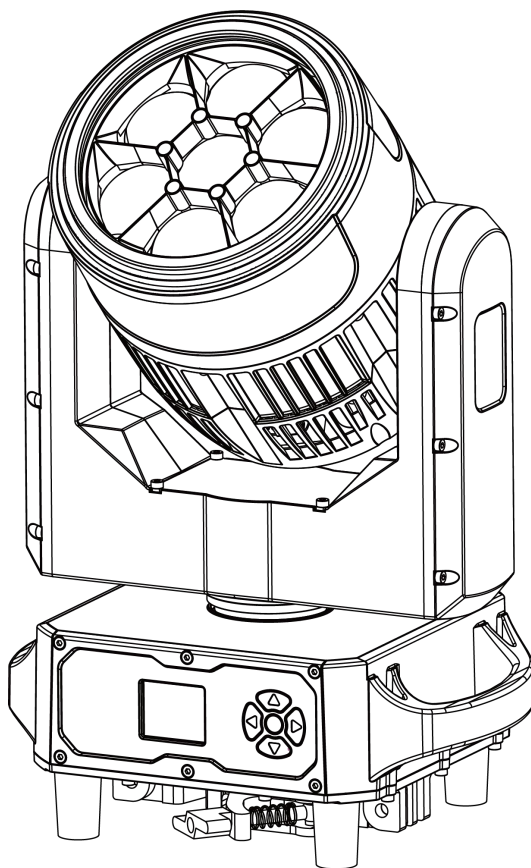


740ZWR

IP65 7x40W Zoom WASH with Ring



User Manual

Please read manual carefully before use

CONTENTS

1. Safety Instructions	2
2. Technical Specification	4
3. DMX Set Up	5
4. Display	7
5. Menu	8
6. LUX Data	10
7. DMX Channel List	11
8. Mounting	21
9. Product Size	22
10. Attention	22
11. Trouble Shooting	23
A. The unit does not work, no light and the fan does not work	23
B. Not responding to DMX controller	23
C. One of the channels is not working well	23
12. Fixture Cleaning	24

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



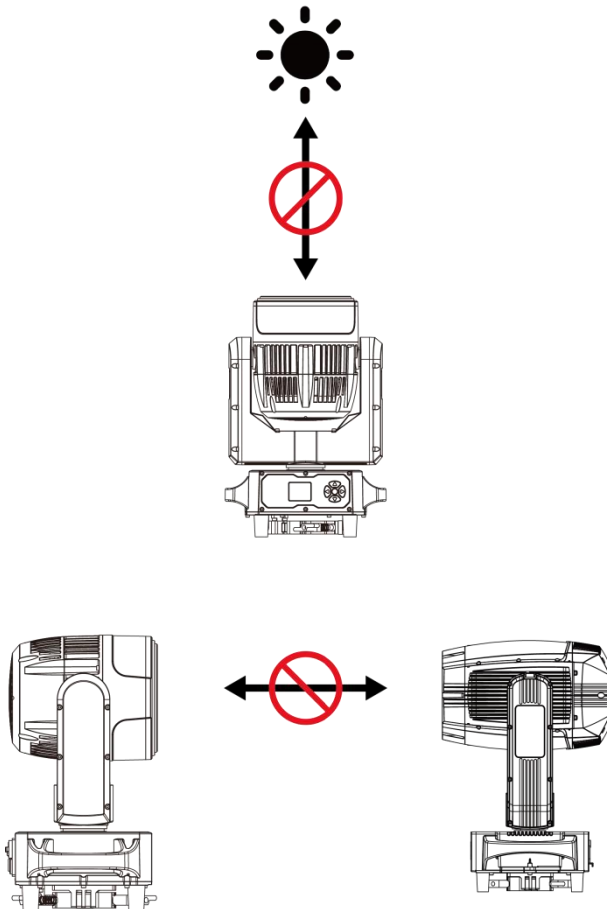
Please read this manual carefully, which includes important information on installation, use and maintenance.

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.

