KRAKEN

User Manual

Please read the instruction carefully before use

CONTENTS

01/ Safety Instructions

Please read the instruction carefully which includes important information about the installation, usage and maintenance.

WARNING

Please keep this User Guide 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.
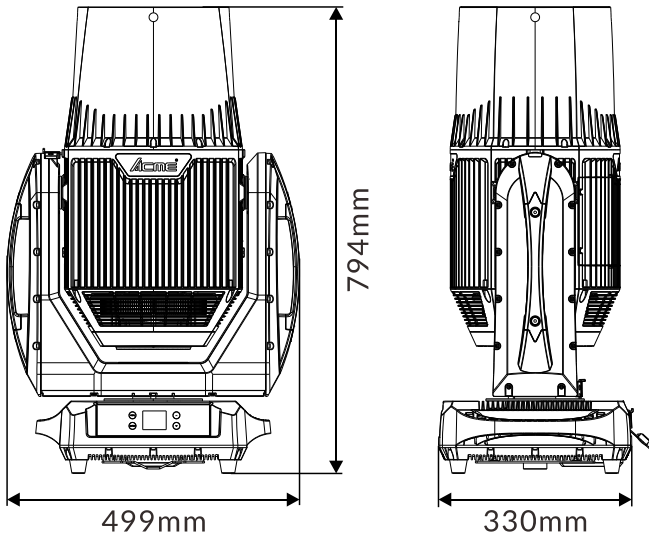
- Unpack and check carefully to ensure that there is no transportation damage before using the unit.
- This product is suitable for wet locations. Do not immerse in water.
- DO install and operate by qualified operator.
- DO NOT allow children to operate the fixture.
- Use safety chain when fixing the 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: 0℃. Maximum ambient temperature TA: 40℃. 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 75℃. DO NOT touch the housing bare-handed during its operation.
- Avoid any flammable liquids, water or metal from entering the unit. Once it happens, cut
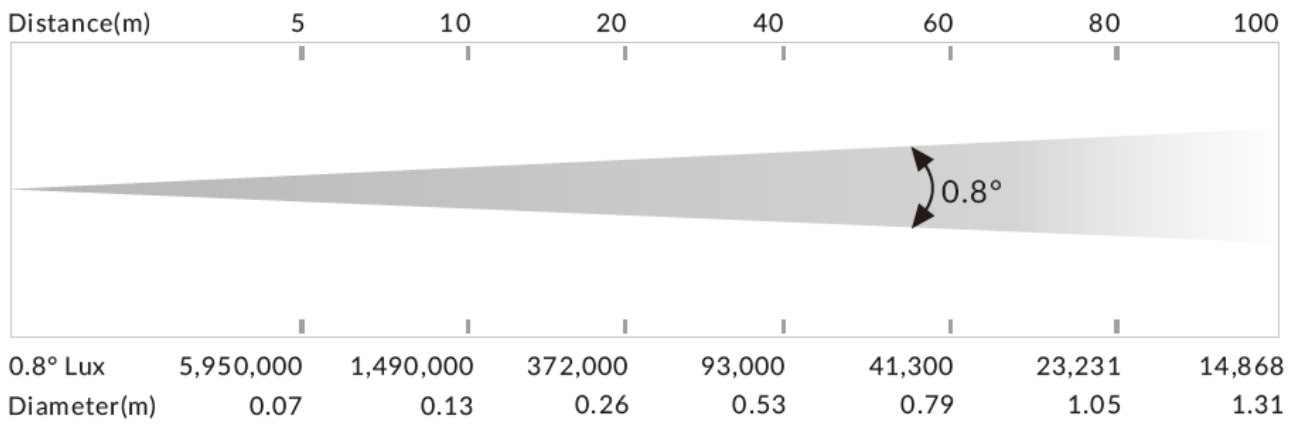
off the mains power immediately.

- 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 24 meters.
- 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.
- 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.

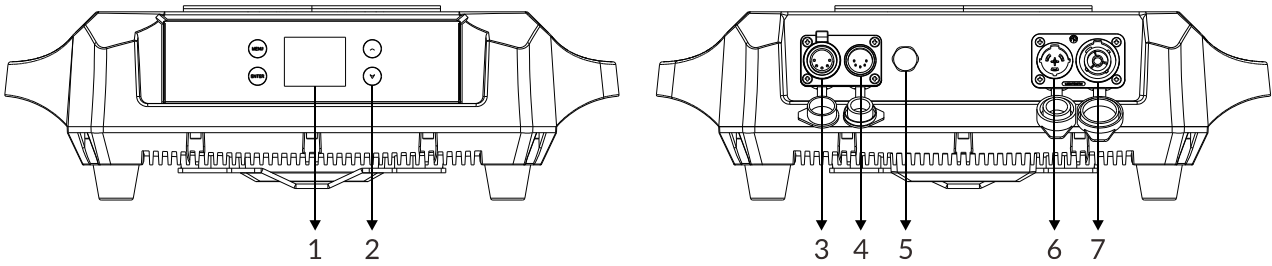|		
Power Voltage	100-240V~ 50/60Hz	
Power Consumption	405W	
Light Source	BLL260-80	
Color Temperature	7000K-9000K	
Beam Angle	0.8°	
Dimmer/Strobe	0-100% smooth dimming; Outstanding strobe effect with variable speed	
Color Wheel	Color Wheel	15 colors plus open with rainbow effect
Gobo Wheel	Rotating Gobo Wheel	11 gobos plus open, convenient replacement
Movement	Pan	540°
	Tilt	260°
	Pan/Tilt Resolution	16 bit
	Automatic pan/tilt position correction	
	Fixation	Pan/Tilt lock
Control	DMX Channel	18 Channels
	Control Mode	DMX512
		RDM
	Firmware Upgrade	Firmware Upgrade via DMX link
Construction	Display	LCD display
	Data In/Out	5-pin IP XLR (3-pin IP XLR is optional)
	Power In/Out	Waterproof Power Connector in/out
	Protection Rating	IP66
Features	Motorized focus	
	2 x prisms: 8-facet prism + 24-facet prism, capable of bidirectional rotation and superposition	
	IP66 protection rotating, can be used outdoors all year round	
Dimensions	499x330x794mm	19.6"x13"x31.3"in
Weight	44kgs	97lbs

794mm

499mm

330mm

Photometric Diagram:

Distance(m)	5	10	20	40	60	80	100
					0.8°		
0.8° Lux	5,950,000	1,490,000	372,000	93,000	41,300	23,231	14,868
Diameter(m)	0.07	0.13	0.26	0.53	0.79	1.05	1.31

03/ Control Panel

1. Display	To show the various menus and the selected function	
2. Buttons	MENU	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
	ENTER	To perform the desired functions
3. DMX OUT	For DMX512 link, use 5-pin XLR cable to link the next units to output DMX signal (3-pin XLR cable is optional)	
4. DMX IN	For DMX512 link, use 5-pin XLR cable to link the unit and DMX controller to input DMX signal (3-pin XLR cable is optional)	
5. RELEASE VALVE		
6. POWER IN	To connect to supply power	
7. POWER OUT	To connect to the next fixture	

04/ 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 were 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.

