

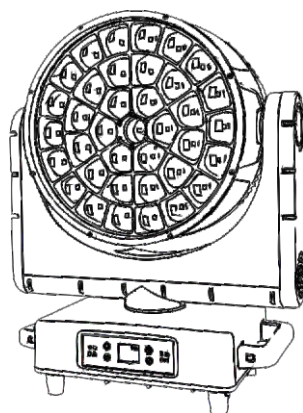


series



USER MANUAL

WashFX 2000 IP65 CRMX



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INTRODUCTION

We are glad that you have chosen the **Flash ART WashFX 2000 IP65 CRMX**,
thereby expanding your lighting equipment inventory.

We hope that this device will meet your expectations and inspire creativity
in your future lighting projects.

FOR SAFETY REASONS AND TO ENSURE TROUBLE-FREE OPERATION,
PLEASE READ THIS MANUAL CAREFULLY.

SAFETY INFORMATION



WARNING! The Led Moving Head (LMH) has a powerful pan and tilt motor. The torque reaction when the head is panned suddenly can cause the base to move if the fixture is standing unsecured on a surface. Do not apply power to the LMH unless the base is securely fastened to a surface or to rigging hardware.

WARNING! Use 2 clamps to rig the fixture. Do not hang the fixture from only one clamp. Use safety chain when fixing this fixture. Don't handle the fixture by taking its head only, but always by taking its base.



WARNING! When clamping the fixture to a truss or other structure at any other angle than with the yoke hanging vertically downwards, use two clamps of half-coupler type. Do not use any type of clamp that does not completely encircle the structure when fastened.

WARNING! Do not look directly at the light spot while the fixture is on.

IMPORTANT! Do not point strong light output from other fixtures at the lamp, as intense illumination can damage the display.



WARNING! Before operating, ensure that the voltage and frequency of power supply match the power requirements of the fixture. It's important to ground the yellow/green conductor to earth in order to avoid electric shock. Do not touch any wire during operation and there might be a hazard of electric shock. To prevent or reduce the risk of electrical shock or fire, do not expose the fixture to rain or moisture.

Do not connect the device to any dimmer pack.

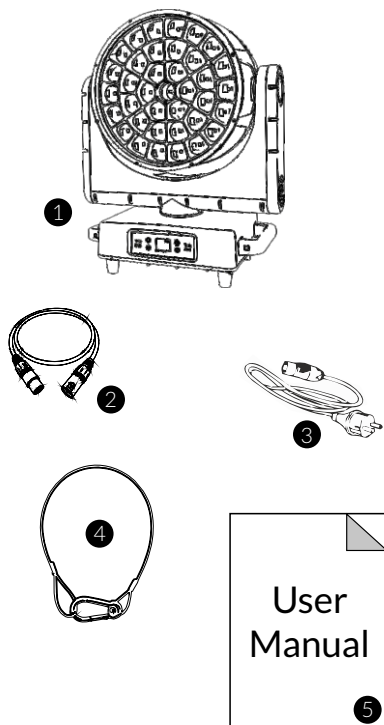
IMPORTANT! Unpack and check carefully there is no transportation damage before using the fixture. In the event of a serious operating problem, stop using the fixture immediately. Never try to repair the fixture by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts. Disconnect main power before servicing and maintenance. The housing must be replaced if it is visibly damaged.



IMPORTANT! Maximum ambient temperature is: 40°C. Don't operate it where the temperature is higher than this.

UNPACKING

The following item
are included inside the box:



- ① - ART WashFX 2000 IP65 (1pc)
- ② - DMX cable (1pc)
- ③ - powerCON TRUE1 cable (1pc)
- ④ - Sa fety cable (1pc)
- ⑤ - User manual (1pc)

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

INSTALLATION

The ART WashFX 2000 IP65 device has integrated mounting brackets for hanging the device on a structure. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. Always ensure 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 and has no one pass by or under it. flow above the ground. Rig the fixture to a support truss or structure using the supplied brackets and suitable clamps.

Fasten a safety cable between the support structure and the attachment point on the fixture. The safety cable must be able to bear at least 10 times the weight of the fixture.

The fixture may be installed in any orientation, but if installed horizontally with a downward beam-angle, water can potentially pool in the fan wells. Under normal operation the moisture will evaporate. However, in locations with high rainfall, you may wish to fabricate a rain shield above the fixture, or modify the position and orientation of the fixture to minimize pooling.

