



LEAHUA



Stellar 18

LH-ST1810

This manual contains important information.
Please read before operating fixture.

Guangzhou Leahua Lighting Technology Ltd
[http:// www.leahualighting.com](http://www.leahualighting.com)

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Accessories

Name	Quantity	Remark
User manual	1pc	
Folding clamp	1set	
Power cable	1pc	
DMX signal cable	1pc	
Safety cord	1pc	Optional

1. Safety Instructions

WARNING!!! To reduce the risk of fire, electric shock, or injury to persons, follow these important safety instructions:

- Check before use

Before operation, inspect the fixture for transportation damage. Do not use it if damaged. Unauthorized modification or improper use is not covered by warranty.

- Environment

The fixture is IP65-rated, suitable for indoor/outdoor use, and can operate in humid or dusty areas. Keep it away from excessive heat, fire, vibration, electrical surges, and strong light.

- Personnel & operation

Installation and operation must be performed by qualified personnel. Ensure all covers are securely in place, wear protective gear, and do not open the housing or attempt self-maintenance.

- Optical safety

Do not look directly into the light source. Do not use with dimmer packs. Maintain a minimum distance of 20 m from illuminated surfaces, and replace damaged optical components immediately.

- Electrical safety

Ensure correct voltage, proper grounding, and compliant power cords. Do not use damaged cables, and unplug by holding the plug. Avoid operating under heavy rain or extreme humidity, and avoid frequent on/off switching.

- Installation

Use the safety cord through the provided safety holes. Keep at least 50 cm ventilation clearance and do not mount on flammable surfaces or aim the beam at combustible objects (minimum 20 m).

- Temperature & normal conditions

Housing temperature may reach 45 – 75° C during operation. Slight smoke or odor may occur at first ignition and is considered normal.

2. Technical Specifications

Power

Input Voltage: AC110-240 V, 50/ 60 Hz

Power Consumption: 200W

Light source

Light Source: 18×10W RGBW LED

Beam Angle

Beam Angle: 20°

Field Angle: 38°

Control

Control mode: DMX512, master-slave, auto, sound

Channel: 4/ 8CH

Dimming/Strobe

Dimming: 0-100% linear dimming system

Strobe: Strobe speed adjustable

Housing

Housing: Aluminum

Protection rate: IP65

Working temperature

Working temperature: -10°C-45°C

Connection

Power connection: Powercon in/out

DMX connection: DMX 3-pin in/ out

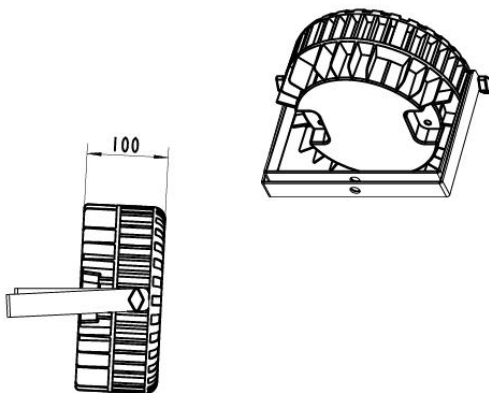
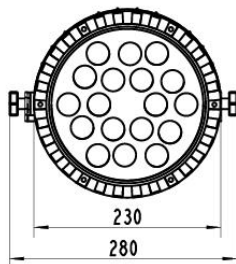
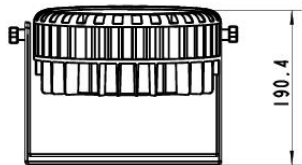
Product dimensions

