ACME®

SANA PROFILE

CONTENTS

01/ Safety Information

⚠ **WARNING**

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

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.
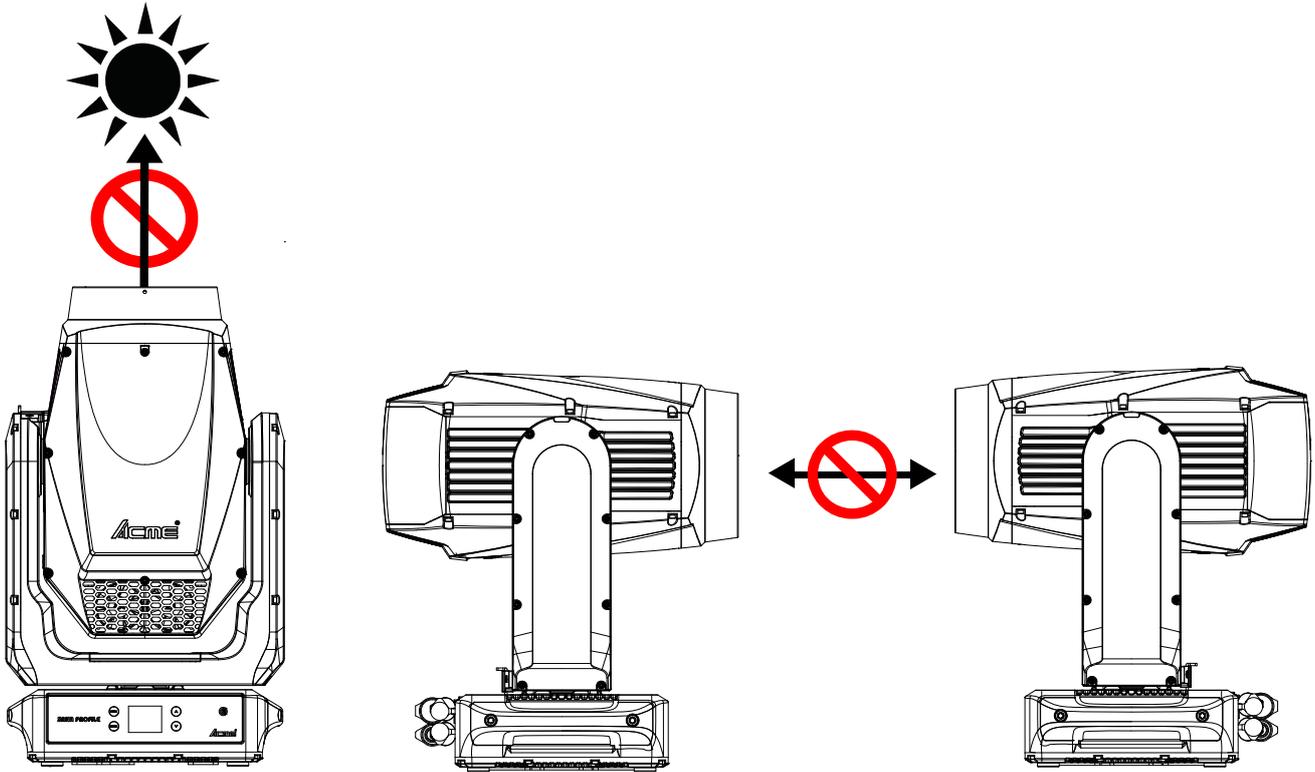
Important:

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.
- 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 (made of steel, min. diameter 4.0mm) 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: -10°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 70°C. 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 5 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.
- 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.
- The device MUST NOT be switched on immediately if it has been exposed to strong temperature fluctuations (e.g. after transport) as condensation may occur inside. Please leave the device switched off until it has reached to room temperature.

