

ERA SPOT-200 LED

MANUAL



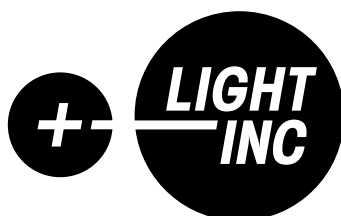
DUAL OVERLAPPING
PRISM



CLEAR
OPTIC SYSTEM








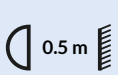





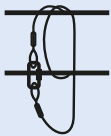


LINEAR
FROST



THANK YOU FOR PURCHASING OUR PRODUCTS

Every unit has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the outer and inner packaging for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your fixture for any damage and be sure all accessories necessary to operate the unit have arrived intact. In case damage has been found or parts are missing, please contact the distributor or your dealer for further instructions. Do not return this unit to your dealer without first contacting them.

1. SAFETY INFORMATION

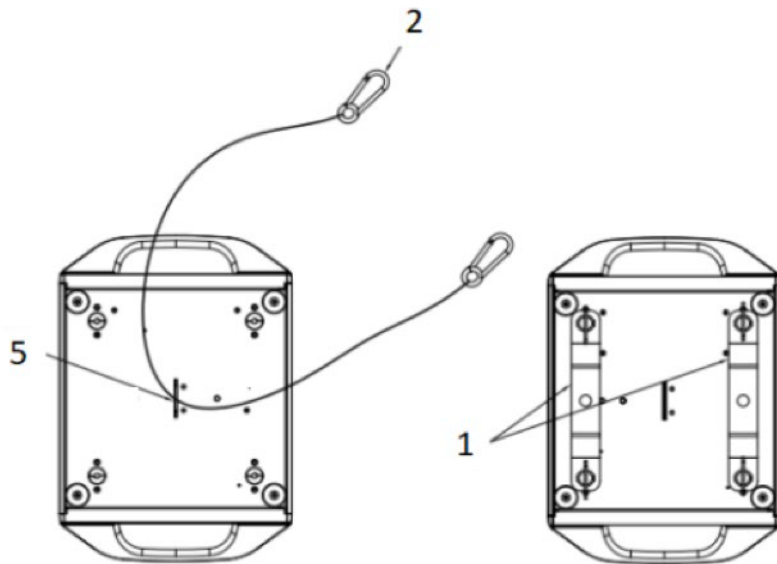
	Before operating this unit, please carefully read this manual and keep for usage in the future. It is necessary to respect the following rules.
	Disposal of the device after its life cycle can damage the environment. Take it to a recycling company or return it to the authorized dealer.
	The products referred to in this manual conform to the guidelines of the European Community and are therefore marked with the CE logo.
	Keep this device away from children and unauthorized users. The dealer is not liable for damage as a result of ignoring the information in this manual and incorrect operation.
	Before operating this unit, please make sure the housing is in good condition and ensure pan and tilt can rotate in full range.
	Ensure that a minimum distance of 0.5 m is maintained between the fixture and any flammable material.
	The device can only function with 100-240v voltage, 50 / 60Hz power. Do not connect to any other power supply. Disconnect the device from the power supply before opening it or before maintenance.
IP20	For indoor events
	Never look directly into the projecting lens when the fixture is switched on. The light can cause epileptic seizures in light-sensitive people or people with epilepsy. Extreme caution and compliance with these safety instructions are required, especially with beam effects.
	Do not place or install the device on a surface that is exposed to vibration or any movement.
-15°C +45°C	The device should operate in temperature range -15 °C and + 45 °C. Do not use the device if the temperature exceeds this range.
	The lens shield must be replaced if it is broken. Never use the device if the shield is not fully closed.
	Safety I class device must be earthed.
	When the fixture is mounted overhead, the safety rope must be attached to the correct mounting location on the bottom of the device.
	Please note that damage caused by manual changes to the device is not covered by the warranty.
	If possible, recycle all packaging material.

2. INSTALLATION

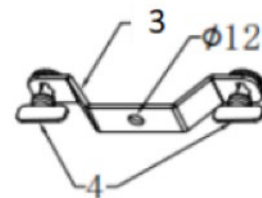
A fixture can be placed on the stage floor directly, or mounted on a truss at any direction without impacting its performance. Please use a safety cord that can support 10 times the weight of the fixture while mounting it on the truss. The safety cord should be used with magazine with a lock. Just as the figures below, please run the safety cord through the holes at the bottom of the base and around the truss.