▸ This fixture is fully operational in two different mounting positions: hanging upside-down, or standing on the floor. DO NOT mount this fixture sideways on trussing. Always use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.
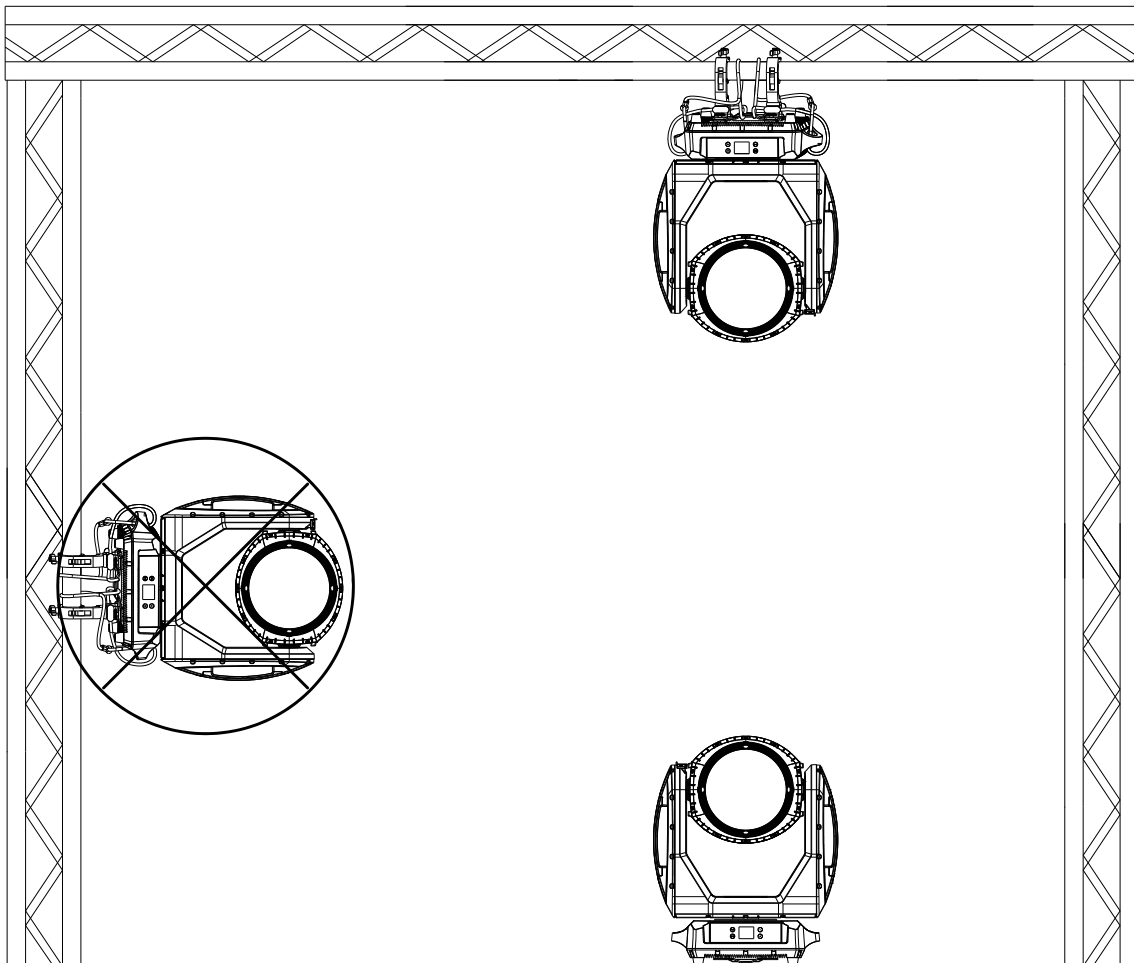
4.1 Steps for Installing Omega Brackets to the Fixture

OMEGA BRACKET
ATTACHMENT POINTS

140mm

140mm

SAFETY CABLE
ATTACHMENT POINT

CLAMP

OMEGA
BRACKET

SAFETY CABLE

SAFETY CABLE   SAFETY CABLE

A

B

Wrap the safety cables as A or B shows.
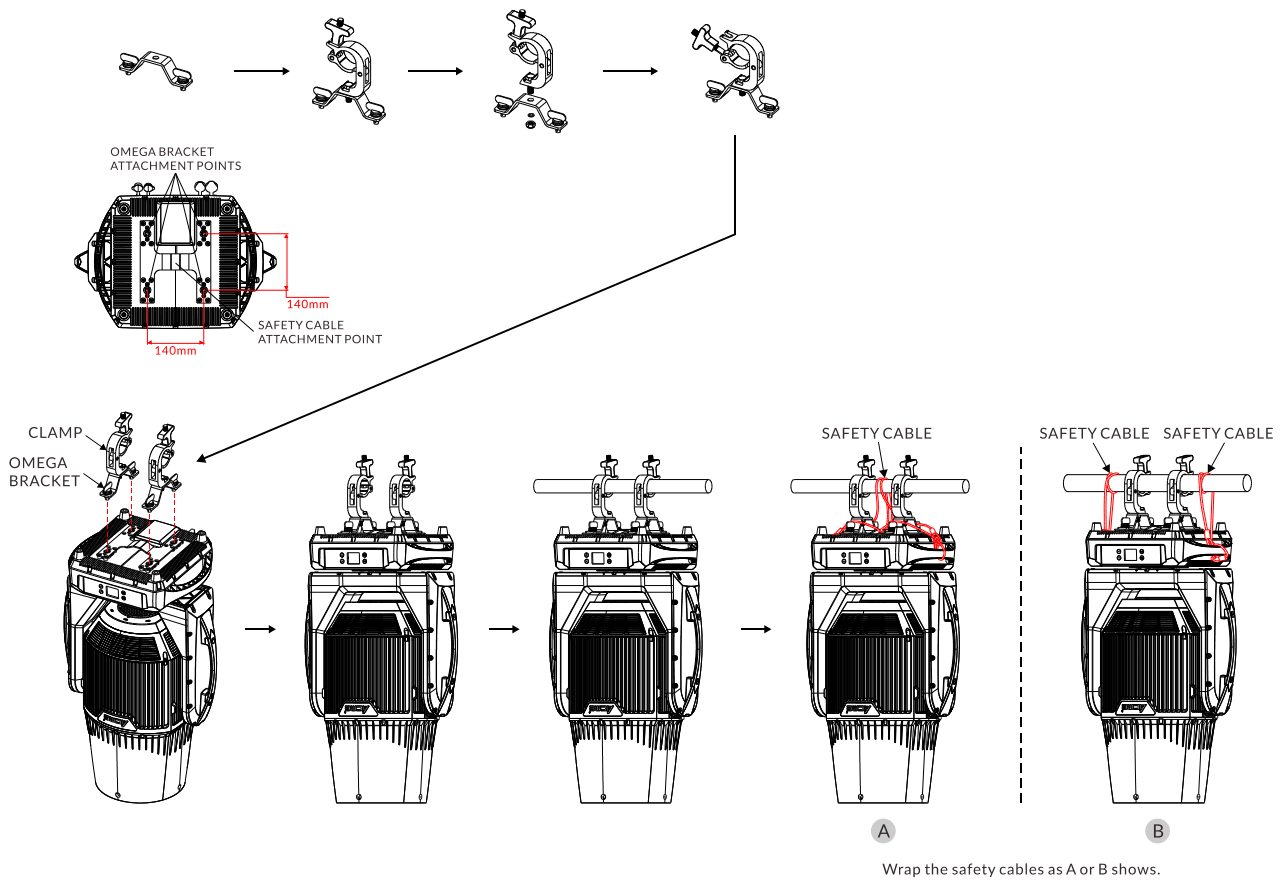
Caution: For security reasons, you need to loop and wrap safety cables through fixture base handle and route and wrap through center bracket on fixture base (A). Or pull the safety cables through the handle and around the truss (B).

The safety cable must be secured to keep from interfering with the pan and tilt movement of the fixture.

