



Crusier 300 beam

LH -C300

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).

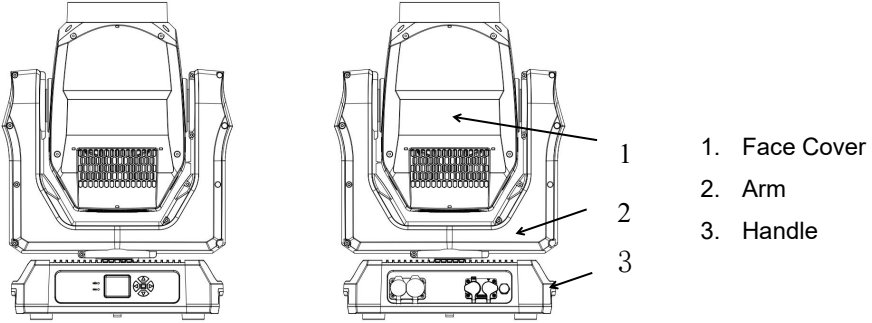
- Temperature & normal conditions

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

2. Appearance

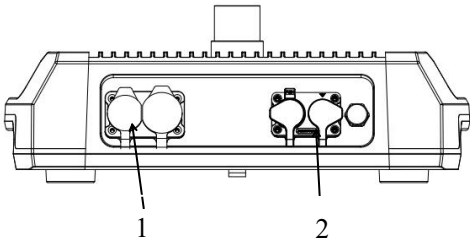
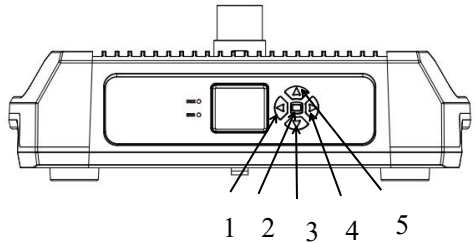
Front side & back side

Front panel & rear panel



Front Panel of the Base

- 1. Left Key
- 2. Enter Key
- 3. Down Key
- 4. Right Key
- 5. Up Key



Rear Panel of the Base

- 1. Waterproof DMX3-pin in/out
- 2. Waterproof power socket

3. Technical Specifications

Power

Input Voltage: AC100-240V 50/ 60Hz

Power Consumption: 400w

Light source

Light Source: 300W USHIO lamp

CCT: 7450K

CRI > 80

Life expectancy: 3000 hours (factory rated)

Beam Angle

Beam Angle: 0-2°

Control




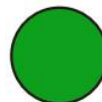


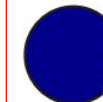
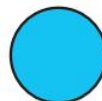
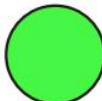



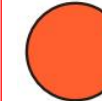
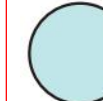
Display: LCD display

