1940BW2 Pro

IP65 19x40W Bee Eye Zoom

CONTENTS

Thank you for choosing our LED lights. Each facility has been rigorously tested. Please check whether the facility has been damaged during transportation. If you find any parts are missing or broken, please contact the manufacturer immediately. Please do not return the product without any notice!

1.Safety Instructions

⚠️ Please read this manual carefully, which includes important information on installation,use and maintenance.

Attention

● Please keep this USER MANUAL for future consultation. If you sell the facility to another user, be sure that they also receive this USER MANUAL.

● Please open and check in details and make sure there is no transportation damage.

● Before operating, ensure that the voltage and frequency of power supply match the power requirements of the facility.

● It's important to ground the yellow/green conductor to earth in order to avoid electric shock.

● The facility must be installed in a location with adequate ventilation, at least 50 cm from adjacent surfaces. Be sure that no ventilation slots are blocked.

● Make sure the power is disconnected before removing the facility.

● Make sure there are no flammable materials close to the unit while operating as it is fire hazard.

● Use safety cable when fixes this facility. Do not handle the facility by taking its head only, but always by taking its base.

● Maximum ambient temperature is 40 ℃. Do not operate it where the temperature is higher than this.

● Please stop using the facility for serious operating problems. Stop using the facility immediately. Never try to repair the facility by yourself, but be a professional technician. Please contact the supplier's service department

for technical support.

- Do not touch any wire during operation as high voltage might be causing electric shock.
- When the housing or lens is damaged, it must be replaced.
- Direct sunlight or any other strong light source penetrating the lens of the light will cause serious internal damage to the facility. During unpacking, installation, use and long-term outdoor idleness, it is forbidden to expose the lens of the facility to direct sunlight or any other strong light source at any angle. It is forbidden to aim the beam of one light directly at another light.
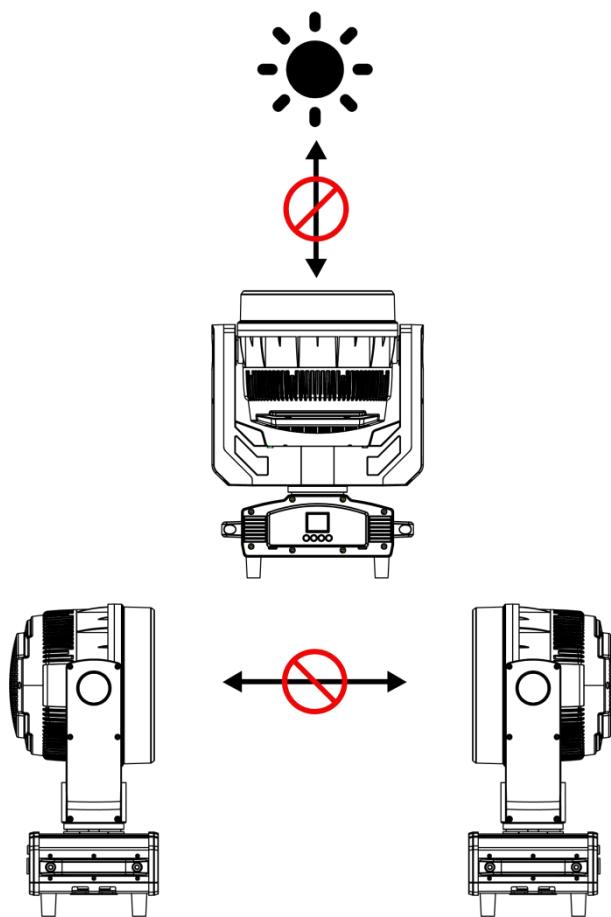
Caution

There are no accessories available, do not open the housing and try to repair the facilities yourself. Please contact our company for after service.

Installation

The unit should be mounted via its screw holes on the bracket. Always ensure that the unit is firmly 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 support 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 facility must be installed by professionals, and keep it far away from fire, walking road, and easy touched place.

2. Technical Specification

Light Source	19 x 40W 4in1 RGBWW LED, Ra≥93；
LED Lifetime	≥ 50000H
Power Voltage	AC100-240V ，50-60Hz
Power Consumption	640W
Beam Angle	3.5°~50°
Control Modes	DMX512/ Auto/ Sound/ Master/ Manual/ RDM
DMX Channel	21/ 23/ 35/ 78/ 92/ 97/ 99 Channel
Protection Rating	IP65
Display	1.8°TFT Color Display,Can be rotated 180°,Chinese and English can be switched
Data In/Out Socket	IP65 3-pin & 5-pin XLR sockets
Power Socket	IP65 Power-Con in/ out
Housing Material	Aluminium
Pan	540° (16bit accurate scanning)

Tilt	270° (16bit accurate scanning)
Pan/Tilt Resolution	Automatically correct pan/tilt position
MAX. Connection	4 units（240V，50Hz）2.5mm²　power cable
	2 units（100V，60Hz）2.5mm²　power cable
Dimension	356*393*534mm
Net Weight	20.5kg
Carton Package	530*410*625mm　　　1in1　GW: 24.5 kg
Flight Case	810*500*720mm　　　2in1　GW: 74.5kg
Features	Full light range dimming, 65536-level dimming accuracy. fast strobe 1-25Hz.LED single control; three-in-one effects of WASH, Beam, and Bee Eye; Preset multiple color macro functions; preset multiple effect macro functions
Configuration	Signal cable　1pc
	Power cable　1pc
	Manual　　　1pc