1. As shown in the figure, open the cover (1) on the side of the fixture and take out the gobo component (2); then open the fixture head cover (3) and remove the prism component (4);
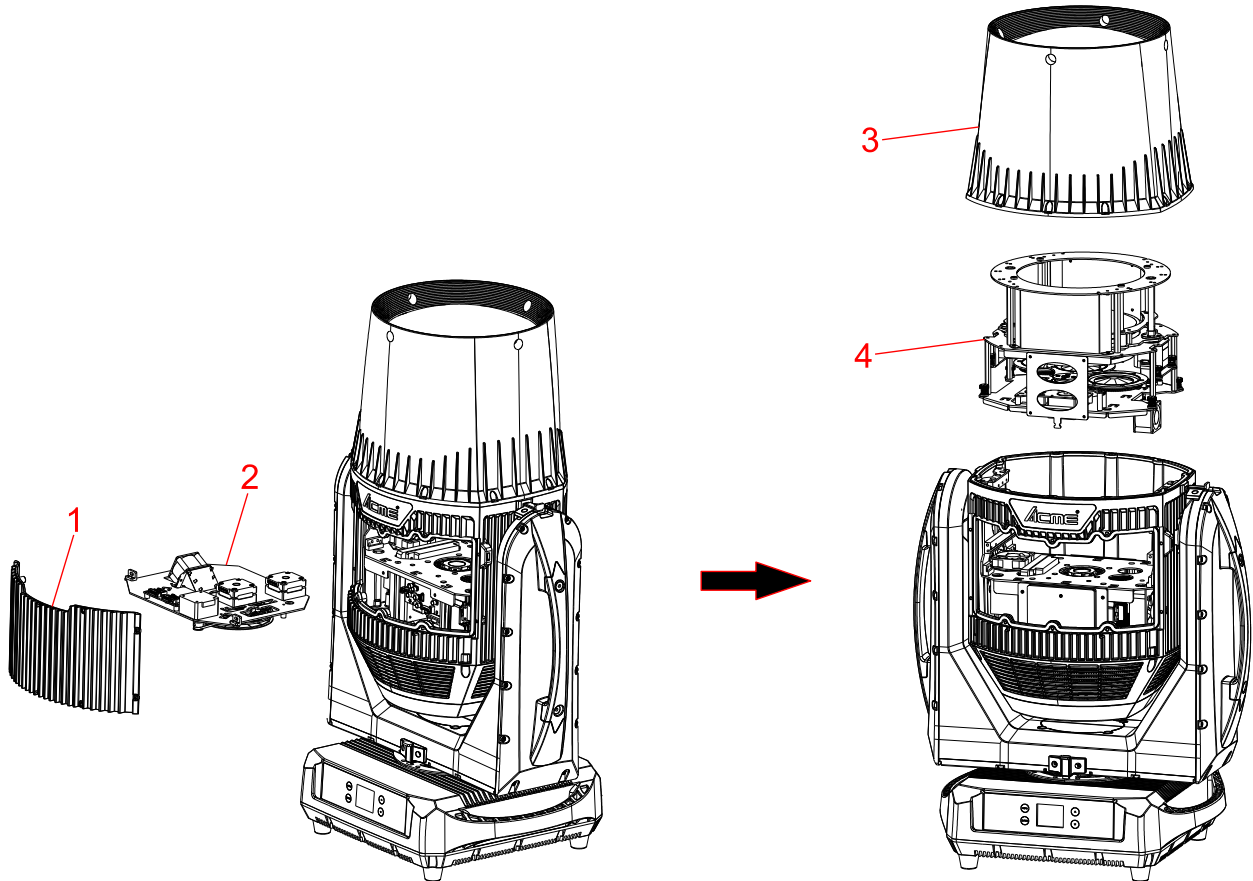
2. Remove the fan assembly (5) and the ventilation cover (6), then unscrew the screws (7) that connect the radiator to the head cover;
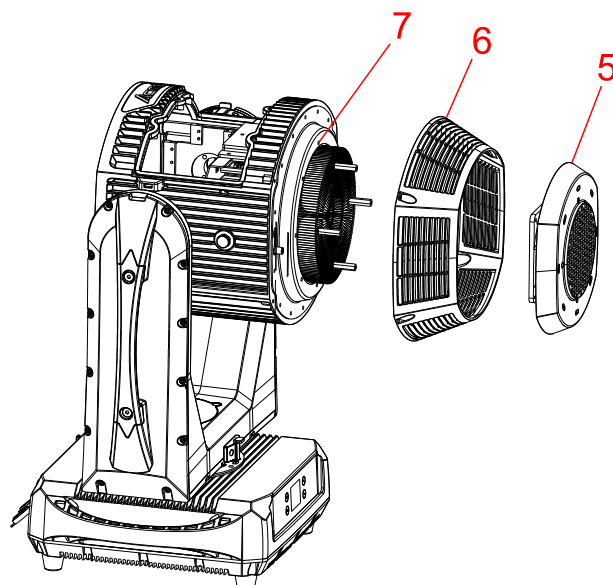
3. Remove the arm cover (8) and unplug the wires of the light source assembly, then take out the light source component (9);
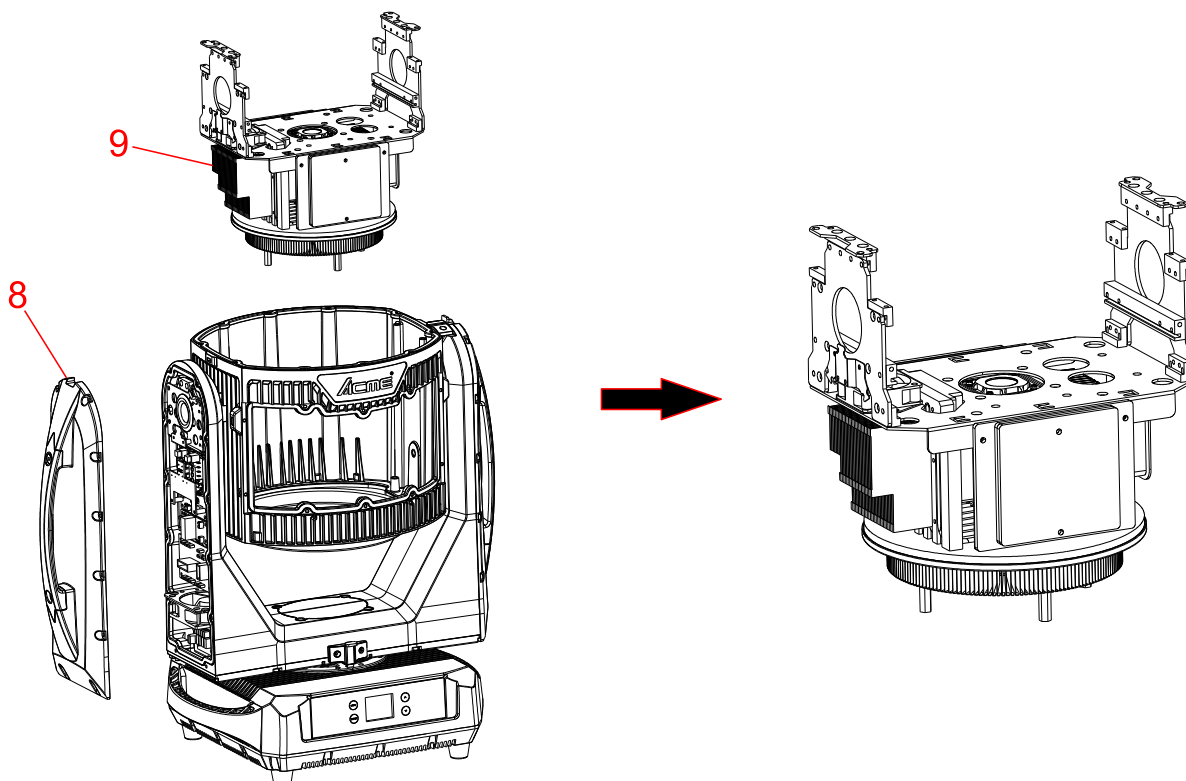
4. Unscrew the screws connecting the fan assembly and the light source module to separate the light source module (10);
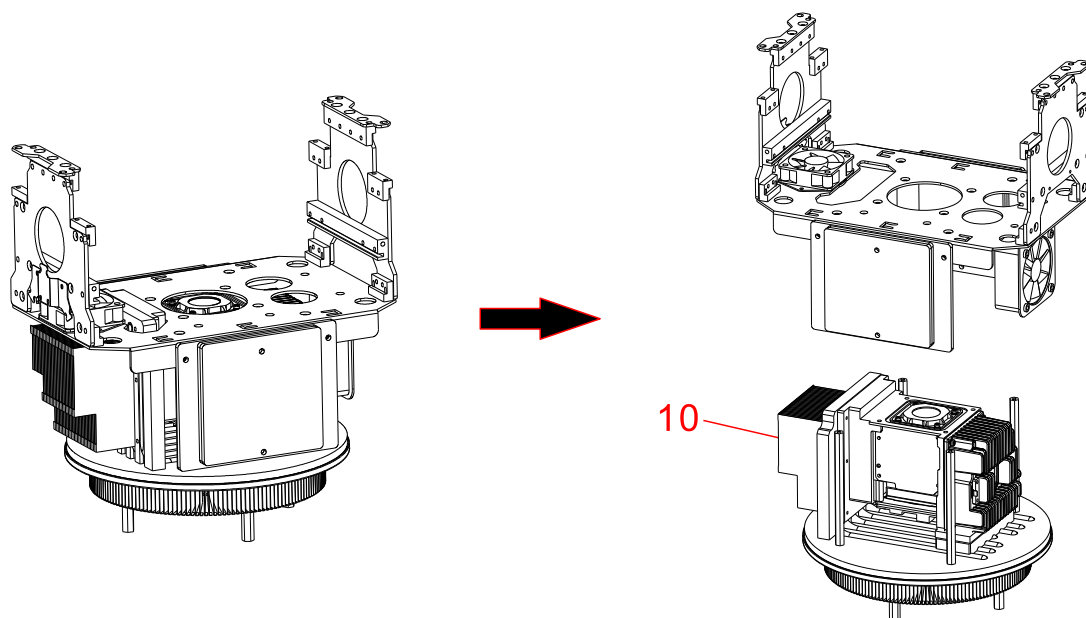
5. Unscrew the screws that connect the radiator (11) and the laser module (12) to separate them. Replace the old laser module with a new one and install it back into the fixture.
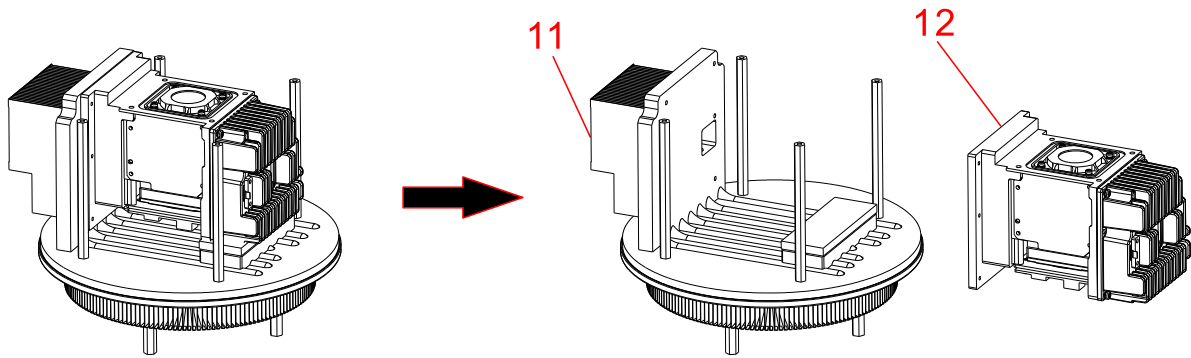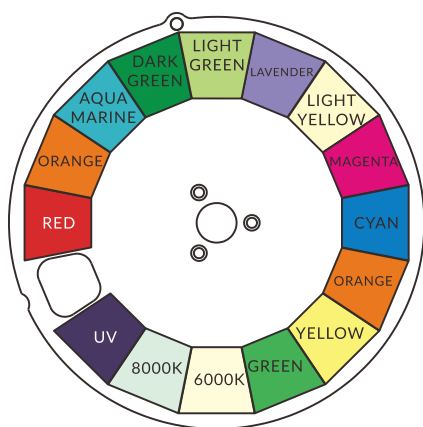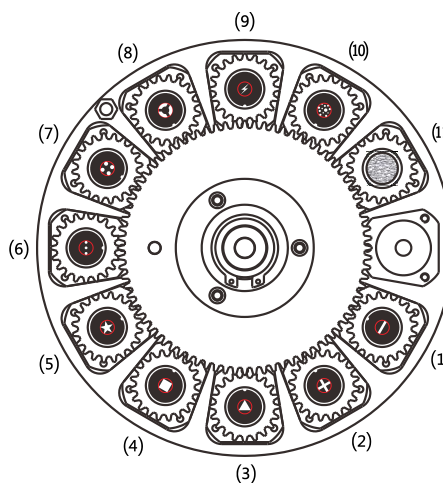
COLOR WHEEL   ROTATING GOBO WHEEL