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

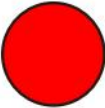


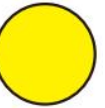


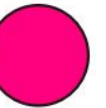
Channel: 16CH

Colors

Color Wheel 1: 14 colors + open















Red	Yellow	Blue	Green	Brownis -Yellow	Magenta	Dark- blue
						
Blue -green	Yellow -green	Rose	Light- periwinkle	Vermilio n	Orange	Cool -color
						

Color Wheel 2: 7 color filter

Red	Green	Blue	Yellow	Indigo	Purple	Rose
						

Static gobo wheel

Static gobo wheel :13gobos+ open

Gobo1	Gobo2	Gobo3	Gobo4	Gobo5	Gobo6	Gobo7
						
Gobo8	Gobo9	Gobo10	Gobo11	Gobo12	Gobo13	Gobo14
						

Prism/Frost

Prism: 1×8- facet circular prism, 1×48-facet circular prism

Frost: 1 frost filter

Other Function

Focus: Electronic focus function

Cooling System: Low noise and efficient fan cooling system

Dimming/Strobe

Dimming: 0-100% linear dimming system

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

Head movement

Pan 540°, Tilt 270° with auto-correction

Housing

Housing: Die-casting aluminum, nylon and glass fiber

Protection rate: IP65

Working temperature

Working temperature: -10°C-45°C

Connection

Power connection: Powercon in/out

DMX connection: DMX 3-pin in / out

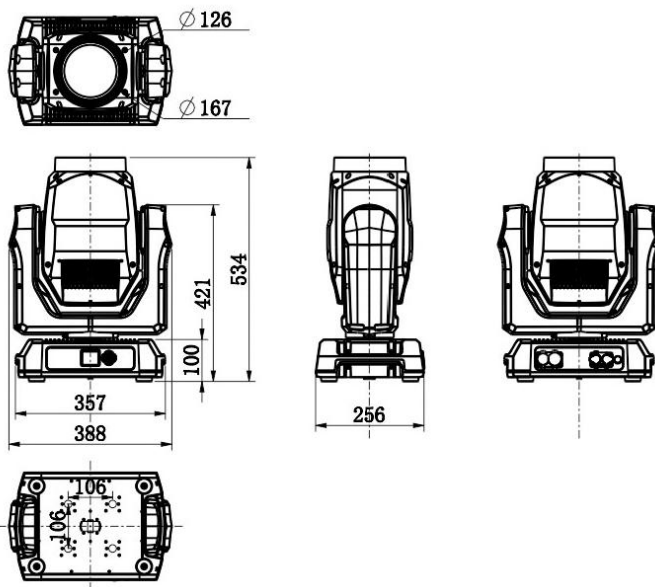
Product dimensions

388×256×534mm

Net weight

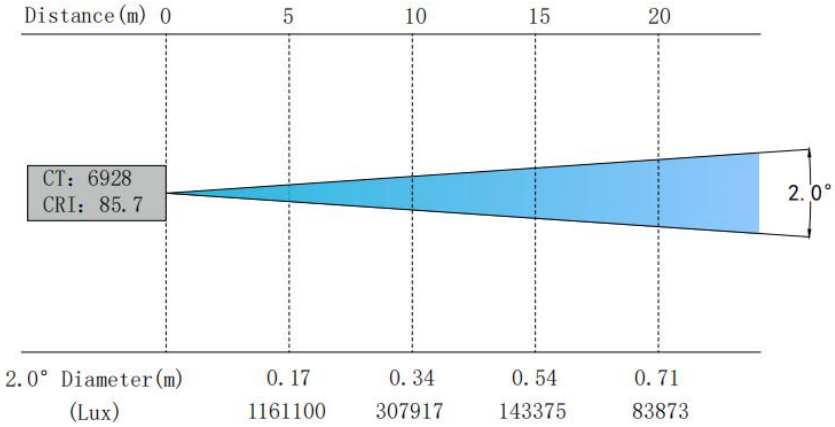
16.5kg

Dimensions



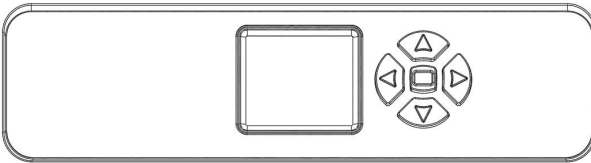
Light output:

Cruiser LED 300 Beam

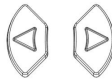


4. Operation

4.1 Front panel operation:



UP / DOWN



Left Key / Right Key

Enter	To enter into move backward or leave the menu
UP	To go backward to move up in the menu
DOWN	To go forward to move down in the menu
Left	To go backward to previous level
Right	To go forward to next level

Pressing any button from the home screen will show the selectable menu items from the menu map. When a menu function is selected, the display

will immediately show the first available option for the selected menu function. To select a menu item, press <ENTER>.

Use the <UP> <DOWN> <Left> <Right> buttons to navigate the menu options. Press the <ENTER> button to select the menu function currently displayed, or to enable a menu option.