- External sources of light beams from direct sunlight or any other strong light source, which penetrate the front lens of lighting fixtures, can cause severe internal damage. DO NOT expose the fixture front lens to light beams from direct sunlight or any other strong light source from any angle while unpacking, installation, use, and extended idle times outdoors. DO NOT focus a light beam from one lighting fixture directly towards another.

01/ Informations de sécurité

⚠ **AVERTISSEMENT**

Veuillez lire attentivement les instructions, car elles contiennent des informations importantes concernant l'installation, l'utilisation et la maintenance.

Veuillez conserver ce manuel d'utilisation pour consultation future. Si vous vendez l'appareil à un autre utilisateur, assurez-vous qu'il reçoive également ce manuel d'instructions.

Important:

Les dommages causés par le non-respect de ce manuel d'utilisation ne sont pas couverts par la garantie. Le revendeur n'acceptera aucune responsabilité pour les défauts ou problèmes qui en résulteraient.

- Déballer et vérifier soigneusement qu'il n'y a pas de dommages dus au transport avant d'utiliser l'appareil.
- Ce produit est adapté aux endroits humides. Ne pas immerger dans l'eau.
- FAIRE installer et utiliser par un opérateur qualifié.
- NE PAS laisser les enfants manipuler l'appareil.
- Utiliser une chaîne de sécurité lors de la fixation de l'appareil. Manipuler l'appareil en portant sa base et non uniquement par la tête.
- L'appareil doit être installé dans un endroit bien ventilé, à au moins 50 cm des surfaces adjacentes.
- Assurez-vous qu'aucune fente de ventilation n'est obstruée, sinon l'appareil surchauffera.
- Avant utilisation, assurez-vous de connecter ce produit à la tension appropriée conformément aux spécifications de ce manuel ou à l'étiquette des spécifications du produit.
- Il est important de mettre le conducteur jaune/vert à la terre pour éviter tout risque de choc électrique.
- Température ambiante minimale (TA): -10℃. Température ambiante maximale (TA): 45℃. Ne pas utiliser ce produit à une température inférieure ou supérieure.
- NE PAS connecter l'appareil à un gradateur (dimmer pack).
- Éloigner les matériaux inflammables de l'appareil pendant son fonctionnement pour éviter tout risque d'incendie.
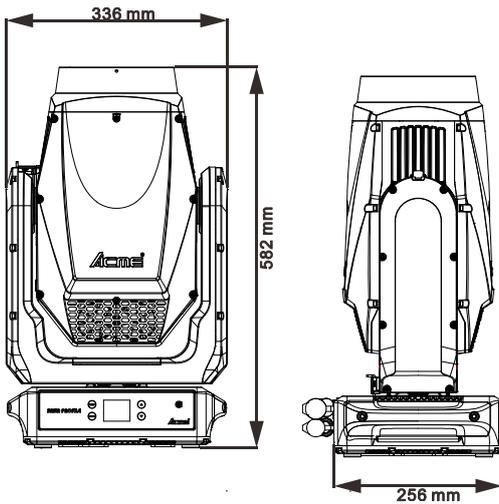
- Vérifier que le cordon d'alimentation n'est ni écrasé ni endommagé; le remplacer immédiatement s'il est endommagé.

- La température de surface de l'appareil peut atteindre jusqu'à 70℃. NE PAS toucher le boîtier à mains nues pendant son fonctionnement.

- Évitez que des liquides inflammables, de l'eau ou des objets métalliques ne pénètrent dans l'appareil. Si cela se produit, coupez immédiatement l'alimentation électrique.

- NE PAS utiliser l'appareil dans un environnement sale ou poussiéreux. Nettoyez régulièrement l'appareil.

- NE PAS toucher de fils pendant le fonctionnement, car cela pourrait présenter un risque de choc électrique.

- Évitez que le cordon d'alimentation ne s'emmêle avec d'autres fils.

- La distance minimale par rapport aux objets/surfaces doit être de plus de 5 mètres.

- En cas de problème de fonctionnement grave, cessez immédiatement d'utiliser l'appareil.

