

USER MANUAL

Aero 600BSW IP



Safety Information



WARNING

Please keep this User Manual for future consultation. If you sell the unit to another user, be sure that they also receive this instruction manual.

Important:

Damages caused by the disregard of this user manual are not subject to warranty.

The dealer will not accept liability for any resulting defects or problems.

- Unpack and check carefully to ensure that there is no transportation damage before using the unit.
- DO install and operate by qualified operator.
- DO NOT allow children to operate the fixture.
- Use safety chain when fixing the unit. Handle the unit by carrying its base instead of head only.
- The unit must be installed in a location with adequate ventilation, at least 50CM from adjacent surfaces.
- Be sure that no ventilation slots is blocked, otherwise the unit will be overheated.
- Before operation, ensure that you are connecting this product to the proper voltage in accordance with the specifications in this manual or on the product's specification label.
- It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
- Minimum ambient temperature TA: -20°C. Maximum ambient temperature TA: 45°C. Do not operate this product at a lower or higher temperature.
- DO NOT connect the device to any dimmer pack.
- Keep flammable materials away from the fixture while operating to avoid fire hazard.
- Make sure the power cord is not crimped or damaged; replace it immediately if damaged.
- Unit's surface temperature may reach up to 65°C. DO NOT touch the housing bare-handed during its operation.
- Avoid any flammable liquids or metal from entering the unit. Once it happens, cut off the mains power immediately.
- DO NOT operate in a dirty or dusty environment. DO clean the fixture regularly.
- DO NOT touch any wire during operation as there might be a hazard of electric shock.
- Avoid entanglement of the power cord with other wires.
- The minimum distance to objects/surface must be more than 5 meters.
- Disconnect mains power before fuse replacement or servicing.
- Replace fuse only with the same type.
- In the event of serious operating problem, stop using the unit immediately.
- Never turn on and off the unit time after time.
- The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.
- DO NOT open the housing as there are no user serviceable parts inside.
- DO NOT attempt to operate this unit if it becomes damaged. DO NOT attempt any repairs yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center if needed.
- Disconnect this product from its power source before servicing.
- DO use the original packaging if the device is to be transported.
- Check that the head tilt lock is released before packing for transportation.
- Avoid direct eye exposure to the light source while the product is on.
- DO NOT operate this product if you see damage on the housing, shields, or cables. Have the damaged parts replaced by an authorized technician at once.

1. Technical Specifications

1.1 Parameter

Light Source & Control

- Light Source: 520W High-Brightness LED
- LED Rated Power: 550W
- Control Protocols: DMX512, RDM, ARTNET, SCAN
- Refresh Rate: 400Hz – 24kHz
- Frequency: 1kHz – 25kHz

Electrical Parameters

- Input Voltage: AC 100V–240V, 50Hz/60Hz
- Rated Power: 700W @230V / 720W @110V
- Max. Power: 750W @230V / 780W @110V
- Standby Power: 85W @230V / 90W @110V
- Input Current: 3.3A @230V / 7A @110V
- Power Output Connection: 12A @220V–240V / 8A @100V–120V
- Power Factor (PF): ≥97%

Optical System

- Beam Angel: 2.3-54°
- Luminous Flux: 26,800 lm (Typical output)

Control

- 4 touch button control panel
- Display: LCD display
- Protocols: DMX512, RDM, Art-Net, sACN
- Control Channels: 25 CH/35 CH

Gobos & Effects

- Rotating Gobo Wheel: 10 interchangeable, bi-directional rotating gobos + Open (Slot-and-lock design for easy replacement)
- Static Gobo Wheel: 14 static gobos + open
- Animation Wheel: Continuous bi-directional rotating animation wheel
- Prisms: Dual bi-directional rotating prisms, fully stackable for multi-beam effects
- Frost: Advanced linear frost system with high-transmittance material for even wash coverage

COLORS

- Color Mixing: Smooth linear CMY color mixing system
- Variable CTO: Linear color temperature correction (3,000K – 6,500K)
- Color Wheel: 9 dichroic colors + High CRI filter + Open (half-color and rainbow effects supported)
- CRI: Ra70 (High-Brightness Mode) / Ra92 (High-CRI Mode)
- Color Wheel: 1 color wheel with 9 colors + CRI filter + open (white)

PAN&TILT

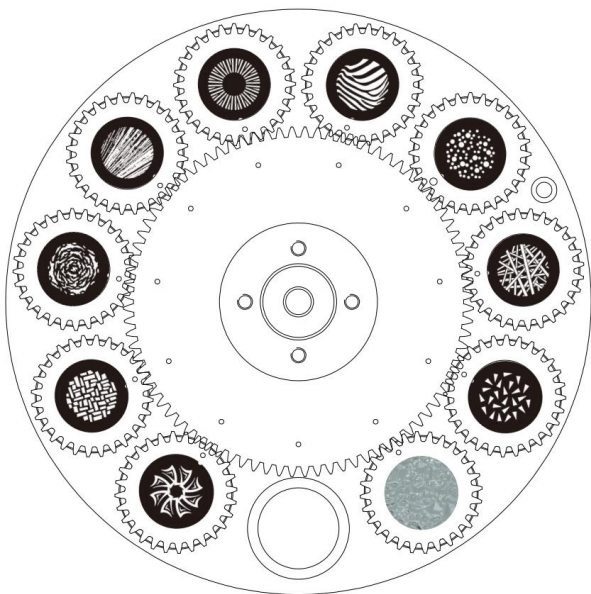
- Pan: 540°, Tilt: 260°, 8/16-bit precision

