

User Manual

EVO LSR BEAM IP



SAFETY PRECAUTIONS

This fixture is a sophisticated piece of electronic equipment.

To guarantee a smooth operation, it is important to follow all instructions and guidelines in this manual. Professional is not responsible for injuries and/or damages resulting from the misuse of this fixture due to the disregard of the information printed in this manual.

Only qualified and/or certified personnel should perform installation of this fixture and only the original rigging parts included with this fixture should be used for installation.

Any modifications to the fixture and/ or the included mounting hardware will void the original manufacturer's warranty and increase the risk of damage and/or personal injury.



PROTECTION CLASS 1 - FIXTURE MUST BE PROPERLY GROUNDED.



THERE ARE NO USER SERVICEABLE PARTS INSIDE THIS UNIT. DO NOT ATTEMPT ANY REPAIRS YOURSELF, AS DOING SO WILL VOID

YOUR MANUFACTURER'S WARRANTY. DAMAGES RESULTING

FROM MODIFICATIONS TO THIS FIXTURE AND/ OR THE DISREGARD OF SAFETY INSTRUCTIONS AND GUIDELINES IN THIS MANUAL VOID

THE MANUFACTURER'S WARRANTY AND ARE NOT SUBJECT TO ANY WARRANTY CLAIMS AND/ OR REPAIRS.



DO NOT PLUG FIXTURE INTO A DIMMER PACK!

NEVER OPEN THIS FIXTURE WHILE IN USE!

UNPLUG POWER BEFORE SERVICING FIXTURE!

NEVER TOUCH FIXTURE DURING OPERATION,

AS IT MAY BE HOT! KEEP FLAMMABLE MATERIALS AWAY FROM FIXTURE!



NEVER LOOK DIRECTLY INTO THE LIGHT SOURCE!

RETINA INJURY RISK - MAY INDUCE BLINDNESS!

SENSITIVE PERSONS MAY SUFFER AN EPILEPTIC SHOCK!



ENSURE ALL CONNECTIONS AND END CAPS ARE PROPERLY SEALED

WITH A DIELECTRIC GREASE (AVAILABLE AT MOST ELECTRICAL SUPPLIERS) TO PREVENT WATER CORROSION AND/ OR ELECTRICAL SHORT CIRCUIT.



MINIMUM DISTANCE TO OBJECTS/SURFACES

MUST BE 3.3 FEET (1 METER)

MAXIMUM TEMP OF EXTERNAL SURFACE 185° F (85° C)

MINIMUM DISTANCE OF FLAMMABLE MATERIALS FROM THE SURFACE IS 1.6 FEET (0.5 METER)

SAFETY PRECAUTIONS

- DO NOT TOUCH the fixture housing during operation. Turn OFF the power and allow approximately 15 minutes for the fixture to cool down before servicing.
- DO NOT shake fixture, and avoid brute force when installing and/or operating fixture.
- DO NOT operate fixture if the power cord is frayed, crimped, damaged and/or if any of the power cord connectors are damaged and do not insert into the fixture securely with ease.
- NEVER force a power cord connector into the fixture. If the power cord or any of its connectors are damaged, replace it immediately with a new one of the same power rating.
- DO NOT block any air ventilation slots.
- All fan and air inlets must remain clean and never blocked.
- Allow approx. 6" (15cm) between fixture and other devices or a wall for proper cooling.
- Always disconnect fixture from main power source before performing any type of service and/or cleaning procedure.
- Only handle the power cord by the plug end. Never pull out the plug by tugging the wire portion of the cord.
- During the initial operation of this fixture, a light smoke or smell may emit from the interior of the fixture. This is a normal process and is caused by excess paint in the interior of the casing burning off from the heat associated with the lamp and will decrease gradually over time.
- Consistent operational breaks will ensure fixture will function properly for many years.
- ONLY use the original packaging and materials to transport the fixture in for service.

MAINTENANCE GUIDELINES



DISCONNECT POWER BEFORE PERFORMING ANY MAINTENANCE!

