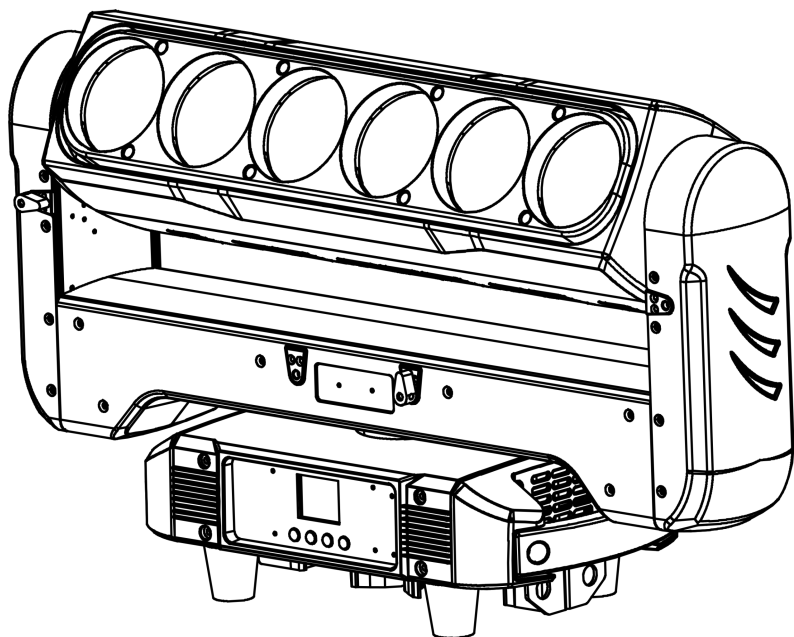


660DZ

6x60W Double Face LED Pixel Zoom & Strobe Bar Moving Head



User Manual

Please read manual carefully before use

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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



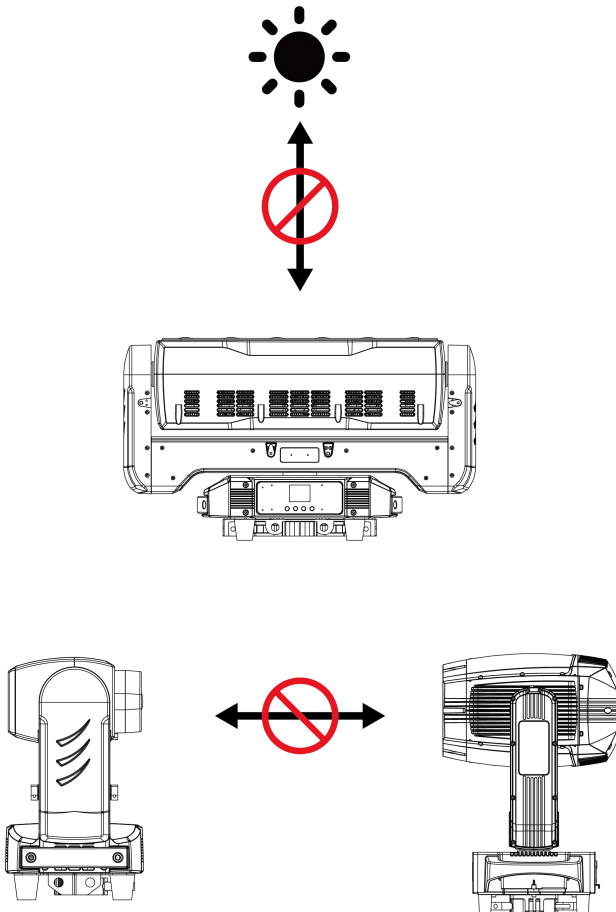
Please read this manual carefully, which includes important information on installation, use and maintenance.

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 °C . 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.