Physical & Environmental

- Dimensions: 358*240*690mm
- N.W: 27kg
- G.W: 29kg
- Operating Temperature: -20° C to 45° C
- IP Rating: IP65

1.2 Gobos and Wheels

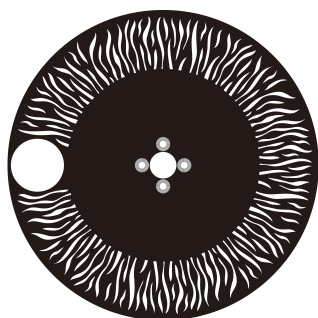
Rotating Gobos



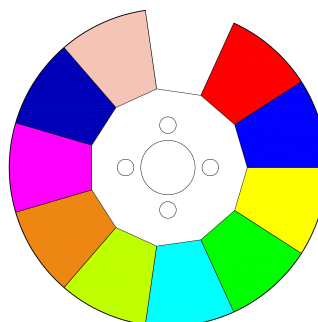
Fixed Gobos



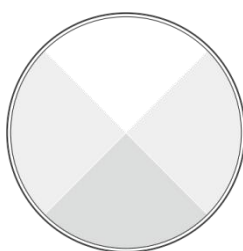
Effects Wheels



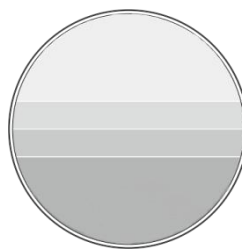
