



Stellar H

LH-ST18

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

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Accessories

Name	Quantity	Remark
User manual	1pc	
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 IP20-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: 180W

Light source

Light Source: 18×10W RGBWA+UV LED

Life Expectancy: About 20000 hours (factory rated)

Beam Angle

Beam Angle: 20°

Field Angle: 40°

Control

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

Channel: 6/ 10CH

Dimming / Strobe

Dimming: 0-100% linear dimming system

Strobe: Strobe speed adjustable

Housing

Housing: Aluminum alloy

Protection rate: IP20

Working temperature

Working temperature: -10°C-45°C

Connection

Power connection: Powercon in/out

DMX connection: DMX 3-pin in/ out

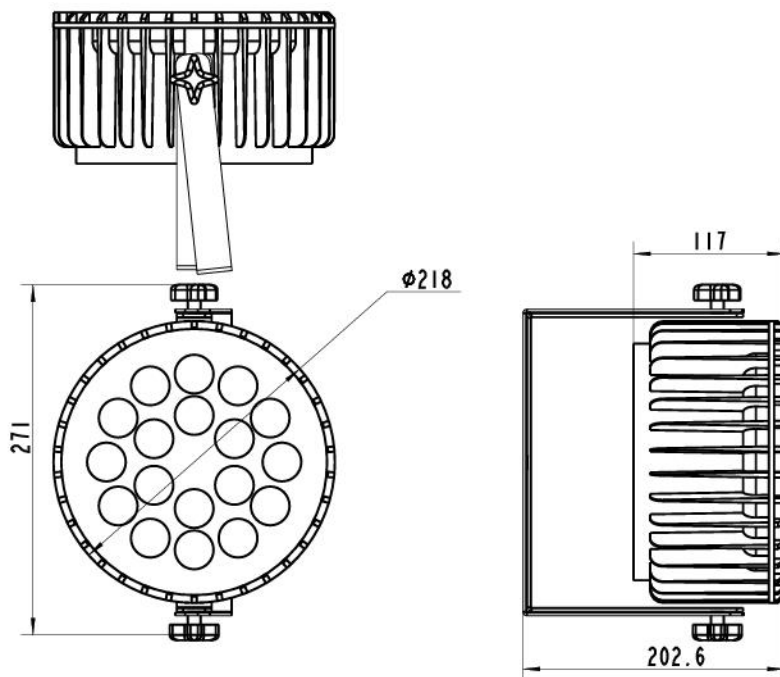
Product dimensions

271×218×202.6mm

Net weight

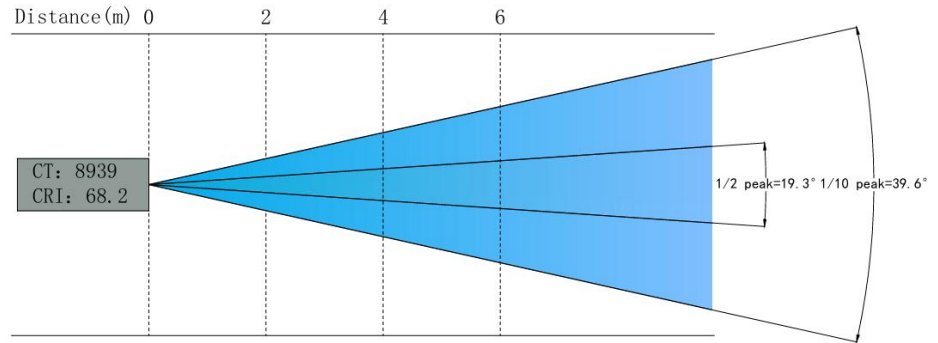
2.36kg

Dimensions:



Light output:

Stellar H



19.3° Diameter (m)	0.68	1.36	2.04
39.6° Diameter (m)	1.44	2.88	4.32
RGBWYUV (Lux)	4101	941	386
R (Lux)	1331	324	125
G (Lux)	1644	395	167
B (Lux)	889	214	90
W (Lux)	2090	498	208
Y (Lux)	997	240	107
UV (Lux)	20	4	0.8

3. Operation

3.1 Board instruction:

No	Show	Function	Instruction
1	d001	DMX Address (1~512)	DMX-512 address set, 6 Channels mode
2	A001	DMX Address (1~512)	DMX-512 address set, 10 Channels mode
3	r255	Red (0~255)	UP、DOWN Change brightness
4	G255	Green (000~255)	UP、DOWN Change brightness
5	b255	Blue (000~255)	UP、DOWN Change brightness
6	U255	White (000~255)	UP、DOWN Change brightness
7	Y255	yellow (0~255)	UP、DOWN Change brightness
8	P255	Purple (0~255)	UP、DOWN Change brightness
9	FH99	Strobe flash (01~99)	UP、DOWN Change the speed
10	CL01	Different Colors Output (01~08)	UP、DOWN Change brightness
11	CC99	Colors Jump Change (01~99)	UP、DOWN Change the speed
12	DE99	Colors Gradate (01~99)	UP、DOWN Change the speed
13	CP99	Colors Pulse Change (01~99)	UP、DOWN Change the speed
14	SU01	Colors sound-Active (01~09)	UP、DOWN Change the effects

3.2 DMX address setting:

Each fixture must be assigned a unique DMX start address within the 001 - 512 range. The start address represents the first channel the fixture occupies. This product provides two DMX modes (6/ 10CH) channels; therefore, the next fixture's start address must be calculated according to the number of channels used in the selected mode to avoid overlapping addresses.

For example, when operating in 4 channel mode, set Fixture 1 to 001, Fixture 2 to 005, Fixture 3 to 009, Fixture 4 to 013, etc.

DMX Mode	Fixture1	Fixture2	Fixture3	Fixture4	...
6CH	001	007	013	019	...
10CH	001	011	021	031	...

4. DMX Protocol

6CH	10CH	Display	Function
	CH1	Dimmer	R、G、B、W、Y、A 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
CH5	CH6	Y dimmer	Y dimmer: from dark to bright
CH6	CH7	A dimmer	A dimmer: from dark to bright
	CH8	Strobe	R、G、B、W、Y、Astrobe: slow to fast
	CH9	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	
	CH10	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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