DANGER!

Install the rotating gobos with the device switched off only.

Unplug from mains before changing the rotating gobos!

R-Gobos	Part Number
① Gobo1	3011001324
② Gobo2	3011001315
③ Gobo3	3011001313
④ Gobo4	3011001312
⑤ Gobo5	3011001316
⑥ Gobo6	3011001314
⑦ Gobo7	3011001319
⑧ Gobo8	3011001320
⑨ Gobo9	3011001322
⑩ Gobo10	3011001321
⑪ Gobo11	3011001318

9.8mm

4mm
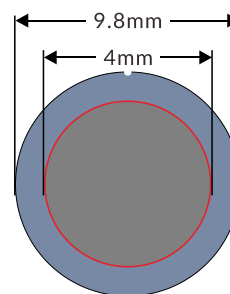
Rotating Gobos Dimensions

6.1 Main Functions

▶ To access the control menus, press the [MENU] button.

▶ Navigate the menu structure, using the [ENTER], [▲ UP] and [▼ DOWN] buttons.

▶ To select a menu option or to confirm a selection, press the [ENTER] button.

▶ To return to a higher level in the menu structure without making a change, press the [MENU] button, or wait 30 seconds.

> The screen will be automatically locked if there is no operation for a long time, and can be unlocked by long-pressing the [MENU] button.

