



**Stellar 740**

**LH -ST740**

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 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:AC90-260V 50/ 60Hz

Power Consumption:280W

### Light source

Light Source:7×40W RGBW LED; 96×0.2W RGB LED

CRI>70

Life Expectancy: 60000 hours ( factory rated )

### Zoom Range

Zoom Range:5°-33°

### Control

Display: LCD display

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

Channel:9/ 19CH

### Dimming/Strobe

Dimming: 0-100% linear dimming system

Strobe: 0-20 F.P.S, speed adjustable

### Other Function

Cooling System: Low noise and efficient fan cooling system

With wash and beam effect

### Housing

Housing: Aluminum alloy

Protection rate: IP65

### Working temperature

Working temperature: -10℃-45℃

## Connection

Power connection: Powercon in/out

DMX connection: DMX 3-pin in/ out

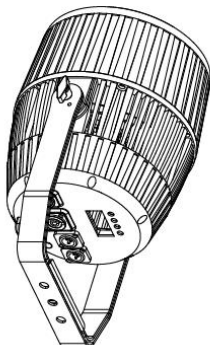
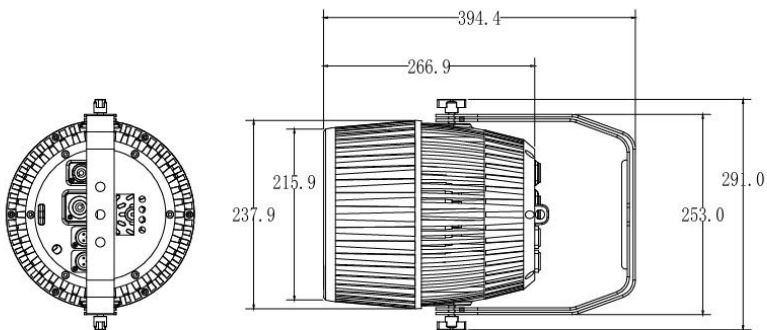
## Product dimensions

394.4×291×237.9mm

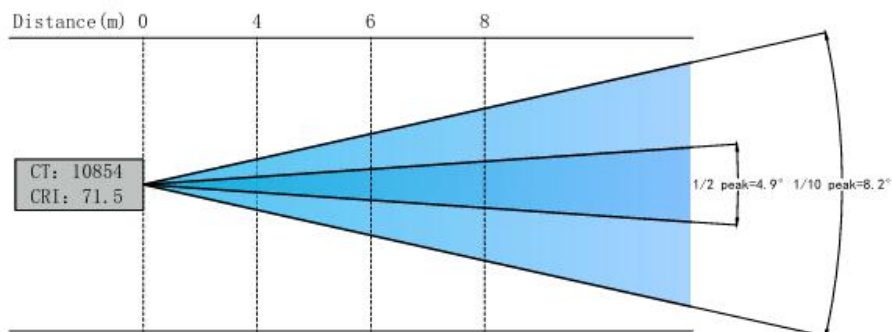
## Net weight

9.1kg

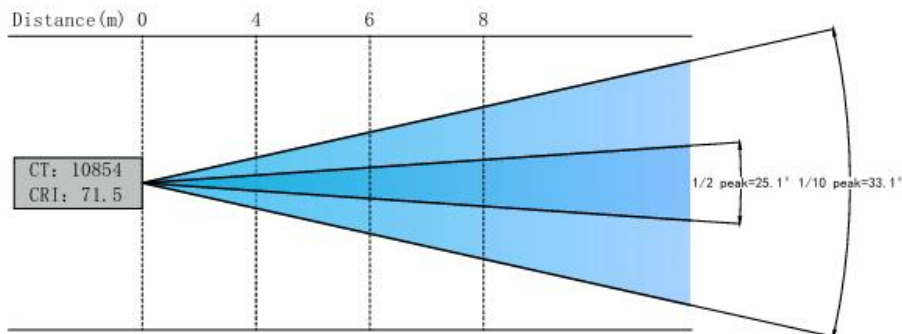
## Dimensions:



## Light output:



4.9° Diameter (m)	0.345	0.52	0.69
8.2° Diameter (m)	0.57	0.86	1.15
RGBW (Lux)	13362.2	5833	3364
R (Lux)	2251.3	982.5	602
G (Lux)	5546.3	2446.8	1401
B (Lux)	1002.9	436.1	248.1
W (Lux)	5181.3	2268.1	1319