Color Wheels



Prism System



4 facet Prism



4-Row Mirrors

CMY Wheels



CTO



Yellow

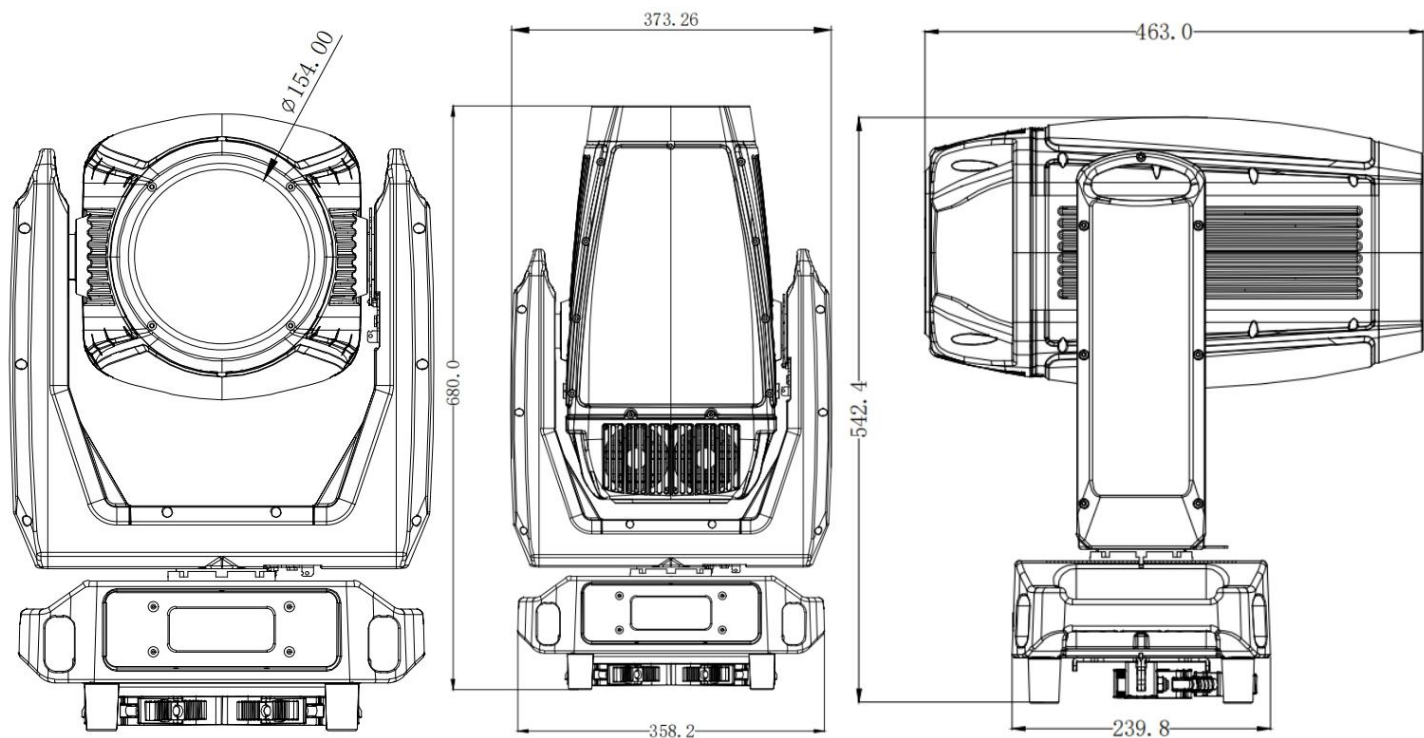


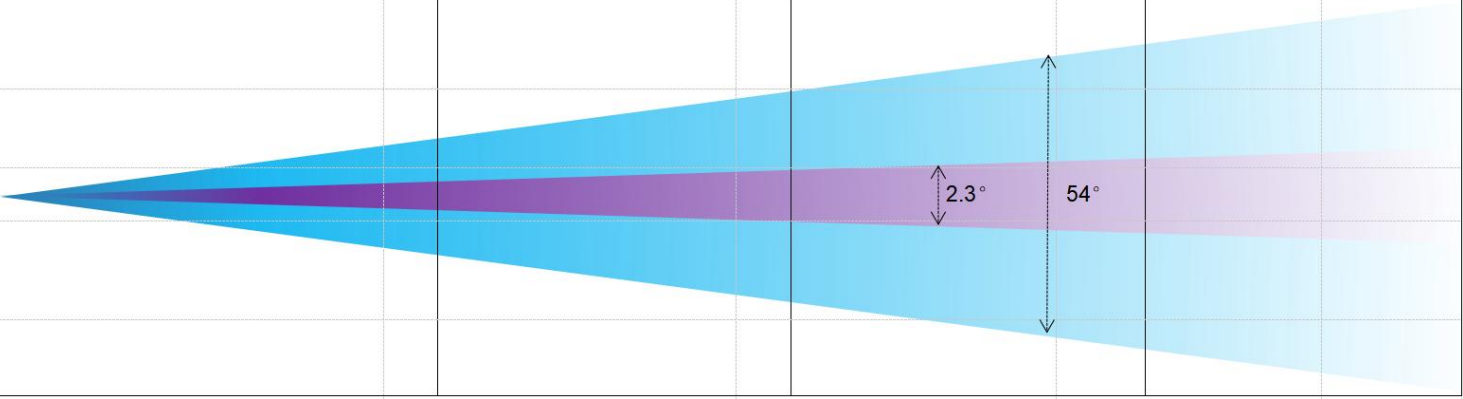
Cyan



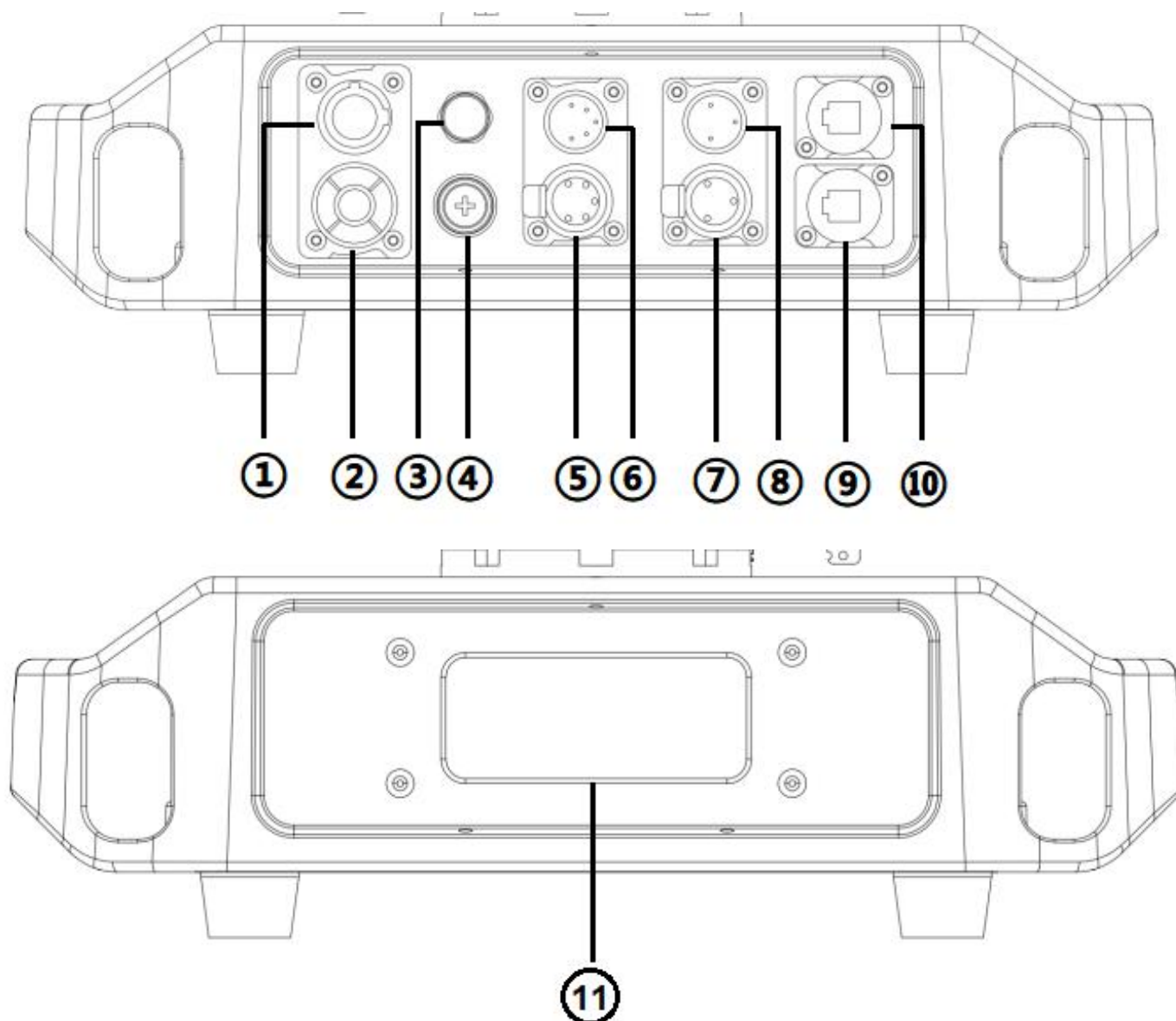
Magenta

2.Dimension and Photometric Diagram



Dist.	5 M	8 M	10M	15M
				
2.3°Lux	172,000	57800	42300	11,100