The main functions are shown below:

MENU	SUBMENU	OPTIONS	
DMX Settings	DMX Address	1-495 (18 CH)	(Default=1)
	DMX Channel Mode	18 CH	
	No DMX Status	Blackout	
		Hold	
		Manual	
	View DMX Value		
Fixture Settings	Pan Invert	No	
		Yes	
	Tilt Invert	No	
		Yes	
	P/T Feedback	No	
		Yes	
	Pan/Tilt Speed	Slow	
		Fast	
Display Settings	Display Invert	No	
		Yes	
	Backlight Intensity	1-10	(Default=10)
	Temperature Unit	°C	
		°F	
	Language	English	
		Chinese	
Fixture Test	Auto Test		
	Manual Test	Clear	No/Yes
		Pan	0-255

MENU	SUBMENU	OPTIONS	
		Tilt	0-255
		Color	0-255
		Rotating Gobo	0-255
		R-Gobo	0-255
		Prism 1	0-255
		R-Prism 1	0-255
		Prism 2	0-255
		R-Prism 2	0-255
		Strobe	0-255
		Dimmer	0-255
		Focus	0-255
Fixture Information	Fixture Use Hour		
	Laser Use Hour	Total Laser Hour	
		Laser On Hour	
		Laser Hours Reset	Password=050
	Humidity		Cur	Max
		Head		
		Base		
	Temperature		Cur	Max
		Head		
		Base		
		Board		
		Laser		
	Fan State	H_FAN 1~6	
		A_FAN	
		B_FAN 1~2	
	Firmware Version		
	RDM UID		
	Error Logs	Fixture Errors	
		Reset Error Logs	No	
			Yes	Password=050
Reset Function	Pan/Tilt Reset	No	
		Yes	
	Effect Reset	No	
		Yes	
	All Reset	No	
		Yes	
Special Function	Factory Settings	No	
		Yes	

DMX Settings

Enter the control menu and select **DMX Settings**, press ENTER. Use the UP/DOWN button to select **DMX Address, DMX Channel Mode, No DMX Status** or **View DMX Value.**

DMX Address

> Select **DMX Address,** press ENTER.
>
> Use UP/DOWN button to select an address, confirm your selection with ENTER.

CHANNEL MODE	DMX ADDRESS
18 CH	1-495

> To exit the menu, press MENU, or wait 30 seconds.

DMX Channel Mode

> Select **DMX Channel Mode,** press ENTER.
>
> Use UP/DOWN button to select **18 CH**, confirm your selection with ENTER.
>
> To exit the menu, press MENU, or wait 30 seconds.

No DMX Status

> Select **No DMX Status,** press ENTER.
>
> Use UP/DOWN button to select one of the following status:
>
> **Blackout** (Fixture blacks out if DMX signal stops)
>
> **Hold** (The device continues to operate in the current mode with the last active DMX values until the signal returns)
>
> **Manual** (The device accepts the DMX value stored in the 'Manual Test' menu)
>
> Confirm your selection with ENTER.
>
> To exit the menu, press MENU, or wait 30 seconds.

View DMX Value

> Select **View DMX Value,** press ENTER.
>
> Use UP/DOWN button to select the desired DMX channel, for which the value is to be displayed.
>
> To exit the menu, press MENU, or wait 30 seconds.

Fixture Settings

Enter the control menu and select **Fixture Settings**, press ENTER. Use the UP/DOWN button to select **Pan Invert, Tilt Invert, P/T Feedback** or **Pan/Tilt Speed.**

Pan Invert

> Select **Pan Invert,** press ENTER.
>
> Use UP/DOWN button to select **No** (pan invert deactivated) or **Yes** (pan invert activated), confirm your selection with ENTER.
>
> To exit the menu, press MENU, or wait 30 seconds.

Tilt Invert

> Select **Tilt Invert,** press ENTER.
>
> Use UP/DOWN button to select **No** (tilt invert deactivated) or **Yes** (tilt invert activated), confirm your selection with ENTER.
>
> To exit the menu, press MENU, or wait 30 seconds.

P/T Feedback

> Select **P/T Feedback,** press ENTER.
>
> Use UP/DOWN button to select **No** (pan/tilt feedback deactivated) or **Yes** (pan/tilt feedback activated), confirm your selection with ENTER.
>
> To exit the menu, press MENU, or wait 30 seconds.

Pan/Tilt Speed

> Select **Pan/Tilt Speed,** press ENTER.
>
> Use UP/DOWN button to select **Slow** or **Fast**, confirm your selection with ENTER.
>
> To exit the menu, press MENU, or wait 30 seconds.

Display Settings

Enter the control menu and select **Display Settings**, press ENTER. Use the UP/DOWN button to select **Display Invert, Backlight Intensity, Temperature Unit** or **Language.**

Display Invert

> Select **Display Invert,** press ENTER.
>
> Use UP/DOWN button to select **No** (display normal) or **Yes** (display inverted), confirm your selection with ENTER.
>
> To exit the menu, press MENU, or wait 30 seconds.

Backlight Intensity

> Select **Backlight Intensity,** press ENTER.
>
> Use UP/DOWN button to select a value between **1** (dark) and **10** (bright), confirm your selection with ENTER.
>
> To exit the menu, press MENU, or wait 30 seconds.

Temperature Unit

> Select **Temperature Unit,** press ENTER.
>
> Use UP/DOWN button to select **°C** or **°F**, confirm your selection with ENTER.
>
> To exit the menu, press MENU, or wait 30 seconds.

Language

> Select **Language,** press ENTER.
>
> Use UP/DOWN button to select **English** or **Chinese**, confirm your selection with ENTER.
>
> To exit the menu, press MENU, or wait 30 seconds.

Fixture Test

Enter the control menu and select **Fixture Test**, press ENTER. Use the UP/DOWN button to select **Auto Test** or **Manual Test.**

Auto Test

> Select **Auto Test,** press ENTER.
>
> The device immediately performs an automatic self-test.
>
> To end the automatic self-test and exit the menu, press MENU, or wait 30 seconds.

Manual Test

> Select **Manual Test,** press ENTER.
>
> Use UP/DOWN button to select the channel for which the manual test is to be performed, confirm your selection with ENTER.
>
> Use UP/DOWN button to select a value, confirm your selection with ENTER.
>
> To exit the menu, press MENU, or wait 30 seconds.
>
> (The device returns to its original DMX state after the manual test. The test values are saved automatically when the device is switched off.)

Fixture Information

Enter the control menu and select **Fixture Information**, press ENTER. Use the UP/DOWN button to select **Fixture Use Hour, Laser Use Hour, Humidity, Temperature, Fan State, Firmware Version, RDM UID** or **Error Logs.**

Fixture Use Hour

> Select **Fixture Use Hour,** press ENTER.
>
> The operating hours is displayed.
>
> To exit the menu, press MENU, or wait 30 seconds.

Laser Use Hour

Select **Laser Use Hour,** press ENTER.

Use UP/DOWN button to select **Total Laser Hour** (total time) or **Laser On Hour** (current switch-on time), confirm your selection with ENTER.

The total time or current switch-on time is displayed.

Use UP/DOWN button to select **Laser Hours Reset**, confirm your selection with ENTER.

Use UP/DOWN button to set the password 050, confirm your selection with ENTER. The laser operating hours is reset.

To exit the menu, press MENU, or wait 30 seconds.

Humidity

Select **Humidity,** press ENTER.

The device humidity is displayed.

To exit the menu, press MENU, or wait 30 seconds.

Temperature

Select **Temperature,** press ENTER.

The device temperature is displayed.

To exit the menu, press MENU, or wait 30 seconds.

Fan State

Select **Fan State,** press ENTER.

The fan status is displayed.

To exit the menu, press MENU, or wait 30 seconds.

Firmware Version

Select **Firmware Version,** press ENTER.

The firmware version is displayed.

To exit the menu, press MENU, or wait 30 seconds.

RDM UID

Select **RDM UID,** press ENTER.

The RDM UID is displayed.

To exit the menu, press MENU, or wait 30 seconds.

Error Logs

Select **Error Logs,** press ENTER.

Use UP/DOWN button to select **Fixture Errors**, confirm your selection with ENTER.

The error list is displayed.

Use UP/DOWN button to select **Reset Error Logs**, confirm your selection with ENTER.

If you wish to reset the relevant error logs, select **Yes**. If you do not wish to reset anything, select **No**. Confirm your selection with ENTER.

If you select **Yes**, use UP/DOWN button to set the password 050, confirm your selection with ENTER. The relevant error logs are reset.

To exit the menu, press MENU, or wait 30 seconds.

Reset Function

Enter the control menu and select **Reset Function**, press ENTER. Use the UP/DOWN button to select **Pan/Tilt Reset, Effect Reset** or **All Reset.**

Pan/Tilt Reset

Select **Pan/Tilt Reset,** press ENTER.

