0-255	0-100% brightness adjustment, from dark to bright.
57	Blue 19	0-255	0-100% brightness adjustment, from dark to bright.

76 channel

DMX	Function	Bit Value	Function Detailed Description
1	Red 1	0-255	0-100% brightness adjustment, from dark to bright.
2	Green 1	0-255	0-100% brightness adjustment, from dark to bright.
3	Blue 1	0-255	0-100% brightness adjustment, from dark to bright.
4	White 1	0-255	0-100% brightness adjustment, from dark to bright.
5	Red 2	0-255	0-100% brightness adjustment, from dark to bright.
6	Green 2	0-255	0-100% brightness adjustment, from dark to bright.
7	Blue 2	0-255	0-100% brightness adjustment, from dark to bright.
8	White 2	0-255	0-100% brightness adjustment, from dark to bright.
9	Red 3	0-255	0-100% brightness adjustment, from dark to bright.

10	Green 3	0-255	0-100% brightness adjustment, from dark to bright.
11	Blue 3	0-255	0-100% brightness adjustment, from dark to bright.
12	White 3	0-255	0-100% brightness adjustment, from dark to bright.
⋮	⋮	⋮	⋮
⋮	⋮	⋮	⋮
⋮	⋮	⋮	⋮
⋮	⋮	⋮	⋮
65	Red 17	0-255	0-100% brightness adjustment, from dark to bright.
66	Green 17	0-255	0-100% brightness adjustment, from dark to bright.
67	Blue 17	0-255	0-100% brightness adjustment, from dark to bright.
68	White 17	0-255	0-100% brightness adjustment, from dark to bright.
69	Red 18	0-255	0-100% brightness adjustment, from dark to bright.
70	Green 18	0-255	0-100% brightness adjustment, from dark to bright.
71	Blue 18	0-255	0-100% brightness adjustment, from dark to bright.
72	White 18	0-255	0-100% brightness adjustment, from dark to bright.
73	Red 19	0-255	0-100% brightness adjustment, from dark to bright.
74	Green 19	0-255	0-100% brightness adjustment, from dark to bright.
75	Blue 19	0-255	0-100% brightness adjustment, from dark to bright.
76	White 19	0-255	0-100% brightness adjustment, from dark to bright.

Trouble Shooting

Following are a few common problems that may occur during operation. Here are some suggestions for easy troubleshooting:

A. The unit does not work, no light and the fan does not work
1. Check the connection of power and main fuse.
2. Measure the mains voltage on the main connector.
3. Check the power on LED.

B. Not responding to DMX controller
1. DMX LED should be on. If not, check DMX connectors, cables to see if link properly.
2. If the DMX LED is on and no response to the channel, check the address settings and DMX polarity.
3. If you have intermittent DMX signal problems, check the pins on connectors or on PCB of the unit or the previous one.
4. Try to use another DMX controller.
5. Check if the DMX cables run near or run alongside to high voltage cables that may cause damage or interference to DMX interface circuit.

C. One of the channels is not working well
1. The stepper motor might be damaged or the cable connected to the PCB is broken.
2. The motor's drive IC on the PCB might be out of condition

7.Fixture Cleaning

The cleaning of internal and external optical lenses and/ or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp , smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics.

Clean with soft cloth using normal glass cleaning fluid. Always dry the parts carefully.

Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.