Beam Diameter	0.2M	0.325M	0.5M	0.62
54° Lux	1050	401	285	236
Beam Diameter	5.15M	8.1M	10.3M	16.5M

3. Overview

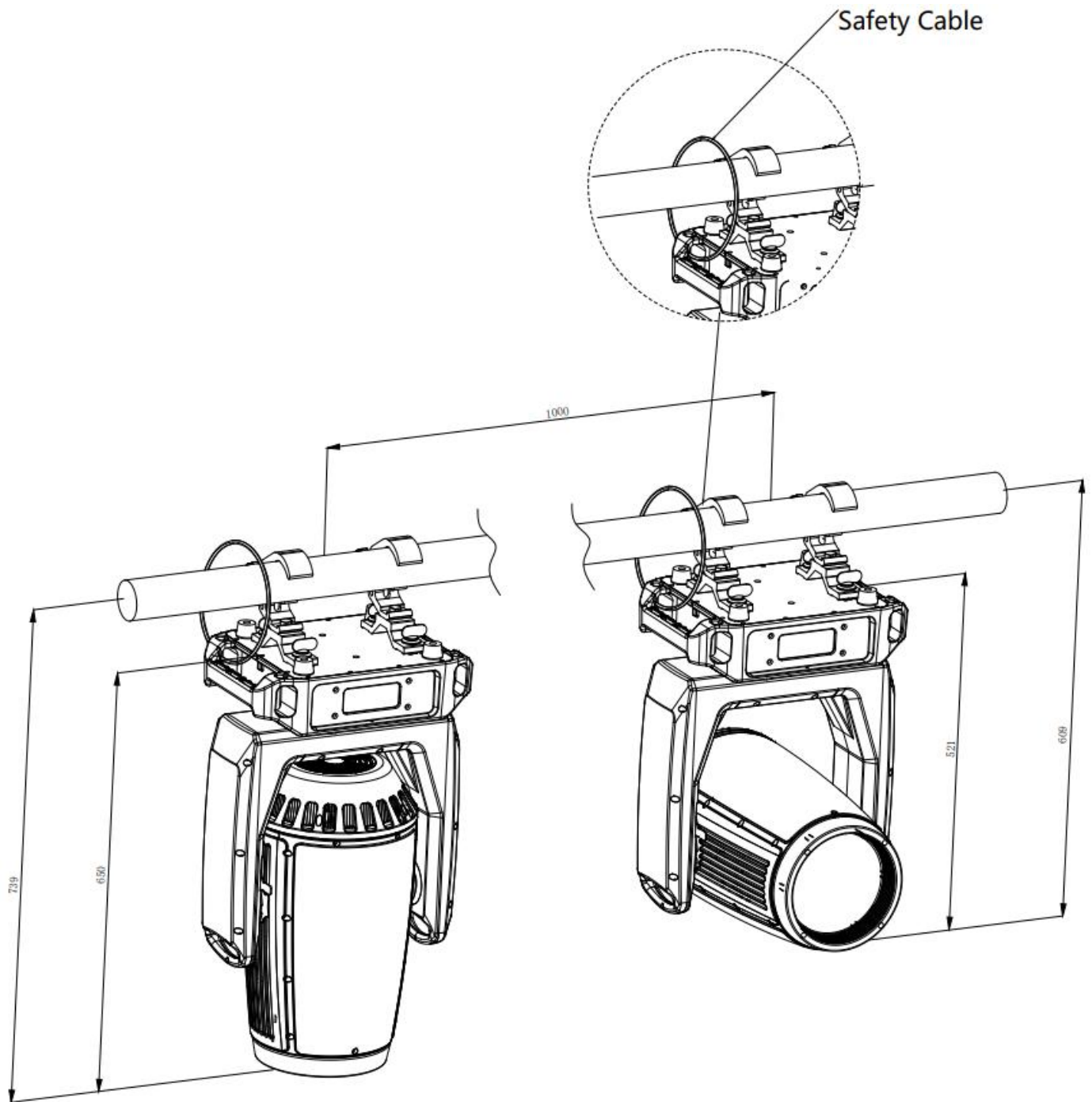


- (1) Seetronic Power In
- (2) Seetronic Power Out
- (3) Valve
- (4) Fuse
- (5) 5 Pin DMX Out
- (6) 5 Pin DMX In
- (7) 3 Pin DMX Out
- (8) 3 Pin DMX In
- (9) Ethernet Out
- (10) Ethernet In
- (11) Display

