740ZW

IP65 7×40W Wash Zoom

USER MANUAL

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Statement

Fixtures should be fastened on the hooks with screws. Make sure the installation is secure to prevent chattering and slipping during operation. Also make sure that the structure of the connected luminaire can support the luminaire 10 times the weight. At the same time, when installing the lamps, they also use a safety rope to support the weight of the lamps by 12 times.

The installation of the equipment should be carried out by professionals, and it should also be installed in places where people can't reach them casually or where no one is free to pass by.

Safety Instructions

Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.

➢ Unpack and check carefully there is no transportation damage before using the unit.
➢ Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.
➢ It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
➢ The unit is for outdoor use.
➢ The unit must be installed in a location with adequate ventilation, at least 50 cm from adjacent surfaces. Be sure that no ventilation slots are blocked.
➢ Disconnect main power before replacement or servicing.
➢ Make sure there are no flammable materials close to the unit while operating as it is fire hazard.
➢ Use safety cable when fixes this unit. Do not handle the unit by taking its head only, but always by taking its base.
➢ Maximum ambient temperature is : 45℃. Do not operate it where the temperature is higher than this Unit surface temperature may reach up to 85℃. Do not touch the housing bare-hand during its operation. Turn off the power and allow about 15 minutes for the unit to cool down before replacing or serving.
➢ The event of serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact us for the technical support.
➢ Do not touch any wire during operation as high voltage might be causing electric shock.

Warning:
➢ Do not open the unit within five minutes after switching off.
➢ The housing, the lenses must be replaced if they are visibly damaged.

Caution:
There are no user serviceable parts inside the unit. If the service breaks down, you can contact us directly to teach you how to repair it, or send it back to us and we will send it back to you after it is repaired.

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

Technical Specifications

Light Sources:
7x 40W 4IN1 RGBW LED
Beam Angle: 6°~ 45°
Power Consumption: 240W±5%
Power Voltage: AC 100-240V, 50/60Hz
Dimension: 220mm×310mm×462mm
Net Weight: 10.5 Kgs
Flight case packing 4in1size:705*680*645mm
Gross Weight: 82.7kg
Carton packing 2in1 size: 625*400*590mm

Gross Weight: 28.7kg
Carton packing 1in1 size: 310*230*420mm
Gross Weight: 17kg

Maximum number of connections:
8 units (240V, 50Hz) 2.5mm^2 power cable
4 units (100V, 60Hz) 2.5mm^2 power cable

Control:
DMX Channel: 17 /22CH
Control Modes: DMX512/Master-Slave/Auto Run/Music/RDM

Pan/Tilt:
Pan/Tilt: 540°/ 270°
Pan/Tilt Resolution: 8/16 bit Adopt Photoelectric Reset System

Construction:
Display: TFT1.8 Inch Color Display
Data In/Out socket: 3-pin XLR sockets or 5-pin XLR sockets (Optional)
Power Socket: Power con in/out
Protection Rating: IP65

Features:
Motorized liner zoom system
Outstanding color macro effect
Dimmer: 0~100% smooth dimming
Variable strobe effects
Fast, quiet operation and flicker free

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. and appropriate safety cable. Never stand directly below the unit when mounting, removing, or servicing the unit.

Overhead mounting requires extensive experience, including calculating working load limits, installation material being used, and periodic safety inspection of all installation material and unit. If you lack these qualifications, do not attempt the installation yourself.
These installation should be checked by a skilled person once a year.
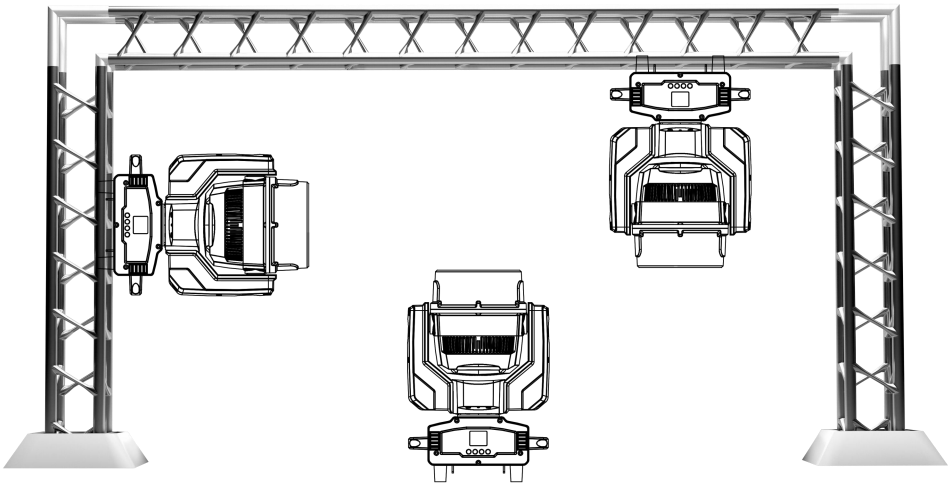
740ZW is fully operational in three different mounting positions, hanging upside-down from a ceiling, sideways on trussing, or set on a flat level surface. Be sure this fixture is kept at least 12m (40ft) away from any flammable materials
(decoration etc.). Always use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event because of clamp fails (see next page). Never use the carrying handles for secondary attachment.