Regardless of which mounting option you have chosen for our device, always remember to secure the device with a security cable. The fixture provides a built-in security cable attachment point on the hanging bracket as shown above. Remember to only use the designated safety cable attachment point and never attach the safety cable to the carrying handle.

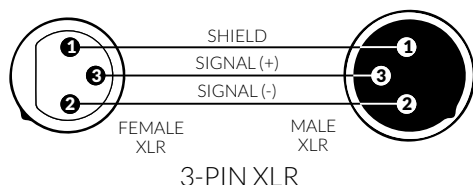
IMPORTANT: If any slack is detected between the hook and the device, immediately tighten the mounting screws or skip the device during installation.

CONNECTION

The device is equipped with the following interfaces:

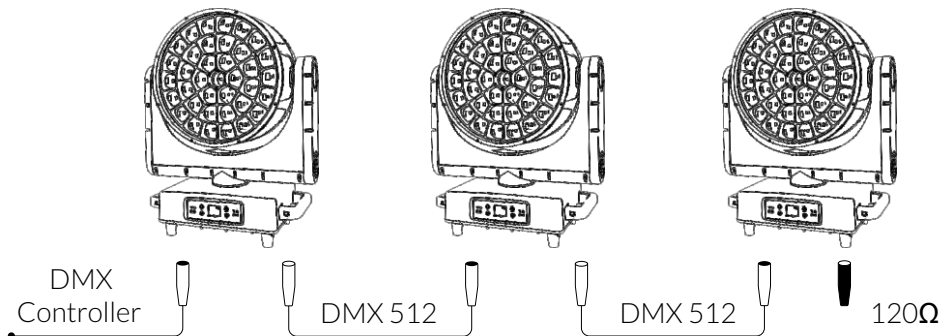
1. DMX (in/out): XLR 3-pin socket
2. Ethernet (in/out) EtherCON socket
3. Power (in/out): TrueCON socket

The connection is performed using cable with XLR-female -> XLR-Male plugs.

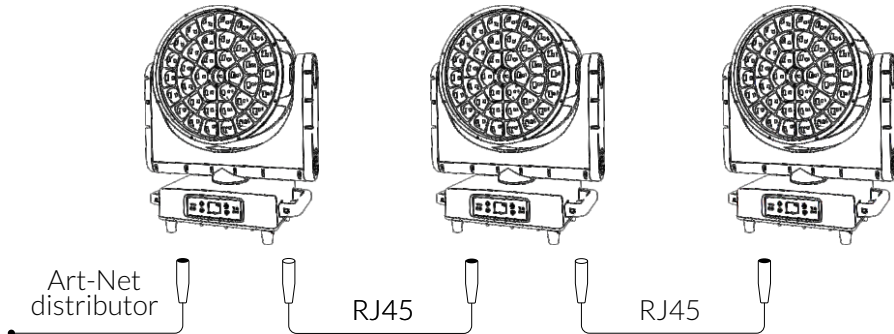


CAUTION! At the last fixture, the DMX signal has to be terminated with a terminator. Solder a 120Ω resistor between signal (-) and signal (+) into a XLR plug and plug it in the DMX output of the last fixture.

DMX Connection Diagram



Ethernet (RJ-45) Connection Diagram



The connection is performed using power cable with powerCON connector (included). The device must be operated by qualified personnel.

CAUTION! In the case of cable damage do not attempt to repair. Replacement or repair can be made only on the manufacturer or by a person with appropriate permissions

Using lamp, the change rate of power voltage should be within $\pm 10\%$, if the voltage is too high, it will shorten the light's life; if it's not enough, the lamp will be dark. Please restart it after turning off light for 20 minutes until full-cooling. Frequent switching will reduce the life span of lamps and bulbs; intermittent using will improve the life of bulbs and lamps.

IMPORTANT! The maximum number of devices connected in series via power cable is 3 pcs.

Voltage Specification

Input Voltage AC	Amperage	Frequency	Total Power
230 [V]	6.3 [A]	50 [Hz]	1450 [W]
110 [V]	13.2 [A]	60 [Hz]	

Set DMX Address

- Enter the MENU.
- The UP arrow changes the number. DOWN arrow moves forward.
- Press MENU to set DMX Address, and press ENTER to enter into.
- Set needed DMX Address using the UP and DOWN buttons.
- Set needed DMX mode.
- Set needed dimming curve.
- Press ENTER each time to confirm.
- Press the MENU to exit. The changes will be noticed after exiting the MENU.