25.1° Diameter (m)	1.78	2.675	3.56
33.1° Diameter (m)	2.38	3.57	4.757
RGBW (Lux)	886	404.3	224.1
R (Lux)	143.2	72	39.6
G (Lux)	379.7	168.9	93.2
B (Lux)	68	29.4	15.8
W (Lux)	344.8	152.1	84

## 3. Operation

### 3.1 Board instruction:

ADDRESS	001-512	Set the starting address from 001-512	
RUN	DMX512	Set the fixture to run in DMX mode	
	Auto1(40W LEDs)	Program 1	
		Program 2	
		Program 3	
		Program 4	
		Program 5	
		Program 6	
		Program 7	
		Program 8	
		Auto run (40W LED programs 1-8)	
		Auto speed	
		Zoom	
			Auto Zoom (Off /On)
	Auto2(SMD LEDs)	Program 1	
		Program 2	
		Program 3	
		Program 4	
		Program 5	
		Program 6	
		Program 7	
		Program 8	
		Auto run (SMD LED programs 1-8)	
		Auto speed	
		Zoom	

			narrow)
			Auto Zoom (Off /On)
CH Mode	9CH	9-channel DMX mode	
	19CH	19-channel DMX mode	
Manual	Red	Red intensity (0-100%)	
	Green	Green intensity (0-100%)	
	Blue	Blue intensity (0-100%)	
	White	White intensity (0-100%)	
	SMD R	Red SMD LED intensity (0-100%)	
	SMD G	Green SMD LED intensity (0-100%)	
	SMD B	Blue SMD LED intensity (0-100%)	
	Presets	White Presets 1-11 (0-100%)	
	Strobe	Strobe (0-20, slow <-> fast)	
	Zoom	Zoom (narrow <-> wide)	
Set	Display	Yes/No (to fl ip the display)	
	Slave	Yes/No (Yes = Master, No = Slave Units)	
	Keylock	Yes/No	
		*If set to Yes, press UP, DOWN, UP, DOWN,	
		ENTER when returning to the menu after a	
		screen timeout occurs. The menu goes dark after 1 minute of inactivity.	
	DMX Fail	Hold (holds last signal if DMX is lost)	
Blackout (blackout if DMX signal is lost)			
Info	Version	Displays the fi rmware version	
Reset	Yes/No	Reset the fi xture	

### 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 (9/ 19CH ) 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	...
9CH	001	010	019	028	...
19CH	001	020	039	058	...

## Connection of dmx-512 and connection with the light equipment

Please connect XLR-XLR control wire with every light from the output of DMX.

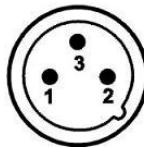
XLR connection :

DMX-OUTPUT



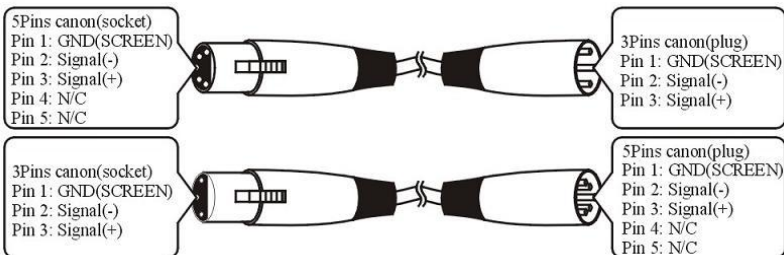
Pin 1: Screen  
Pin 2: Signal -  
Pin 3: Signal +

DMX-INPUT



Pin 1: Screen  
Pin 2: Signal -  
Pin 3: Signal +

ATTENTION: Please do remember to connect one circle circuit plug on the output signal of last equipment. And this circle circuit plug was connected a 120ohm resistance between terminals 2 and 3 of the CANON plug, connect this circle circuit plug can avoid the signal flash phenomena of signal DMX512 during the transmission.



# 4. DMX Protocol

9CH	19CH	Value	What it does
--	1	000 <-> 255	Dimmer (40W LEDs, 0% - 100%)
1	2	000 <-> 255	Red (40W LEDs, 0% - 100%)
2	3	000 <-> 255	Green (40W LEDs, 0% - 100%)
3	4	000 <-> 255	Blue (40W LEDs, 0% - 100%)
4	5	000 <-> 255	White (40W LEDs, 0% - 100%)
--	6	000 <-> 255	Strobe (40W LEDs, slow to fast)
5	7	000 <-> 255	Zoom (wide to narrow)
--	8		Manual Color & White Presets (40W LEDs)
		000 <-> 009	No function
		10	Red
		011 <-> 029	R: 100%, G: Up, B: 0%
		30	Yellow
		031 <-> 049	R: Down, G: 100%, B: 0%
		50	Green
		051 <-> 069	R: 0%, G: 100%, B: Up
		70	Cyan
		071 <-> 089	R: 0%, G: Down, B: 100%
		90	Blue
		091 <-> 109	R: Up, G: 0%, B: 100%
		110	Magenta
		111 <-> 129	R: 100%, G: Up, B: 100%, W: Up
		130	RGBW 100%
		131 <-> 141	White 1 (3800K)
		142 <-> 152	White 2 (4000K)
		153 <-> 163	White 3 (4400K)
		164 <-> 174	White 4 (4700K)
		175 <-> 185	White 5 (5000K)
		186 <-> 196	White 6 (5100K)
		197 <-> 207	White 7 (5300K)