Mounting

NOTICE: The suitable environmental temperature for this lighting fixture is between -25° C to 45° C. Do not place this lighting fixture in an environment where the temperatures are under or above the temperatures stated .This will allow the fixture to run at its best and help prolong the fixture life.

1. Bolt each clamp to the Omega holder with screw and lock nut through the hole in the holder.

2. Fasten the omega holders on the bottom of the base by inserting quick-lock fasteners into the holes of the base and tighten fully clockwise.

3. Hang the fixture to the support using the clamps and tighten the screws. Fasten a safety cable through the bottom of the base and over the support.
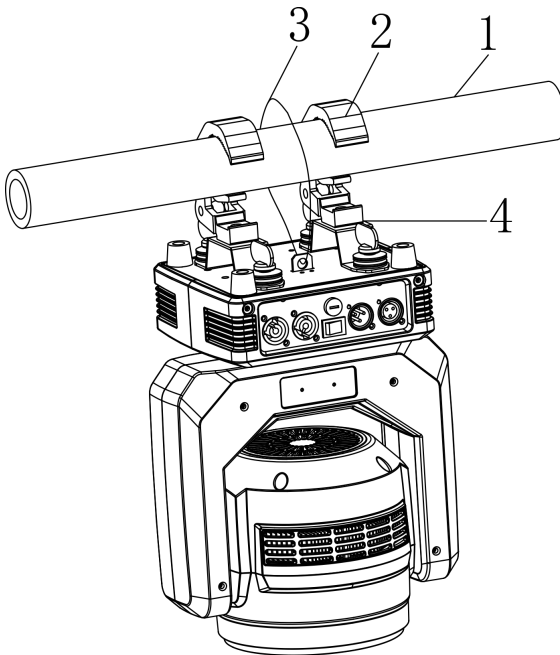
1-Truss
2-Clamp
3-Safety chain
4-Omega bracket

Screw one clamp each via a M12 screw and nut into the Omega holders. Insert the quick-lock fasteners of the Omega holder's into the respective holes on the bottom of the 740ZW. Tighten the quick-lock fasteners fully clockwise. Install the second Omega holder. Pull the safety-cable through the openings located on the base plate and over the trussing system or a safe fixation spot. Insert and tighten the safety screw.

Display and Menu

FRONT VIEW

REAR VIEW
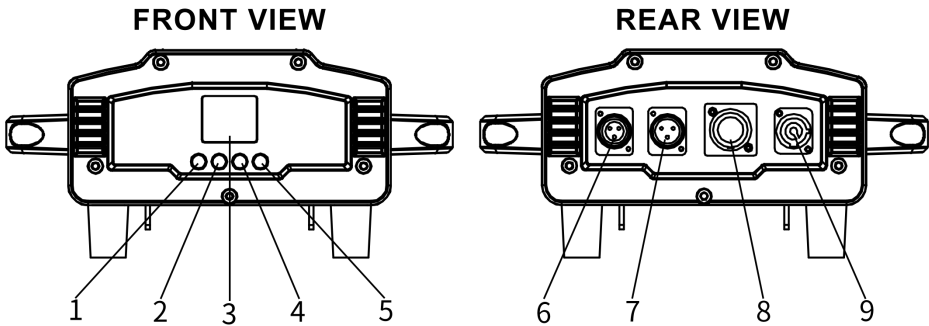
Display:

1. MENU：To select the programming functions.
2. UP：To go forward in the selected functions.
3. DISPLAY：To show the various menus and the selected function.
4. DOWN：To go backward in the selected functions.
5. ENTER：To confirm the selected functions.
6. DMX IN   7. DMX OUT   8. POWER OUT   9. POWER IN

Set DMX Address Code:

➢ Press **"Menu"** to "Set DMX Address", and press **"ENTER"** keys to enter into

➢ Show "Set DMX Address DMX Address:**001"**, Press the "**UP and DOWN**" keys to amended