CLEANING

Frequent cleaning is recommended to ensure proper function, optimized light output, and an extended life. The frequency of cleaning depends on the environment in which the fixture operates: damp, smoky or particularly dirty environments can cause greater accumulation of dirt on the fixture's optics. Periodically clean the external lens surface with a soft cloth to avoid dirt/debris accumulation. **NEVER** use alcohol, solvents, or ammonia-based cleaners.

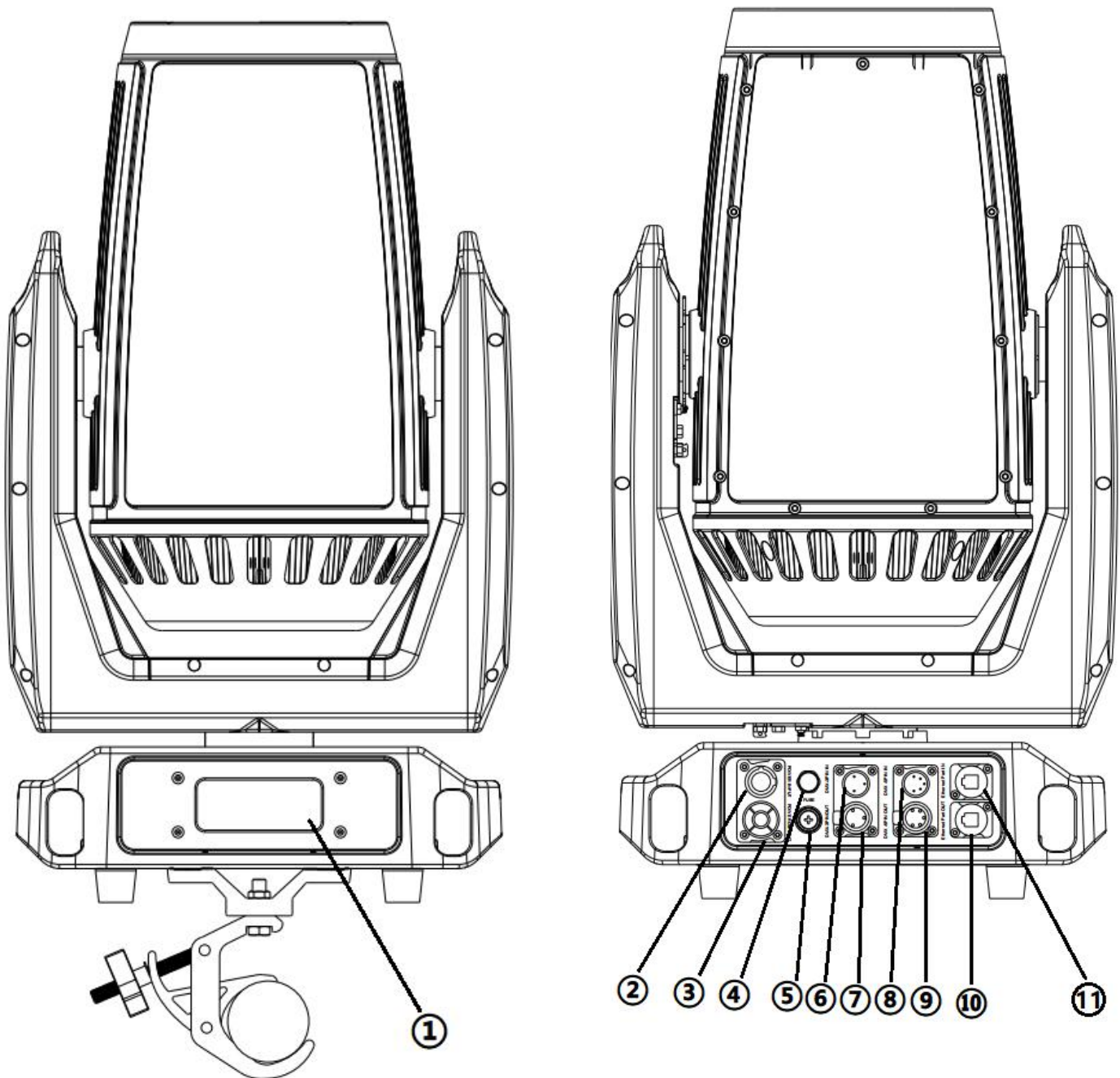
MAINTENANCE

Regular inspections are recommended to ensure proper function and extended life. There are no user serviceable parts inside this fixture. Please refer all other service issues to an authorized service technician. Should you need any spare parts, please order genuine parts from your local dealer.