- Ne jamais allumer et éteindre l'appareil à plusieurs reprises.

- Le boîtier, les lentilles ou le filtre ultraviolet doivent être remplacés s'ils sont visiblement endommagés.

- NE PAS ouvrir le boîtier, car il ne contient aucune pièce pouvant être réparée par l'utilisateur.

- NE PAS tenter d'utiliser cet appareil s'il est endommagé. NE PAS tenter de réparations vous-même. Les réparations effectuées par des personnes non qualifiées peuvent entraîner des dommages ou un dysfonctionnement. Veuillez contacter le centre d'assistance technique agréé le plus proche si nécessaire.

- Débranchez l'appareil de sa source d'alimentation avant toute maintenance.

- UTILISEZ l'emballage d'origine si l'appareil doit être transporté.

- Vérifiez que le verrou d'inclinaison de la tête est libéré avant l'emballage pour le transport.

- Évitez une exposition directe des yeux à la source lumineuse lorsque l'appareil est allumé.

- NE PAS utiliser ce produit si vous constatez des dommages sur le boîtier, les protections ou les câbles. Faites remplacer les pièces endommagées par un technicien agréé immédiatement.

- L'appareil NE DOIT PAS être allumé immédiatement s'il a été exposé à de fortes variations de température (par exemple après un transport), car de la condensation pourrait se former à l'intérieur. Veuillez laisser l'appareil éteint jusqu'à ce qu'il ait atteint la température ambiante.

- Les sources externes de rayons lumineux, comme la lumière directe du soleil ou toute autre source lumineuse intense, qui pénètrent à travers la lentille frontale des appareils d'éclairage, peuvent causer des dommages internes graves. NE PAS exposer la lentille frontale de l'appareil à des rayons lumineux provenant de la lumière directe du soleil ou de toute autre source lumineuse intense, sous quelque angle que ce soit, lors du déballage, de l'installation, de l'utilisation ou de périodes d'inactivité prolongées à l'extérieur. NE PAS diriger un faisceau lumineux d'un appareil d'éclairage directement vers un autre.

02/ Technical Specifications

AC Power	100-240Vac; 50/60Hz	
Max. Power Consumption	570W	
Light Source	SCL330BC-80-R72-000	
Color Temperature	7000K	
Zoom Range	3.9°-50°	
Color Wheel	6 colors + CRI + open	
Gobo Wheels	Static Gobo Wheel	9 gobos + open
	Rotating Gobo Wheel	7 gobos+ open
Movement	Pan	INFINITY
	Tilt	INFINITY
	16 bit movement resolution	
	Automatic pan/tilt repositioning	
	Mechanical pan/tilt lock for safe transportation and maintenance	
Control and Programming	DMX Channels	45(Framing)/27(Wash)/36(F-Wash)/36(Spot)
	Protocols	DMX512
		RDM
		Art-Net
		sACN
	Firmware Update	via DMX or USB memory device
Construction	Display	LCD display
	Battery backup for user setup without mains connection	
	DMX and RDM Data In/Out	5-pin IP XLR (optional with 3-pin IP XLR)
		RJ45 Connectors
	Power In/Out	Waterproof Power Connector in/out
	Protection Rating	IP66(Warning: Do not immerse the vent valve in water.)
Dynamic Effects	Standard Mode: Ra>70; High CRI Mode: Ra≥90	
	Outstanding strobe effect with variable speed	
	Linear CMY color mixing	
	Variable color temperature control	
	Prisms: 1×4-facet circular prism and 1×4-facet linear prism	
	Frost: light frost to medium frost	
	Motorized focus	

	Framing: 4 rotating full blackout framing shutter blades with individually controllable; ±90°rotation of the framing system module	
Included Items	Power Cable	
	Two omega brackets with 1/4-turn fasteners	
	User Manual (this document)	
Dimensions	336x256x582mm	13.2"×10.1"×23"
Weight	26 kg	57.3 lbs

