User Manual

Arts



ClubSpot

200w LED Moving Spot

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1. Safety information

Notice:

Please read the safety notices before installation, charging and maintain.

Safe symbol for this manual

<u> </u>	Dangerous! May cause serious damages or even to death
	Dangerous! Read manual before installation and maintain
<u></u>	Dangerous! High voltage, to avoid deadly electric shook
	Warning! Be care of fire
	Warning! Be care of radiation to eyes, eye shade needed

Warning! Be care of radiation to eyes, eye shade needed
Warning! Be care of hands, gloves needed

Warning:

This fixture is only for professional users, prohibited for home or other nonprofessional use.



Electric Shook Protection

- Disconnect from the power supply before you open or change accessories of the light (such as lamp, fuse, gobo, etc).
- If light is not in use turn the power off to the fixture.
- Make sure the fixture is earthed and use AC power supply same as the light requires 200-240v.
- Use 3 pins power cable rated at/or over 10Amps
- Before using, make sure the cables are in good condition and suitable for the electric current needed before connecting to the fixture
- The cable or the plug must not be damaged
- Do not use the fixture in the rain or moist environment





General Lamp safety (for arc lamp version only)

- It may cause burn damage to eyes and skin if unmask at the charging lamp, please don't stare at the charging lamp directly
- Don't use fixture with broken shell, resist-light board, shot lens, protector and resist-heat board
- Heat charging lamp with strong air pressure, may cause expression accidently
- Maintain the light or change the lamp, protect-glasses and gloves are needed, cut off the power supply and make sure the light is cool.
- Don't use lamps of fragmentary, damaged or any other defects
- Notice the using time and the status of the lamp, replace the lamp before the service time marked in this manual or lamp manufacture limits Lamp installed should fit for the relevant safe demands
- Once the quartz part of the lamp broken, it will release static electricity
 and poison gas. If the space is not large enough, please keep away and
 keep the space in good air circulate. Wear protect gloves when clear up
 the broken lamp, don't throw the useless lamps, send the dangerous
 items to the relevant department





Be careful of fixture and surroundings for fire disaster

- The temperature of fixture may a become high, in this case please avoid touching the fixture, make sure it is cool enough before moving.
- Keep fixture away the combustible item (such as textile, wood, paper etc) and keep the fixture at least 0.5 meters from inflammable items.

- Don't light directly at surfaces. Minimum distance should be 3 meters
- To avoid internal damage or fire, cover the lens or rotate the spot to avoid the direct sunlight
- Don't use the fixture when the temperate is over 40°C (104°F)
- Prohibited to reinstall non-original parts and accessories, prohibited to stick any paper or filter on the lens and other parts, accessories supplied by LED Arts/Lighting Lab can only be used to change the light effect.
- Prohibit to control the fuse or temperate-control switch illegally, replace the fuse according to the specified specification and load

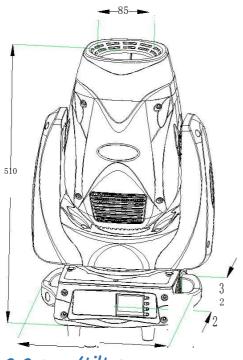


Avoid fall injury

- Don't move the fixture alone
- Install the light on flat ground or platform
- Make sure the external accessories and holder stable enough stable platforms needed when install, maintain and move the fixture, safe guard needed.
- Contact LED Arts / Lighting Lab for more information if not mentioned above

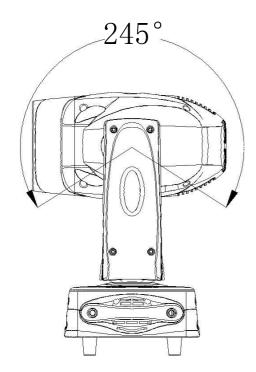
2.1 Fixture dimensions

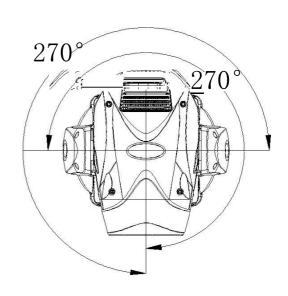
unit: mm



433

2.2 pan/tilt scan





3. Technical Feature

3.1 Power supply

AC 200~240V 50/60Hz。

3.2 Input power

300W@220V。

3.3 Light souce

• Type: 200w LED light source

Average life: Larger than 20000 hours

• Color: 7200K.