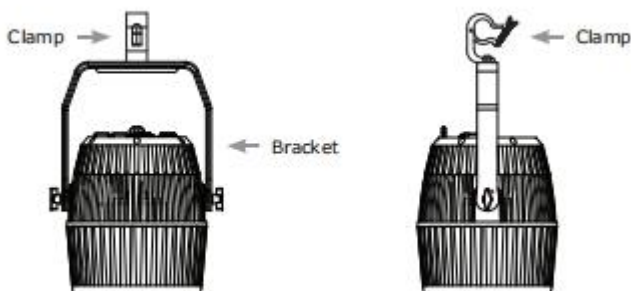
		208 <-> 218 219 <-> 229 230 <-> 240 241 <-> 255	White 8 (5400K) White 9 (5600K) White 10 (6300K) White 11 (7800K)
--	9	000 <-> 009 010 <-> 037 038 <-> 065 066 <-> 093 094 <-> 121 122 <-> 149 150 <-> 177 178 <-> 205 206 <-> 233 234 <-> 255	Auto Programs (40W LEDs) No Function Program 1 Program 2 Program 3 Program 4 Program 5 Program 6 Program 7 Program 8 Auto run (1-8)
--	10	000 <-> 255	Auto speed (40W LEDs, slow to fast)
--	11	000 <-> 255	Dimmer (SMD LEDs, 0% - 100%)
6	12	000 <-> 255	Red (SMD LEDs, 0% - 100%)
7	13	000 <-> 255	Green (SMD LEDs, 0% - 100%)
8	14	000 <-> 255	Blue (SMD LEDs, 0% - 100%)
--	15	000 <-> 255	Strobe (SMD LEDs, slow to fast)
--	16	000 <-> 009 10 011 <-> 049 50 051 <-> 089 90 091 <-> 129 130 131 <-> 169 170	Manual Color (SMD LEDs) No function Red R: 100%, G: Up, B: 0% Yellow R: Down, G: 100%, B: 0% Green R: 0%, G: 100%, B: Up Cyan R: 0%, G: Down, B: 100% Blue

		171 <-> 209 210 211 <-> 254 255	R: Up, G: 0%, B: 100% Magenta R: 100%, G: Up, B: 100% RGB 100%
--	17	000 <-> 009 010 <-> 037 038 <-> 065 066 <-> 093 094 <-> 121 122 <-> 149 150 <-> 177 178 <-> 205 206 <-> 233 234 <-> 255	Auto Programs (SMD LEDs) No Function Program 1 Program 2 Program 3 Program 4 Program 5 Program 6 Program 7 Program 8 Auto run (1-8)
--	18	000 <-> 255	Auto Speed (SMD LEDs, slow to fast)
9	19	000 <-> 255	Reset (keep the value for 3 seconds)

## 5. Fixed Equipment

This fixture may be mounted in any SAFE position provided there is enough room for ventilation. The fan or vent pathway must never be obstructed.

**IMPORTANT:** Regardless of the rigging option you choose for your fixtures, always be sure to secure your fixture with a safety cable.



Mount the fixture using a suitable "C" or "O" type clamp. The clamp should be rated to hold at least 10x the fixture's weight to ensure structural stability. Do not mount to surfaces of unknown strength, and ensure properly rated rigging is used when mounting fixtures overhead.

Overhead mounting requires extensive experience, which includes calculating working load limits, knowledge of the installation material being used, and periodic safety inspections. If you lack these qualifications, do not attempt the installation yourself.

### Power connection

Please checking the power equipment supported.

Please put the plug of power source wire connect with the main power

source .

( EU )Wire	Wire(America)	Direction of wire	General marks
Brown	Black	Live	L
Light blue	White	Neutral	N
Yellow/Green	Green	Earth	

## **6. Maintenance & Cleaning**

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

### **6.1 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.

### **6.2 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.

### **6.3 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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