W-DMX / CRMX linking

- Enter the MENU
- Change Running mode/Control to Wireles
- Set Settings/W-DMX unling YES to unlink present connection
- Press linking on your Transmitter
- If needed send signal thru DMX set Settings/W-DMX to DMX YES

Network Settings

- In the menu, navigate to NETWORK and press ENTER to access the network settings.
- Go to IP ADDRESS and set the required IP address for your network (Art-Net typically uses IP ranges 2.x.x.x or 10.x.x.x).
- Go to SUBNET MASK and set the appropriate subnet mask for your network.
- Remember that Art-Net universes are numbered starting from 0.

DMX CHART

21 / 22 / 35 / 36 CH mode

21CH	22CH	35CH	36CH	Function	DMX Value	Function
1	1	1	1	Red	0-255	Red
2	2	2	2	Red fine	0-255	Red fine
3	3	3	3	Green	0-255	Green
4	4	4	4	Green fine	0-255	Green fine
5	5	5	5	Blue	0-255	Blue
6	6	6	6	Blue fine	0-255	Blue fine
7	7	7	7	White	0-255	White
8	8	8	8	White fine	0-255	White fine
9	9	9	9	CTO	0-255	CTO
10	10	10	10	Macro color	0-255	Macro color
11	11	11	11	Strobe	0 - 3	Close
					4 - 103	Rule Strobe,slow to fast
					104 - 107	Open
					108 - 207	Pulse Strobe,slow to fast
					208 - 212	Open
					213 - 225	Random Strobe Slow Speed
					226 - 238	Random

						Strobe Middle Speed
					239 - 251	Random Strobe Fast Speed
					252 - 255	Open
12	12	12	12	Dimmer	0-255	Dimmer
13	13	13	13	Dimmer fine	0-255	Dimmer fine
14	14	14	14	Pan	0-255	Pan
15	15	15	15	Pan fine	0-255	Pan fine
16	16	16	16	Tilt	0-255	Tilt
17	17	17	17	Tilt fine	0-255	Tilt fine
18	18	18	18	Function	0-102	Empty
					103-105	Turn on pixel mode
					110-114	Turn off color correction
					115-119	Turn on color correction
19	19	19	19	Reset	0-199	Empty
					200-205	Reset (after 5 second)
					206-255	Empty
20	20	20	20	Zoom	0-255	Zoom
21	21	21	21	Zoom Rotation	0-255	Zoom Rotation
		22	22	Shape Selection	0-255	Shape Selection

		23	23	Shape Speed	0-255	Shape Fade
		24	24	Shape Fade	0-255	Shape Speed
		25	25	Shape Red	0-255	Shape Red
		26	26	Shape Green	0-255	Shape Green
		27	27	Shape Blue	0-255	Shape Blue
		28	28	Shape White	0-255	Shape White
		29	29	Shape Dimmer	0-255	Shape Dimmer
		30	30	Backgro und Dimmer	0-255	Background Dimmer
		31	31	Shape Transiti on	0-255	Shape Transition
		32	32	Shape Offset	0-255	Shape Offset
		33	33	Foregro und Strobe	0-4	Close
					5-103	Rule Strobe,slow to fast
					104-107	Open
					108-207	Pulse Strobe,slow to fast
					208-255	Open
		34	34	Backgro und Strobe	0-4	Close
					5-103	Rule Strobe,slow

						to fast
					104-107	Open
					108-207	Pulse Strobe,slow to fast
					208-255	Open
		35	35	Backgro und Select	0-255	Background Select
	22		36	Frequen cy	0-9	Default selection
					10-49	1K
					50-99	10K
					100-149	15K
					150-199	20K
					200-255	25K

111 / 148 CH mode (Pixel Mode)

Selecting 111CH or 148CH enables the Pixel Mapping function, allowing individual control of each pixel.

The 111CH mode provides pixel control in RGB, while the 148CH mode enables control in RGBW.

Pixel Mapping Activation: Set Channel 18 to a value between 103–105. If the value on Channel 18 is outside this range, the Pixel Mapping channels remain inactive.