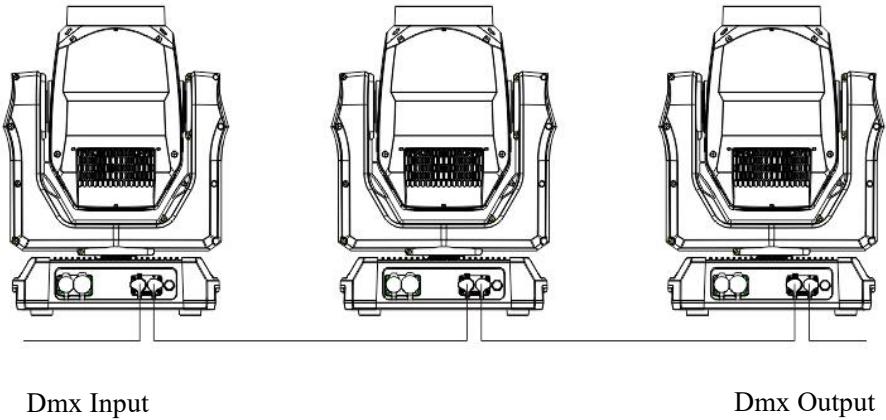
4.2 Board instruction:

ADDR	Chan	001-512
	Prev	Previous device
	Next	Next device
MODE	DMX_Ctrl	
	Auto_Run	
	Scene_mode	01-10, Auto
	Lamp_Ctrl	On/Off
	M/S Choose	Auto/Master/Slave
	Exit	
DISP	语言	English/中文
	Screen_Rot	Auto/Close/Open
	Screen_Saver	On/Off
	DMX_Indicate	Mode1-2
	Screen_Light	01-10
	Exit	
SCENE	Control Mode	On/Off
	Scene Select	01-10
	Scene Timer	xx:xs
	Color	000-255
	Strobe	000-255
	Dimmer	000-255
	Gobo	000-255
	Prism	000-255
	Prism.Ro	000-255
	Prism2.Ro	000-255
	Frost	000-255

	Focus	000-255
	Pan	000-255
	Pan fine	000-255
	Tilt	000-255
	Tilt fine	000-255
	XY speed	000-255
	Reset	000-255
	Lamp	000-255
	Exit	
SETUP	Pan Invert	On/Off
	Tilt Invert	On/Off
	Lamp On ST	On/Off
	P/T Rectify	On/Off
	Data Hold	On/off
	CH mode	16CH
	Pan Offset	128
	Tilt Offset	128
	Scene Timer	001
	Reset	On/Off
	Factor Setting	On/Off
	Advance	Password: 1324
	Exit	
STATE	Channl_info	
	Light_time	xxxx:xx
	Error_logging	
	Version	
	Fixture_Status	
	Use_Limit	
	Exit	

4.3 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 one DMX modes16 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 16-channel mode, set Fixture 1 to 001, Fixture 2 to 17, Fixture 3 to 099, Fixture 4 to 35, etc.



5. DMX Protocol

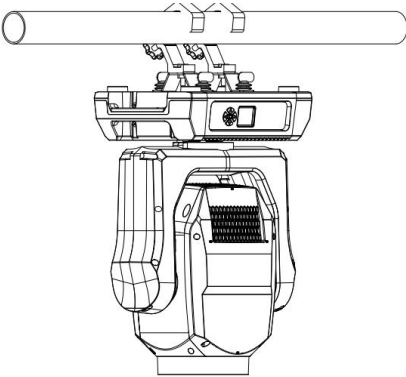
16CH	Function	DMX value	Description
1	Color wheel	0-9	White
		10-15	White+Color1
		16-20	Color1
		21-25	Color1+Color2
		26-30	Color2
		31-35	Color2+Color3
		36-40	Color3
		41-45	Color3+Color4
		46-50	Color4
		51-55	Color4+Color5
		56-60	Color5
		61-65	Color5+Color6
		66-70	Color6
		71-75	Color6+Color7
		76-80	Color7
		81-85	Color7+Color8
		86-90	Color8
		91-95	Color8+Color9
		96-100	Color9
		101-105	Color9+Color10
106-110	Color10		
111-115	Color10+Color11		
116-120	Color11		
121-125	Color11+Color12		
126-130	Color12		
131-135	Color12+Color13		
136-140	Color13		
141-145	Color13+Color14		
146-149	Color14		