3. DMX Set Up
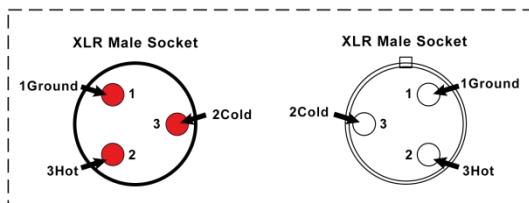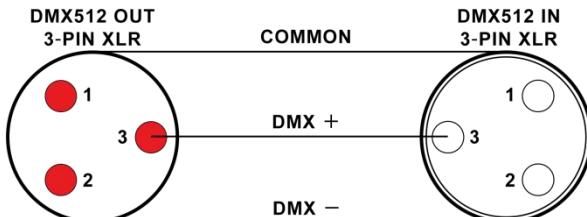
Pin1: Ground　　　　　pin2: Negative　　　　pin3: Positive

DMX Connection

To ensure optimal transmission of DMX data, please connect facilities in the shortest way. The connection order won't affect the DMX address code. For example, if the address code is set to 1, no matter where the facility is connected, its address code will not change. This is determined by the principle of the DMX controller.

Operation method

You can operate in the following three modes:
● Auto mode - the light can automatically complete all color changes
● DMX control mode - each light can be individually controlled by a standard DMX512 console
● Master mode - any light can work as a host in any of the above modes, and the other lights will work synchronously as slaves

4. Display

There are four buttons on the LED panel: MENU, UP, DOWN, and ENTER.

MENU   UP   DOWN   ENTER

Please press the "MENU" to exit or return to the previous menu, press "UP" or "DOWN" to select the upper and lower menus or adjust the values, and press "ENTER" to confirm.
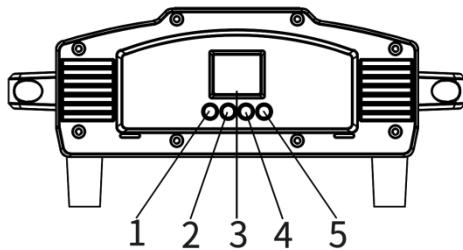
FRONT VIEW   **REAR VIEW**
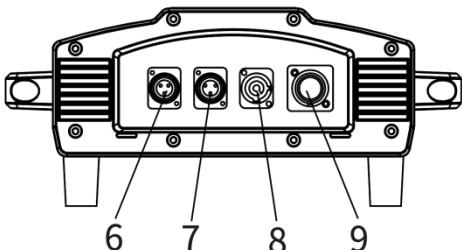
After powering on, the facility will automatically return to the last operation when it was powered off, then get into standby status. For more details, please refer to the information below↓

5. Menu

1-MENU 2-UP 3-DOWN 4-ENTER			
Menu	1.Pan Degree	1.540 2.360	Pan running angle selection
	2.Mic Sense	001-100	Sound sensitivity
	3.Language	1.English	Select Display Language
		2.Chinese	
	4.No Signal	1.BlackOut 2.Hold	
	5.Fan Set	1.Auto 2.Low 3.High	Setting fan speed
	6.Reset	1.Yes	Reset
		2.No	
	7.Default	1.Yes	Factory setting
		2.No	
	8.Adjust	Pass Word: ****	Change the value of Pan/Tilt/Focus/Rota to

		1.Pan: 0-255	correct the angle; change the value of R/G/B/W to adjust the white balance.
		2.Tilt: 0-255	
		3.Focus: 0-255	
		4.Rota: 0-255	
		4.Red: 0-255	
		5.Green: 0-255	
		6.Blue: 0-255	
		7.White: 0-255	
Address		001-512	Setting the address from 001-512
Rever	1.Pan	1.YES 2.NO	Pan/Tilt/Display Font Forward and Reverse Switching
	2.Tilt	1.YES 2.NO	
	3.Display	1.YES 2.NO	
Information		1.CH Value	Shown all channel information
		2.Tem**℃	Show the temperature of LED board
		3.Soft V1.1	Program version number
Mode	1.DMX512		Setting control mode
	2.Auto	1.Master	
		2.Alone	
	3.Sound	1.Master	
		2.Alone	
	4.Manual	1.Master	1.Pan: 0-255	Manual control
			2.Tilt: 0-255	
			3.Focus: 0-255	

			4.Rota:0-255	
			5.Red: 0-255	
		2.Alone	6.Green: 0-255	
			7.Blue: 0-255	
			8.White：0-255	
			9.Strobe: 0-255	
Channel	21 CH	21 Channels		Select channel mode
	23 CH	23 Channels		
	35 CH	35 Channels		
	78 CH	78 Channels		
	92 CH	92 Channels		
	97 CH	97 Channels		
	99 CH	99 Channels		

