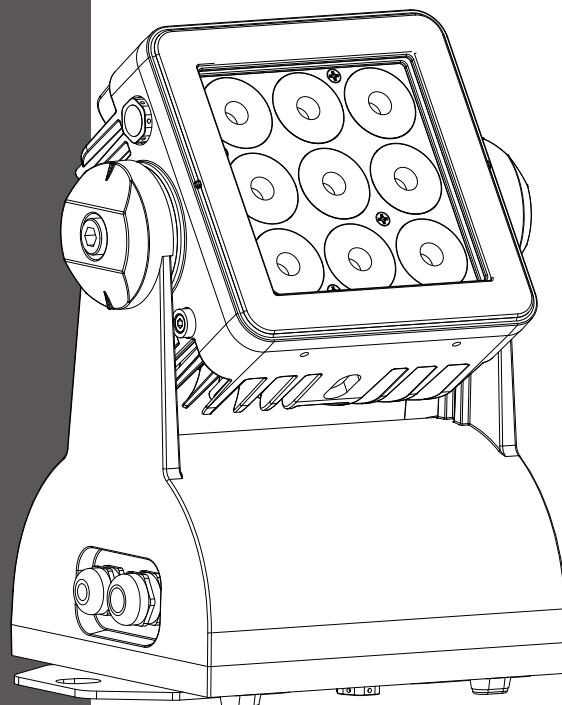


CKC

ARC W100



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Before carrying out any installation, maintenance, or cleaning of the lighting fixtures, please confirm that the power has been cut off! Before using this fixture, please read this manual. Our company reserves the right to change product design and specifications without prior notice.

CONTENTS

1. Security Warning Information	1
2. Product Introduction	3
2.1 Exterior dimensions	3
2.2 Fixture packaging accessories	3
3. Main technical parameters of the equipment	3
4. Packaging and transportation	4
4.1 Disassemble packaging	4
4.2 Equipment installation	4
5. Installation Requirements Explanation	4
6. Power and signal connection	5
6.1 Power and signal socket	5
6.2 Power Connect	5
6.3 Signal Connect	6
7. DMX control channel table	6
8. Control circuit diagram	9
9. Regular maintenance	9
9.1 Cleaning and maintenance	9
9.2 Fault analysis and handling	10

★ Statement ★

- This manual contains important information on safe use and installation. Please read it carefully and follow the requirements for operation and installation. Please keep this manual properly;
- The equipment has good performance and complete packaging when it leaves the factory. The operator should strictly follow the warning items and operating instructions stated in the manual. Any malfunction or damage caused by misuse or neglect of the manual is not within the scope of our company's responsibility and warranty;
- The relevant information in this manual is for reference only. All lighting products are subject to the actual product. Any changes will not be notified separately, and our company reserves the right of final interpretation.

1. Security Warning Information



Attention !

Please read the safety requirements information in this section carefully before installing, powering on, operating, or repairing the lighting fixtures.



- This product is for professional use and is not suitable for other purposes;
- After receiving the lighting fixtures, please check if the packaging is complete and unpack to check if the equipment has been damaged due to transportation. If there is any damage caused by transportation, please do not use this lamp and contact local technicians or manufacturers as soon as possible;
- When transporting again, please use the original packaging materials;
- If there is obvious damage to the machine casing, it should be replaced in a timely manner;
- When hanging lamps, it is necessary to verify that the hanging equipment can withstand more than 6 times the weight of the lamp. After installation, it is necessary to verify that the lamp cover and installation buckle are secure and undamaged. At the same time, a safety rope should be used as an auxiliary safety for the lamp and fixed on the truss;
- The light source inside this luminaire should be replaced by the manufacturer, its service agent, or a similarly qualified person;
- If you have any other questions about how to safely operate the equipment, please contact our technical personnel or call our service hotline;
- This product has a protection level of IP65 and can be used both indoors and outdoors;



- Lighting fixtures should be kept clean and avoid prolonged use in overheated or dusty environments to prevent contact with chemical liquids;
- When using the product, attention should be paid to avoiding serious or fatal injuries caused by fire, heat, electrical shock, and ultraviolet radiation. Before powering on or installing, read the instruction manual first. Follow the safety precautions for operation and pay attention to the warning signs on the instructions and equipment;
- Only professionals are allowed to install, operate, and maintain lighting fixtures, and strictly follow the procedures stated in the operating instructions.