➢ Press **"ENTER"** keys to save and Exit, Press the "**MENU"** Keys does not save and Exit

Menu	1.Degree	1.540 2.360	Pan running angle selection
	2.Sound	0-100	Sound sensitivity
	3.Language	1.English 2.Chinese	Choose Language
	4.No signal	1.black out	2.hold
	5.Fan set	1.auto, 2. high, 3.low	
	6.Reset	1.NO	Reset
		2.YES	
	7.Default	1.Yes	Factory setting
		2.No	
		Pass word	****
	8.Adjust	1.Pan 0-255	Change the value of Pan/Tilt/Focus to 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.Red:0-255	
		5.Green:0-255	
		6.Blue:0-255	
		7.White:0-255	
Address	Address 001～512		Address setting 001-512
Invert	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 Invert	1.NO 2.YES	Display reverse setting
Inform	1.Channel		Show the channel information
	2.Temp /℃		Show the temperature of led

			board
	3.Soft V1.0		Program version number
	1.DMX512		Set the control mode
	2.Auto		
Mode	3.Sound		
	Manual	Master/Alone	Master/Alone
		1.Pan:0-255	Manual Control
		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	
Channel	1.17CH		Select Channel
	2.22CH		

LUX Data

Beam Angle = 6°

R lux	21400	5360	2050	841
G lux	42400	10600	4190	1660
B lux	9390	2160	882	366
W lux	56500	15500	5750	2340
4in1 lux	111000	32100	11100	4500

Beam Angle = 45°

R lux	3200	387	137	55.1
G lux	6200	804	282	116
B lux	1420	176	61.3	24.6
W lux	8630	1110	401	162
4in1 lux	17000	2170	781	313

| Distance(m)	1	3	5	8
Spot diameter (m) 6°	0.22	0.54	0.83	1.23
Spot diameter (m) 45°	0.73	2.09	3.20	None
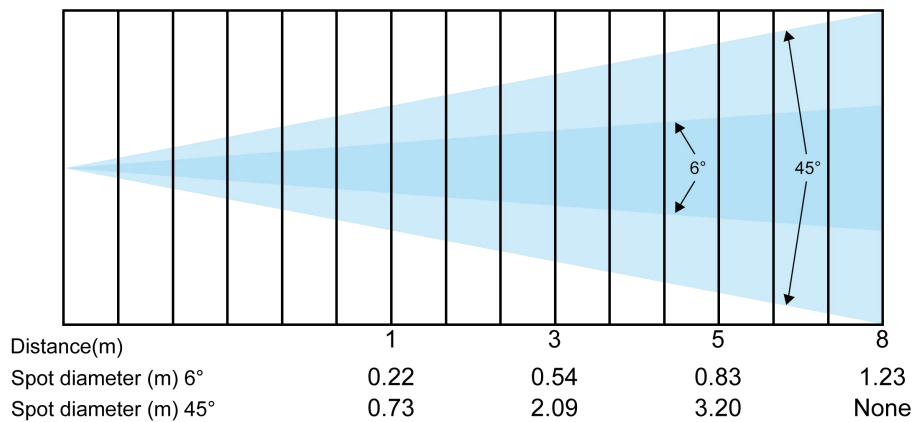
DMX Set Up

Power Supply: The 740ZW contains a automatic voltage switch, which will auto sense the voltage when it is plugged into the power source. With this

switch there is no need to worry about the correct power voltage, this unit can be plugged in anywhere.

Data Cable (DMX Cable) Requirements (For DMX Operation): The 740ZW can be controlled via DMX-512 protocol. The 740ZW has 2 DMX channel modes. Your unit and your DMX controller require a standard 3-pin or 5-pin XLR connector for data input and data output (Figure 1). If you are making your own cables, be sure to use standard 110-120 Ohm shielded cable (This cable may be purchased at almost all pro lighting stores). Your cables should be made with a male and female XLR connector on either end of the cable. Also remember that DMX cable must be daisy chained and cannot be split.