Rigging

1. Use M12 bolt to fix the clamp (1) into the omega holder (3), run the bolt through the holder's holes
2. Push 2 quick-lock fasteners (4) into holes at the bottom of the base, fix them and tighten them clockwise
3. Run safety cord (2) through holes at the bottom of the base



1. Clamps
2. Safety wire
3. Omega holder
4. Quick-lock fastener
5. Attachment point



WARNING:

- The fixture **MUST** be lifted or carried by the **HANDLES** instead of clamps.
- The safety cord should be able to carry 10 times the fixture's weight.

Power connection

Connect the power cord as follows:

L (live) = brown

E (earth) = yellow/green

N (neutral) = blue



WARNING:

- The earth wire (yellow/green) must be connected to the ground. Electrical connection must be in accordance with the standards concerned.
- If any questions about the electrical installation arise, do not continue but consult a qualified electrician.

DMX control connection

Connection between controller, fixture and another fixture must be made with a twin-screened cable, with each wire having at least a 0.5mm in diameter. Connection to and from the fixture is via cannon 3 pin (which are included with the fixture) or 3 pin XLR plugs and sockets. The XLR's are connected as shown in the figure above.

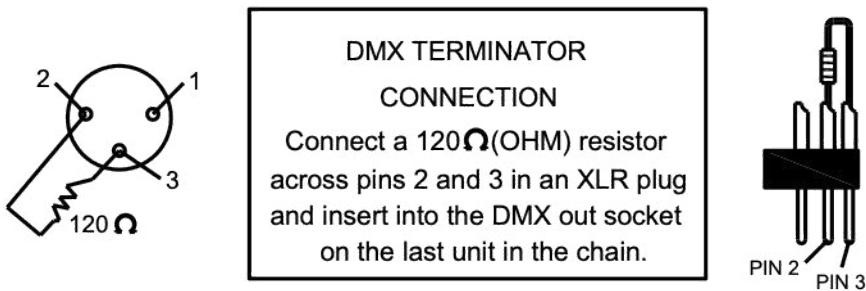
Note: care should be taken to ensure that none of the pins touch the metallic body of the plug or each other.

Connect the controller's DMX output to the first fixture's DMX input, and connect the first fixture's DMX output to the second fixture's DMX input and connect the rest fixtures in the same way. Eventually connect the last fixture's DMX output to a DMX terminator as shown in the figure below.

DMX terminator

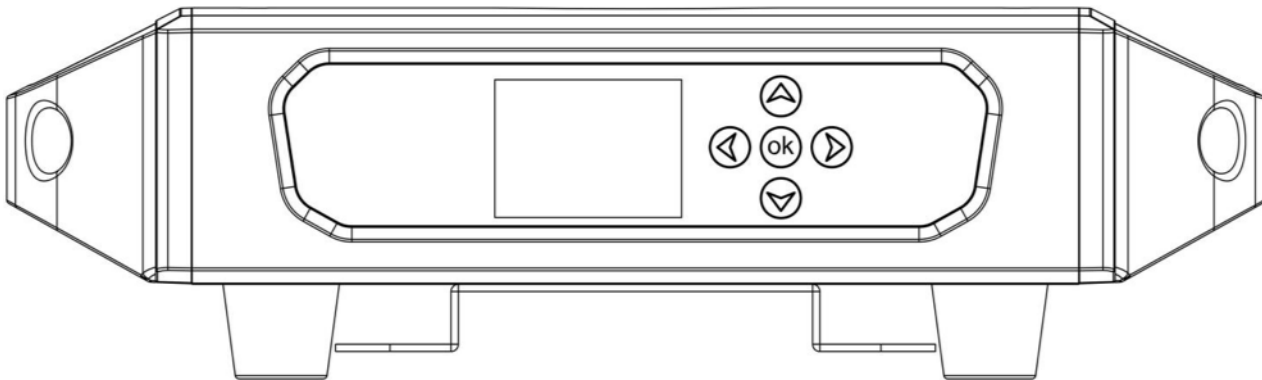
In the Controller mode, at the last fixture in the chain, the DMX output has to be connected with a DMX terminator. This prevents electrical noise from disturbing and corrupting the DMX control signals.