6. LUX Data

Beam Angle =3.5°

R lux	164250	18250	6570	1642
G lux	327500	36388	13100	3275
B lux	62000	6888	2480	620
W lux	470000	52222	18800	4700
4in1 lux	902500	100277	36100	9025

Beam Angle =50°

R lux	6025	669	241	60.2
G lux	13150	1461	526	131
B lux	2650	294	106	26.5
W lux	18800	2088	752	188
4in1 lux	35750	3972	1430	357
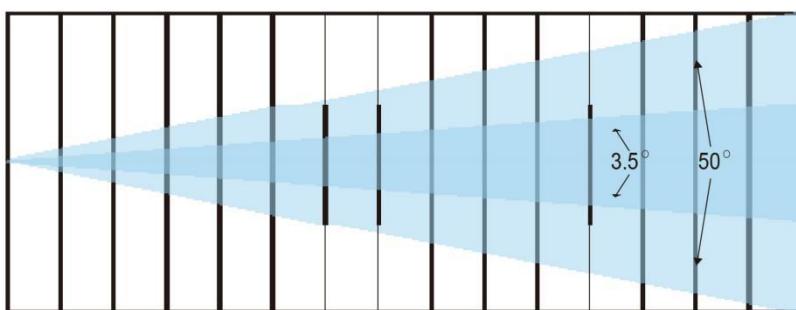
Distance (m)	1	3	5	10
Spot diameter (m) 3.5°	0.19	0.57	0.95	1.90
Spot diameter (m) 50°	0.90	2.70	4.50	9.00

7. DMX Channel List

▶21CH Mode

CH	Function	DMX Value	Description
1	Red	0-255	Red dimming
2	Red adjustment	0-255	Red adjustment
3	Green	0-255	Green dimming
4	Green adjustment	0-255	Green adjustment
5	Blue	0-255	Blue dimming
6	Blue adjustment	0-255	Blue dimming
7	White	0-255	White dimming
8	White adjustment	0-255	White adjustment
9	Color temperature	0-15	No function
		16-35	R100%, G UP, B0%
		36-55	R DOWN, G100%, B0%
		56-75	R0%, G100%, B UP
		76-95	R0%, G DOWN, B100%
		96-115	R UP, G0%, B100%
		116-135	R100%, G0%, B DOWN
		136-155	R100%, G UP, B UP
		156-175	R DOWN, G DOWN, B 100%
		176-195	R100%, G100%, B100%, W100%
		196-200	2800K

CH	Function	DMX Value	Description
		201-205	3200K
		206-210	3500K
		211-215	4000K
		216-220	4500K
		221-225	5000K
		226-230	5500K
		231-235	6000K
		236-240	6500K
		241-245	7000K
		246-250	7500K
		251-255	8000K
10	Macro color	0-9	No function
		10-19	Macro color 1
		20-29	Macro color 2
		....	.... (10 numbers 1 macro color)
		240-249	Macro color 24
		250-255	Macro color 25
11	Strobe	0-3	Strobe dimming
		4-203	Synchronous strobe speed from slow to fast (1Hz-25Hz)
		204-255	Random strobe
12	Dimmer	0-255	From dark to bright
13	Dimmer adjust	0-255	Dimmer adjustment control

CH	Function	DMX Value	Description
14	Pan	0-255	Pan control
15	Pan adjustment	0-255	Pan adjustment control
16	Tilt	0-255	Tilt control
17	Tilt adjustment	0-255	Tilt adjustment control
18	Dimming Mode	0-49	Mode -1
		50-99	Mode -2
		100-149	Mode -3
		150-255	Mode -4
19	Reset	0-250	No function
		251-255	Reset within 5s
20	Zoom	0-255	From narrow to wide
21	Lens rotation	0-155	0~60°
		156-205	Clockwise infinite rotation
		206-255	Counterclockwise infinite rotation

▶23CH Mode

CH	Function	DMX Value	Description
1	Pan	0 - 255	0-540°
2	Pan adjustment	0 - 255	16bit adjustment
3	Tilt	0 - 255	0-205°
4	Tilt adjustment	0 - 255	16bit adjustment
5	Pan/Tilt speed	0 - 255	Speed from fast to slow
6	Zoom	0 - 255	From narrow to wide

CH	Function	DMX Value	Description
7	Lens rotation	0-155	0~60°
		156-205	Clockwise infinite rotation from fast to slow
		206-255	Counterclockwise infinite rotation from slow to fast
8	Dimmer	0 - 255	From dark to bright
9	Strobe	0-3	Strobe dimming
		4-203	Synchronous strobe speed from slow to fast (1Hz-25Hz)
		204-255	Random strobe
10	R dimming	0-255	From dark to bright
11	G dimming	0-255	From dark to bright
12	B dimming	0-255	From dark to bright
13	W dimming	0-255	From dark to bright
14	Color temperature	0 -15	No function
		16-35	R100%, G UP, B0%
		36-55	R DOWN, G100%, B0%
		56-75	R0%, G100%, B UP
		76-95	R0%, G DOWN, B100%
		96-115	R UP, G0%, B100%
		116-135	R100%, G0%, BDOWN
		136-155	R100%, G UP, B UP
		156-175	R DOWN, G DOWN, B100%
		176-195	R100%, G100%, B100%, W100%
		196-200	2800K