Photometric Diagram:

Distance m (ft)	5 (16.4)	10 (32.8)	15 (49.2)	20 (65.6)	50 (164)
3.9° Lux	125,000	29,500	13,200	7,500	1,200
Diameter m (ft)	0.4 (1.3)	0.7 (2.3)	1.1 (3.6)	1.4 (4.6)	3.5 (11.5)
50° Lux	1,300	450	200	115	25
Diameter m (ft)	4.6 (15.1)	9.3 (30.5)	13.9 (45.6)	18.6 (61)	46.6 (152.9)
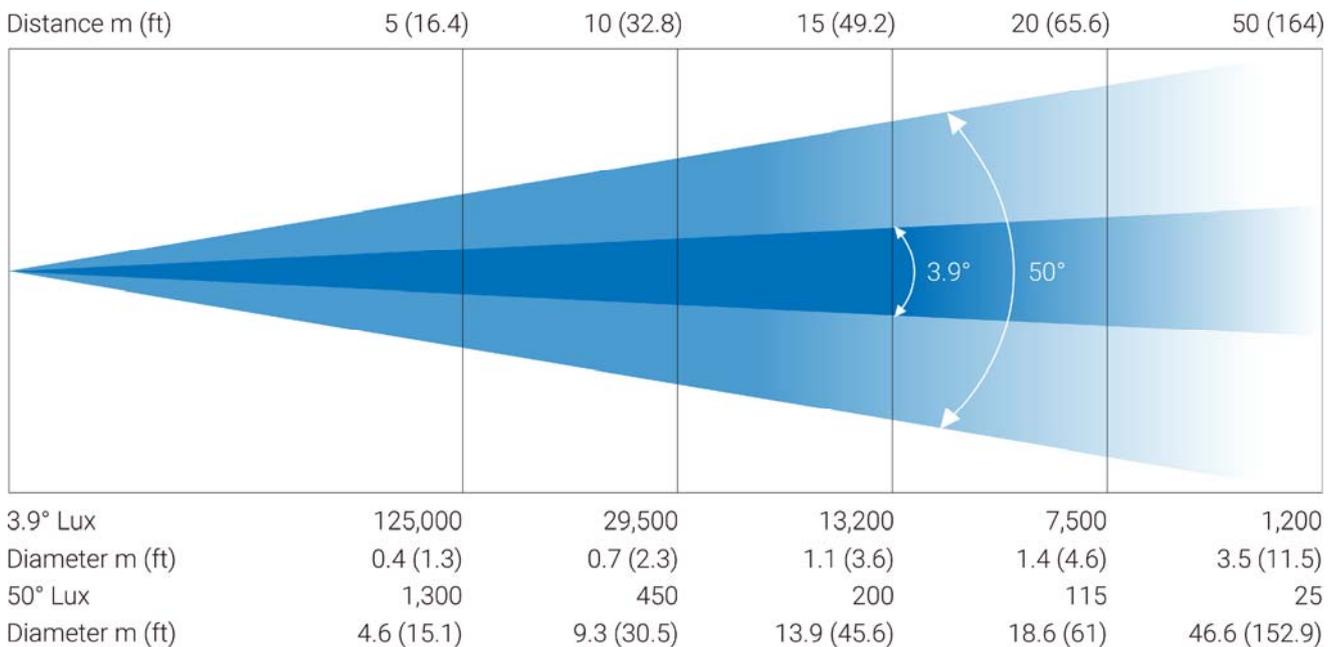
03/ Overview
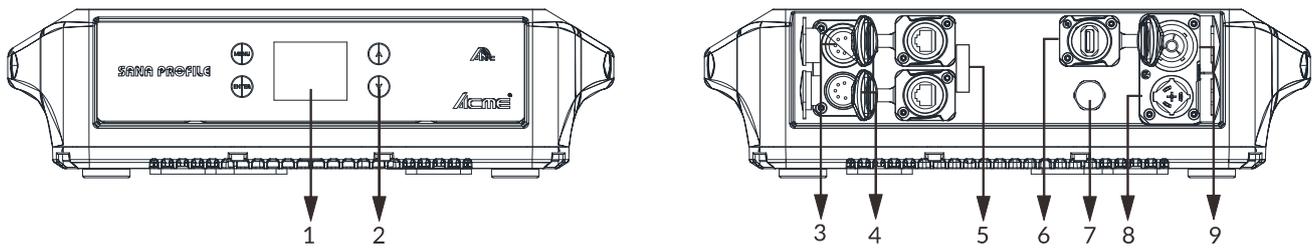
1. Display	To show the various menus and the selected function	
2. Buttons	MENU	To enter into move backward or leave the menu
	▲ UP	To go backward to move up in the menu
	▼ DOWN	To go forward to move down in the menu
	ENTER	To perform the desired functions
3. DMX OUT	For DMX512 link, use 5-pin XLR cable to link the next units to output DMX signal (optional with 3-pin IP XLR)	
4. DMX IN	For DMX512 link, use 5-pin XLR cable to link the unit and DMX controller to input DMX signal (optional with 3-pin IP XLR)	
5. ETHERNET	Transfers fixture's information to a main controller	
6. FIRMWARE UPGRADE	Used to upgrade fixture's firmware	
7. RELEASE VALVE		
8. POWER IN	To connect to supply power	
9. POWER OUT	To connect to the next fixture	