Please refer to the following points during routine inspections:

- A detailed electric check by an approved electrical engineer every three months, to make sure the circuit contacts are in good condition and prevent overheating.
- Be sure all screws and fasteners are securely tightened at all times. Loose screws may fall out during normal operation, resulting in damage or injury as larger parts could fall.
- Check for any deformations on the housing, color lenses, rigging hardware, and rigging points (ceiling, suspension, trussing). Deformations in the housing could allow for dust to enter into the fixture. Damaged rigging points or unsecured rigging could cause the fixture to fall and seriously injure a person(s).
- Electric power supply cables must not show any damage, material fatigue or sediments. **NEVER** remove the ground prong from the power cable.

OVERVIEW



1. System Menu LCD Display 2. Power Input

3. FUSE 4. Valve 5. Power Output

6. DMX 3 PIN IN 7. DMX 3 PIN OUT 8. DMX 5 PIN IN

9. DMX 5 PIN OUT 10. RJ45 Out 11. RJ45 IN

SYSTEM MENU

Main Menu	Sub Menu	Option/Value	Option/Value	Option/Value
Address	001~512			
Channel Mode	019 CH			
Setting	Control Mode	DMX		
		ARTNET		
		sACN		
	Fan Mode	Auto		
		Silent		
		Full		
	Calibration	Invert Pan	On/off	
		Invert Tilt	On/off	
		Motor Adjust	Pan	0-127
			Tilt	0-127
			Gobo	0-127
			Frost Start	0-127
			Frost End	0-127
			Prism 1 Start	0-127
			Prism 1 End	0-127
			Prism 1 Rot	0-127
			Prism 2 Start	0-127
			Prism 2 End	0-127
			Prism 2 Rot	0-127
			Focus Start	0-127
			Focus End	0-127
	Language	Chinese		
		English		
	Invert Screen	Off		
		On		
	Signal Keep	NO		
		YES		
	Screen Lock	NO		
		YES		
	Load Default	NO		
		YES		