		150-191	Rainbow effects forward from fast to slow
		192-255	Rainbow effects backward from slow to fast
2	Strobe	0-3	Close
		4-9	Open
		10-103	Strobe Effect1 from fast to slow
		104-107	Open
		108-207	Strobe Effect2 from slow to fast
		208-212	Close
		213-251	Strobe Effect3, from slow to fast
		252-255	Open
3	Dimmer	0-255	0-100% dimmer
4	Gobo wheel	0-4	open
		5-9	Gobo1
		10-14	Gobo2
		15-19	Gobo3
		20-24	Gobo4
		25-29	Gobo5
		30-34	Gobo6
		35-39	Gobo7
		40-44	Gobo8
		45-49	Gobo9
		50-54	Gobo10
		55-59	Gobo11
		60-64	Gobo12
		65-69	Gobo13
		70-128	Gobo forward change from fast to slow
		129-190	Gobo backward change from slow to fast
		191-195	Gobo1 shake from slow to fast
		196-200	Gobo2 shake from slow to fast
		201-206	Gobo3 shake from slow to fast
		207-211	Gobo4 shake from slow to fast
212-216	Gobo5 shake from slow to fast		
217-222	Gobo6 shake from slow to fast		

		223-227	Gobo7 shake from slow to fast
		228-232	Gobo8 shake from slow to fast
		233-238	Gobo9 shake from slow to fast
		239-243	Gobo10 shake from slow to fast
		244-248	Gobo11 shake from slow to fast
		249-255	Gobo12 shake from slow to fast
5	Prism	0-127	No function
		128-163	Prism1
		164-191	Prism2
		192-255	Prism1+Prism2
6	Prism Rotation	0-127	Prism Index
		128-191	Anticlockwise from fast to slow
		192-255	Clockwise from slow to fast
7	Reserve		
8	Colorful wheel/Frost	0-63	No Function
		64-127	Frost
		128-255	Colorful wheel
9	Focus	0-255	Focus
10	Pan	0-255	Pan Movement 0-540degree
11	Pan fine	0-255	Pan fine
12	Tilt	0-255	Tilt Movement 0-270degree
13	Tilt fine	0-255	Tilt Fine
14	Pan, Tilt Speed	0-255	Pan, Tilt movement speed from fast to slow
15	Reset	0-128	No function
		129-255	Reset
16	Lamp	0-24	No function
		25-99	Lamp off
		100-255	Lamp on

6. Installation

6.1 Mounting & Rigging



- **Attach Mounting Hardware**

Install the 2 × ¼-turn quick-lock Omega brackets to the base, then secure suitable rated C- or O-clamps to the brackets.

- **Position and Rig the Fixture**

Mount the fixture onto a stable truss or structure using clamps rated to hold at least 10× the fixture's weight.

Always lift the fixture using the handles—not the clamps.

- **Install the Safety Cable**

Run the safety cable through the two safety-cable holes on the base and secure it to an independent safety point.

Ensure the safety cable is rated for 10× the fixture's weight.

- **Ensure Ventilation**

Verify that fans and ventilation openings are unobstructed and that sufficient space is available around the fixture.

- **Lock / Unlock Pan & Tilt**

Lock Pan and Tilt before moving the fixture.

Unlock them before powering on.

Never operate the fixture while Pan/Tilt is locked.

- **Final Stability Check**

Ensure all clamps, screws, and safety cable connections are firmly secured, and confirm the mounting structure can support the fixture’s weight.