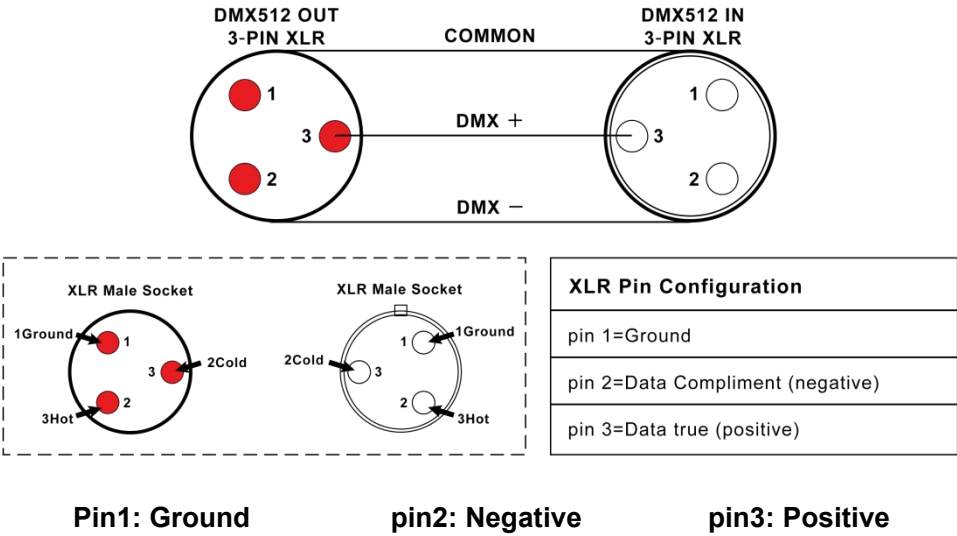
The facility must be installed by professionals, and keep it far away from fire, walking road, and easy touched place.

2. Technical Specification

Light Source	6*60W 4in1 RGBW LED 20*10W white led+384*0.5W 3in1 RGB LED
LED Lifetime	≥ 50000H
Power Voltage	AC100-240V , 50-60Hz
Power Consumption	700W
Beam Angle	3.5°-45°
Control Modes	DMX512/ Auto/ Sound/ Master/ Manual/ RDM/ ArtNet(optional)
DMX Channel	34/ 54Channel
Protection Rating	IP20
Display	1.8-inch LED color display
Data In/Out Socket	3-pin XLR sockets
Power Socket	Power-Con in/ out
Housing Material	ABS High temperature resistant plastics

Pan	540°accuracy 2.11°/step, fine-tuning accuracy: 0.008°		
Tilt	270°accuracy 0.86°/step, fine-tuning accuracy: 0.0034°		
Pan/Tilt Resolution	Automatically correct pan/tilt position		
MAX. Connection	4 units (230V, 50Hz)	2.5mm ²	power cable
	2 units (110V, 60Hz)	2.5mm ²	power cable
Dimension	640*210*369mm		
Net Weight	19.5 kg		
Carton Package	735*505*300 mm	1in1	GW.: 23 kg
Flight Case	700*640*595 mm	2in1	GW.: 69.35 kg
Features	Full light range dimming, 65536-level dimming accuracy; fast strobe 1-25Hz; single-point control of lamp beads; three-in-one effects of dyeing, 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



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



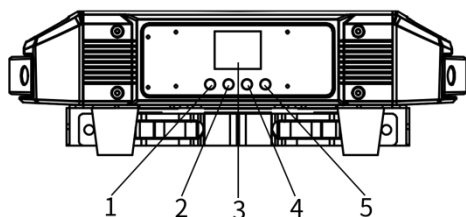
DOWN



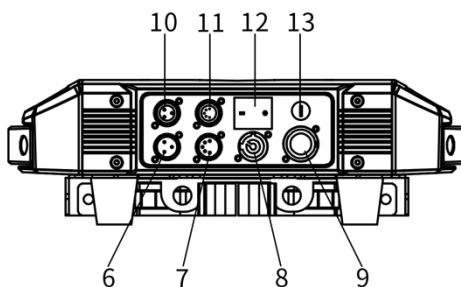
ENTER

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 control
	3.Language	1.English	English and Chinese select
		2.Chinese	
	4. No Signal	1.Black Out 2.Hold	
	5.Fan Set	1.Auto 2.Low 3.High	
	6.Reset	1.Yes 2.NO	
	7.Default	1.No	Default set
		2.Yes	

	8.Adjust	Pass Word: ****	Changing the values of Pan/Tilt/Focus can correct the angle; changing the values of R/G/B/W can adjust the white balance
		1.Pan:0-255	
		2.Tilt:0-255	
		3.Focus:0-255	
		4.Red: 0-255	
		5.Green: 0-255	
		6.Blue: 0-255	
		7.White: 0-255	
Address	001-512		Set address 001-512
Reverse	1. Pan Invert	1.NO 2.YES	Pan forward and reverse setting
	2.Tilt Invert	1.NO 2.YES	Tilt forward and reverse setting
	3.Display	Press ENTER change	Display font forward and reverse settings
Information	1. CH Value		Show all channel information
	2.Tem**°C		Show LED temperature
	3.SoftV1.0		Show version No.
Mode	1.DMX512		Set control mode
	2.Auto	1.Master	
		2.Alone	