111CH	148CH	Function	DMX Value	Function
1	1	Red	0-255	Red
2	2	Red fine	0-255	Red fine
3	3	Green	0-255	Green
4	4	Green fine	0-255	Green fine
5	5	Blue	0-255	Blue
6	6	Blue fine	0-255	Blue fine
7	7	White	0-255	White
8	8	White fine	0-255	White fine
9	9	CTO	0-255	CTO
10	10	Macro color	0-255	Macro color
11	11	Strobe	0 - 3	Close
			4 - 103	Rule Strobe,slow to fast
			104 - 107	Open
			108 - 207	Pulse Strobe,slow to fast
			208 - 212	Open
			213 - 225	Random Strobe Slow Speed
			226 - 238	Random Strobe Middle Speed
			239 - 251	Random Strobe Fast Speed
			252 - 255	Open

12	12	Dimmer	0-255	0-100 Dimmer
13	13	Dimmer fine	0-255	Dimmer fine
14	14	Pan	0-255	Pan
15	15	Pan fine	0-255	Pan fine
16	16	Tilt	0-255	Tilt
17	17	Tilt fine	0-255	Tilt fine
18	18	Function	0-102	Empty
			103-105	Turn on pixel mode
19	19	Reset	0-199	Reset
			200-205	
			206-255	
20	20	Zoom	0-255	Zoom
21	21	Zoom Rotation	0-255	Zoom Rotation
22	22	Red1	0-255	Red1
23	23	Green1	0-255	Green1
24	24	Blue1	0-255	Blue1
...	25	White1	0-255	White1
...	...	...	...	...
109	145	Red37	0-255	Red37
110	146	Green37	0-255	Green37
111	147	Blue37	0-255	Blue37
	148	White37	0-255	White37

MENU OVERVIEW

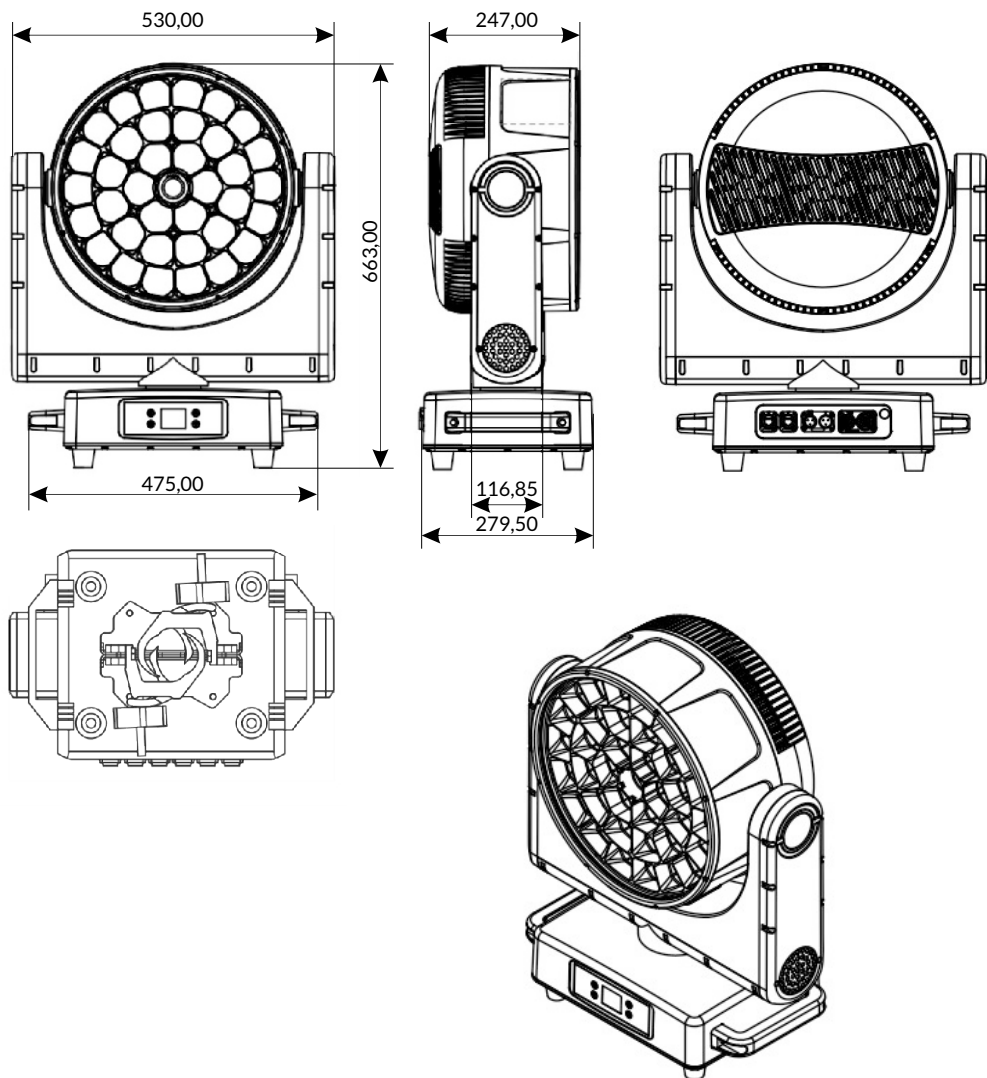
Main Menu	Second	Third
Dmx Address	000 - 512	
Fixture	DMX Mode	21CH/22CH/35CH/36CH
	Pixel Mode	Close/111CH/148CH
	Run Mode	DMX / Host / Sound
	Pan Invert	Close / Open
	Tilt Invert	Close / Open
	Zoom Invert	Close / Open
	No Signal	Clear / Hold
	Fan Control	Auto / Silent / High
	Auto Test	
	Frequency	1K/10K/15K/20K/25K
	Sound Sensitivity	00 -- 99
Manual	Manual test	
Information	Time	Current Time
		Total Time
		Power Count
	Sensor	All Sensors are ok! / Pan、Tilt、Zoom.....
	Temperature	Head Temp/Bottom Humi
	Software Version	Panel
		Motor
		Dimmer1
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	OFF / Run
	Factory	OFF / Run
Display	Language	CH / EN
	Display Flip	OFF / ON
	Display Mode	60s / Show