The DMX terminator is simply an XLR connector with a 120Ω (ohm) resistor connected across pins 2 and 3, which is then plugged into the output socket on the last fixture in the chain. The connections are illustrated below.

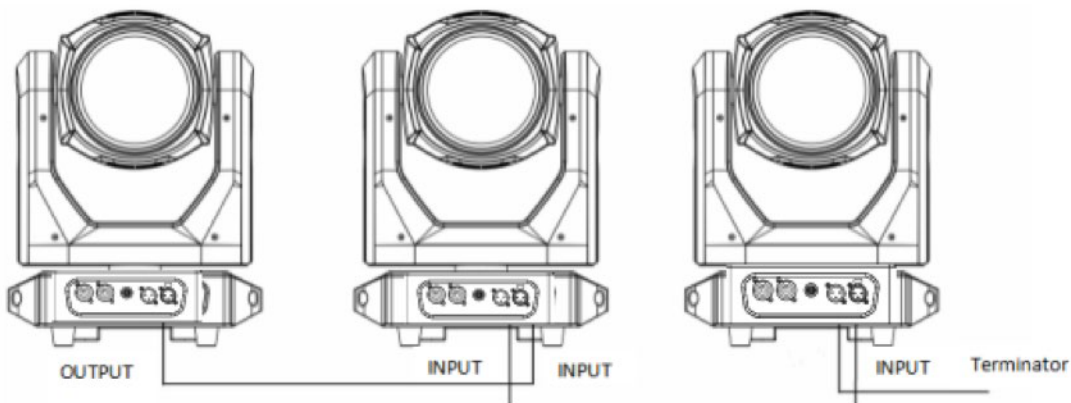


3. SETUP AND CONFIGURATION

Front panel operation



DMX Address: Set up the DMX address
System Settings:



1. **Display reverse direction:** The screen can be flipped if required
2. **Language setting:** Set the system language, switch between Chinese and English
3. **Channel mode:** Set the channel mode, the number of menu options indicates the number of channels
4. **Dimmer curve:** Select the dimmer curve (LED only)
5. **Running mode:**
The menu options are described as follows (Note: Walk mode options may vary according to fixture model):
 - **DMX:** Operation is controlled by the DMX512 console.
 - **Self-walk (factory test):** Run the program set by the manufacturer, which is mainly used for the factory test.
 - **Voice control:** running the program set by the manufacturer is controlled by sound
6. **Electronic light lighting:** the DMX512 console can control the light lighting
7. **Horizontal reverse:** select "Open", reverse the rotation direction of the Pan motor, select "Close", and press the rotation direction at the factory
8. **Vertical reverse:** select Open, reverse the rotation direction of the Tilt motor, select Close, and press the rotation direction at the factory
9. **XY speed:** the three XY-axis running speeds
10. **Optical coupling detection:** select "Open", XY axis zero start position, select "off", XY axis can be manually moved

Information services:

1. **Total time:** Lamp running time
2. **Pearl time:** Displays the use time of the bead
3. **Software:** To display the version information of the drive board

Channel control: manually set the value of the channel

Channel 1: Set the DMX value for channel 1

Channel 2: Set the DMX value for channel 2

Channel 3: Set the DMX value for channel 3

Operating status: display error message and fan speed

Auxiliary tool: factory debugging function, need password verification to enter

Advanced Settings: lamp hardware information and program real-time detection, need password verification to enter

Channel level: the current DMX channel value

Reduction: reset the motor

Description of the LCD screen homepage:

1	4
2	5
	6
3	7

- | | |
|------------------------|-------------------------|
| 1. Lamps model | 5. Error message prompt |
| 2. Lamps model | 6. Running mode |
| 3. DMX channel pattern | 7. The lamp bead state |
| 4. DMX state | |