Use UP/DOWN button to select **No** or **Yes** (the device will run built-in program to reset pan/tilt to their home positions), confirm your selection with ENTER.

To exit the menu, press MENU, or wait 30 seconds.

Effect Reset

Select **Effect Reset,** press ENTER.

Use UP/DOWN button to select **No** or **Yes** (the device will run built-in program to reset effect to their home positions), confirm your selection with ENTER.

To exit the menu, press MENU, or wait 30 seconds.

All Reset

> Select **All Reset,** press ENTER.
>
> Use UP/DOWN button to select **No** or **Yes** (the device will run built-in program to reset all to their home positions), confirm your selection with ENTER.
>
> To exit the menu, press MENU, or wait 30 seconds.

Special Function

Enter the control menu and select **Special Function**, press ENTER. Use the UP/DOWN button to select **Factory Settings.**

Factory Settings

> Select **Factory Settings,** press ENTER.
>
> If you wish to reset the device to the factory settings, select **Yes**. If you do not wish to reset anything, select **No**. Confirm your selection with ENTER.
>
> To exit the menu, press MENU, or wait 30 seconds.

RDM functions: Certain menus of the device and functions can be called up via the RDM protocol.

The parameter IDs are implemented as follows for different commands:

Parameter ID	Command 'Discovery'	Command 'Set'	Command 'Get'
DISC_UNIQUE_BRANCH	√		
DISC_MUTE	√		
DISC_UN_MUTE	√		
DEVICE_INFO			√
SUPPORTED_PARAMETERS			√
SOFTWARE_VERSION_LABEL			√
DMX_START_ADDRESS		√	√
IDENTIFY_DEVICE		√	√
DEVICE_MODEL_DESCRIPTION			√
PARAMETER_DESCRIPTION			√
MANUFACTURER_LABEL			√
DEVICE_LABEL		√	√
BOOT_SOFTWARE_VERSION_ID			√
BOOT_SOFTWARE_VERSION_LABEL			√
DMX_PERSONALITY		√	√
DMX_PERSONALITY_DESCRIPTION			√
SLOT_INFO			√
SLOT_DESCRIPTION			√
SENSOR_DEFINITION			√
SENSOR_VALUE			√
DEVICE_HOURS			√
LAMP_HOURS			√
PAN_INVERT		√	√
TILT_INVERT		√	√
RESET_DEVICE		√	

√ -Command implemented for the respective parameter ID

6.2 Home Position Adjustment

▸ To access the control menus, press the [MENU] button.

▸ To access the offset menus, long-press the [ENTER] button.

▸ Navigate the offset menus, using the [ENTER], [▲ UP] and [▼ DOWN] buttons.

▸ To select a menu option or to confirm a selection, press the [ENTER] button.

▸ To return to a higher level in the menu structure without making a change, press the [MENU] button, or wait 30 seconds.

OFFSET MENU	VALUES
Dimming Start	0~9999
Pan	-128~127
Tilt	-128~127
Color	-128~127
Rotating Gobo	-128~127
R-Gobo	-128~127
Prism 1	-128~127
R-Prism 1	-128~127
Prism 2	-128~127
R-Prism 2	-128~127
Focus	-128~127

Dimming Start

Select **Dimming Start,** press ENTER.

Use UP/DOWN button to select a value between 0 and 9999, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

Pan

Select **Pan,** press ENTER.

Use UP/DOWN button to select a value between -128 and 127, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

Tilt

Select **Tilt,** press ENTER.

Use UP/DOWN button to select a value between -128 and 127, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

Color

Select **Color,** press ENTER.

Use UP/DOWN button to select a value between -128 and 127, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

Rotating Gobo

Select **Rotating Gobo,** press ENTER.

Use UP/DOWN button to select a value between -128 and 127, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

R-Gobo

Select **R-Gobo,** press ENTER.

Use UP/DOWN button to select a value between -128 and 127, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

Prism 1

Select **Prism 1,** press ENTER.

Use UP/DOWN button to select a value between -128 and 127, confirm your selection with ENTER.

To exit the offset menu, press MENU, or wait 30 seconds.

R-Prism 1

> Select **R-Prism 1,** press ENTER.
>
> Use UP/DOWN button to select a value between -128 and 127, confirm your selection with ENTER.
>
> To exit the offset menu, press MENU, or wait 30 seconds.

Prism 2

> Select **Prism 2,** press ENTER.
>
> Use UP/DOWN button to select a value between -128 and 127, confirm your selection with ENTER.
>
> To exit the offset menu, press MENU, or wait 30 seconds.

R-Prism 2

> Select **R-Prism 2,** press ENTER.
>
> Use UP/DOWN button to select a value between -128 and 127, confirm your selection with ENTER.
>
> To exit the offset menu, press MENU, or wait 30 seconds.

Focus

> Select **Focus,** press ENTER.
>
> Use UP/DOWN button to select a value between -128 and 127, confirm your selection with ENTER.
>
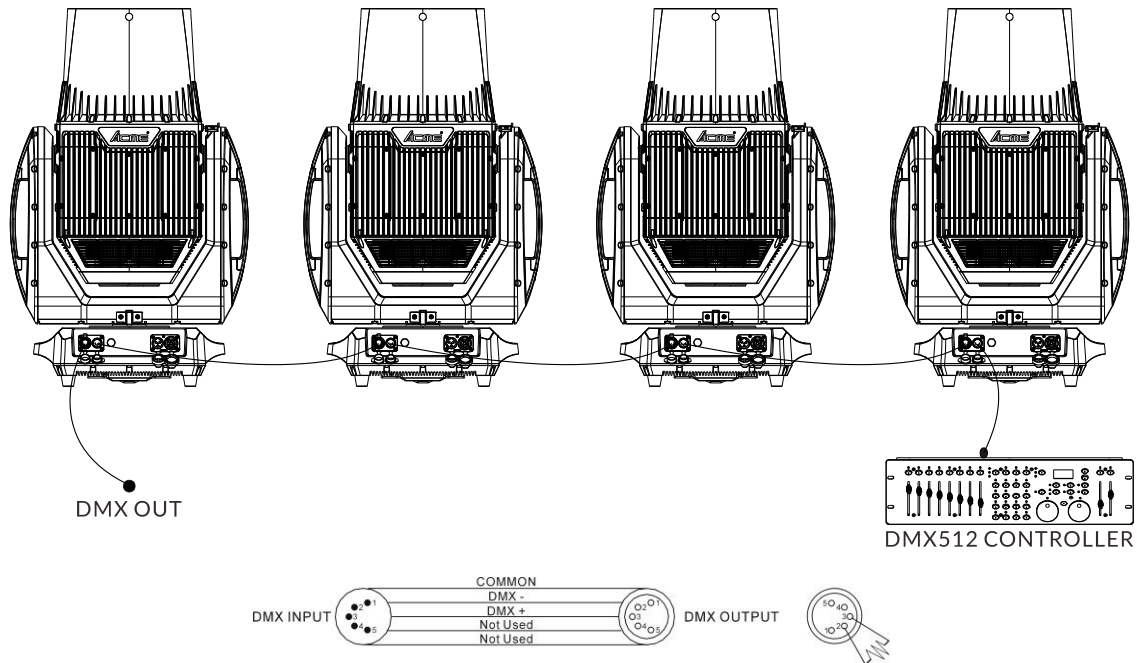> To exit the offset menu, press MENU, or wait 30 seconds.

7.1 DMX512 Connection

1. At last unit, the DMX cable has to be terminated with a terminator. Solder a 120-ohm 1/4W resistor between pin 2(DMX-) and pin 3(DMX+) into a 3-pin XLR-plug and plug it in the DMX-output of the last unit.