CH	Function	DMX Value	Description
		201-205	3200K
		206-210	3500K
		211-215	4000K
		216-220	4500K
		221-225	5000K
		226-230	5500K
		231-235	6000K
		236-240	6500K
		241-245	7000K
		246-250	7500K
		251-255	8000K
15	Macro color	0-9	No function
		10-19	Macro color 1
		20-29	Macro color 2
		....	....(10 numbers 1 macro color)
		240-249	Macro color 24
		250-255	Macro color 25
16	Static pattern	0-9	No function
		10-12	Monochrome pattern 1
		13-15	Monochrome pattern 2
		.....	.........(3 numbers 1 pattern)
		208-210	Monochrome pattern 67

CH	Function	DMX Value	Description
		211-213	Mixed color pattern 1
		214-216	Mixed color pattern 2
		....	....(3 numbers 1 pattern)
		250-252	Mixed color pattern 14
		253-255	Mixed color pattern 15
17	Dynamic pattern	0-9	No function
		10-14	Monochrome dynamic pattern 1
		15-19	Monochrome dynamic pattern 2
		.....	......(5 numbers 1 pattern)
		155-159	Monochrome pattern 30
		160-164	Mixed color dynamic pattern 1
		165-169	Mixed color dynamic pattern 2
		....	........(5 numbers 1 pattern)
		220-224	Mixed color dynamic pattern 13
		225-255	Mixed color dynamic pattern 14
18	Dynamic pattern speed (with 17CH)	0-127	Clockwise ,from fast to slow
		128-255	Counterclockwise, from slow to fast
19	Background R	0-255	From dark to bright
20	Background G	0-255	From dark to bright
21	Background B	0-255	From dark to bright
22	Background W	0-255	From dark to bright
23	Reset	0-250	No function

CH	Function	DMX Value	Description
		251-255	Reset within 5s

▶35CH Mode

CH	Function	DMX Value	Description
1	Red	0-255	Red dimming
2	Red adjustment	0-255	Red adjustment
3	Green	0-255	Green dimming
4	Green adjustment	0-255	Green adjustment
5	Blue	0-255	Blue dimming
6	Blue adjustment	0-255	Blue dimming
7	White	0-255	White dimming
8	White adjustment	0-255	White adjustment
9	Color temperature	0-15	No function
		16-35	R100%, G UP, B0%
		36-55	R DOWN, G100%, B0%
		56-75	R0%, G100%, B UP
		76-95	R0%, G DOWN, B100%
		96-115	R UP, G0%, B100%
		116-135	R100%, G0%, B DOWN
		136-155	R100%, G UP, B UP
		156-175	R DOWN, G DOWN, B 100%
		176-195	R100%, G100%, B100%, W100%

CH	Function	DMX Value	Description
		196-200	2800K
		201-205	3200K
		206-210	3500K
		211-215	4000K
		216-220	4500K
		221-225	5000K
		226-230	5500K
		231-235	6000K
		236-240	6500K
		241-245	7000K
		246-250	7500K
		251-255	8000K
10	Macro color	0-9	No function
		10-19	Macro color 1
		20-29	Macro color 2
		....	....(10 numbers 1 macro color)
		240-249	Macro color 24
		250-255	Macro color 25
11	Strobe	0-3	Strobe dimming
		4-203	Synchronous strobe speed from slow to fast (1Hz-25Hz)
		204-255	Random strobe
12	Dimmer	0-255	From dark to bright

CH	Function	DMX Value	Description
13	Dimmer adjust	0-255	Dimmer adjustment control
14	Pan	0-255	Pan control
15	Pan adjustment	0-255	Pan adjustment control
16	Tilt	0-255	Tilt control
17	Tilt adjustment	0-255	Tilt adjustment control
18	Dimming Mode	0-49	Mode -1
		50-99	Mode -2
		100-149	Mode -3
		150-255	Mode -4
19	Reset	0-250	No function
		251-255	Reset within 5s
20	Zoom	0-255	From narrow to wide
21	Lens rotation	0-155	0~60°
		156-205	Clockwise infinite rotation
		206-255	Counterclockwise infinite rotation
22	Pattern rotation	0-9	No function
		10-14	Monochrome dynamic pattern 1
		15-19	Monochrome dynamic pattern 2
		.....	......(5 numbers 1 pattern)
		155-159	Monochrome pattern 30
		160-164	Mixed color dynamic pattern 1
		165-169	Mixed color dynamic pattern 2

CH	Function	DMX Value	Description
		....	........(5 numbers 1 pattern)
		220-224	Mixed color dynamic pattern 13
		225-255	Mixed color dynamic pattern 14
23	Pattern effect speed (with 22CH）	0-9	No function
		10-132	Clockwise ,from fast to slow
		133-255	Counterclockwise, from slow to fast
24	Pattern fade	0-255	Pattern effect fade
25	Pattern Background R	0-255	Pattern effect R
26	Pattern Background G	0-255	Pattern effect G
27	Pattern Background B	0-255	Pattern effect B
28	Pattern Background W	0-255	Pattern effect W
29	Pattern dimming	0-255	Pattern 0-100% dimming
30	Background dimming	0-255	Background 0-100% dimming
31	Pattern change	0-255	Pattern change control
32	Pattern movement	0-255	Pattern movement(with 22CH)
33	Prospects strobe	0-255	Prospects strobe
34	Background strobe	0-255	Background strobe
35	Background pattern selection	0-255	Background selection