4. OPERATION MENU

1. Address setting, 2. Setting, 3. Info , 4. Manual, 5. Status, 6. Dmxlevel, 7. Reset, 8. Exitmenu

Level 1	Level 2	Level 3	Level 4	Content
Address Setting				1 - 512
SETTING	Dis_Reve	Natu/Rev1		Built-in settings
	Language	Engh/Chin		
	DMX Mode	14CH/16CH		
	RunMode	DMX/Musc/Auto		
	DimCurve	Squa/Pres/SCur/Line		
	ShortCut	Open/Off		
	X reverse	Off/Open		
	Y reverse	Off/Open		
	XY Speed	Fast/Norm/Slow		
	XY Fback	Open/Off		
	Return	▲		
INFO	All Time	0-9999		Information about lamps and lanterns
	Lamp Time	0-9999		
	Limit Time	0-9999		
	TFT Veri	V00*		
	Motr Veri	V00*		
	Eff Veri	V00*		
	Return	▲		
MANUAL	Pan	0-255		Manual control of the lamp access channel
	PanFine	0-255		
	Tilt	0-255		
	TiltFine	0-255		
	T-nonpolar	0-255		
	XY SP	0-255		
	Strobe	0-255		
	Dimmer	0-255		
	Color	0-255		
	StaticGB	0-255		
	Prism	0-255		
	PrismRot1	0-255		
	PrismRot2	0-255		
	Frost	0-255		
	Focus	0-255		
	Rese	0-255		
	Return	▲		

Level 1	Level 2	Level 3	Level 4	Content
Address Setting				1 - 512
STATUS	XY DMX	Natu/Err		Current status of lamps and lanterns
	Effect DMX	Natu/Err		
	Focus Hall	Natu/Err		
	Color Hall	Natu/Err		
	Gobo Hall	Natu/Err		
	Y Hall	Natu/Err		
	X FB	Natu/Err		
	Y FB	Natu/Err		
	NTC Temp	Natu/Err		
	Return	▲		
TOOLS	CheckGod	***		Information about lamps and lanterns
	AD SET	***		
	AllTime	Zero/Exec		
	LampTime	Zero/Exec		
	Default	Defa/Out/Save		
	X	0-255		
	Y	0-255		
	Focus	0-255		
	Prism 1	0-255		
	Prism 2	0-255		
	Prism Rot1	0-255		
	Frost	0-255		
	Gobo	0-255		
	Color	0-255		
	Prism1Core	0-255		
	Prism2Core	0-255		
	ForstCore	0-255		
	Return	▲		

Level 1	Level 2	Level 3	Level 4	Content
Address Setting				1 - 512
DMX LEVEL	Pan	0-255		Current DMX channel value
	PanFine	0-255		
	Tilt	0-255		
	TiltFine	0-255		
	T-nonpolar	0-255		
	XY SP	0-255		
	Strobe	0-255		
	Dimmer	0-255		
	Color	0-255		
	StaticGB	0-255		
	Prism	0-255		
	PrismRot1	0-255		
	PrismRot2	0-255		
	Frost	0-255		
	Focus	0-255		
	Rese	0-255		
	Return	▲		
	ALL Reset	Annu/Exec		Manual reset
	XY Reset	Annu/Exec		
	Eff Reset	Annu/Exec		
	Return	▲		
Exit Menu				

5.2 Address Setting

DMX Channel		Value	Function
Short mode (14CH)	Standard mode (16CH)		
1	1		Pan
		0-255	0-100%
	2		Pan Fine
		0-255	0-100%
2	3		Tilt
		0-255	0-100%
	4		Tilt Fine
		0-255	0-100%
3	5		Pan and Tilt speed
		0-255	Fast -> Slow
			Strobe
		0-3	Close
4	6	4-103	Strobe: Slow->Fast
		104-107	Open
		108-207	Pulse strobe: Slow->Fast
		208-212	Open
		213-225	Strobe at random: slow speed
		226-238	Strobe at random: medium speed
		239-251	Strobe at random: fast speed
		252-255	Open