	3.Sound	1.Master				
		2.Alone				
	4.Manual	1.Master	1.Pan:0-255			
			2. Tilt:0-255			
			3. Focus :0-255			
			4. Red 1 : 0-255			
			5. Green 1 : 0-255			
			6. White 1 : 0-255			
		2.Alone	8.Strobe 1 : 0-255			
			9. Red 2 : 0-255			
			10.Green 2 : 0-255			
			11.White 2 : 0-255			
		12.Strobe 2:0-255				
Channel	1.34Channe ls	34 channel		Select control mode		
	2.54Channe ls	54 channel				

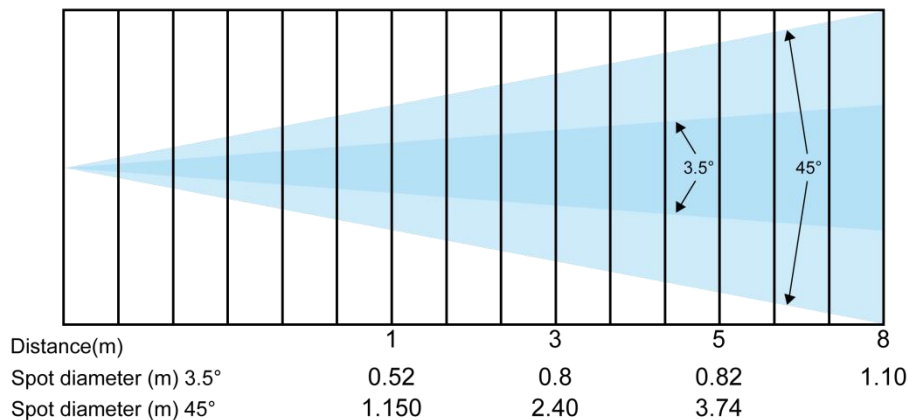
6. LUX Data

Min Zoom Range = 3.5°

R lux	28800	6350	3700	2080
G lux	57500	17500	9020	4570
B lux	10500	3210	1640	810
W lux	80700	21400	11600	5980
4in1 lux	165000	45500	24100	12500

Min Zoom Range = 45°

R lux	4030	576	215	103
G lux	9700	1520	568	251
B lux	1890	290	110	476
W lux	13000	2010	745	335
4in1 lux	26700	4100	1520	687



7. DMX Channel List

► 54CH Mode

CH	Function		DMX Value	Description
1	Pan		0-255	Pan adjustment
2	Pan adjust		0-255	Pan adjust adjustment
3	Tilt		0-255	Tilt adjustment
4	Tilt adjust		0-255	Tilt adjust adjustment
5	Pan/Tilt speed		0-255	from fast to slow
6	Pan infinite rotation		0-55	No function
			56-155	Rotating from slow to fast
			156-255	Rotating from slow to fast
7	Tilt infinite rotation		0 - 55	No function
			56 - 155	Clockwise rotating from slow to fast
			156-255	Anticlockwise rotating from slow to fast
8	6x60w wash face	strobe	0-15	No function
			16-214	Strobe from fast to slow
			215-225	Random strobe
9		Dimmer	0-255	From dark to bright
10		Dimmer mode	0 - 49	Mode - 1
			50 - 99	Mode - 2
			100- 149	Mode - 3

CH	Function		DMX Value	Description
			150- 255	Mode - 4
11		zoom	0 - 255	From narrow to wide
12		Red - 1	0 - 255	From dark to bright
13		Green - 1	0 - 255	From dark to bright
14		Blue - 1	0 - 255	From dark to bright
15		White - 1	0 - 255	From dark to bright
16		Red - 2	0 - 255	From dark to bright
17		Green - 2	0 - 255	From dark to bright
18		Blue - 2	0 - 255	From dark to bright
19		White - 2	0 - 255	From dark to bright
20		Red - 3	0 - 255	From dark to bright
21		Green - 3	0 - 255	From dark to bright
22		Blue - 3	0 - 255	From dark to bright
23		White - 3	0 - 255	From dark to bright
24		Red - 4	0 - 255	From dark to bright
25		Green - 4	0 - 255	From dark to bright
26		Blue - 4	0 - 255	From dark to bright
27		White - 4	0 - 255	From dark to bright
28		Red - 5	0 - 255	From dark to bright
29		Green - 5	0 - 255	From dark to bright
30		Blue - 5	0 - 255	From dark to bright