- The eyes cannot directly look at the luminous object;
- Do not connect this device to any dimmer;
- If visible damage occurs to the protective casing, lens, and display screen on the lighting fixture, it is considered as damage to the point of loss;
- Please do not place any filters or other items at the light outlet, and do not replace non original parts;
- The minimum safe illumination distance of the lamp is 1m.



- Before installation, please confirm that the power supply voltage used matches the voltage indicated on the light fixture. Each lighting fixture should be properly grounded and electrically installed according to relevant standards;
- Please disconnect the power before repairing or cleaning the equipment;
- During the operation of the lighting fixtures, touching the wires is prohibited to prevent electric shock;
- If the external soft cable or wire of this lamp is damaged, the wire should be replaced by the manufacturer, its agent, or a similarly qualified person to avoid danger;
- Avoid flammable liquids, water, or metal conductors from entering the interior of the lamp to prevent electric shock or fire. If any foreign objects enter the lamp, immediately cut off the power supply;
- When multiple lamps are operated in series, the signal lines can be connected in multiple ways, but the power supply must be connected separately.



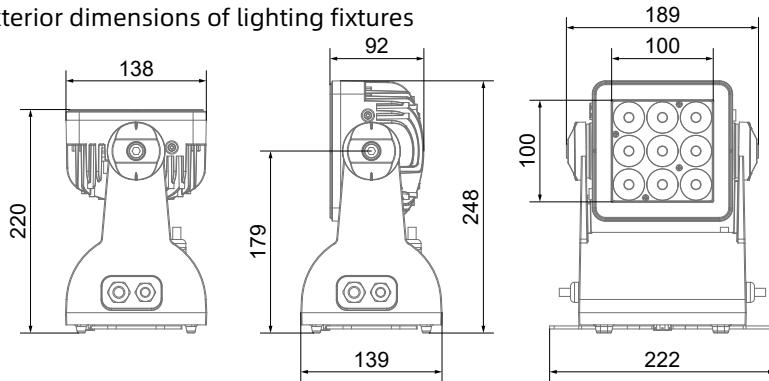
- The lighting fixtures work normally at -20 °C to 45 °C . When replacing any components or accessories in the equipment, ensure that the power is disconnected to prevent electric shock and injury;
- The maximum surface temperature of the lamp during operation can reach 72 °C , please do not touch it with bare hands.



- The lighting fixtures must be installed in a sufficiently ventilated area, at least 0.5m away from adjacent surfaces, to ensure that no ventilation holes are blocked;
- Do not install the lighting fixtures directly on flammable objects;
- The minimum distance between all outer surfaces of the lamp and combustible materials is 0.5m.

2. Product Introduction

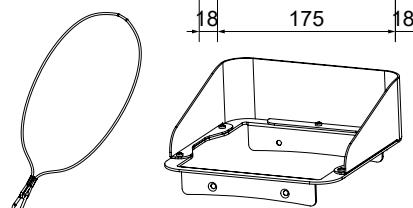
2.1 Exterior dimensions of lighting fixtures



222 × 138 × 248 mm

2.2 Packaging accessories

Name	QTY
Safety cable	1 PCS
Snoot	1 PCS



3. Main technical parameters of the equipment

Product execution standards: GB7000.1-2023, GB7000.217-2023, Q/YF-2017

● Electrical parameter

Rated input voltage: AC 100V-240V~ 50Hz/60Hz
 Rated power: 115 W
 Power factor: 0.895F
 Input Current: 1.28A 220V