►78CH Mode

CH	Function	DMX Value	Description
1	Red	0-255	Red dimming
2	Red adjustment	0-255	Red adjustment
3	Green	0-255	Green dimming
4	Green adjustment	0-255	Green adjustment
5	Blue	0-255	Blue dimming
6	Blue adjustment	0-255	Blue dimming
7	White	0-255	White dimming
8	White adjustment	0-255	White adjustment
9	Color temperature	0-15	No function
		16-35	R100%,G UP,B0%
		36-55	R DOWN,G100%,B0%
		56-75	R0%,G100%,B UP
		76-95	R0%,G DOWN,B100%
		96-115	R UP,G0%,B100%
		116-135	R100%,G0%,B DOWN
		136-155	R100%,G UP,B UP
		156-175	R DOWN,G DOWN, B 100%
		176-195	R100%G100%B100%W100%
		196-200	2800K
		201-205	3200K
		206-210	3500K

CH	Function	DMX Value	Description
		211-215	4000K
		216-220	4500K
		221-225	5000K
		226-230	5500K
		231-235	6000K
		236-240	6500K
		241-245	7000K
		246-250	7500K
		251-255	8000K
10	Macro color	0-9	No function
		10-19	Macro color 1
		20-29	Macro color 2
		....	....(10 numbers 1 macro color)
		240-249	Macro color 24
		250-255	Macro color 25
11	Strobe	0-3	Strobe dimming
		4-203	Synchronous strobe speed from slow to fast (1Hz-25Hz)
		204-255	Random strobe
12	Dimmer	0 - 255	From dark to bright
13	Dimmer adjust	0 - 255	Dimmer adjustment control
14	Pan	0 - 255	Pan control
15	Pan adjustment	0 - 255	Pan adjustment control

CH	Function	DMX Value	Description
16	Tilt	0 - 255	Tilt control
17	Tilt adjustment	0 - 255	Tilt adjustment control
18	Dimming Mode	0 - 49	Mode -1
		50 - 99	Mode -2
		100-149	Mode -3
		150-255	Mode -4
19	Reset	0-250	No function
		251-255	Reset within 5s
20	Zoom	0-255	From narrow to wide
21	Lens rotation	0-155	0~60°
		156-205	Clockwise infinite rotation
		206-255	Counterclockwise infinite rotation
22	R1 LED dimming	0-255	R1 LED dimming
23	G1 LED dimming	0-255	G1 LED dimming
24	B1 LED dimming	0-255	B1 LED dimming
25	R2 LED dimming	0-255	R2 LED dimming
26	G2 LED dimming	0-255	G2 LED dimming
27	B2 LED dimming	0-255	B2 LED dimming
......	....	....	....
76	R19 LED dimming	0-255	R19 LED dimming
77	G19 LED dimming	0-255	G19 LED dimming
78	B19 LED dimming	0-255	B19 LED dimming

▶92CH Mode

CH	Function	DMX Value	Description
1	Red	0-255	Red dimming
2	Red adjustment	0-255	Red adjustment
3	Green	0-255	Green dimming
4	Green adjustment	0-255	Green adjustment
5	Blue	0-255	Blue dimming
6	Blue adjustment	0-255	Blue dimming
7	White	0-255	White dimming
8	White adjustment	0-255	White adjustment
9	Color temperature	0-15	No function
		16-35	R100%,G UP,B0%
		36-55	R DOWN,G100%,B0%
		56-75	R0%,G100%,B UP
		76-95	R0%,G DOWN,B100%
		96-115	R UP,G0%,B100%
		116-135	R100%,G0%,B DOWN
		136-155	R100%,G UP,B UP
		156-175	R DOWN,G DOWN, B 100%
		176-195	R100%G100%B100%W100%
		196-200	2800K
		201-205	3200K
		206-210	3500K

CH	Function	DMX Value	Description
		211-215	4000K
		216-220	4500K
		221-225	5000K
		226-230	5500K
		231-235	6000K
		236-240	6500K
		241-245	7000K
		246-250	7500K
		251-255	8000K
10	Macro color	0-9	No function
		10-19	Macro color 1
		20-29	Macro color 2
		....	....(10 numbers 1 macro color)
		240-249	Macro color 24
		250-255	Macro color 25
11	Strobe	0-3	Strobe dimming
		4-203	Synchronous strobe speed from slow to fast (1Hz-25Hz)
		204-255	Random strobe
12	Dimmer	0 - 255	From dark to bright
13	Dimmer adjust	0 - 255	Dimmer adjustment control
14	Pan	0 - 255	Pan control
15	Pan adjustment	0 - 255	Pan adjustment control