3.1 Battery Power

This product contains a rechargeable battery.

Battery type: 14500 Lithium-ion battery (3.7V, 800mAh, 2.96Wh), compliant with the new EU battery regulation EU2023/1542.

⚠ Do not expose the fixture or battery to excessive temperatures.

Be aware of the risk of terminals of the battery-operated fixture or battery being short-circuited by metal objects.

This fixture contains battery that is only replaceable by skilled persons.

Different types of batteries or new and used batteries are not to be mixed.

Exhausted batteries are to be removed from the fixture and safely disposed of.

If the fixture is to be stored unused for a long period, the batteries should be removed.

Do not use non-rechargeable batteries in place of rechargeable batteries.

Do not use modified or damaged batteries.

Replacing the battery with an incorrect type can defeat a safeguard and pose a risk of fire or explosion.

Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion.

Leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas.

Using the control panel with battery power:

The fixture contains a battery that enables you to use the control panel to set up the fixture even when it is not connected to the main power supply. The battery charges during fixture operation. All of the main setup options in the control panel are accessible on battery power, but the 'Fixture Test' and 'Reset Function' are not available.

To activate the display when the fixture is not connected to power, press and hold the [▲ UP] button for 3 seconds. The display extinguishes after 30 seconds with no user input. Press and hold the [▲ UP] button for 3 seconds again to re-activate.

Battery Replacement:

Warning! Disconnect the fixture from AC power before replacing its battery. Replace the battery with one of the same type only.

1. Disconnect the fixture from AC mains power and allow to cool.

2. Remove eight screws at the bottom cover of the fixture and remove the bottom cover.
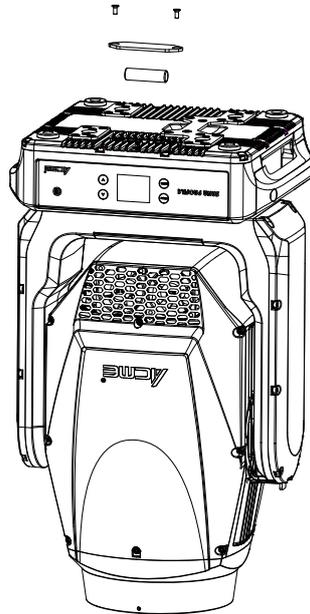
3. Remove two screws of the battery bracket that holds the battery in place and remove the battery bracket.