● Source lifespan

> 20000 hours

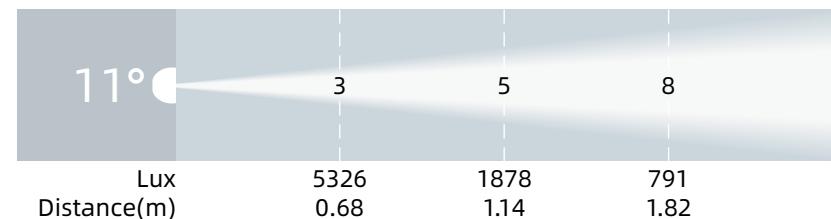
● Optical system

Source: 9 × 20W RGBL LED
 Output luminous flux: 3400 Lm
 Beam angel: 11°
 Field angle: 20°

● Control and programming

Control channel: 8CH/14CH
 Protocol: DMX512, RDM
 Data connect: 3 pin signal in/out

● Illumination draw



● Other effect function

Fast electronic strobe: 1~25Hz

● Other features and functions

Weight: 4.4 KG

4. Packaging and transportation

4.1 Disassemble packaging

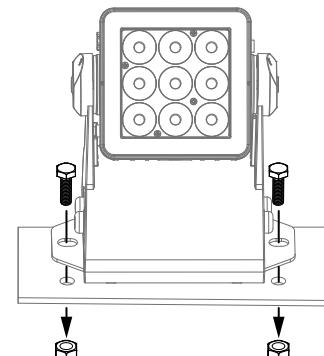
 Notice: After receiving the fixture, please unpack and check for any damage caused by transportation. If there is any damage caused by transportation, please do not use this fixture and contact the local technical personnel or manufacturer as soon as possible.

4.2 Equipment packaging

- 1). Disconnect the power supply before packaging the lighting fixtures to allow them to cool completely;
- 2). Flight cases can only be stacked in two layers and are not allowed to be reversed.

5. Installation Requirements Explanation

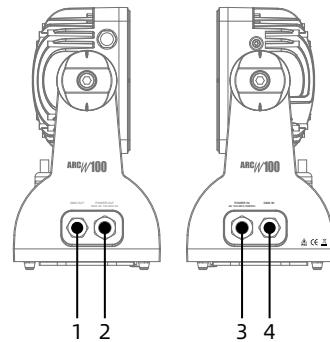
The fixture is fixed to the floor or platform using two screws that pass through the mounting holes on the base plate



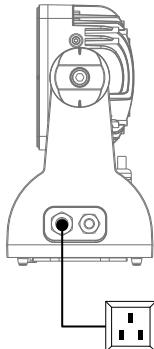
6. Power、Signal connect

6.1 Power and signal socket

1. DMX output
2. Power output
3. Power input
4. DMX output



6.2 Power connect



This product uses Powercon In/Out to connect power cords. Due to power limitations, a 2 square meter power cord can carry up to 17 products at 220V and 9 products at 110V.

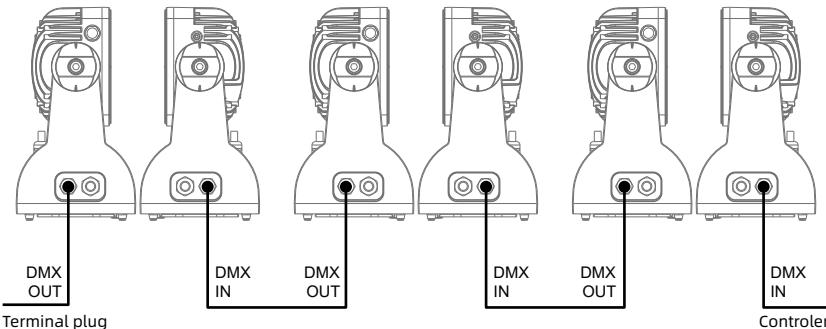
Warning !

- Do not connect too many fixtures or overload a single power cord;
- Do not use power cords with damaged insulation layers, and do not place power cords on other wires;
- When the fixture is not in use or cleaned, please unplug the power cord; Do not forcefully unplug or drag the power cord directly.

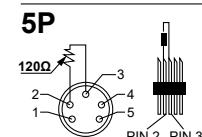
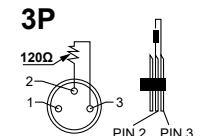
6.3 Signal connect



The lighting fixtures are equipped with standard DMX XLR input and output sockets. Please use DMX512 shielded twisted pair signal cables or Category 3/5 or above network twisted pair cables for connection. The typical connection distance for DMX signal lines is 150 meters. When transmitting signals over long distances, a DMX512 signal amplifier must be added.