2. Connect the unit together in a "daisy chain" by XLR plug cable from the output of the unit to the input of the next unit. The cable can only be used in series and cannot be connected in parallel. DMX 512 is a very high-speed signal. Inadequate or damaged cables, soldered joints or corroded connectors can easily distort the signal and shut down the system.

3. The DMX output and input connectors are pass-through to maintain the DMX circuit, when one of the units' power is disconnected.

4. Each lighting unit needs to have a DMX address to receive the data by the controller. The address number is between 1-512.

5. The end of the DMX 512 system should be terminated to reduce signal errors.

6. 3 pin XLR connectors are more popular than 5 pins XLR.

    3 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)

    5 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+), Pin4, Pin5 not used.

7.2 Address Setting

If you use a universal DMX controller to control the units, you have to set DMX address between 1 and 512 so that the units can receive DMX signal.

Press the MENU button to access the control menus, select DMX Settings, press the ENTER button to confirm. Use the UP/DOWN button to select DMX Address, press the ENTER button to confirm, the present address will show on the display. Use the UP/DOWN button to adjust the address between 001 and 512, press the ENTER button to store. To exit the menu, press MENU, or wait 30 seconds.

Please refer to the following diagram to address your DMX512 channel for the first 4 units.

Channel Mode	Unit 1 Address	Unit 2 Address	Unit 3 Address	Unit 4 Address
18 channels	1	19	37	55

7.3 DMX512 Configuration

Please control the fixture by referring to the configurations below.

> Attentions:
> ▸ The unit will maintain the last condition until reset if you cut-off the DMX signal.
> ▸ For the channel Function, keep the value for about 3 seconds, then the corresponding function will take into effect.

18 Channels (Mode 1):

CHANNEL	VALUE	FUNCTION
1	000-255	PAN 0°→540°
2	000-255	PAN FINE
3	000-255	TILT 0°→260°
4	000-255	TILT FINE
5	000-255	PAN/TILT SPEED Fast to Slow
6	000-007 008-010	COLOR WHEEL Open Color 1

	011-013	Color 2
	014-016	Color 3
	017-019	Color 4
	020-022	Color 5
	023-025	Color 6
	026-028	Color 7
	029-031	Color 8
	032-034	Color 9
	035-037	Color 10
	038-040	Color 11
	041-043	Color 12
	044-046	Color 13
	047-049	Color 14
	050-063	Color 15
	064-127	Color Wheel Indexing
	128-189	Clockwise Rotation, Fast to Slow
	190-193	Stop
	194-255	Counter-Clockwise Rotation, Slow to Fast
7		**ROTATING GOBO WHEEL**
	000-007	Open
	008-012	Gobo 1
	013-017	Gobo 2
	018-022	Gobo 3
	023-027	Gobo 4
	028-032	Gobo 5
	033-037	Gobo 6
	038-042	Gobo 7
	043-047	Gobo 8
	048-052	Gobo 9
	053-057	Gobo 10
	058-063	Gobo 11
	064-068	Gobo1 Shaking, Slow to Fast
	069-073	Gobo 2 Shaking, Slow to Fast
	074-078	Gobo 3 Shaking, Slow to Fast
	079-083	Gobo 4 Shaking, Slow to Fast
	084-088	Gobo 5 Shaking, Slow to Fast
	089-093	Gobo 6 Shaking, Slow to Fast
	094-098	Gobo 7 Shaking, Slow to Fast
	099-103	Gobo 8 Shaking, Slow to Fast
	104-108	Gobo 9 Shaking, Slow to Fast
	109-113	Gobo 10 Shaking, Slow to Fast
	114-127	Gobo 11 Shaking, Slow to Fast
	128-189	Counter-Clockwise Rotation, Fast to Slow
	190-193	Stop
	194-255	Clockwise Rotation, Slow to Fast
8		**GOBO WHEEL ROTATION**
	000-127	Gobo Wheel Index, 0%→100%

	128-189	Clockwise Rotation, Fast to Slow
	190-193	Stop
	194-255	Counter-Clockwise Rotation, Slow to Fast
9		**PRISM 1 (24-facet prism)**
	000-007	Close
	008-255	Open
10		**R-PRISM 1**
	000-127	Index, 0%→100%
	128-189	Clockwise Rotation, Fast to Slow
	190-193	Stop
	194-255	Counter-Clockwise Rotation, Slow to Fast
11		**PRISM 2 (8-facet prism)**
	000-007	Close
	008-255	Open
12		**R-PRISM 2**
	000-127	Index, 0%→100%
	128-189	Clockwise Rotation, Fast to Slow
	190-193	Stop
	194-255	Counter-Clockwise Rotation, Slow to Fast
13		**STROBE**
	000-007	Close
	008-015	Open
	016-131	Strobe from Slow to Fast
	132-139	Open
	140-181	Slow Open Fast Close from Slow to Fast
	182-189	Open
	190-231	Fast Open Slow Close from Slow to Fast
	232-239	Open
	240-247	Random Strobe from Fast to Slow
	248-255	Open
14		**DIMMER**
	000-255	0%→100%
15	000-255	**DIMMER FINE**
16		**FOCUS**
	000-255	0%→100%
17	000-255	**FOCUS FINE**
18		**FUNCTION**
	000-139	No Function
	140-149	Reset Pan/Tilt
	150-159	Reset Effect
	160-199	No Function
	200-209	Reset All
	210-255	No Function

08/ Error Information

Error codes are shown continuously in the display when the fixture fails and they will not disappear until the fixture is repaired.

CPU-B/C/D Error

Check whether the 485 (DATA) leads on the PCB board are installed in place or disconnected.

Check whether the related 485 (DATA) signal circuit on the PCB board is damaged.

Pan Reset Error

Check whether the position of the pan where the magnet is installed falls off or is damaged.

Check whether there are obstacles in the pan operating range.

Check whether the Hall element on the pan is damaged.

Check whether the lead connecting the Hall element on the pan and the PCB board is in poor contact or disconnected.

Check whether the motor on the pan is damaged.

Check whether the related circuit of the motor drive board on the pan is damage.

Pan Encode Error

Check whether the encoder on the pan is damaged.

Check whether the lead connecting the encoder on the pan and the PCB board is in poor contact or disconnected.

Tilt Reset Error

Check whether the position of the tilt where the magnet is installed falls off or is damaged.

Check whether there are obstacles in the tilt operating range.

Check whether the Hall element on the tilt is damaged.

Check whether the lead connecting the Hall element on the tilt and the PCB board is in poor contact or disconnected.

Check whether the motor on the tilt is damaged.

Check whether the related circuit of the motor drive board on the tilt is damage.

Tilt Encode Error

Check whether the encoder on the tilt is damaged.

Check whether the lead connecting the encoder on the tilt and the PCB board is in poor contact or disconnected.

Color Reset Error

Check whether the position of the color wheel where the magnet is installed falls off or is damaged.

Check whether there are obstacles in the color wheel operating range.

Check whether the Hall element on the color wheel is damaged.

Check whether the lead connecting the Hall element on the color wheel and the PCB board is in poor contact or disconnected.

Check whether the motor on the color wheel is damaged.

Check whether the related circuit of the motor drive board on the color wheel is damage.

Gobo Reset Error

Check whether the position of the gobo wheel where the magnet is installed falls off or is damaged.

Check whether there are obstacles in the gobo wheel operating range.

Check whether the Hall element on the gobo wheel is damaged.

Check whether the lead connecting the Hall element on the gobo wheel and the PCB board is in poor contact or disconnected.

Check whether the motor on the gobo wheel is damaged.

Check whether the related circuit of the motor drive board on the gobo wheel is damage.

R-Gobo Reset Error

Check whether the position of the gobo wheel where the magnet is installed falls off or is damaged.