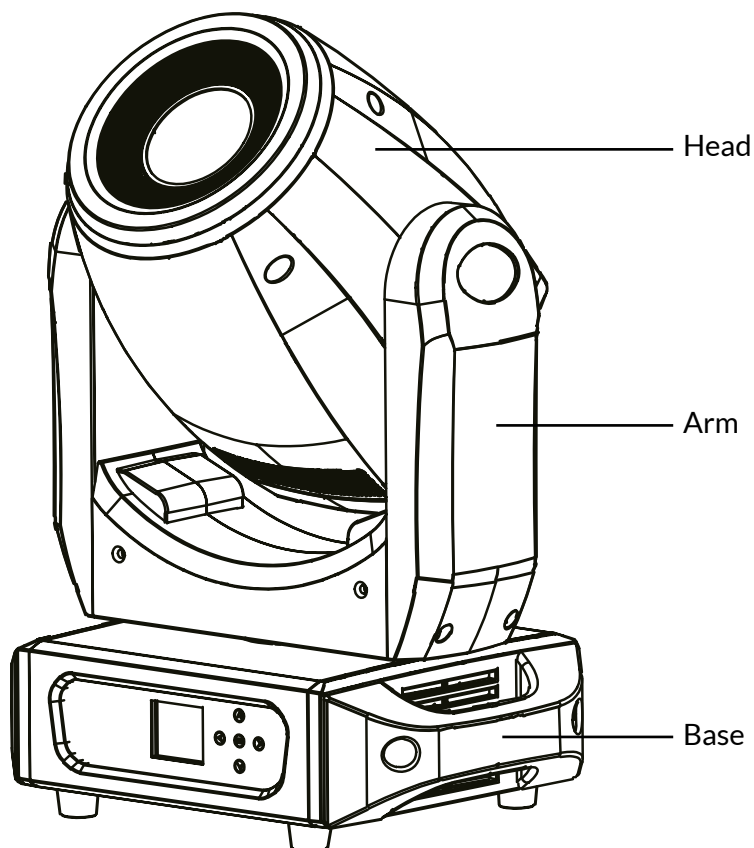
DMX Channel		Value	Function
Short mode (14CH)	Standard mode (16CH)		
5	7		Dimmer
		0-255	0-100%
6	8		Colors
		0-8	Open
		9-17	Red
		18-26	Red
		27-35	Red + Dark Green
		36-44	Dark Green
		45-53	Dark Green + Light Blue
		54-62	Light Blue
		63-71	Light Blue + Yellow
		72-80	Yellow
		81-89	Yellow + Orange
		90-98	Orange
		99-107	Orange + Green
		108-116	Green
		117-125	Green + CTO
		126-134	CTO
		135-143	CTO + Open
		144-149	Open
		150-202	Clockwise rotation:Fast->Slow
		203-255	Anti-clockwise rotation: Slow->Fast
7	9		Gobo
		0-7	Open
		8-15	Gobo1
		16-23	Gobo2
		24-31	Gobo3
		32-39	Gobo4
		40-47	Gobo5
		48-54	Gobo6
		55-76	Shake from slow to fast : Gobo 1
		77-98	Shake from slow to fast : Gobo 2
		99-120	Shake from slow to fast : Gobo 3
		121-142	Shake from slow to fast : Gobo 4
		143-164	Shake from slow to fast : Gobo 5
		165-186	Shake from slow to fast : Gobo 6
		187-201	Open
		202-227	Clockwise rotation:Fast->Slow
		228-229	Stop
		230-255	Anti-clockwise rotation: Slow->Fast
8	10	0-127	0-360°positioning
		128-190	Clockwise rotation:Fast->Slow
		191-192	Stop
		193-255	Anti-clockwise rotation: Slow->Fast
9	11		Prism1
		0-63	Stop
		64-255	Prism 1 in 8 Facet Round

DMX Channel		Value	Function
Short mode (14CH)	Standard mode (16CH)		
10	12		Prism 2
		0-63	Stop
		64-255	Prism 2 in 6 Facet Linear
11	13		Prism positioning and rotation
		0-127	Prism positioning
		128-190	Anti-clockwise rotation:Fast->Slow
		191-192	Stop
		193-255	Clockwise rotation:slow->fast
12	14		Frost
		0-63	Stop
		64-255	0-100%
13	15		Focus
		0-255	0-100%
14	16		Function
			To achieve the following effect, push the DMX value to the appropriate position and rest for at least 4 seconds
		0-210	No
		211-225	Effect reset
		226-240	Pan/Tilt rest
		241-255	All rest

6. COMPONENT ORDER CODES

Name	Code No.	Qty	Remarks
Pan Motor	50300-00136	1	
Tilt Motor	50300-00136	1	
Color wheel	50502-00157	1	7 colors, each code no. stands for one color, colors start from red and so on
	50502-00158	1	
	50502-00159	1	
	50502-00160	1	
	50502-00161	1	
	50502-00162	1	
	50502-00163	1	
Fixed gobo wheel	70502-00015	1	
Switching power supply	50400-00016	1	
Light Source	50201-00018	1	
LED drive power supply	50400-00045	1	

7. APPEARANCE



8. TECHNICAL DATA

Electric parameters

Input voltage : 100V~240V AC, 50/60Hz
Input power: 300W@240V
Power factor : PF>0.90