3.4 Color system

two color wheels each with 7 color filters

3.5 effects

- 2 gobo wheels, one wheel with 8 fixed metal gobos. The other with 6 rotate gobos with gobo indexing. Both gobo wheels have bidirectionally rotation and with flowing and shaking effect.
- 1 rotate 8-facet prisms.
- LED 0-100% linear dimmer, extremely smooth dimming effect;
- Electronic linear zoom 11°-30°, focusing from 2M to infinity; Zooming functions at fast speed, accurately and smoothly.

3.6 Control & Programming

• Standard Mode: 19 Channels, Simplified Mode: 17 Channels

DMX protocol signal: USITT DMX 512

DMX signal connection: 3 pole XLR input and output

Pan/Tilt Resolution: 16 bitDimmer Resolution: 16 bit

3.7 Fixture Body

- Two side handles for transportation
- LCD Display, HMI user-friendly, Language: Chinese and English

3.8 Moving Feature

- Angle:
- - $PAN = 540^{\circ}$

TILT = 245°

3.9 Electronics

- Automatic Pan and Tilt re-positioning by photoelectric re-positioning system when accidentally knocked out of place.
- Fan speed control: Intelligently automatic fan speed adjustable.
- Pre-set macros.
- Up to GB7000.217-2008 standard and CE Certification

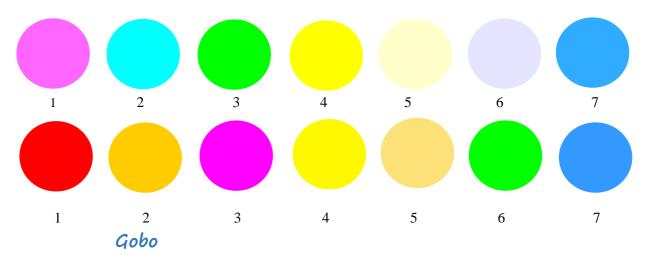
Weight

11.8kg

4. Function Introduction

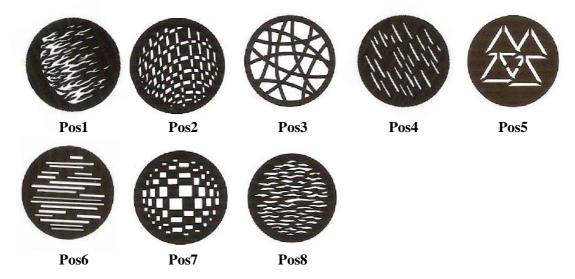
Color filters

This light has two color wheels each with 7 color filters + white Both with full and half color

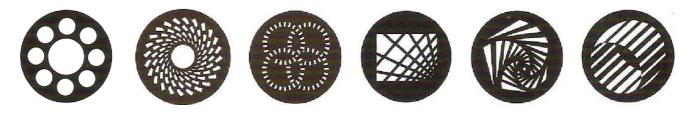


2 gobo wheels, one with 8 fixed gobos. The other with 6 rotating, indexing, bidirectionally rotation Both wheels with flowing and shaking effect.

Fixed metal Gobo wheel.



Rotate gobo wheel



Dimmer & Strobe

 Independent mechanical dimmer, O-100% linear dimmer, extremely smooth dimming effect; Mechanical shutter, speed at O.5-25 flash/sec.
 Built-in strobe macro function.

Prism

1 rotate 8-facet prisms.

Focus & Zoom

• Electronic linear zoom 11°-30°, focusing from 2M to infinity; Zooming functions at fast speed, accurately and smoothly.