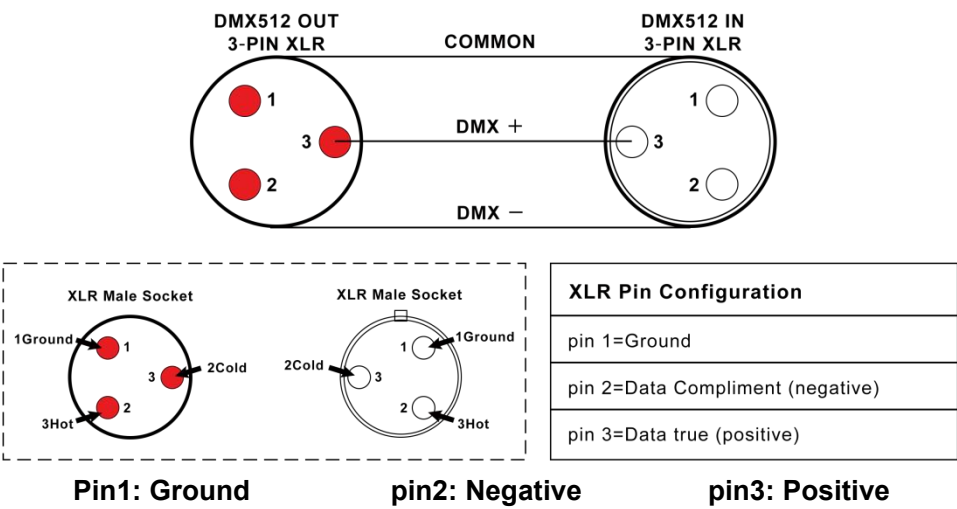
The facility must be installed by professionals, and keep it far away from fire, walking road, and easy touched place.

2. Technical Specification

Light Source	7*40W RGBW 4in1 + 36*0.2W RGB 3in1 LED
LED Lifetime	≥ 50000H
Power Voltage	AC100-240V , 50-60Hz
Power Consumption	250W ± 5%
Beam Angle	3.5° -45°
Control Modes	DMX512/ Auto/ Sound/ Master-Slave/ Manual/ RDM/ ArtNet(optional)
DMX Channel	20/ 23/ 24 Channel
Protection Rating	IP65
Display	1.8 inch TFT Display
Data In/Out Socket	3-pin XLR sockets (5-pin optional)
Power Socket	Power-Con in/ out
Housing Material	Die-cast aluminum + flame-retardant carbon fiber

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	17 units (240V, 50Hz) 1.5mm ² power cable		
	7 units (100V, 60Hz) 1.5mm ² power cable		
Dimension	309.5mm×232.5mm×462.3mm		
Net Weight	11kg		
Carton Package	380*300*570mm	1in1	G.W.: 13.6kg
	650*535*400mm	2in1	G.W.: 26kg
Flight Case	825*710*680mm	4in1	G.W.: 86kg
Features	Full light range dimming, 65536-level accuracy; fast strobe 1~25Hz; LED ring control; WASH, beam, and strobe 3in1 effects; Preset multiple color macro functions; Preset multiple effect macro functions, Color temperature 2800-8000K optional		
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:

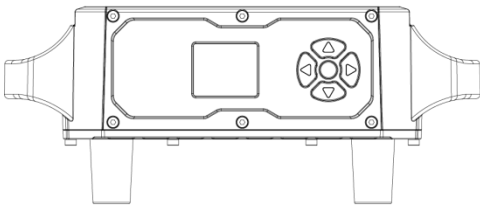
- Auto mode - the light can automatically complete all color changes
- DMX control mode - each light can be individually controlled by a standard DMX512 console
- Master mode - any light can work as a host in any of the above modes, and the other lights will work synchronously as slaves

4. Display

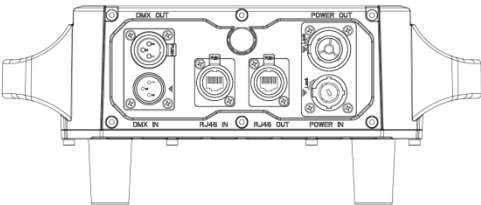
There are five buttons on the LED panel: ESC, UP, DOWN, ENTER and SAVE.