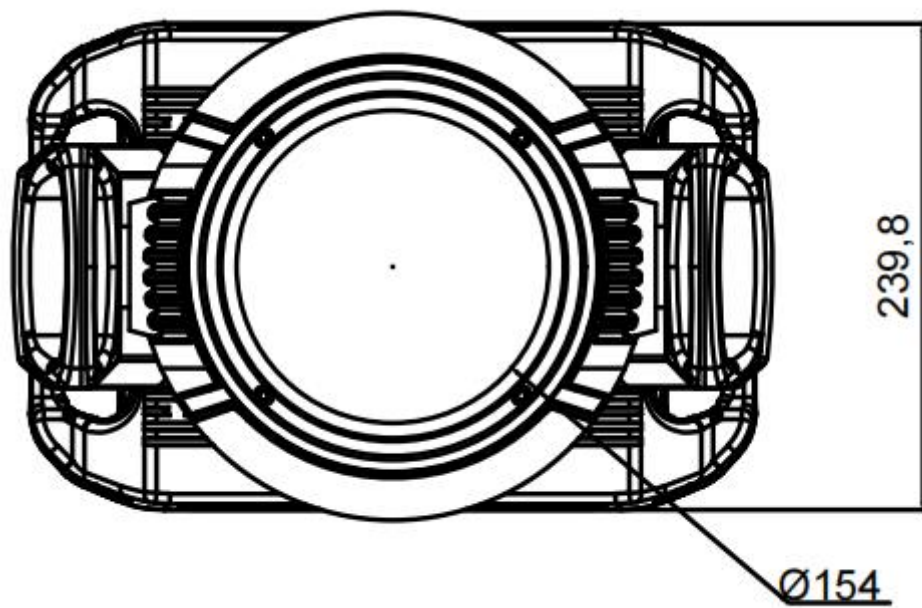
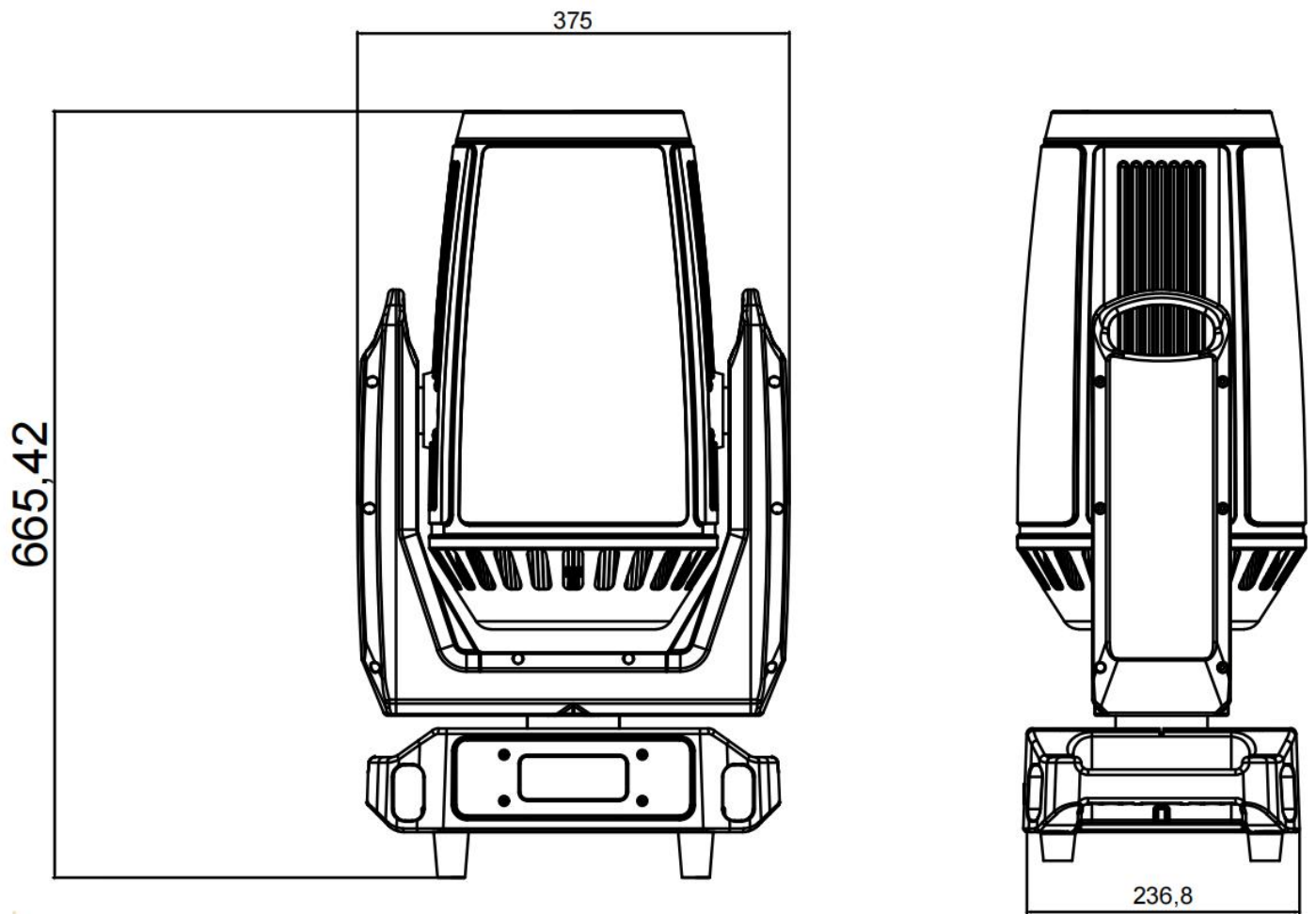
Network	Ethernet	IP:002.000.000.001		
		MS:255.000.000.000		
	Universe	Net(0-127):000-127		
		Sub_Uni:000-255		
Manual	Pan	000-255		
	Pan Fine	000-255		
	Tilt	000-255		
	Tilt Fine	000-255		
	Pan&Tilt Speed	000-255		
	Strobe	000-255		
	Dimmer	000-255		
	Laser Switch	000-255		
	Red	000-255		
	Green	000-255		
	Bule	000-255		
	Gobo	000-255		
	Frost	000-255		
	Prism 1	000-255		
	Prism 1 Rot	000-255		
	Prism 2	000-255		
	Prism 2 Rot	000-255		
	Focus	000-255		
	Reset	000-255		
Reset	Reset Effect			
	Reset Scan			
	Reset All			