Pan & Tilt

- Pan/Tilt Resolution: 16 bit 540deg. Pan, 245dag. Tilt
- Dimmer Resolution: 16 bit

5. Transport

5.1 Items list

The light use flight case for package, every case has one light, and have these items as listed below:

Item name QTY UNIT

Fixture 1 PCS

3 pole XLR signal cable 1 PCS

Safety Rigging wire 1 PCS

User manual 1 PCS

5.2 Package & Unpackage

- Unpacking the fixture
- Remove the top of the box.
- With one person on each side, lift the fixture out of the bottom of the box.

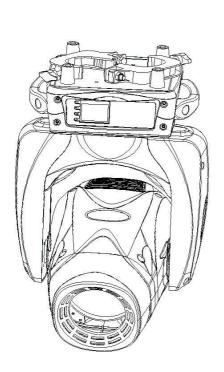
5.3 Packing the fixture

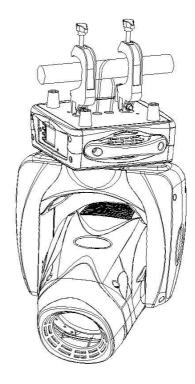
- Disconnect the fixture from power and allow it to cool.
- Place the fixture in the bottom of the box. Place the top section over the fixture without forcing.

6.Installation

6.1 Fixture Installation

- Verify that the safety cable is undamaged and can bear at least 10 times the weight of the fixture. Verify that the structure can bear at least 10 times the weight of all installed fixtures, clamps, cables, auxiliary equipment, etc.
- Bolt each clamp securely to a clamp bracket with an M12 bolt (grade 8.8 or better) and lock nut. (If not already attached)
- Align a clamp with 2 mounting points in the base. Insert the fasteners into the base and turn both levers a full 1/4-turn clockwise to lock. Install the second clamp. (If not already attached)
- If the truss can be lowered, fixtures can be clamped on directly from the flight case. If the fixture must be lifted, block access under the work area. Working safely from a stable platform, hang the fixture on the truss with the arrow towards the area to be illuminated. Tighten the rigging clamps.
- Install a safety cable that can bear at least 10 times the weight of the fixture. The
- attachment point is designed to fit a carabiner clamp.
- materials or surfaces to be illuminated within 1 meter of the fixture, and that there are no flammable materials nearby.
- The minimum space between fixtures in array should be at least 900mm.





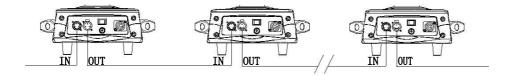
7. Data link

Pin Define

- The fixture use 3-pin XLR cable for DMX input and output. Use a cable conforming
- to specifications EIA RS-485: 2-pole twisted, shielded.
- Pin 1 Shield
- Pin 2 Signal -
- Pin 3 Signal +

Data connect

- Connect the DMX data input from the controller to the light 3-pin input (male) socket.
- Using the sockets that match your data cable, connect the output of the fixture closest to the controller to the input of the next fixture.
- Insert a male 120 Ω XLR termination plug in the 3-pin or 5-pin output of the last fixture on the link.



Signal Reliability Hints

- Use shielded twisted-pair cable designed for RS-485 devices: standard microphone cable cannot transmit control data reliably over long runs. 24 AWG cable is suitable for runs up to 300 meters (1000 ft). Heavier gauge cable and/or an amplifier is recommended for longer runs.
- Never use both outputs to split the link. To split the serial link into branches use a splitter such as the LED Arts 4-Channel Opto-Isolated RS-485 Splitter/Amplifier.
- Do not overload the link. Up to 32 devices may be connected on a serial link.
- Terminate the link by installing a termination plug in the output socket of the last fixture. The termination plug, which is a male XLR plug with a 120 ohm, 0.25 watt resistor soldered between pins 2 and 3, "soaks up" the control signal so it does not reflect and cause interference. If a splitter is used, terminate each branch of the link.