Connect a shielded twisted pair signal cable from the DMX output port of the controller to the DMX input port of the first device, and from the DMX output port of the first device to the DMX input port of the second device, and so on, until all the lamps are connected. Then install a terminal plug on the last 3 pin socket of each connected lamp output. (Weld a 4/1W, 120 Ω resistor between the 2 and 3 pins of a 3 or 5 core pin XLR plug).



7. DMX channel table:

8CH	14CH	Value	Function
1	1		Strobe
		0-31	Closed
		32-63	Open
		64-95	Strobe (slow → fast)
		96-127	Open
		128-159	Pulse (slow → fast)
		160-191	Open
		192-223	Random (slow → fast)
		224-255	Open

	2	Master Intensity	
	0-255	Close → Open	
	3	Master Intensity Fine	
	0-255	Close → Open	
	4	Dim Modes	
	0-20	Halogen	
	21-40	LED	
	41-255	No Function	
	5	Control	
	0-100	Idle	
	101-200	Idle	
	201-210	Dimmer Curves	
	211-220	Dimmer Curve Linear (default)	
	221-230	Dimmer Curve Square	
	231-240	Dimmer Curve Inverse Square	
	241-255	Dimmer Curve S-Curve	
	255	Idle	
	6	Color Macros	
	0-255	Macro(1 → 64)	
1	7	Red	
2	8	0 → 100%	
3	9	Red Fine	
4	10	0 → 100%	
5	11	Green	
6	12	0 → 100%	
7	13	Green Fine	
8	14	0 → 100%	
		Blue	
		0 → 100%	
		Blue Fine	
		0 → 100%	
		Lime	
		0 → 100%	
		Lime Fine	
		0 → 100%	

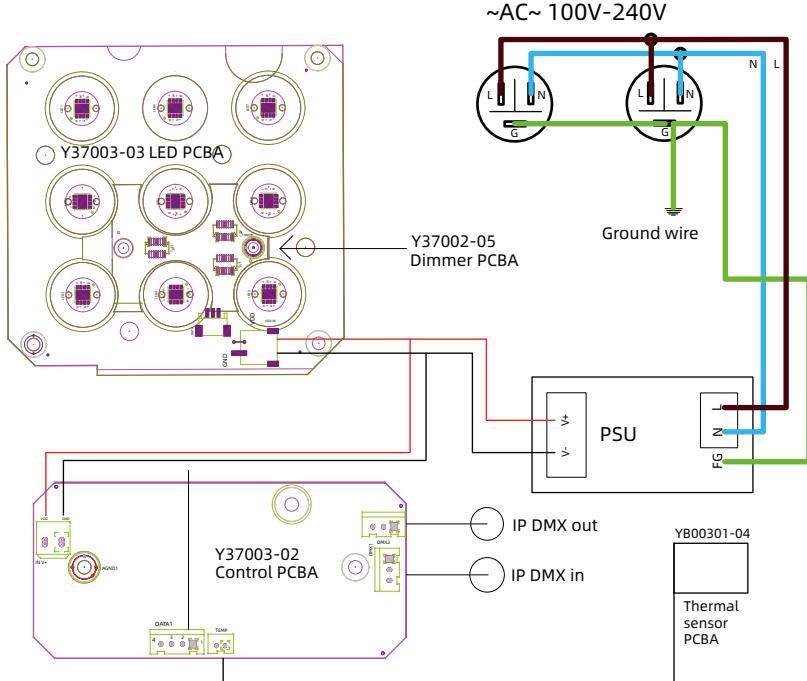
Color macro

1,DMXVALUES1-4	2,DMX VALUES 5-8	3,DMX VALUES 9-12	4,DMX VALUES 13-16
Red = 80	Red = 80	Red = 77	Red = 117
Green = 255	Green = 255	Green = 255	Green = 255
Blue = 234	Blue = 164	Blue = 112	Blue = 83
L = 80	L = 80	L = 77	L = 83
5,DMX VALUES 17-20	6,DMX VALUES 21-24	7,DMX VALUES 25-28	8,DMX VALUES 29-32
Red = 160	Red = 223	Red = 255	Red = 255
Green = 255	Green = 255	Green = 243	Green = 200
Blue = 77	Blue = 83	Blue = 77	Blue = 74
L = 77	L = 83	L = 77	L = 74