CH	Function		DMX Value	Description
31		White - 5	0 - 255	From dark to bright
32		Red - 6	0 - 255	From dark to bright
33		Green - 6	0 - 255	From dark to bright
34		Blue - 6	0 - 255	From dark to bright
35		White - 6	0 - 255	From dark to bright
36		Static color	0-15	No function
			16-35	R 100%,G up,B0%
			36-55	R down,G 100%,B0%
			56-75	R 0%,G 100%,B up
			76-95	R 0%,G100%,B up
			96-115	R up,G0%,B100%
			116-135	R 100%,G0%,B down
			136-155	R 100%,G up,B up
			156-175	R100%,G down,B100%
			176-195	R 100 %,G 100%,B 100 %,W 100%
			196-200	2800 K
			201-205	3200 K
			206-210	3500 K
			211-215	4000 K
			216-220	4500 K
			221-225	5000 K

CH	Function		DMX Value	Description
37			226-230	5500 K
			231-235	6000 K
			236-240	6500 K
			241-245	7000 K
			246-250	7500 K
			251-255	8000 K
		Effect	0 -9	No function
			10 - 99	11 DMX value per effect
			100- 149	Jump change
			150- 255	gradual change
		Patterns	0 - 9	No function
			10-19	Static Pattern -1
			20 - 29	Static Pattern -2
			30 - 39	Static Pattern -3
			40 - 49	Static Pattern -4
			50 - 59	Static Pattern -5
			60 - 69	Static Pattern -6
			70 - 79	Static Pattern -7
			80 - 89	Static Pattern -8
			90 - 99	Static Pattern -9
			100- 109	Static Pattern -10

CH	Function		DMX Value	Description
			110- 119	Static Pattern -11
			120- 129	Static Pattern -12
			130- 139	Static Pattern -13
			140- 149	Static Pattern -14
			150- 159	Static Pattern -15
			160- 169	Static Pattern -16
			170- 179	Dynamic Pattern -1
			180- 189	Dynamic Pattern -2
			190- 199	Dynamic Pattern -3
			200- 209	Dynamic Pattern -4
			210- 219	Dynamic Pattern -5
			220- 229	Dynamic Pattern -6
			230- 239	Dynamic Pattern-7
			240-255	Dynamic Pattern -8
39		Pattern change speed	0-255	Pattern change speed
40		Pattern change fade	0-255	Pattern change fade
41		Pattern with Red color from dark to bright	0-255	Pattern with Red color from dark to bright
42		Pattern with green color from dark to bright	0-255	Pattern with green color from dark to bright
43		Pattern with blue color from dark to bright	0-255	Pattern with blue color from dark to bright
44		Pattern with white	0 - 255	Pattern with white

CH	Function		DMX Value	Description
		color from dark to bright		color from dark to bright
45	Strobe face	Dimmer	0-255	From dark to bright
46		Strobe	0-3	Strobe dimming
			4-203	Synchronously strobe speed from slow to fast
			201-255	Random strobe
47		Dimming of middle area white led from dark to bright	0-255	Dimming of middle area white led from dark to bright
48		Dimming of two side red led from dark to bright	0-255	Dimming of two side red led from dark to bright
49		Dimming of two side green led from dark to bright	0-255	Dimming of two side green led from dark to bright
50		Dimming of two side blue led from dark to bright	0-255	Dimming of two side blue led from dark to bright
51		Dynamic patterns	0-9	No function
			10-19	Dynamic pattern 1
			20-29	Dynamic pattern 2
				10 DMX value per pattern
			160-255	Dynamic pattern 16
52		Patterns translation (work with CH 51)	0-255	Select pattern scene
53		Pattern auto run speed (work with CH 51)	0-9	No function
			10-132	forward run fast to slow
			133-255	Reverse run slow to fast

CH	Function	DMX Value	Description
54	Reset	0 -79	No function
		80-99	Reset
		100-255	No function