Display	
	
ESC UP DOWN ENTER SAVE	
ESC	to exit or back to the previous menu
UP/ DOWN	to navigate through menu options or adjust values
SAVE	to save the adjusted settings/ values and back to the previous menu
ENTER	to enter next menu level.

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

Menu	1. Pan Degree	1. 540	Pan setting
		2. 360	
	2. Mic Sense	001-100	Sound sensitivity setting
	3. Language	1. English	Language setting
		2. Chinese	
	4. No Signal	1. Block Out 2. Hold	Status setting(no signal)
	5. Fan Set	1. Auto 2. Low 3. High	Fan speed setting
	6. Reset	1. Yes	Reset
		2. No	
	7. Default	1. Yes	Reset to default
		2. No	
	8. Adjust	Pass Word: ****	Change Pan/ Tilt/ Focus value to adjust angle
		1. Pan: 0-255	
		2. Tilt: 0-255	
		3. Focus: 0-255	
		4. Red: 0-255	Change R/ G/ B/ W value to adjust White Balance
		5. Green: 0-255	
		6. Blue: 0-255	
		7. White: 0-255	
Addr		001-512	Address setting: 001-512
Rever	1. Pan Invert	1. YES 2. NO	Pan/ Tilt/ Display rever setting
	2. Tilt Invert	1. YES 2. NO	
	3. Display Invert	1. YES 2. NO	
Info	1. CH Value		Channels information
	2. Tem**°C		LED temperature
	3. Soft V1.0		Program version
Mode	1. DMX512		Control mode setting
	2. Auto		
	3. Sound		
	4. Manual		Manual control
		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	
		8. Strobe: 0-255	
		9. Red1: 0-255	
		10. Green1: 0-255	
		11. Blue1: 0-255	
		12. Strobe1: 0-255	
Channel	1. 20 Channels	20 Channels	Channels setting
	2. 23 Channels	23 Channels	
	3. 24 Channels	24 Channels	

6. LUX Data

Beam Angle:(7*40W) 3.5°

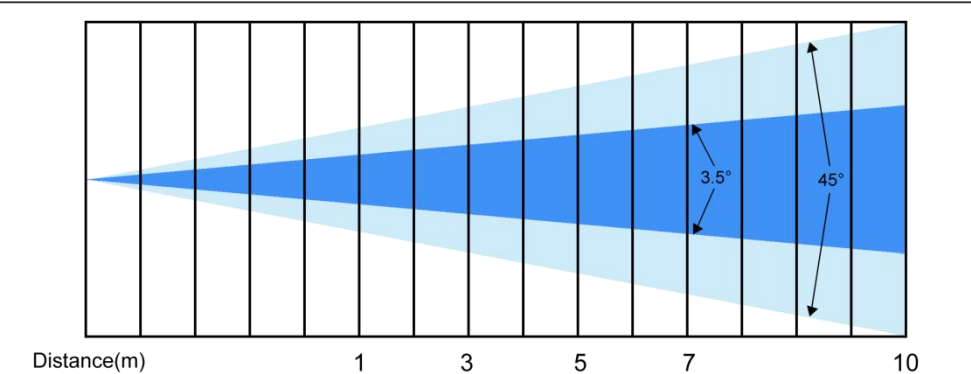
R lux	81000	9000	3240	1653	810
G lux	170750	18972	6830	3485	1708
B lux	29750	3306	1190	607	298
W lux	216250	24028	8650	4413	2163
ALL lux	452500	50278	18100	9235	4525

Beam Angle:(7*40W) 45°

R lux	3425	381	137	69.9	34.3
G lux	6925	769	277	141	69.3
B lux	1308	145	52.3	26.7	13.1
W lux	8475	942	339	173	84.8
ALL lux	18100	2011	724	369	181

Ring:(36*0.2W)

Distance(m)	0.1m	0.3m	0.5m	1m	3m
R lux	788	87.5	31.5	16.1	7.9
G lux	2138	238	85.5	43.6	21.4
B lux	793	88.1	31.7	16.2	7.9
ALL lux	3600	400	144	73.5	36.0