9,DMX VALUES 33-36	10,DMX VALUES 37-40	11,DMX VALUES 41-44	12,DMX VALUES 45-48
Red = 255	Red = 255	Red = 255	Red = 255
Green = 166	Green = 125	Green = 97	Green = 71
Blue = 77	Blue = 74	Blue = 77	Blue = 77
L = 77	L = 74	L = 74	L = 71
13,DMX VALUES 49-52	14,DMX VALUES 53-56	15,DMX VALUES 57-60	16,DMX VALUES 61-64
Red = 255	Red = 255	Red = 255	Red = 238
Green = 83	Green = 93	Green = 96	Green = 93
Blue = 134	Blue = 182	Blue = 236	Blue = 255
L = 83	L = 93	L = 96	L = 93
17,DMX VALUES 65-68	18,DMX VALUES 69-72	19,DMX VALUES 73-76	20,DMX VALUES 77-80
Red = 196	Red = 150	Red = 100	Red = 77
Green = 87	Green = 90	Green = 77	Green = 100
Blue = 255	Blue = 255	Blue = 255	Blue = 255
L = 87	L = 90	L = 77	L = 77
21,DMX VALUES 81-84	22,DMX VALUES 85-88	23,DMX VALUES 89-92	24,DMX VALUES 93-96
Red = 67	Red = 77	Red = 77	Red = 158
Green = 148	Green = 195	Green = 234	Green = 255
Blue = 255	Blue = 255	Blue = 255	Blue = 144
L = 67	L = 77	L = 77	L = 144
25,DMX VALUES 97-100	26,DMX VALUES 101-104	27,DMX VALUES 105-108	28,DMX VALUES 109-112
Red = 255	Red = 255	Red = 255	Red = 255
Green = 251	Green = 175	Green = 138	Green = 147
Blue = 153	Blue = 147	Blue = 186	Blue = 251
L = 153	L = 147	L = 138	L = 147
29,DMX VALUES 113-116	30,DMX VALUES 117-120	31,DMX VALUES 121-124	32,DMX VALUES 125-128
Red = 151	Red = 99	Red = 138	Red = 255
Green = 138	Green = 0	Green = 169	Green = 255
Blue = 255	Blue = 255	Blue = 255	Blue = 255
L = 138	L = 100	L = 138	L = 255
33,DMX VALUES 129-132	34,DMX VALUES 133-136	35,DMX VALUES 137-140	36,DMX VALUES 141-144
Red = 255	Red = 254	Red = 254	Red = 254
Green = 206	Green = 177	Green = 192	Green = 165
Blue = 143	Blue = 153	Blue = 138	Blue = 98
37,DMX VALUES 145-148	38,DMX VALUES 149-152	39,DMX VALUES 153-156	40,DMX VALUES 157-160
Red = 254	Red = 176	Red = 96	Red = 234
Green = 121	Green = 17	Green = 0	Green = 139
Blue = 0	Blue = 0	Blue = 11	Blue = 171
41,DMX VALUES 161-164	42,DMX VALUES 165-168	43,DMX VALUES 169-172	44,DMX VALUES 173-176
Red = 224	Red = 175	Red = 119	Red = 147
Green = 5	Green = 77	Green = 130	Green = 164
Blue = 97	Blue = 173	Blue = 199	Blue = 212
45,DMX VALUES 177-180	46,DMX VALUES 181-184	47,DMX VALUES 185-188	48,DMX VALUES 189-192
Red = 88	Red = 0	Red = 0	Red = 52
Green = 2	Green = 38	Green = 142	Green = 148
Blue = 163	Blue = 86	Blue = 208	Blue = 209
49,DMX VALUES 193-196	50,DMX VALUES 197-200	51,DMX VALUES 201-204	52,DMX VALUES 205-208
Red = 1	Red = 0	Red = 255	Red = 0
Green = 134	Green = 145	Green = 0	Green = 255
Blue = 201	Blue = 212	Blue = 0	Blue = 0