► 34CH Mode

CH	Function		DMX Value	Description
1	Pan		0-255	Pan adjustment
2	Pan adjust		0-255	Pan adjust-tuning
3	Tilt		0-255	Tilt adjustment
4	Tilt adjust		0-255	Tilt adjust-tuning
5	Pan/Tilt speed		0-255	from fast to slow
6	Pan infinite rotation		0-55	No function
			56-155	Clockwise rotating from slow to fast
			156-255	Anticlockwise rotating from slow to fast
7	Tilt infinite rotation		0-55	No function
			56-155	Clockwise rotating from slow to fast
			156-255	Anticlockwise rotating from slow to fast
8	6*60 w wash face	Strobe	0 - 15	No function
			16 - 214	From slow to fast

CH	Function		DMX Value	Description
			215-255	Random strobe
9		Dimmer	0 - 255	From dark to bright
10	Dimmer Mode		0 - 49	Mode - 1
			50 - 99	Mode - 2
			100- 149	Mode - 3
			150- 255	Mode - 4
11	6*60 w wash face	Zoom	0 - 255	Angle from arrow to wide
12		Red	0 - 255	From dark to bright
13		Green	0 - 255	From dark to bright
14		Blue	0 - 255	From dark to bright
15		White	0 - 255	From dark to bright
16		Static color	0-15	No function
			16-35	R 100%,G up,B0%
			36-55	R down,G 100%,B0%
			56-75	R 0%,G 100%,B up
			76-95	R 0%,G100%,B up
			96-115	R up,G 0%,B 100%
			116-135	R 100%,G 0%,B down
			136-155	R 100%,G up,B up
			156-175	R 100%,G down,B 100%

CH	Function		DMX Value	Description
			176-195	R 100%,G 100%,B 100%,W 100%
			196-200	2800 K
			201-205	3200 K
			206-210	3500 K
			211-215	4000 K
			216-220	4500 K
			221-225	5000 K
			226-230	5500 K
			231-235	6000 K
			236-240	6500 K
			241-245	7000 K
			246-250	7500 K
			251-255	8000 K
17		Effects	0 - 9	No function
			10 - 99	11 DMX value per effect
			100 - 149	Jump change
			150 - 255	gradual change
18		No function	0 - 9	No function
		Static Pattern -1	10 月 19 日	Static Pattern -1
		Static Pattern -2	20 - 29	Static Pattern -2
		Static Pattern -3	30 - 39	Static Pattern -3

CH	Function		DMX Value	Description
		Static Pattern -4	40 - 49	Static Pattern -4
		Static Pattern -5	50 - 59	Static Pattern -5
		Static Pattern -6	60 - 69	Static Pattern -6
		Static Pattern -7	70 - 79	Static Pattern -7
		Static Pattern -8	80 - 89	Static Pattern -8
		Static Pattern -9	90 - 99	Static Pattern -9
		Static Pattern -10	100- 109	Static Pattern -10
		Static Pattern -11	110- 119	Static Pattern -11
		Static Pattern -12	120- 129	Static Pattern -12
		Static Pattern -13	130- 139	Static Pattern -13
		Static Pattern -14	140- 149	Static Pattern -14
		Static Pattern -15	150- 159	Static Pattern -15
		Static Pattern -16	160- 169	Static Pattern -16
		Dynamic Pattern -1	170- 179	Dynamic Pattern -1
		Dynamic Pattern -2	180- 189	Dynamic Pattern -2
		Dynamic Pattern -3	190- 199	Dynamic Pattern -3
		Dynamic Pattern -4	200- 209	Dynamic Pattern -4
		Dynamic Pattern -5	210- 219	Dynamic Pattern -5
		Dynamic Pattern -6	220- 229	Dynamic Pattern -6
		Dynamic Pattern -7	230-239	Dynamic Pattern -7
		Dynamic Pattern -8	240-255	Dynamic Pattern -8