DRAWINGS

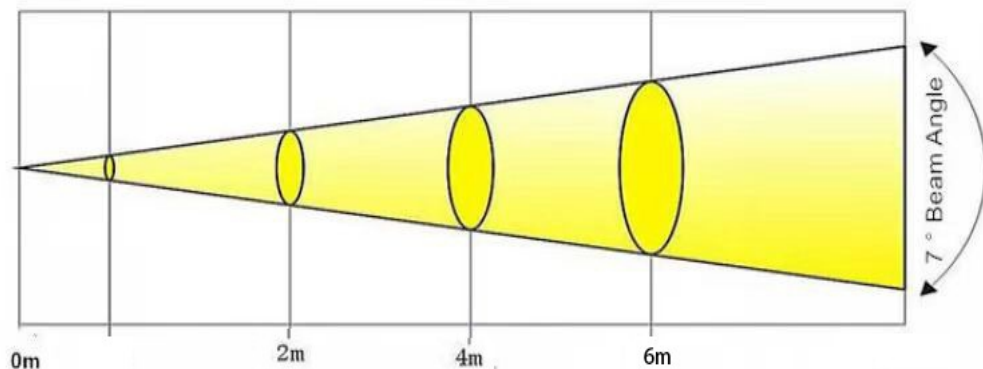
DIMENSIONS [mm]



PHOTOMETRICS

LUX Data of 7 degree beam angle

R 31000 lux @ 2m 18600 lux @ 4m 8500 lux @ 6m
G 56000 lux @ 2m 35000 lux @ 4m 16300 lux @ 6m
B 90000 lux @ 2m 63500 lux @ 4m 30000 lux @ 6m
W 83000 lux @ 2m 59000 lux @ 4m 27600 lux @ 6m
RGBW 158000 lux @ 2m 118500 lux @ 4m 72000 lux @ 6m



SPECIFICATION

- Light Source: 37 × 40W high power RGBW 4-in-1 LEDs
- Power consumption: 1450W
- Power supply voltage: AC 100–240V, 50/60Hz
- PAN range: 540° (16-bit)
- TILT range: 250° (16-bit)
- Zoom: 5°–23° (Beam) / 5°–35° (Field)
- Strobe: 0–25 Hz
- Dimmer: 0–100% linear dimming with 4 dimmer curves
- Individual pixel control
- Honeycomb designed lens
- Infinite front lens rotation (forward & reverse) – kaleido effects
- Can be used as beam, wash or effect light
- Operating modes: DMX512, Sound-activated, Master/Slave
- DMX channel modes: 21 / 22 / 35 / 36 / 111 / 148 CH
- Pixel mapping available (111CH / 148CH modes)
- Display: LCD display with touch buttons
- Temperature control: Intelligent cooling system with automatic fan speed and overheat protection
- IP Rating: IP65
- Housing material: Aluminium
- AC Input/Output - TrueCON
- 3-Pin XLR DMX Input/Output (IP65)
- Ethernet Input/Output - EtherCON(IP65)
- Net Weight: 32.2 kg
- Dimensions: 530 × 279 × 663 mm



FLASH

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