Check whether there are obstacles in the gobo wheel operating range.

Check whether the Hall element on the gobo wheel is damaged.

Check whether the lead connecting the Hall element on the gobo wheel and the PCB board is in poor contact or disconnected.

Check whether the motor on the gobo wheel is damaged.

Check whether the related circuit of the motor drive board on the gobo wheel is damage.

Prism 1/2 Reset Error

Check whether the position of the prism 1/2 where the magnet is installed falls off or is damaged.

Check whether there are obstacles in the prism 1/2 operating range.

Check whether the Hall element on the prism 1/2 is damaged.

Check whether the lead connecting the Hall element on the prism 1/2 and the PCB board is in poor contact or disconnected.

Check whether the motor on the prism 1/2 is damaged.

Check whether the related circuit of the motor drive board on the prism 1/2 is damage.

R-Prism 1/2 Reset Error

Check whether the position of the prism 1/2 where the magnet is installed falls off or is damaged.

Check whether there are obstacles in the prism 1/2 operating range.

Check whether the Hall element on the prism 1/2 is damaged.

Check whether the lead connecting the Hall element on the prism 1/2 and the PCB board is in poor contact or disconnected.

Check whether the motor on the prism 1/2 is damaged.

Check whether the related circuit of the motor drive board on the prism 1/2 is damage.

Focus Reset Error

Check whether the position of the focus where the magnet is installed falls off or is damaged.

Check whether there are obstacles in the focus operating range.

Check whether the Hall element on the focus is damaged.

Check whether the lead connecting the Hall element on the focus and the PCB board is in poor contact or disconnected.

Check whether the motor on the focus is damaged.

Check whether the related circuit of the motor drive board on the focus is damage.

Head Humidity Error

Check whether the humidity sensor is faulty.

Check whether the lead connecting the humidity sensor is installed in place or disconnected.

Base Humidity Error

Check whether the humidity sensor is faulty.

Check whether the lead connecting the humidity sensor is installed in place or disconnected.

Head Humidity Too High

Disassemble the housing of the fixture to dehumidify.

Base HumidityToo High

Disassemble the housing of the fixture to dehumidify.

HeadFan1/2/3/4/5/6 Start Err

Check whether the fan is not running.

Check whether the fan leads are installed in place or disconnected.

Check whether the fan is damaged.

Check whether there are obstacles in the fan operating range.

HeadFan1/2/3/4/5/6 Stop Err

Check whether the fan circuit on the motherboard breaks down.

Check whether the component is damaged.

HeadFan1/2/3/4/5/6 Too Low

Check whether the fan circuit on the motherboard breaks down.

Check whether the component is damaged.

HeadFan1/2/3/4/5/6 Too High

Check whether the fan circuit on the motherboard breaks down.

Check whether the component is damaged.

ArmFan Start Err

Check whether the fan is not running.

Check whether the fan leads are installed in place or disconnected.

Check whether the fan is damaged.

Check whether there are obstacles in the fan operating range.

ArmFan Stop Err

Check whether the fan circuit on the motherboard breaks down.

Check whether the component is damaged.

ArmFan Too Low

Check whether the fan circuit on the motherboard breaks down.

Check whether the component is damaged.

ArmFan Too High

Check whether the fan circuit on the motherboard breaks down.

Check whether the component is damaged.

BaseFan1/2 Start Err

Check whether the fan is not running.

Check whether the fan leads are installed in place or disconnected.

Check whether the fan is damaged.

Check whether there are obstacles in the fan operating range.

BaseFan1/2 Stop Err

Check whether the fan circuit on the motherboard breaks down.

Check whether the component is damaged.

BaseFan1/2 Too Low

Check whether the fan circuit on the motherboard breaks down.

Check whether the component is damaged.

BaseFan1/2 Too High

Check whether the fan circuit on the motherboard breaks down.

Check whether the component is damaged.

Led Temp. Error

Check whether the temperature detecting board is normal.

Check whether the components of the temperature detecting board are damaged.

Check whether the lead on the temperature detecting board is installed in place or disconnected.

LED Timeout Use

LED Too Hot Off

When the fixture temperature reaches 70℃, it will automatically turn off to protect the fixture.

Laser Module Reset Error

Check whether the laser module and the leads on it are intact.

Check the green indicator on the laser module. When the indicator is in a constant bright state, it means that the reset is complete; when the indicator flashes, it represents that the laser module is resetting. If the indicator flashes more than one minute, it indicates that the module is faulty; if the indicator is not lit, it indicates that the module power is problematic or the module is faulty.

The position of each fan of the fixture:
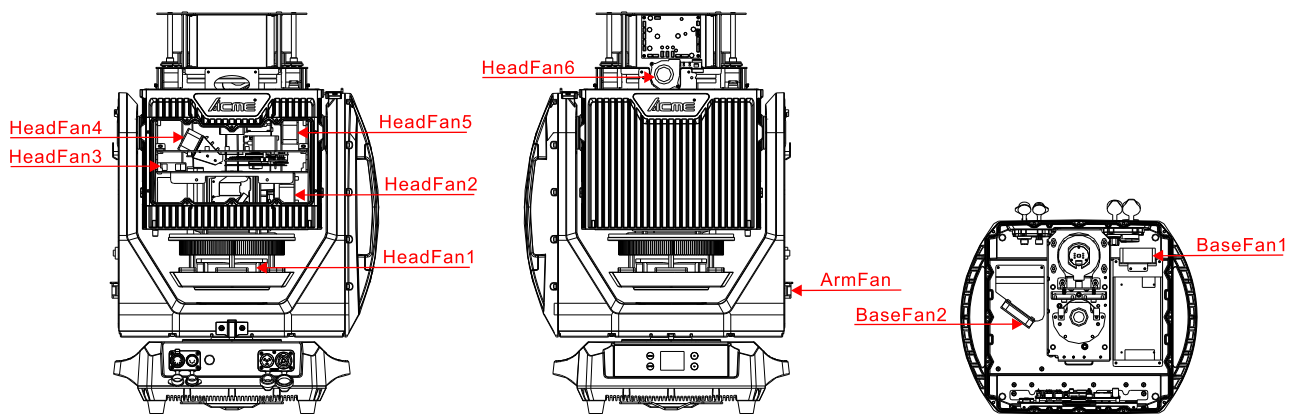
09/ Troubleshooting

Following are a few common problems that may occur during operation. Here are some suggestions for troubleshooting:

A. The unit does not work, no light and the fan does not work

▸ Check the connected power.

▸ Measure the voltage.

▸ Check the power indicator to see whether it can be lit up or not.

B. Not responding to the DMX controller

▸ Check whether the DMX connectors and the DMX cables are connected correctly.

▸ Check whether the DMX address is correctly set.

▸ If the intermittent DMX signal problem occurs, check whether the XLR socket and the signal cable are well connected.

▸ Try it with another DMX controller.

▸ Check whether the DMX cables run near or alongside to the high-voltage cables, which may damage or interfere with the signal circuit.

C. One of the channels is not working well

▸ The stepper motor might be damaged or the cable connected to the PCB might be broken.

▸ The motor's drive IC on the PCB might be out of condition.

10/ Fixture Cleaning

It is absolutely essential that the fixture is kept clean to ensure the maximum light-output and allow the fixture to function reliably throughout its life. The fixture must be cleaned regularly to avoid dust, dirt and smoke-fluid residues building up on or within the fixture. The cleaning frequency depends on the application environment. Clean the fixture immediately if the dust enters it to avoid damage to the optical lens due to excessive dust.

▸ A soft lint-free cloth moistened with any good glass cleaning fluid is recommended, under no circumstances should solvents be used.

▸ Always dry the parts carefully.

▸ Clean the external optical lens at least every 20 days.