Notice: When making your own cable, be sure to carefully observe and follow the instructions shown in the diagram. Do not use the ground lug on the XLR connector. Do not connect the cable's shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR's outer casing. Grounding the shield could cause a short circuit and erratic behavior.
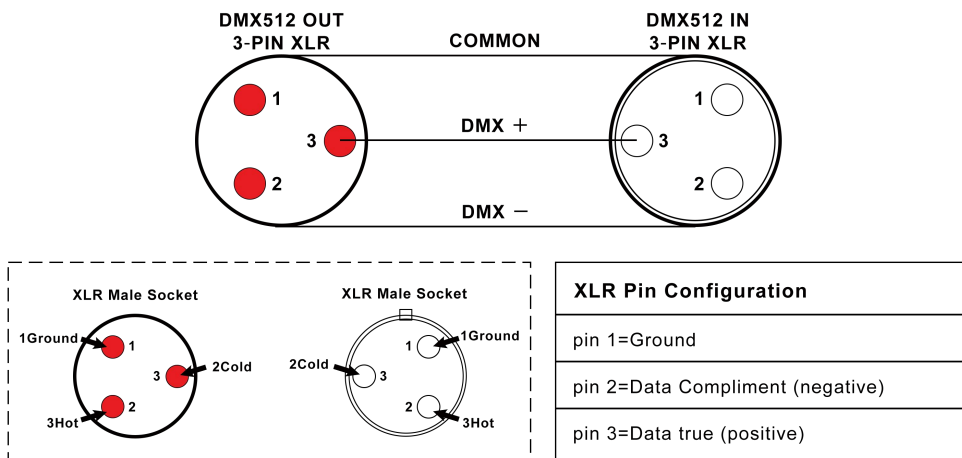
The DMX512 is widely used in intelligent lighting control, with a DMX 512 controller. connect several lights together, dmx in and dmx out,3 pin XLR

connectors: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)

DMX Channel List

DMX channel´s functions and values (17 DMX channels):

Channel	Function	Description	Value
Ch 1	pan adjustment	pan adjustment	0----255
Ch 2	Pan fine adjustment	Pan fine adjustment	0----255
Ch 3	Tilt adjustment	Tilt adjustment	0----255
Ch 4	Tilt fine adjustment	Tilt fine adjustment	0----255
Ch 5	Speed of Pan/Tilt	from fast to slow	0----255
Ch 6	Strobe	No effect	0----15
		Synchro strobe speed slow to fast (1HZ-25HZ)	16----214
		Random strobe	215----255
Ch 7	Dimmer	from dark to bright	0----255
Ch 8	Dimming mode	mode 1	0----49
		mode 2	50----99
		mode 3	100----149
		mode 4	150----255
Ch 9	Zoom	From near to far	0----255
Ch 10	R	from dark to bright	0----255
Ch 11	G	from dark to bright	0----255
Ch 12	B	from dark to bright	0----255
Ch 13	W	from dark to bright	0----255
Ch 14	Static color	No function	0----15

		R100%, G up, B0%	16----35
		R down, G100%, B0%	36---55
		R0%, G100%, B up	56---75
		R0%, G down, B100%	76---95
		R up, G0%, B100%	96---115
		R100%, G up, B down	116---135
		R 100%down, G Up, B Up	136--155
		R down, G down, B100%	156---175
		R100%, G100%, B100%, W100%	176--195
		2800K	196--200
		3200K	201--205
		3500K	206-210
		4000K	211--215
		4500K	216-220
		5000K	221-225
		5500K	226-230
		6000K	231-235
		6500K	236-240
		7000K	241-245
		7500K	246-250
		8000K	251-255
		No function	0----49
Ch 15	Moving color	Skip change	50----99
		Gradual change	100----255
Ch 16	Speed of Moving color	from fast to slow	0----255
Ch 17	Reset	No function	0----250

		Reset	251----255

DMX channel´s functions and values (22 DMX channels):

Channel	Function	Description	Value
Ch 1	pan adjustment	pan adjustment	0----255
Ch 2	Pan fine adjustment	Pan fine adjustment	0----255
Ch 3	Tilt adjustment	Tilt adjustment	0----255
Ch 4	Pan fine adjustment	Pan fine adjustment	0----255
Ch 5	Speed of Pan/Tilt	from fast to slow	0----255
Ch 6	Zoom	From near to far	0----255
Ch 7	Dimmer	Linear dimming from dark to bright	0----255
Ch 8	Dimming fine adjustment	Dimming adjustment control	0----255
Ch 9	Strobe	No function	0----3
		strobe speed slow to fast (1HZ-25HZ)	4----203
		Random strobe	204----255
Ch 10	R	from dark to bright	0----255
Ch 11	Red fine adjustment	Red fine adjustment	0----255
Ch 12	G	from dark to bright	0----255
Ch 13	Green fine adjustment	Green fine adjustment	0----255
Ch 14	B	from dark to bright	0----255
Ch 15	Blue fine adjustment	Blue fine adjustment	0----255
Ch 16	W	from dark to bright	0----255
Ch 17	White fine adjustment	White fine adjustment	0----255
Ch 18	Dimming mode	mode 1	0----49