The specification of the light source

Light Source: 200W White LED COB
Color temperature: 7600K±200K
Rated life: 20000hrs

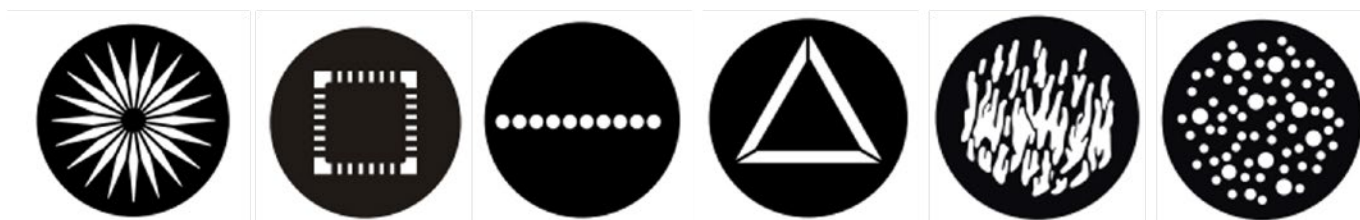
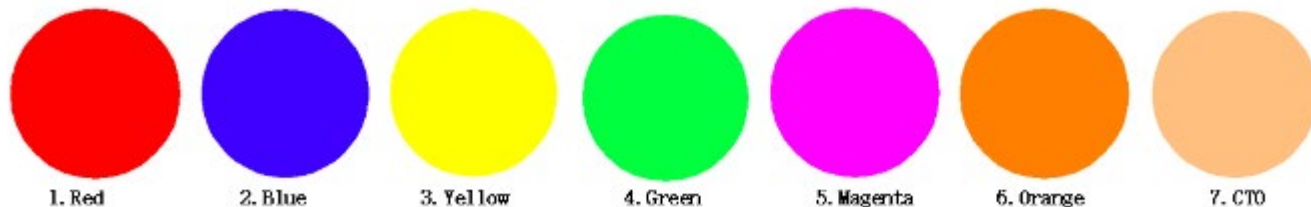
Color

1White light + 7 colors.

- Variable speed bidirectional rainbow effect
- Step/linear conversion color optional

Fixed Gobo Wheel

- 6 gobos + open
- gobo diameter= 22mm
- its thickness= 0.8mm



Prism/frost

- 1 6- facet linear prism and 1 8-facet prism
- bi-directional rotation from slow to fast
- both can be overlapped

Focus

- DMX linear focus

Dimmer/strobe

- Strobe at variable speeds(15 F.P.S at maximum)
- 0-100% linear dimmer

Head movement

- Pan 540°
- Tilt 270° in the vertical direction, with automatic return function

Beam Angle

- 12°

Control

- International standard DMX 512 protocol
- 3-pin interface
- 14channels in short mode and 16channels in standard mode