280×100×190.4mm

Net weight

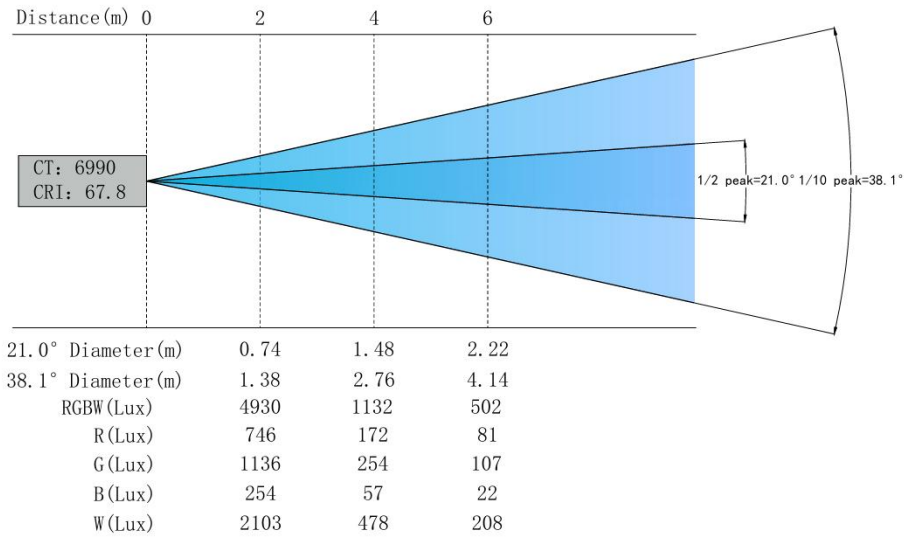
3.65kg

Dimensions:



Light output:

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3. Operation

No	Show	Function	Instruction
1	A001	DMX Address (001~512)	DMX-512 address set, 8 Channels mode
2	d001	DMX Address (001~512)	DMX-512 address set, 4 Channels mode
3	r255	Red	UP、DOWN Change brightness
		(000~255)	
4	G255	Green	UP、DOWN Change brightness
		(000~255)	
5	b255	Blue	UP、DOWN Change brightness
		(000~255)	
6	u255	white	UP、DOWN Change brightness
		(000~255)	
7	FH99	Strobe flash	UP、DOWN Change the speed
		(01~99)	
8	CL01	Different Colors Output (01~08)	UP、DOWN Change brightness
9	CC99	Colors Jump Change	UP、DOWN Change the speed
		(01~99)	
10	DE99	Colors Gradate	UP、DOWN Change the speed
		(01~99)	
11	CP99	Colors Pulse Change (01~99)	UP、DOWN Change the speed
12	SU01	Colors sound-Active (01~09)	UP、DOWN Change the effects

4. DMX Protocol

4CH	8CH	Display	Function
	CH1	Dimmer	R、G、B、W dimmer : from dark to bright
CH1	CH2	R dimmer	R dimmer : from dark to bright
CH2	CH3	G dimmer	G dimmer : from dark to bright
CH3	CH4	B dimmer	B dimmer : from dark to bright
CH4	CH5	W dimmer	W dimmer: from dark to bright
	CH6	Strobe	R、G、B、W strobe: from slow to fast
	CH7	Function choice	0~50: DMX 8CH Control.
			51~ 100: Different Colors Output 101~150: Colors Jump Change.
			151~200: Colors Gradate.
			201~250: Colors Pulse Change.
			251~255: Sound-Active
	CH8	Function speed	Speed function, from slow to fast

5. Maintenance & Cleaning

Regular maintenance is essential to ensure optimal performance and extend the service life of the fixture.

5.1 Cleaning

Disconnect the unit from power before any cleaning work.

Use a soft, lint-free cloth slightly dampened with mild detergent to clean the exterior surfaces.

Gently remove dust from ventilation slots, optical lenses, and cooling components using compressed air or a soft brush.

Avoid using solvents, alcohol, or abrasive materials that may damage the housing or optical elements.

5.2 Lubrication

This fixture is designed with sealed or maintenance-free moving parts.

Under normal operating conditions, no additional lubrication is required.

If abnormal noise or movement resistance is observed, contact qualified service personnel before applying any lubricant.

5.3 Troubleshooting

If the fixture does not power on, verify the power supply, cables, and connectors.

For control issues, check DMX addressing, cable integrity, and ensure proper 3-pin/5-pin XLR connections.

Overheating or unexpected shutdown may indicate blocked ventilation; inspect and clean air inlets and outlets.

If problems persist after basic checks, discontinue use and contact authorized service technicians.



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