7. DMX Channel List

► 20CH Mode

CH	Functions		DMX Value	Description
1	Pan		0--255	Pan setting
2	Pan adjustment		0--255	Pan adjustment
3	Tilt		0--255	Tilt setting
4	Tilt adjustment		0--255	Tilt adjustment
5	Pan/ Tilt Speed		0--255	From fast to slow
6	Dimming Mode		0--49	Linear dimming
			50--99	Square Law Dimming
			100--149	Inverse Square Law Dimming
			150--255	S-Curve Dimming
7	Dimmer		0--255	From dark to bright
8	Dimming Adjustment		0--255	From dark to bright
9	40W LED	Strobe	0--3	Strobe dimming
			4--203	Synchronous strobe from slow to fast(1Hz-25Hz)
			204--255	Random strobe
10		R	0--255	From dark to bright
11		G	0--255	From dark to bright
12		B	0--255	From dark to bright
13		W	0--255	From dark to bright
14		Zoom	0--255	From narrow to wide
15		Color	0--15	No function

		Temperature	16--35	R 100%, G UP, B 0%
			36--55	R DOWM, G 100%, B 0%
			56--75	R 0%, G 100%, B UP
			76--95	R 0%, G DOWM, B 100%
			96--115	R UP, G 0%, B 100%
			116--135	R 100%, G 0%, B DOWM
			136--155	R 100%, G UP, B UP
			156--175	R DOWM, G DOWM, B 100%
			176--195	R 100%, G 100%, B 100%, W 100%
			196--200	2800K
			201--205	3200K
			206--210	3700K
			211--215	4000K
			216--220	4500K
			221--225	5000K
			226--230	5600K
			231--235	6000K
			236--240	6500K
			241--245	7000K
			246--250	7500K
			251--255	8000K
16	Ring	Strobe	0--3	Strobe dimming
			4--203	Synchronous strobe from slow to fast(1Hz-25Hz)

			204--255	Random strobe
17		R	0--255	From dark to bright
18		G	0--255	From dark to bright
19		B	0--255	From dark to bright
20	Functions		0--137	No function
			138--149	PWM output frequency 1K-64K (valid for 3s) 1K,2K,4K,6K,8K,10K,1 6K,20K,24K,32K,48K,6 4K
			150--159	Fast dimming
			160--169	Slow dimming (from fast to slow)
			170--250	No function
			251--255	Facility reset (stay for 3 seconds)

► 23CH Mode

CH	Functions	DMX Value	Description
1	Pan	0--255	Pan setting
2	Pan adjustment	0--255	Pan adjustment
3	Tilt	0--255	Tilt setting
4	Tilt adjustment	0--255	Tilt adjustment
5	Pan/ Tilt Speed	0--255	From fast to slow
6	Dimming Mode	0--49	Linear dimming
		50--99	Square Law Dimming

			100--149	Inverse Square Law Dimming
			150--255	S-Curve Dimming
7	Dimmer		0--255	From dark to bright
8	40W LED	Strobe	0--3	Strobe dimming
			4--203	Synchronous strobe from slow to fast(1Hz-25Hz)
			204--255	Random strobe
9		R	0--255	From dark to bright
10		R Adjustment	0--255	From dark to bright
11		G	0--255	From dark to bright
12		G Adjustment	0--255	From dark to bright
13		B	0--255	From dark to bright
14		B Adjustment	0--255	From dark to bright
15		W	0--255	From dark to bright
16		W Adjustment	0--255	From dark to bright
17		Zoom	0--255	From narrow to wide
18		Color Temperature	0--15	No function
			16--35	R 100%, G UP, B 0%
			36--55	R DOWM, G 100%, B 0%
			56--75	R 0%, G 100%, B UP
			76--95	R 0%, G DOWM, B 100%