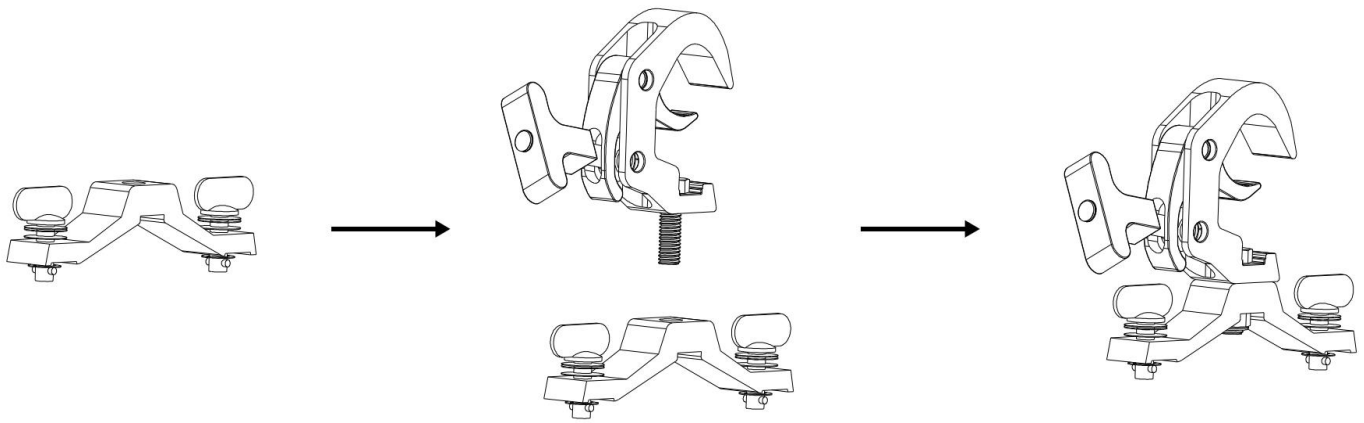
4. Fixture Installation

- DO install and operate by qualified operator. Fixture(s) should be installed in areas outside walking paths, seating areas, or away from areas where unauthorized personnel might reach the fixture by hand. NEVER stand directly below the fixture(s) when rigging, removing or servicing.

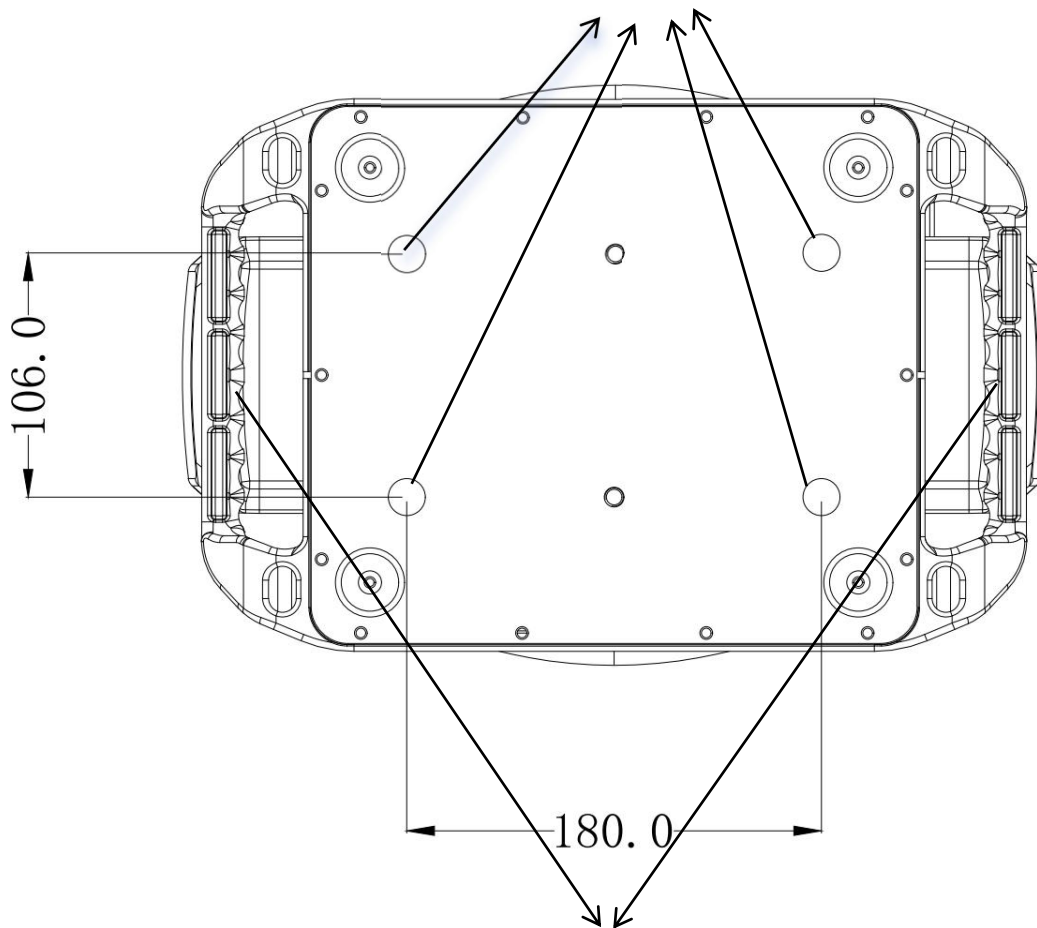
- Always ensure that the unit is firmly fixed to avoid vibration and slipping off during operation. Ensure that the trussing or area of installation must be able to hold 10 times the weight without any deformation. Always attach a safety cable that can hold at least 12 times the weight of the fixture whenever installing this fixture in a suspended environment to ensure that the fixture will not fall if the clamp fails.