6.2 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	

6.3 DMX Control Connection

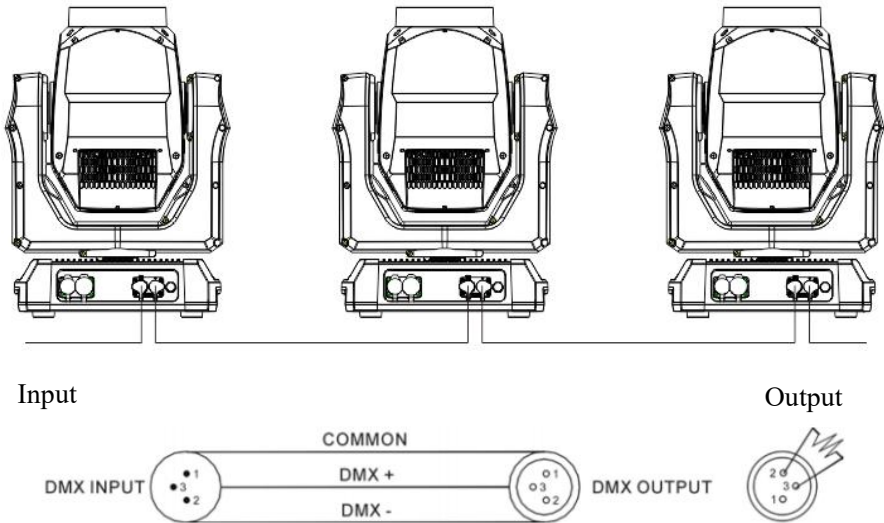
This fixture supports DMX512 (1990) control protocol and is equipped with 3-pin XLR connectors for data input and output. Use a twin-screened DMX cable with conductors of at least 0.5 mm² , ensuring correct wiring for the selected connector type.

Connect the controller’s DMX OUT to the first fixture’s DMX IN, then link fixtures DMX OUT → DMX IN in a daisy-chain. For optimal signal integrity, install a **DMX terminator** on the DMX OUT of the final fixture.

Ensure no pin makes contact with the connector housing or other pins.

Before use, test cables with an ohm meter to verify correct polarity and to ensure no pins or shield are shorted to ground, as this may result in data errors or unstable operation.

For convenience, connect fixtures in the physical order they are installed, rather than by DMX address sequence.



6.4 Alignment/ Installation/Replacement of a lamp

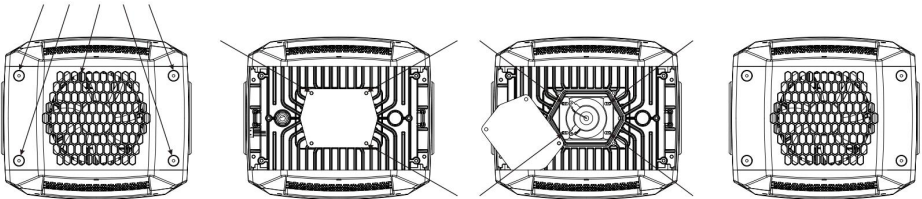


Figure 1: First, loosen the 4 screws on the lamp head rear plastic housing and remove it. Then loosen the screws on the fan and set it aside.

Figure 2: Next, loosen the 3 screws on the bulb rear cover plate, then loosen the remaining screw and set them aside.

Figure 3: Loosen the 4 screws on the bulb pressure plate, lift the pressure plate away, take out the bulb, disconnect the bulb power cable, then remove the bulb for replacement.

Figure 4: After replacing the bulb, first reconnect the bulb power cable and ensure the bulb is securely clamped. Then turn on the lamp and adjust the bulb to center it in the

middle position. Once adjusted, install the bulb rear cover plate, fan, and lamp head rear plastic housing.

Operational Safety Precautions

1. **Power-off Operation:** The main power supply of the equipment must be cut off before operation to avoid the risk of electric shock.
2. **Anti-scalding Treatment:** If the equipment has just been used, wait for the lamp body and bulb to cool down before operation to prevent scalding from high temperatures.
3. **Handle with Care:** The bulb is a fragile item; avoid collision and extrusion when taking and placing it. When disassembling and assembling the radiator module, operate steadily to prevent damage to parts.
4. **Wiring Specification:** Align the connectors when plugging in the wires; avoid forced plugging and unplugging, which may cause poor contact or damage to the circuit.

7. Maintenance & Cleaning

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

7.1 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.

7.2 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.

7.3 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 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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