DMX CHART

Channel	Value	Function	Description
1	0-255	Pan	0-540°
2	0-255	Pan Fine	0-2°
3	0-255	Tilt	0-270°
4	0-255	Tilt Fine	0-1°
5	0-255	Pan&Tilt Speed	Slow to Fast
6	0-3	Strobe	Off
	4-99		Synchronous strobe
	100-149		Pulse strobe
	150-199		Strobe
	200-249		Random strobe
	250-255		On
7	0-255	Dimmer	0-100% Dimmer
8	0-127	Laser Switch	Off
	128-255		On
9	0-255	Red	0-100% Dimmer
10	0-255	Green	0-100% Dimmer
11	0-255	Blue	0-100% Dimmer
12	0-7	Pattern	White light hole
	8-14		Pattern 1
	15-21		Pattern 2
	22-28		Pattern 3
	29-35		Pattern 4
	36-42		Pattern 5
	43-49		Pattern 6
	50-56		Pattern 7
	57-63		Pattern 8
	64-70		Pattern 9
	71-77		Pattern 10
	78-84		Pattern 11
	85-91		Pattern 12

	92-98		Pattern 13
	99-105		Pattern 1 shakes from slow to fast
	106-112		Pattern 2 shakes from slow to fast
	113-119		Pattern 3 shakes from slow to fast
	120-126		Pattern 4 shakes from slow to fast
	127-133		Pattern 5 shakes from slow to fast
	134-140		Pattern 6 shakes from slow to fast
	141-147		Pattern 7 shakes from slow to fast
	148-154		Pattern 8 shakes from slow to fast
	155-161		Pattern 9 shakes from slow to fast
	162-168		Pattern 10 shakes from slow to fast
	169-175		Pattern 11 shakes from slow to fast
	176-182		Pattern 12 shakes from slow to fast
	183-189		Pattern 13 shakes from slow to fast
	190-221		Counterclockwise flow from fast to slow
	222-223		Stop
	224-255		Clockwise flow from slow to fast
13	0-127	Atomization	Cut out
	128-255		Cut in
14	0-127	Prism 1	Remove Prism 1
	128-255		Insert Prism 1
15	0-127	Prism 1 Rotate	0-400°
	128-189		Forward flow from fast to slow
	190-193		Stop
	194-255		Reverse flow from slow to fast
16	0-127	Prism 2	Remove Prism 2
	128-255		Insert Prism 2
17	0-127	Prism 2 Rotate	0-400°
	128-189		Forward flow from fast to slow
	190-193		Stop
	194-255		Reverse flow from slow to fast
18	0-255	Zoom	Far to close
19	230-235	Reset	Motor reset after more than 5 seconds
	240-245		Pan and Tile motor reset after more than 5 seconds
	250-255		All motors reset after more than 5 seconds

DIMENSIONAL DRAWINGS



SPECIFICATIONS

- ◆ Luminous Flux Typical Value*(lm): ≥ 10000
- ◆ Red Laser Wavelength Typical Value (nm): 638
- ◆ Green Laser Wavelength Typical Value (nm): 520
- ◆ Blue Laser Wavelength Typical Value (nm): 450
- ◆ Initial Beam Diameter (mm): 80~120
- ◆ Divergence Angle: 0.35°
- ◆ Power of RGB Laser Source (W): 60W
- ◆ System Power Consumption: 500W
- ◆ Light Source Lifespan: $\geq 20000\text{H}$
- ◆ Beam Angle: Vertical $0-270^{\circ}$, Horizontal $0-540^{\circ}$
- ◆ Control Precision: 16 bits
- ◆ Control Protocol: DMX, Art-Net, sACN
- ◆ Weight: 22KG
- ◆ IP Rated: IP65
- ◆ Operating Temperature: -20°C to 45°C