Focus

- High temperature and anti-UV ABS and aluminum

IP Rating

- 20

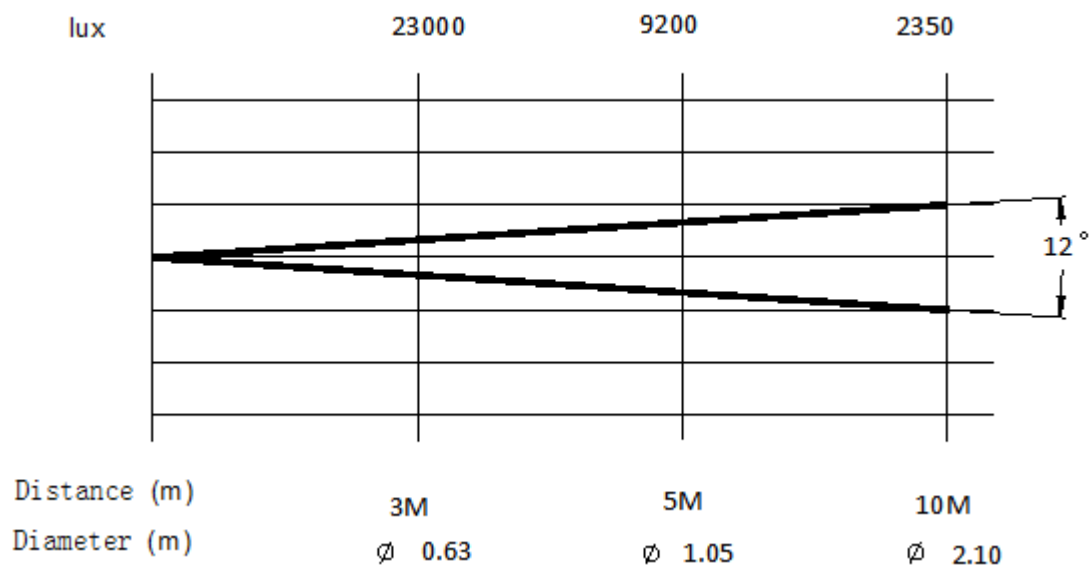
Net Weight

- 9.3 kg

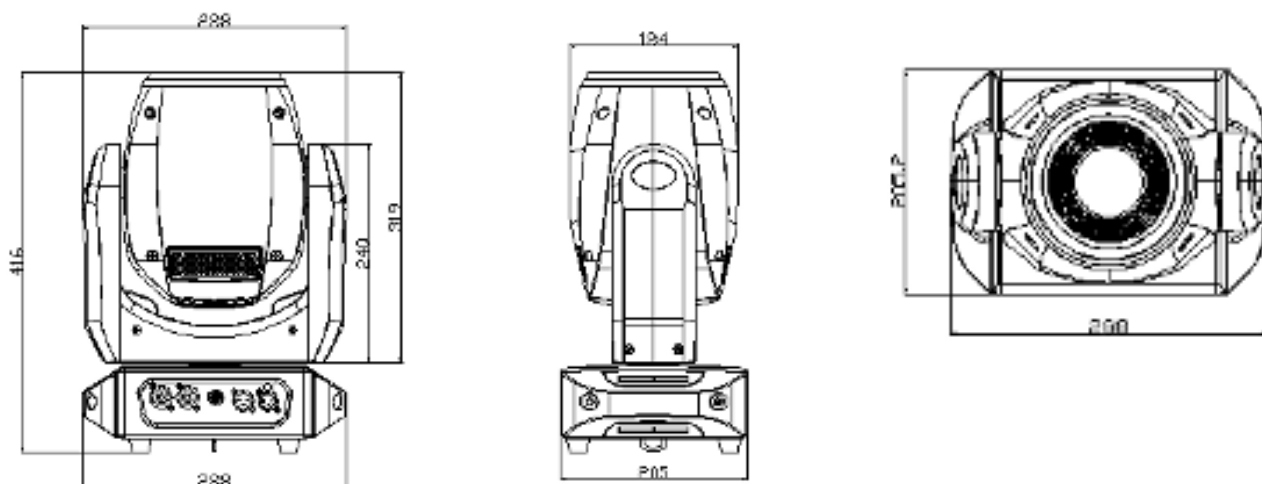
Operation Temperature

- Ambient temperature at maximum: 45°C

Light Output



Dimensions



9. TROUBLE SHOOTING

Problem	Action
The fixture doesn't switch on	► Check the fuse on the power socket.
	► Check the lamp.
The lamp is on but the fixture doesn't respond to the controller	► Make sure that the fixture's start address is right
	► Replace or repair the XLR signal cable.
The fixture functions intermittently	► Make sure the fan is working well or fans and their shields are not blocked.
Beam appears dim, Low in brightness	► Make sure the LED is within its lifespan.
	► Remove dust or grease from the lenses.
The project image appears to have a halo	► Carefully clean the LED, optical lenses and other components.
Heavily Defective Beam	► Check if lens are in good condition(not cracked).
	► Clean dust or grease on the lens.

Error Messages

Name	Type	Correction
Pan	Optical sensor error: Pan	Check if wiring, optical sensor and motors are normal
Tilt	Optical sensor error: Tilt	Check if wiring, optical sensor and motors are normal
Pan & Tilt driver board	Communication error: module1	Check if wiring, hall sensor and motors are normal
Motor driver board	Communication error: module2	Check if wiring, hall sensor and motors are normal
Focus	Hall error: Focus	Check if wiring, hall sensor and motors are normal
Color wheel	Hall error: Color wheel	Check if wiring, hall sensor and motors are normal
Fixed gobo wheel	Hall error: Fixed gobo wheel	Check if wiring, hall sensor and motors are normal

10. NOTES

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A blank sheet of white paper with horizontal dotted lines for writing.

ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

BSL B.V.

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