53,DMX VALUES 209-212	54,DMX VALUES 213-216	55,DMX VALUES 217-220	56,DMX VALUES 221-224
Red = 0	Red = 0	Red = 1	Red = 0
Green = 83	Green = 97	Green = 100	Green = 40
Blue = 115	Blue = 166	Blue = 167	Blue = 86
57,DMX VALUES 225-228	58,DMX VALUES 229-232	59,DMX VALUES 233-236	60,DMX VALUES 237-240
Red = 209	Red = 42	Red = 0	Red = 8
Green = 219	Green = 165	Green = 46	Green = 107
Blue = 182	Blue = 85	Blue = 35	Blue = 222
61,DMX VALUES 241-244	62,DMX VALUES 245-248	63,DMX VALUES 249-252	64,DMX VALUES 253-255
Red = 107	Red = 165	Red = 0	Red = 0
Green = 156	Green = 198	Green = 0	Green = 0
Blue = 231	Blue = 247	Blue = 255	Blue = 0
			L = 255

8. Control circuit diagram



9. Regular maintenance

9.1 Cleaning and maintenance

Lighting fixtures require daily cleaning and maintenance, and their service life largely depends on the operating environment and standards. If you have any questions, please consult our technical engineers for advice. Maintenance and repair work not included in this book should be entrusted to our qualified technical engineers.



Attention! Damage caused by dust, e-liquid, or other reasons, as well as abnormal use, is not covered by the warranty.



Warning !

Before opening any lid, disconnect the power supply. Cleaning optical components requires gentle wiping as the coating surface is prone to scratching. Do not use damaging liquids or hard objects, as they may damage the plastic or coating surface.

- When the lens is cracked or otherwise damaged, it should be replaced in a timely manner;
- When the brightness significantly decreases, the LED may have reached its expiration date and should be replaced in a timely manner;
- When the fixture cannot start, please check if the fixture power fuse is blown. If it is blown, a fuse of the same specification must be used for installation;
- The fixture is equipped with a temperature protection device. When the temperature is too high, the protection device will automatically reduce power.
- When this situation occurs, please check whether the fan is running normally, whether the fan and fan mesh are clogged with dust, identify the fault and repair it before starting the fixture. Please note that only qualified technicians are allowed to carry out maintenance work;
- To maintain smooth movement of the focusing lens, it is recommended to lubricate the guide rail of the focusing lens every three months. Excellent and high-temperature resistant lubricating grease should be used, and excessive grease should not be used as it can easily dirty adjacent components.

9.2 Fault analysis and handling

Fault description	Analysis	Processing method
No action after power on	Check if the power switch is turned on	Turn on
	Check if the fuse is blown	Replace
	Check if the output of PSU is normal	Detecting voltage
	Check if poor contact in the internal circuit	Reconnect
Uncontrolled lighting fixtures	Check if the DMX signal cable is connected correctly (If there is no signal, the display screen will flash)	Reconnect or replace
	Check if the address code is correct and if the DMX mode of the lighting fixture matches the settings	Reconfirm
	The main control PCB is damaged	Replace

Not bright	LED aging or damage	Replace
	Power PCB malfunction	Check/ Replace
	Loose or poor contact of the circuit	Reconnect
	PSU malfunction	Replace
Automatically turn off or dim the lights	LED aging	Replace
	The temperature control switch is damaged	Replace
Weak light efficiency and uneven light spot	LED aging	Replace
	The optical mirror has accumulated dust or stains	Clean
	The optical mirror is damaged	Replace
Impure color	Weakening of light efficiency	Replace led PCB
	The color filter has accumulated dust or stains	Clean
	The color filter has been demolded or damaged	Replace



Attention! The above analysis is for abnormal reference only. Non professionals are not allowed to disassemble and repair the machine