		mode 2	50----99
		mode 3	100----149
		mode 4	150----255
Ch 19	Static color	No function	0----15
		R100%，G up,B0%	16----35
		R down, G100%, B0%	36----55
		R0%, G100%, B up	56----75
		R0%, G down, B100%	76----95
		R up, G0%, B100%	96----115
		R100%, G up, B down	116---135
		R 100%down, G Up, B Up	136---155
		R down, G down, B100%	156---175
		R100%, G100%, B100%, W100%	176---195
		2800K	196---200
		3200K	201---205
		3500K	206---210
		4000K	211---215
		4500K	216---220
		5000K	221---225
		5500K	226---230
		6000K	231---235
		6500K	236---240
		7000K	241---245
		7500K	246----250
		8000K	251---255
Ch 20	Moving color	No function	0----49
		Skip change	50----99

		Gradual change	100---255
Ch 21	Speed of Moving color	from fast to slow	0----255
Ch 22	Reset	no function	0----250
		Reset	251-255

Attention

➢ When the lamp is powered on and lit, try to avoid looking directly at the light emitted by the lamp beads.

➢ When loading or unloading the lamp, be sure to cut off the main power supply connected to the device before you can open the cover on which the lamp bead is installed.

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.

Products Size
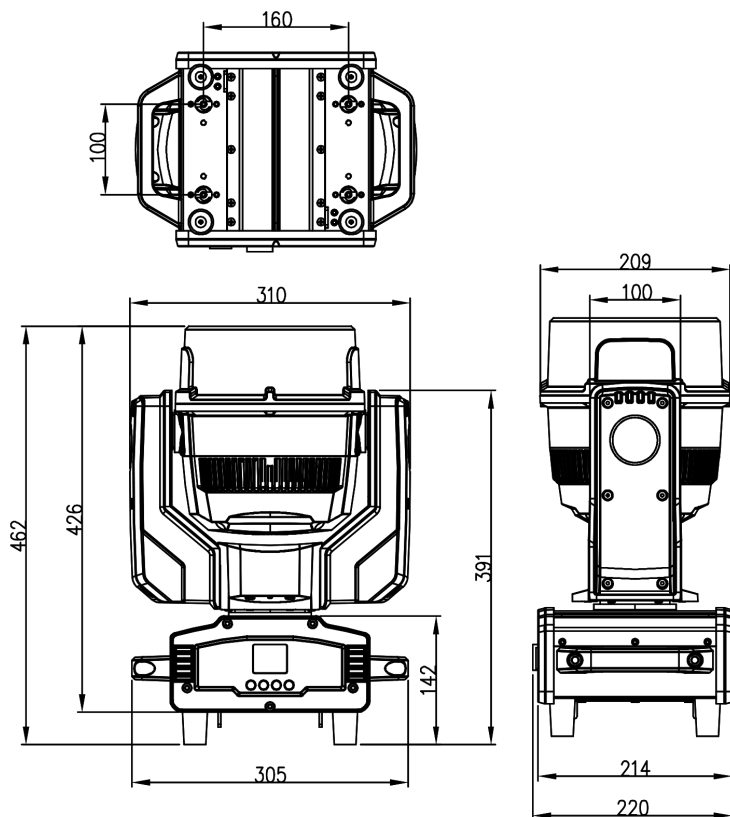
Fixture Cleaning

The outside of the lens must always be wiped so that the lighting effect is better. Wipe frequency according to the environment. Humidity, excessive smoke, and a particularly dirty environment can make the lens dusty.

- ➤ Use a soft cloth and special glass cleaner.
- ➤ Wipe the exterior of the lens at least every 30 days.
- ➤ Use vacuum cleaners or air guns inside the luminaire and clean it at least twice a year.
- ➤ Always be sure to dry all parts completely before plugging the unit back in.

Multiple Unit Power Linking

With this feature you can connect the fixtures to one another using the power-con input and output sockets. The maximum that can be connected is 3 fixtures @ 120V and 7 fixtures @ 240V. After the maximum connected fixtures you will need to use a new power outlet.

NOTE: USE WITH CAUTION WHEN POWER LINKING OTHER FIXTURES TO THE 740ZW AS THE POWER CONSUMPTION OF OTHER LIGHTING FIXTURES WILL VARY!

Fuse Replacement

Unplug the unit from any power source it may be connected to. Once the power has been disconnected, use a Phillips head screw driver to unscrew the fuse holder located next to the power-con input.
Remove the bad fuse and replace with a new one, and screw the fuse holder back in.