CH	Function	DMX Value	Description
16	Tilt	0 - 255	Tilt control
17	Tilt adjustment	0 - 255	Tilt adjustment control
18	Dimming Mode	0 - 49	Mode -1
		50 - 99	Mode -2
		100-149	Mode -3
		150-255	Mode -4
19	Reset	0-250	No function
		251-255	Reset within 5s
20	Zoom	0-255	From narrow to wide
21	Lens rotation	0-155	0~60°
		156-205	Clockwise infinite rotation
		206-255	Counterclockwise infinite rotation
22	Pattern rotation	0-9	No function
		10-14	Monochrome dynamic pattern 1
		15-19	Monochrome dynamic pattern 2
		.....	......(5 numbers 1 pattern)
		155-159	Monochrome pattern 30
		160-164	Mixed color dynamic pattern 1
		165-169	Mixed color dynamic pattern 2
		....	........(5 numbers 1 pattern)
		220-224	Mixed color dynamic pattern 13
		225-255	Mixed color dynamic pattern 14

CH	Function	DMX Value	Description
23	Pattern effect speed（with 22CH）	0-9	No function
		10-132	Clockwise ,from fast to slow
		133-255	Counterclockwise, from slow to fast
24	Pattern effect fade	0-255	Pattern effect fade
25	Pattern Background R	0-255	Pattern effect R
26	Pattern Background G	0-255	Pattern effect G
27	Pattern Background B	0-255	Pattern effect B
28	Pattern Background W	0-255	Pattern effect W
29	Pattern dimming	0-255	Pattern 0-100% dimming
30	Background dimming	0-255	Background 0-100% dimming
31	Pattern change	0-255	Pattern change control
32	Pattern movement	0-255	Pattern movement(with 22CH)
33	Prospects strobe	0-255	Prospects strobe
34	Background strobe	0-255	Background strobe
35	Background pattern selection	0-255	Background selection
36	LED1 R dimming	0-255	LED1 R dimming
37	LED1 G dimming	0-255	LED1 G dimming
38	LED1 B dimming	0-255	LED1 B dimming
......	....	....	....
90	LED 19 R dimming	0-255	LED 19 R dimming
91	LED19 G dimming	0-255	LED19 G dimming
92	LED 19 B dimming	0-255	LED 19 B dimming

▶97CH Mode

CH	Function	DMX Value	Description
1	Red	0-255	Red dimming
2	Red adjustment	0-255	Red adjustment
3	Green	0-255	Green dimming
4	Green adjustment	0-255	Green adjustment
5	Blue	0-255	Blue dimming
6	Blue adjustment	0-255	Blue dimming
7	White	0-255	White dimming
8	White adjustment	0-255	White adjustment
9	Color temperature	0-15	No function
		16-35	R100%, G UP, B0%
		36-55	R DOWN, G100% ,B0%
		56-75	R0%, G100%, B UP
		76-95	R0%, G DOWN, B100%
		96-115	R UP, G0%, B100%
		116-135	R100%, G0%, B DOWN
		136-155	R100%, G UP, B UP
		156-175	R DOWN, G DOWN, B 100%
		176-195	R100%, G100%, B100%, W100%
		196-200	2800K
		201-205	3200K
		206-210	3500K

CH	Function	DMX Value	Description
		211-215	4000K
		216-220	4500K
		221-225	5000K
		226-230	5500K
		231-235	6000K
		236-240	6500K
		241-245	7000K
		246-250	7500K
		251-255	8000K
10	Macro color	0-9	No function
		10-19	Macro color 1
		20-29	Macro color 2
		....	....(10 numbers 1 macro color)
		240-249	Macro color 24
		250-255	Macro color 25
11	Strobe	0-3	Strobe dimming
		4-203	Synchronous strobe speed from slow to fast (1Hz-25Hz)
		204-255	Random strobe
12	Dimmer	0-255	From dark to bright
13	Dimmer adjust	0-255	Dimmer adjustment control
14	Pan	0-255	Pan control
15	Pan adjustment	0-255	Pan adjustment control

CH	Function	DMX Value	Description
16	Tilt	0-255	Tilt control
17	Tilt adjustment	0-255	Tilt adjustment control
18	Dimming Mode	0-49	Mode -1
		50-99	Mode -2
		100-149	Mode -3
		150-255	Mode -4
19	Reset	0-250	No function
		251-255	Reset within 5s
20	Zoom	0-255	From narrow to wide
21	Lens rotation	0-155	0~60°
		156-205	Clockwise infinite rotation
		206-255	Counterclockwise infinite rotation
22	R1 LED dimming	0-255	R1 LED dimming
23	G1 LED dimming	0-255	G1 LED dimming
24	B1 LED dimming	0-255	B1 LED dimming
25	W1 LED dimming	0-255	W1 LED dimming
......	....	....	....
94	R19 LED dimming	0-255	R19 LED dimming
95	G19LED dimming	0-255	G19 LED dimming
96	B19LED dimming	0-255	B19 LED dimming
97	W19LED dimming	0-255	W19 LED dimming