			96--115	R UP, G 0%, B 100%
			116--135	R 100%, G 0%, B DOWM
			136--155	R 100%, G UP, B UP
			156--175	R DOWM, G DOWM, B 100%
			176--195	R 100%, G 100%, B 100%, W 100%
			196--200	2800K
			201--205	3200K
			206--210	3700K
			211--215	4000K
			216--220	4500K
			221--225	5000K
			226--230	5600K
			231--235	6000K
			236--240	6500K
			241--245	7000K
			246--250	7500K
			251--255	8000K
19	Ring	Strobe	0--3	Strobe dimming
			4--203	Synchronous strobe from slow to fast(1Hz-25Hz)
			204--255	Random strobe

20		R	0--255	From dark to bright
21		G	0--255	From dark to bright
22		B	0--255	From dark to bright
23	Functions		0--137	No function
			138--149	PWM output frequency 1K-64K (valid for 3s) 1K,2K,4K,6K,8K,10K,1 6K,20K,24K,32K,48K,6 4K
			150--159	Fast dimming
			160--169	Slow dimming (from fast to slow)
			170--250	No function
			251--255	Facility reset (stay for 3 seconds)

► 24CH Mode

CH	Functions	DMX Value	Description
1	Pan	0--255	Pan setting
2	Pan adjustment	0--255	Pan adjustment
3	Tilt	0--255	Tilt setting
4	Tilt adjustment	0--255	Tilt adjustment
5	Pan/ Tilt Speed	0--255	From fast to slow
6	Dimming Mode	0--49	Linear dimming
		50--99	Square Law Dimming

			100--149	Inverse Square Law Dimming
			150--255	S-Curve Dimming
7	40W LED	Dimmer	0--255	From dark to bright
8		Dimming Adjustment	0--255	From dark to bright
9		Strobe	0--3	Strobe dimming
			4--203	Synchronous strobe from slow to fast(1Hz-25Hz)
			204--255	Random strobe
10		R	0--255	From dark to bright
11		R Adjustment	0--255	From dark to bright
12		G	0--255	From dark to bright
13		G Adjustment	0--255	From dark to bright
14		B	0--255	From dark to bright
15		B Adjustment	0--255	From dark to bright
16		W	0--255	From dark to bright
17		W Adjustment	0--255	From dark to bright
18		Zoom	0--255	From narrow to wide
19		Rotation	0--155	0~60°
			156--205	Clockwise infinite rotation
	206--255		Counterclockwise infinite rotation	
20	Color	0--15	No function	

		Temperature	16--35	R 100%, G UP, B 0%
			36--55	R DOWM, G 100%, B 0%
			56--75	R 0%, G 100%, B UP
			76--95	R 0%, G DOWM, B 100%
			96--115	R UP, G 0%, B 100%
			116--135	R 100%, G 0%, B DOWM
			136--155	R 100%, G UP, B UP
			156--175	R DOWM, G DOWM, B 100%
			176--195	R 100%, G 100%, B 100%, W 100%
			196--200	2800K
			201--205	3200K
			206--210	3700K
			211--215	4000K
			216--220	4500K
			221--225	5000K
			226--230	5600K
			231--235	6000K
			236--240	6500K
			241--245	7000K
			246--250	7500K
			251--255	8000K