4.1 Steps for installing omega brackets



Omega Bracket Attachment Points



Safety Cable Attachment Points

5. Control Menu

Address	001-512		
Channel Mode	25CH		
	35 CH		
Setting	Control Mode	DMX	
		ArtNet	
		sACN	
		Auto Test	
	ArtNet to 512	No/Yes	
	Status Setting	Signal Keep	No/Yes
		Invert Pan	No/Yes
		Invert Tilt	No/Yes
		Move Light	No/Yes
		Pan&Tilt	No/Yes
		Power Set	High/Low power
	Dimmer Curve	Linear	
		Square	
		I-Square	
		S-Shape	
	Dimmer Speed	Fast	
		Smooth	
	Dimmer Frequency	400Hz / 1200Hz / 2000Hz / 4000Hz 6000Hz / 8000Hz / 16KHz / 24KHz	8000Hz as default
	Fan Mode	Auto	
		Silent	
		Full	
		Ultra Silent	
	Display Setting	Screen Backlight	On/10s/30s/1min
		Invert Screen	Off/On
		Screen Lock	No/Yes
		Language	Chinese/English
	Calibration	Pan	001-255
		Tilt	001-255
		...	
		Focus Rot 1~7	001-255
	Load Default	No/Yes	
Network	Network	Ethernet	IP:002.000.000.001
			MS:255.000.000.000
			OK
		Universe	Net(0-127):000 Sub-Uni:000
Manual	Pan	0-255	
	Pan Fine	0-255	
	Tilt	0-255	
	Tilt Fine	0-255	
	P-T Speed	0-255	
	Cyan	0-255	
	Magenta	0-255	
	Yellow	0-255	
	
	Marco	0-255	
Reset	Reset Effect		
	Reset Scan		
	Reset All		

6. DMX Channel

25 Channel Mode

CH	FUNCTION	VALUE	Description
1	Pan	0-255	0° → 540°
2	Tilt	0-255	0° → 270°
3	Cyan	0-255	0-100%
4	Magenta	0-255	0-100%
5	Yellow	0-255	0-100%
6	Color Temperature	0-255	0-100%
7	CRI	0-127	CRI Filter Out
		128-255	CRI Filter In
8	Color Wheel	000 - 005	WHITE
		006 - 110	White light → Color 1.. Color 6 → White light Linear movement
		111 - 125	WHITE
		126 - 130	Color 1
		131 - 135	Color 2
		136 - 140	Color 3
		141 - 145	Color 4
		146 - 150	Color 5
		151 - 155	Color 6
		156 - 160	Color 7
		161 - 165	Color 8
		166 - 170	Color 9
		171 - 175	Color 10
		176 - 180	WHITE
		181 - 215	Color wheel reverses from fast to slow
		216 - 220	STOP
		221 - 255	The color wheel rotates from slow to fast
9	Gobo wheel	0-5	White light
		6-10	Gobo 1
		11-15	Gobo 2
		16-20	Gobo 3
		21-25	Gobo 4
		26-30	Gobo 5
		31-35	Gobo 6
		36-40	Gobo 7
		41-45	Gobo 8
		46-50	Gobo 9
		51-55	Gobo 10

		56-60	Gobo 1 shakes from slow to fast
		61-65	Gobo 2 shakes from slow to fast
		66-70	Gobo 3 shakes from slow to fast
		71-75	Gobo 4 shakes from slow to fast
		76-80	Gobo 5 shakes from slow to fast
		81-85	Gobo 6 shakes from slow to fast
		86-90	Gobo 7 shakes from slow to fast
		91-95	Gobo 8 shakes from slow to fast
		96-100	Gobo 9 shakes from slow to fast
		101-105	Gobo 10 shakes from slow to fast
		106-175	Counterclockwise flow from fast to slow
		176 - 180	Stop water flow
		181-255	Clockwise flow from slow to fast
10	Gobo wheel Rotate	0-127	Slide, 0-360°
		128-190	Counterclockwise rotation, from fast to slow
		191-192	STOP
		193-255	Rotate clockwise, from slow to fast
11	Pattern	0-5	White light
		6-10	Pattern 1
		11-15	Pattern 2
		16-20	Pattern 3
		21-25	Pattern 4
		26-30	Pattern 5
		31-35	Pattern 6
		36-40	Pattern 7
		41-45	Pattern 8
		46-50	Pattern 9
		51-55	Pattern 10
		56-60	Pattern 11
		61-65	Pattern 12
		66-70	Pattern 13
		71-75	Pattern 14
		76-80	Pattern 1 shakes from slow to fast
		81-85	Pattern 2 shakes from slow to fast
		86-90	Pattern 3 shakes from slow to fast
		91-95	Pattern 4 shakes from slow to fast
		96-100	Pattern 5 shakes from slow to fast
		101-105	Pattern 6 shakes from slow to fast
		106-110	Pattern 7 shakes from slow to fast