▶99CH Mode

CH	Function	DMX Value	Description
1	Pan	0-255	0-540°
2	Pan adjustment	0-255	16bit adjustment
3	Tilt	0-255	0-205°
4	Tilt adjustment	0-255	16bit adjustment
5	Pan&Tilt speed	0-255	Speed from fast to slow
6	Zoom	0-255	From narrow to wide
7	Lens rotation	0-155	0~60°
		156-205	Clockwise infinite rotation from fast to slow
		206-255	Counterclockwise rotation from slow to fast
8	Dimmer	0-255	From dark to bright
9	Strobe	0-3	Strobe dimming
		4-203	Synchronous strobe speed from slow to fast (1Hz-25Hz)
		204-255	Random strobe
10	R dimming	0-255	From dark to bright
11	G dimming	0-255	From dark to bright
12	B dimming	0-255	From dark to bright
13	W dimming	0-255	From dark to bright
14	Color temperature	0-15	No function
		16-35	R100%, G UP, B0%
		36-55	R DOWN, G100%, B0%
		56-75	R0%, G100%, B UP

CH	Function	DMX Value	Description
		76-95	R0%, G DOWN, B100%
		96-115	R UP, G0%, B100%
		116-135	R100%, G0%, B DOWN
		136-155	R100%, G UP, B UP
		156-175	R DOWN, G DOWN, B100%
		176-195	R100%, G100%, B100%, W100%
		196-200	2800K
		201-205	3200K
		206-210	3500K
		211-215	4000K
		216-220	4500K
		221-225	5000K
		226-230	5500K
		231-235	6000K
		236-240	6500K
		241-245	7000K
		246-250	7500K
		251-255	8000K
15	Macro color	0-9	No function
		10-19	Macro color 1
		20-29	Macro color 2
		....	....(10 numbers 1 macro color)

CH	Function	DMX Value	Description
		240-249	Macro color 24
		250-255	Macro color 25
16	Static pattern	0-9	No function
		10-12	Monochrome pattern 1
		13-15	Monochrome pattern 2
		.....	.........(3 numbers 1 pattern)
		208-210	Monochrome pattern 67
		211-213	Mixed color pattern 1
		214-216	Mixed color pattern 2
		....	....(3 numbers 1 pattern)
		250-252	Mixed color pattern 14
		253-255	Mixed color pattern 15
17	Dynamic pattern	0-9	No function
		10-14	Monochrome dynamic pattern 1
		15-19	Monochrome dynamic pattern 2
		.....	......(5 numbers 1 pattern)
		155-159	Monochrome pattern 30
		160-164	Mixed color dynamic pattern 1
		165-169	Mixed color dynamic pattern 2
		....	........(5 numbers 1 pattern)
		220-224	Mixed color dynamic pattern 13
		225-255	Mixed color dynamic pattern 14

CH	Function	DMX Value	Description
18	Dynamic pattern speed （with 17CH）	0-127	Clockwise ,from fast to slow
		128-255	Counterclockwise, from slow to fast
19	Background R	0-255	From dark to bright
20	Background G	0-255	From dark to bright
21	Background B	0-255	From dark to bright
22	Background W	0-255	From dark to bright
23	Reset	0-250	No function
		250-255	Reset within 5s
24	R1 LED dimmer	0-255	R1 LED dimming
25	G1LED dimmer	0-255	G1 LED dimming
26	B1 LED dimmer	0-255	B1 LED dimming
27	W1LED dimmer	0-255	W1 LED dimming
.....	……	……	……
96	R19 LED dimmer	0-255	R19 LED dimming
97	G19 LED dimmer	0-255	G19 LED dimming
98	B19 LED dimmer	0-255	B19 LED dimming
99	W19 LED dimmer	0-255	W19 LED dimming

8. Mounting

When installing the unit, the trussing or area of installation must be able to hold 10 times the weight without any deformation. When installing the unit must be secured with a secondary safety attachment, e.g. an appropriate safety cable. Never stand directly under the facility while mounting, uninstalling or repairing facilities.

High-altitude mounting requires for extensive experience, including working load limits calculating , installation material, and periodic safety check of installation materials and facilities. If you're lack of mentioned qualifications, do not attempt the installation yourself. These installation should be checked by a skilled person annually.
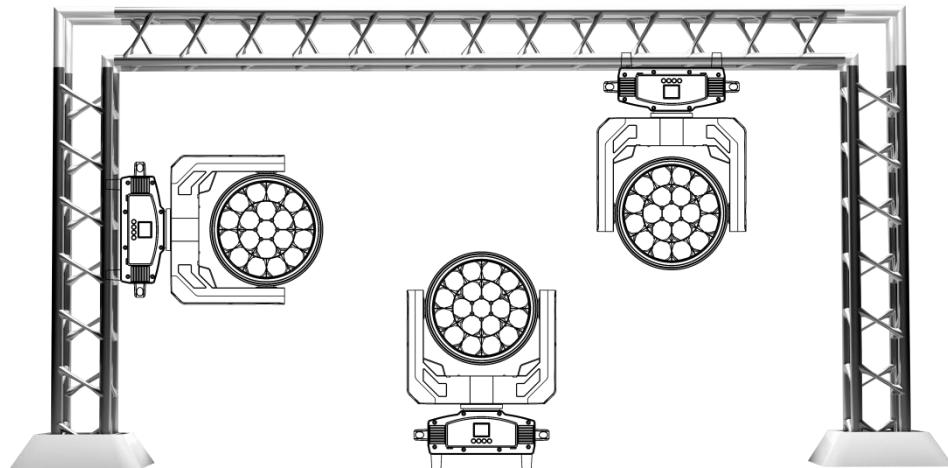
1940BW2 Pro works properly in above different mounting, hanging upside-down from a ceiling, sideways on trussing, or set on smooth horizontal surface. Be sure this facility is at least 1m (3.5ft) away from flammable materials (decoration etc.). Always use and install the safety cable to prevent

accidental damage or injury from the facility failure. Never use handles for secondary attachment.