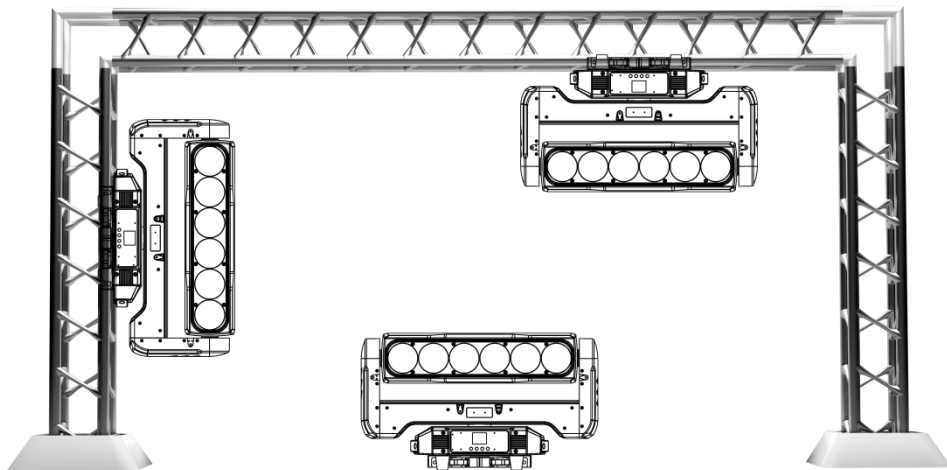
CH	Function		DMX Value	Description
19		Pattern change speed	0 - 255	Pattern change speed
20		Pattern change fade	0 - 255	Pattern change fade
21		Pattern with Red from dark to bright	0 - 255	Pattern with Red from dark to bright
22		Pattern with Green from dark to bright	0 - 255	Pattern with Green from dark to bright
23		Pattern with Blue from dark to bright	0 - 255	Pattern with Blue from dark to bright
24		Pattern with White from dark to bright	0 - 255	Pattern with White from dark to bright
25	Strobe face	Dimmer	0-255	0-100% linear dimmer
26		Strobe	0-3	Strobe dimming
			4-203	Synchronously strobe from slow to fast
			204-255	Random strobe
27		Middle white Led 0-100% dimmer	0-255	Middle white Led 0-100% dimmer
28		Both side Red led 0-100% dimmer	0-255	Both side Red led 0-100% dimmer
29		Both side Green led 0-100% dimmer	0-255	Both side Green led 0-100% dimmer
30		Both side Blue led 0-100% dimmer	0-255	Both side Blue led 0-100% dimmer
31		Dynamic pattern	0-9	No function
			10-19	Dynamic pattern 1
			20-29	Dynamic pattern 2
				10 DMX value per pattern
	150-159		Dynamic pattern 15	
	160-255		Dynamic pattern 16	

CH	Function		DMX Value	Description
32		Pattern translation (work with CH 31)	0-255	Select pattern scene
33		Pattern auto run speed(work with CH 31)	0-9	No function
			10-132	Forward run from fast to slow
			133-255	Reverse fun from slow to fast
34	Reset		0 - 79	No function
			80 - 99	Reset
			100 - 255	No function

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.

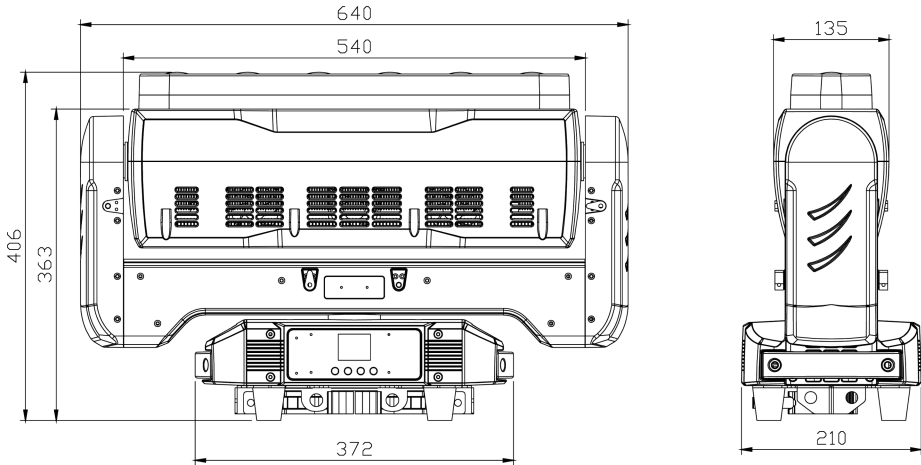
High-altitude mounting requires for extensive experience, including working load limits calculating , installation material, and periodic safety check of installation materials and facilities. If you're lack of mentioned qualifications, do not attempt the installation yourself. These installation should be checked by a skilled person annually.



660DZ 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°C to 45°C . 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 LEDs, 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: 6*60W Double Face LED Pixel Zoom and Strobe Bar Moving Head
Moving Head

Model NO.: 660DZ

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.