		111-115	Pattern 8 shakes from slow to fast
		116 - 120	Pattern 9 shakes from slow to fast
		121 - 125	Pattern 10 shakes from slow to fast
		126 - 130	Pattern 11 shakes from slow to fast
		131 - 135	Pattern 12 shakes from slow to fast
		136 - 140	Pattern 13 shakes from slow to fast
		141 - 145	Pattern 14 shakes from slow to fast
		146-200	Counterclockwise flow from fast to slow
		201-205	Stop water flow
		206-255	Clockwise flow from slow to fast
12	Pattern Effect	0-9	Close
		7-63	Linear Insertion
		64-126	Stop
13	Effect Wheel Rotation	0	Stop
		1-85	Clockwise rotation, fast to slow
		86-90	Stop
		91-175	Counter-clockwise rotation, slow to fast
		176-180	Stop
		181-255	Bouncing, slow to fast (without Open)
14	Prism 1	0-7	Prism 1 cut out
		8-255	Prism 1 cut in
15	Prism 1 Rotating	0-127	Slide, 0-360°
		128-189	Counterclockwise rotation, fast to slow
		190-193	Stop
		194-255	Counter-clockwise rotation, slow to fast
16	Prism 2	0-7	Prism 2 cut out
		8-255	Prism 2 cut in
17	Prism 2 Rotating	0-127	Slide, 0-360°
		128-189	Counterclockwise rotation, fast to slow
		190-193	Stop
		194-255	Counter-clockwise rotation, slow to fast
18	Frost 1	0-5	Close
		6-105	Frost insertion, Min to Max
		106-205	Frost insertion, Max to Min
		206-255	All insertion
19	Zoom	0-255	Min to Max
20	Zoom Fine	0-255	0-100%
21	Focus	0-255	
22	Focus Fine	0-255	

23	Strobe	0-3	Close
		4-99	Synchronized Strobe
		100-149	Pulse Strobe
		150-199	Flash Strobe
		200-249	Random Strobe
		250-255	Open
24	Dimmer	0-255	0-100%
25	Macro	000 - 005	No function
		006 - 020	Horizontal reverse open
		021 - 025	Horizontal reverse close
		026 - 030	Vertical reverse open
		031 - 035	Vertical reverse close
		036 - 040	Mobile light blocking ON
		041 - 045	Mobile light blocking OFF
		046 - 050	No function
		051 - 055	Fan set to auto mode
		056 - 060	Fan set to high speed mode
		061 - 065	Fan set to high Silent mode
		066 - 070	Fan set to ultra-quiet mode
		071 - 075	Curve Linear
		076 - 080	Curve Square
		081 - 085	Curve Inv Square
		086 - 090	Curve S
		091 - 095	400Hz
		096 - 100	1200Hz
		101 - 105	2000Hz
		106 - 110	4000Hz
		111 - 115	6000Hz
		116 - 120	8000Hz
		121 - 125	16KHz
		126 - 130	24KHz
		131 - 135	Display backlight on
		136 - 140	Display backlight for 15 s
		141 - 145	Display backlight for 30 s
		146 - 150	Display backlight for 60 s
		151 - 155	Dimmer Speed Smooth
		156 - 160	Dimmer Speed Fast
		161 - 165	Reset Pan/Tilt
		166 - 170	Reset Moving Head
		171 - 175	Reset All
		176 - 180	Signal Keep on
		181 - 185	Signal Keep off
		186 - 255	No function

35 Channel Mode

CH	FUNCTION	VALUE	Description
1	Pan	0-255	0°→ 540°
2	Pan Fine	0-255	16-bit fine control
3	Tilt	0-255	0°→ 270°
4	Tilt Fine	0-255	16-bit fine control
5	P&T Speed	0-255	Fast to slow
6	Cyan	0-255	0-100%
7	Cyan Fine	0-255	
8	Magenta	0-255	0-100%
9	Magenta Fine	0-255	
10	Yellow	0-255	0-100%
11	Yellow Fine		
12	Color Temperature	0-255	0-100%
13	CTO Fine		
14	CRI	0-127	CRI Filter Out
		128-255	CRI Filter In
15	Color Wheel	000 - 005	WHITE
		006 - 110	White light → Color 1.. Color 6 → White light Linear movement
		111 - 125	WHITE
		126 - 130	Color 1
		131 - 135	Color 2
		136 - 140	Color 3
		141 - 145	Color 4
		146 - 150	Color 5
		151 - 155	Color 6
		156 - 160	Color 7
		161 - 165	Color 8
		166 - 170	Color 9
		171 - 175	Color 10
		176 - 180	WHITE
		181 - 215	Color wheel reverses from fast to slow
		216 - 220	STOP
		221 - 255	The color wheel rotates from slow to fast
16	Color Wheel Fine	0-255	Color wheel CW rotation, slow to fast
17	Gobo wheel	0-5	White light
		6-10	Gobo 1
		11-15	Gobo 2
		16-20	Gobo 3
		21-25	Gobo 4
		26-30	Gobo 5
		31-35	Gobo 6