NOTICE: The suitable environment temperature of the facility is from -10℃ to 45℃. Do not place this facility in an environment where the temperatures are under or above the temperatures stated. This will help the fixture run at its best and extend the lifetime.

9. Product Size
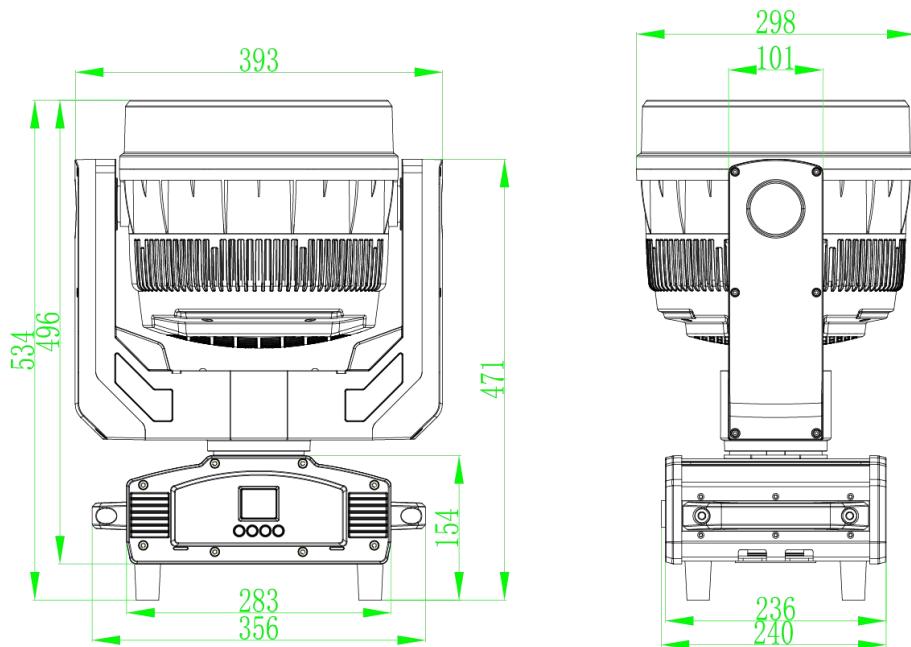
10. Attention

1. When the facility is powered on, please avoid looking directly at the facility.

2. When assembling/ replacing LED, be sure to cut off the main power of facilities before opening the cover upon the LED board.

11. 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 status of power connection and fuse.
2. Check the voltage.
3. Check the power indicator.

B. No response to DMX controller

1. If the display screen flashes, check the DMX signal connector and signal line whether the connection is correct.
2. If the display screen does not flash, but no response to channel control, check whether the address code or channel setting is correct.
3. If the DMX signal transmission is intermittent, check if the XLR and DMX cables are in good condition.
4. Try using another controller.
5. Check if the DMX cables is too close to the high-voltage wire, which may damage or interfere with the signal circuit.
6. The facility has not completed the self-check.

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.

12. Fixture Cleaning

The lens and diffuser should be clean frequently to get better light effect. Wipe frequency according to the environment. Humidity, excessive smoke, and dirty environment will make lens dusty.

● Use soft cloth and special glass cleaner.
● Wipe lens surface at least every 30 days.
● Use vacuum cleaners or air guns to clean the interior structure of the facility, at least twice a year.

⚠Warning:

To avoid the danger of lighting strikes and fire, please do not place the facility in a humid environment. Do not disassemble it without permission, otherwise, the manufacturer will not provide warranty. If the facility fails, please contact the manufacturer first.

Product Warranty Card

Product: IP65 19x40W Bee Eye Zoom

Model NO.: 1940BW2 Pro   Manufacture Date:

User: Purchase Date:

Manufacturer: Sales Store:

Address: ATTN.:

ATTN.:   Phone:

Phone:

Note: The above blank must be filled in and sealed by the end user or sales point, otherwise no warranty will be provided. (Below please check the warranty period and terms)

Warranty Period: This facility is warranted for 2 years from the date of purchase.

Warranty Terms:

1. Except for man-made damage and natural disasters

2. If the facility fails to function properly during the warranty period, please contact our after service department or our local distributor directly.

1) Fail to present a valid warranty card.

2) Omissions, alterations, and trade sales names on the warranty card.

3) Failures and damage caused by force majeure.

4) Failures and damage caused during transportation and handling.

5) Failures and damage caused by failure to follow the instructions for use.

6) Failures and damage caused by disassembly, repair, and modification of the product without the manufacturer's authorization or by non-professionals.

7) Failures caused by the use of accessories not approved by the factory or not matched by the factory.

▲ **Thank you for reading this manual. Please keep it for future reference.**