8.AC power supply

Fuses

The fixture is equipped with auto-switching power supply that automatically adjusts to any 50-60Hz AC power source from 200-240 Volts. The fixture is protected by one 2 A blow primary fuse (ϕ 5x20).

Power connection

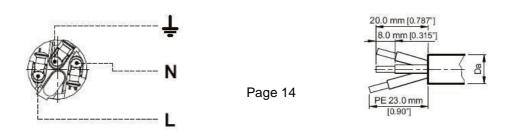
You may need to install a cord cap that fits your supply on the power cable. A 3-prong grounding-type plug must be installed following the manufacturer's instructions. The table shows some possible pin identification schemes; if the pins are not clearly identified, or if

you have any doubts about proper installation, consult a qualified electrician.

Core (EU)	Core (US)	Connection	Plug Terminal Marking
Brown	Black	Live	L
Light blue	White	Neutral	N
Yellow/Green	Green	Earth	

Replace Power Cable

- 1. Tear down the former power cable
- 2. Tailor a cable with specification of 3 meters long and 3*2.5 square meters
- 3. Wiping off the protect skin as the picture above, across the plug cover and chuck.
- 4. Make sure the cable at the correct position and press tightly. L-brown N-Blue
- Yellow/Green
- 5. Installing the plug and roll the cover tightly
- 6. Connecting appropriate ground touch 3 pins plug to the other side.



ClubSpot 200 LED	19CH	17CH	DMX	Function
	Mode1	Mode2	Value	
Dimmer	1	1	0 - 255	4
Dimmer Fine	2		0 - 255	
Strobe	3	2	0 - 3	Closed
			4 - 103	Slow Strobe>Fast Strobe
			104 - 107	Open
			108 -207	Slow Pulsation>Fast Pulsation
			208 -212	Open
			213 -225	Random Slow Strobe
			226 -238	Random Medium Strobe
			239 -251	Random Fast Strobe
			252 -255	Open
Color 1	4	3	0 - 9	White
			10 - 19	Color1+White
			20 - 29	Color1
			30 - 39	Color1 + Color2
			40 - 49	Color2
			50 - 59	Color2 + Color3
			60 - 69	Color3
			70 - 79	Color3 + Color4
			80 - 89	Color4
			90 - 99	Color4 + Color5
			100 - 109	Color5
			110 - 119	Color5 + Color6
			120 - 129	Color6
			130 - 139	Color6 + Color7
			140 - 149	Color7
			150 - 159	Color7 + WHITE
			160 - 207	CW Rotation Slow >Fast
			208 - 255	CCW Rotation Fast >Slow
Color 2	5	4	0 - 9	White
			10 - 19	Color1+White
			20 - 29	Color1
			30 - 39	Color1 + Color2
			40 - 49	Color2
			50 - 59	Color2 + Color3
			60 - 69	Color3
			70 - 79	Color3 + Color4
			80 - 89	Color4
			90 - 99	Color4 + Color5
			100 - 109	Color5
			110 - 119	Color5 + Color6
			120- 129	Color6
			130- 139	Color6 + Color7
			140 - 149	Color7
			150 - 159	Color7 + WHITE
			160 - 207	CW Rotation Slow >Fast
			208 - 255	CCW Rotation Fast >Slow