		36-40	Gobo 7
		41-45	Gobo 8
		46-50	Gobo 9
		51-55	Gobo 10
		56-60	Gobo 1 shakes from slow to fast
		61-65	Gobo 2 shakes from slow to fast
		66-70	Gobo 3 shakes from slow to fast
		71-75	Gobo 4 shakes from slow to fast
		76-80	Gobo 5 shakes from slow to fast
		81-85	Gobo 6 shakes from slow to fast
		86-90	Gobo 7 shakes from slow to fast
		91-95	Gobo 8 shakes from slow to fast
		96-100	Gobo 9 shakes from slow to fast
		101-105	Gobo 10 shakes from slow to fast
		106-175	Counterclockwise flow from fast to slow
		176 - 180	Stop water flow
		181-255	Clockwise flow from slow to fast
18	Gobo wheel Rotate	0-127	Slide, 0-360°
		128-190	Counterclockwise rotation, from fast to slow
		191-192	STOP
		193-255	Rotate clockwise, from slow to fast
19	Gobo Rotate Fine	0-255	Rotating Fine 0-100%
20	Pattern	0-5	White light
		6-10	Pattern 1
		11-15	Pattern 2
		16-20	Pattern 3
		21-25	Pattern 4
		26-30	Pattern 5
		31-35	Pattern 6
		36-40	Pattern 7
		41-45	Pattern 8
		46-50	Pattern 9
		51-55	Pattern 10
		56-60	Pattern 11
		61-65	Pattern 12
		66-70	Pattern 13
		71-75	Pattern 14
		76-80	Pattern 1 shakes from slow to fast
		81-85	Pattern 2 shakes from slow to fast
		86-90	Pattern 3 shakes from slow to fast

		91-95	Pattern 4 shakes from slow to fast
		96-100	Pattern 5 shakes from slow to fast
		101-105	Pattern 6 shakes from slow to fast
		106-110	Pattern 7 shakes from slow to fast
		111-115	Pattern 8 shakes from slow to fast
		116 - 120	Pattern 9 shakes from slow to fast
		121 - 125	Pattern 10 shakes from slow to fast
		126 - 130	Pattern 11 shakes from slow to fast
		131 - 135	Pattern 12 shakes from slow to fast
		136 - 140	Pattern 13 shakes from slow to fast
		141 - 145	Pattern 14 shakes from slow to fast
		146-200	Counterclockwise flow from fast to slow
		201-205	Stop water flow
		206-255	Clockwise flow from slow to fast
21	Pattern Effect	0-9	Close
		7-63	Linear Insertion
		64-126	Stop
22	Effect Wheel Rotation	0	Stop
		1-85	Clockwise rotation, fast to slow
		86-90	Stop
		91-175	Counter-clockwise rotation, slow to fast
		176-180	Stop
		181-255	Bouncing, slow to fast (without Open)
23	Prism 1	0-7	Prism 1 cut out
		8-255	Prism 1 cut in
24	Prism 1 Rotating	0-127	Slide, 0-360°
		128-189	Counterclockwise rotation, fast to slow
		190-193	Stop
		194-255	Counter-clockwise rotation, slow to fast
25	Prism 2	0-7	Prism 2 cut out
		8-255	Prism 2 cut in
26	Prism 2 Rotating	0-127	Slide, 0-360°
		128-189	Counterclockwise rotation, fast to slow
		190-193	Stop
		194-255	Counter-clockwise rotation, slow to fast
27	Frost 1	0-5	Close
		6-105	Frost insertion, Min to Max
		106-205	Frost insertion, Max to Min
		206-255	All insertion

28	Zoom	0-255	Min to Max
29	Zoom Fine	0-255	0-100%
30	Focus	0-255	
31	Focus Fine	0-255	
32	Strobe	0-3	Close
		4-99	Synchronized Strobe
		100-149	Pulse Strobe
		150-199	Flash Strobe
		200-249	Random Strobe
		250-255	Open
33	Dimmer	0-255	0-100%
34	Dimmer Fine	0-255	
35	Macro	000 - 005	No function
		006 - 020	Horizontal reverse open
		021 - 025	Horizontal reverse close
		026 - 030	Vertical reverse open
		031 - 035	Vertical reverse close
		036 - 040	Mobile light blocking ON
		041 - 045	Mobile light blocking OFF
		046 - 050	No function
		051 - 055	Fan set to auto mode
		056 - 060	Fan set to high speed mode
		061 - 065	Fan set to high Silent mode
		066 - 070	Fan set to ultra-quiet mode
		071 - 075	Curve Linear
		076 - 080	Curve Square
		081 - 085	Curve Inv Square
		086 - 090	Curve S
		091 - 095	400Hz
		096 - 100	1200Hz
		101 - 105	2000Hz
		106 - 110	4000Hz
		111 - 115	6000Hz
		116 - 120	8000Hz
		121 - 125	16KHz
		126 - 130	24KHz
		131 - 135	Display backlight on
		136 - 140	Display backlight for 15 s
		141 - 145	Display backlight for 30 s
		146 - 150	Display backlight for 60 s
		151 - 155	Dimmer Speed Smooth
		156 - 160	Dimmer Speed Fast
		161 - 165	Reset Pan/Tilt
		166 - 170	Reset Moving Head

		171 - 175	Reset All
		176 - 180	Signal Keep on
		181 - 185	Signal Keep off
		186 - 255	No function