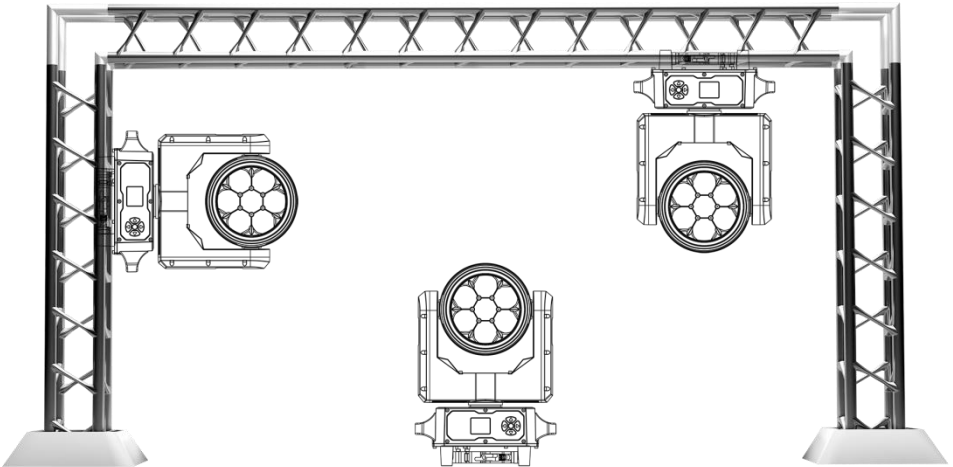
21	Ring	Dimmer		
		Strobe	0--3	Strobe dimming
			4--203	Synchronous strobe from slow to fast(1Hz-25Hz)
			204--255	Random strobe
		R	0--255	From dark to bright
		G	0--255	From dark to bright
		B	0--255	From dark to bright
		Effects	0--4	No function
			5--9	Single Color 1
			（5 numbers 1 effect）	
			125--129	Single Color 25
			130--134	Mixed color 1
			（5 numbers 1 effect）	
			205--209	Mixed color 16
			210--255	Hold
22	Dynamic Effect Speed(with 21 Channels)	0--127	Clockwise, from fast to slow	
		128--255	Counterclockwise, from fast to slow	
23	Gradient effect(with 21 Channels)	0--255	From fast to slow	

24	Functions	0--137	No function
		138--149	PWM output frequency 1K-64K (valid for 3s) 1K,2K,4K,6K,8K,10K,1 6K,20K,24K,32K,48K,6 4K
		150--159	Fast dimming
		160--169	Slow dimming (from fast to slow)
		170--250	No function
		251--255	Facility reset (stay for 3 seconds)

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.

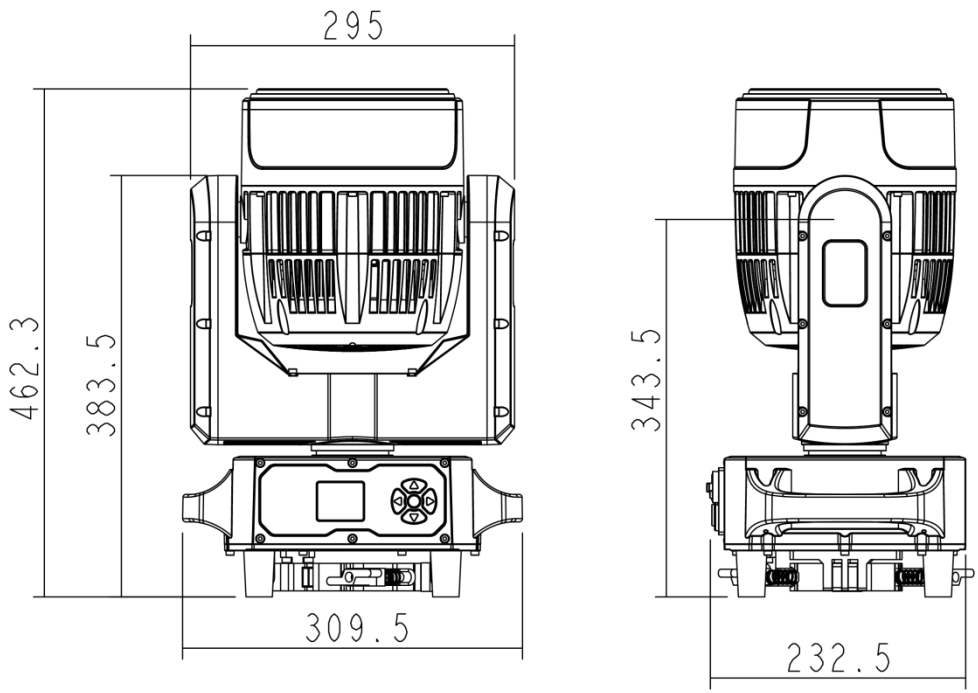
High-altitude mounting requires for extensive experience, including working load limits calculating , installation material, and periodic safety check of installation materials and facilities. If you're lack of mentioned qualifications, do not attempt the installation yourself. These installation should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



740ZWR 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 7x40W Mini Zoom WASH with Ring

Model NO.: 740ZWR

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.