ClubSpot 200	1CH	17CH	DMX	Function
LED	Mode1	Mode 2	Value	
				WHITE GOBO 1 GOBO 2 GOBO 3 GOBO 4 GOBO 5 GOBO 6 GOBO 7 GOBO 8 CW Slow Rotation >Fast Rotation WHITE CCW Slow Rotation >Fast Rotation GOBO 1 Shake Slow >Fast GOBO 2 Shake Slow >Fast GOBO 3 Shake Slow >Fast GOBO 4 Shake Slow >Fast GOBO 5 Shake Slow >Fast GOBO 6 Shake Slow >Fast GOBO 6 Shake Slow >Fast
			224 — 230	GOBO 7 Shake Slow >Fast
Gobo2 (Rotating)	8	7	231 — 117 0 —7 8 — 15 16 — 23 24 — 31 32 — 39 40 — 47 48 — 59 60 — 80 81 — 101 102 — 122 123 — 143 144 — 164 165 — 189 190 — 222 223 — 255 0 — 127 192 — 255	WHITE GOBO 1 GOBO 2 GOBO 3 GOBO 4 GOBO 5 GOBO 1 Shake Slow >Fast GOBO 2 Shake Slow >Fast GOBO 3 Shake Slow >Fast GOBO 4 Shake Slow >Fast GOBO 5 Shake Slow >Fast GOBO 6 Shake Slow >Fast GOBO 6 Shake Slow >Fast GOBO 7 Shake Slow >Fast GOBO 8 Shake Slow >Fast GOBO 9 Shake Slow >Fast GOBO 1 Shake Slow >Fast GOBO 2 Shake Slow >Fast GOBO 3 Shake Slow >Fast GOBO 4 Shake Slow >Fast GOBO 5 Shake Slow >Fast GOBO 6 Shake Slow >Fast CW Slow Rotation >Fast Rotation CCW Slow Rotation >Fast RotationPosition0°>360°(FINE in CH8 CW Slow Rotation >Fast RotationPosition0°>360°(FINE in CH8 CW Slow Rotation >Fast Rotation
Gobo2 Index	9		0 —255	GOBO2 index Rotation FINE
Rotation FINE			200	COSOL MONTOLATION I NAC
PRISM	10	8	0 —127 128 — 255	EXCLUDED INSERTED
PRISM	11	9	0 — 127 191 — 194 195 — 255	Position 0°>360° CW Fast Rotation > Slow Rotation STOP CCW Slow Rotation >Fast Rotation
FOCUS	12	10	0 —255	
ZOOM	13	11	0255	

PAN(X)	14	12	0255	
PAN(X) FINE	15	13	0255	
TILTE(Y)	16	14	0255	
TILTE(Y)FINE	17	15	0255	
P/T SPEED	18	16	0128	Fastest>Slowest
			129170	Slow Speed (1/3 Max Speed)
			171211	Medium Speed (1/2 Max Speed)
			212255	Fast Speed (Fastest Speed)
Control	19	17	0127	Undefined
			128255	Reset ALL

10.Maintenance

10.1 cleaning

- The Light requires routine cleaning. The schedule depends heavily on the operating environment; please consult a Lighting Lab service technician for recommendations.
- Refer all service not described here to a qualified Lighting Lab technician.
- Use care when cleaning optical components and work in a clean, well lit area. The coated surfaces are fragile and easily scratched. Do not use solvents that can damage plastic or painted surfaces.
- Inspect the air filters regularly and clean before they become clogged.
 Replace the air filters with new ones when replacing the lamp.
- To maintain adequate cooling, dust must be cleaned from the fans and air vents periodically.



Warning!

Disconnect the fixture from power before removing any cover.



Important!

Excessive dust, smoke fluid, and particulate buildup degrades performance and causes overheating and damage to the fixture and is not covered by the warranty.

10.2 Cleaning optical components

- Disconnect the fixture from power and allow the components to cool completely remove the head cover.
- Vacuum or gently blow away dust and loose particles with compressed air.
- Remove stuck particles with an unscented tissue or cotton swab moistened with glass cleaner or distilled water. Do not rub the surface: lift the particles off with a soft repeated press.
- Remove smoke and other residues with cotton swabs or unscented tissues moistened with isopropyl alcohol. A commercial glass cleaner may be used, but residues must be removed with distilled water. Clean with a slow circular motion from center to edge.
- Dry with a clean, soft and lint-free cloth or compressed air.

10.3 Cleaning the fan and air vents

 Remove dust from the fans and air vents with a soft brush, cotton swab, vacuum, or compressed air.