4. Remove the exhausted battery and insert a new one (only the same type) into the battery holder (Negative (-) towards the spring, Positive (+) away from the spring).
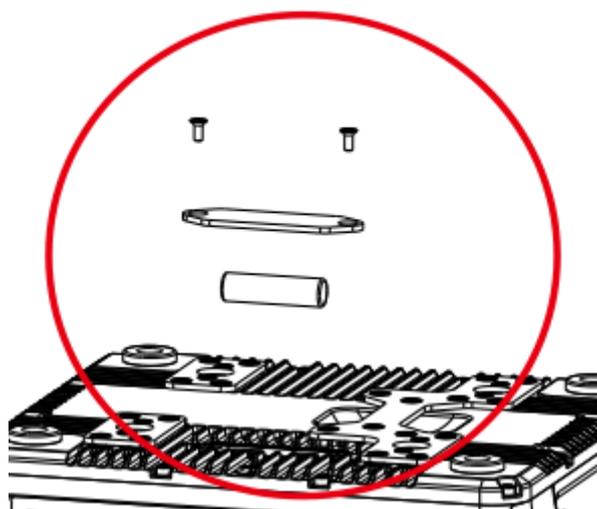
5. Reinstall the battery bracket and the arm cover and check that it is close securely before reapplying power.

04/ Connecting Power and Data

4.1 Connecting Power

To apply power, first check that the head pan and tilt locks are released.

This fixture can operate on any 100-240Vac; 50/60Hz AC mains power supply.

The maximum power consumption is 570W.

The fixture must be grounded/earthed and able to be isolated from AC power. The AC power supply must incorporate a fuse or circuit breaker for fault protection.

Wiring and connection work must be carried out by a qualified electrician.

The power cable color coding is given in the figure below:

Wire	Color (US)	Wire	Color (EU)	Symbol	Conductor
	black		brown	L	live
	white		blue	N	neutral
	green		yellow/green	⏚ or ⏚	ground (earth)

Power cord set that should be used: Listed SJOW flexible cord with rating: 300V, 105°C, VW-1, 16AWG x 3C, molded with 5-15P attachment plug and terminated with cord connector model RCAC3F-X-000-01 with rating 250V, 16A by Neutrik Technology(Ningbo) Co.,Ltd. The power cord shall be at least 914mm (It is to be measured from the face of attachment plug to the face of connector).

<u>CAUTION!</u>

<u>DO NOT CONNECT THE FIXTURE TO AN ELECTRICAL DIMMER SYSTEM AS DOING SO MAY CAUSE DAMAGE.</u>

4.2 Connecting Data

The fixture is equipped with 5-pin (or 3-pin) XLR sockets for DMX input and output. Use a high-quality DMX cable designed for RS-485 and 5-pin (or 3-pin) XLR-plugs and connectors in order to connect the controller with the fixture or one fixture with another. For outdoor installations, use only IP-rated XLR connectors suitable for outdoor use.

Building a serial DMX chain:

Connect the DMX data output from the controller to the fixture's data input socket. Connect the DMX output of the first fixture in the DMX chain with the DMX input of the next fixture. Always connect one output with the input of the next fixture until all fixtures are connected. Up to 32 fixtures can be connected to the same DMX link. Terminate the DMX out cable of the last fixture in the data link with a 120 ohm DMX terminator.
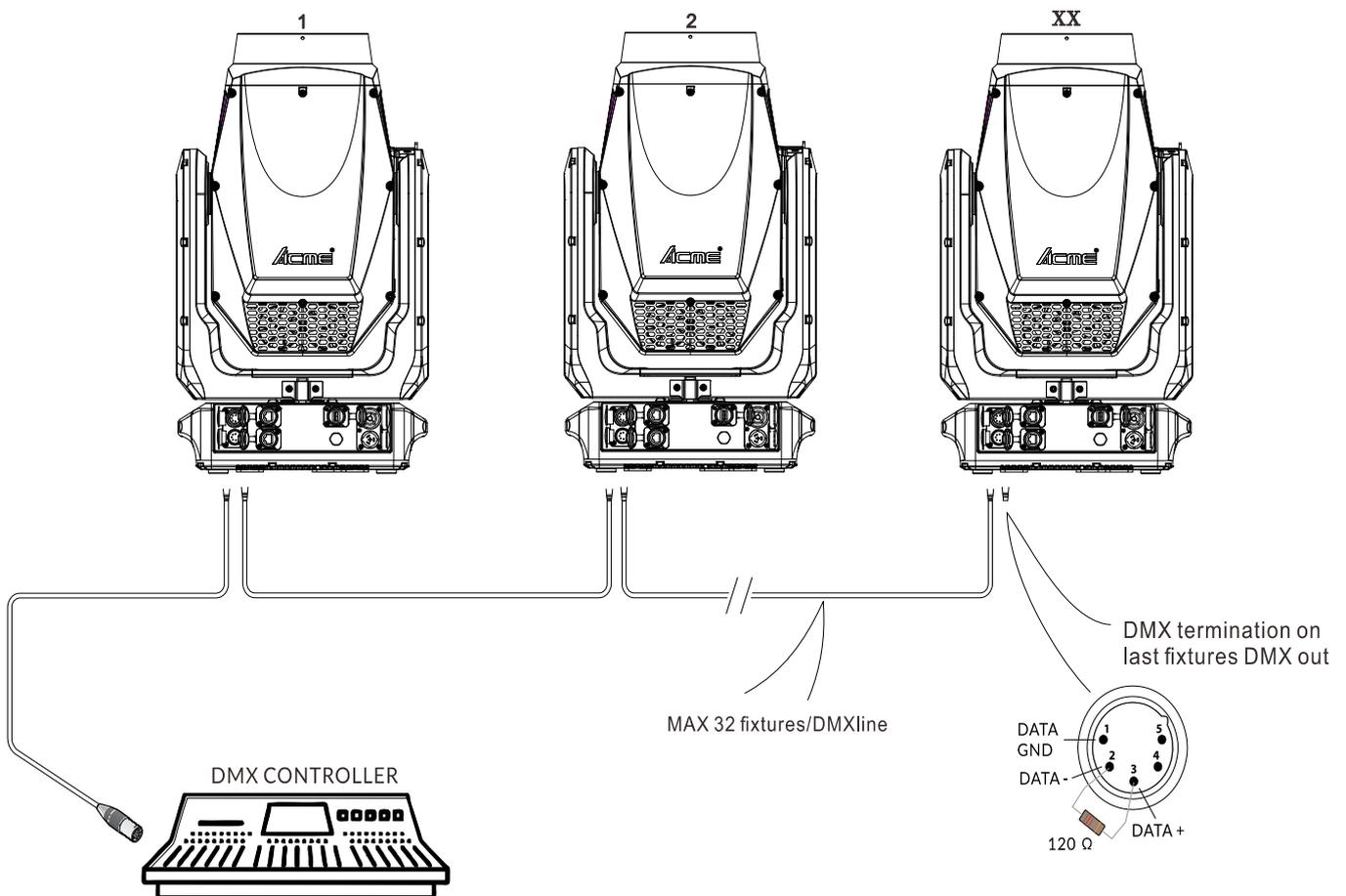
05/ Fixture Installation

The fixture is IP66-rated and designed for both indoor and outdoor events. This means that it is protected from:

▶ Dust, to the degree that dust cannot enter the device in sufficient quantities as to interfere with its operation.

▶ Water jets from any direction.

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 (made of steel, min. diameter 4.0mm) 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 three different mounting positions: hanging upside-down, mounted sideways on trussing, or standing on the floor. Always use and install a safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails. This fixture is suitable for theaters, studios, and similar locations.
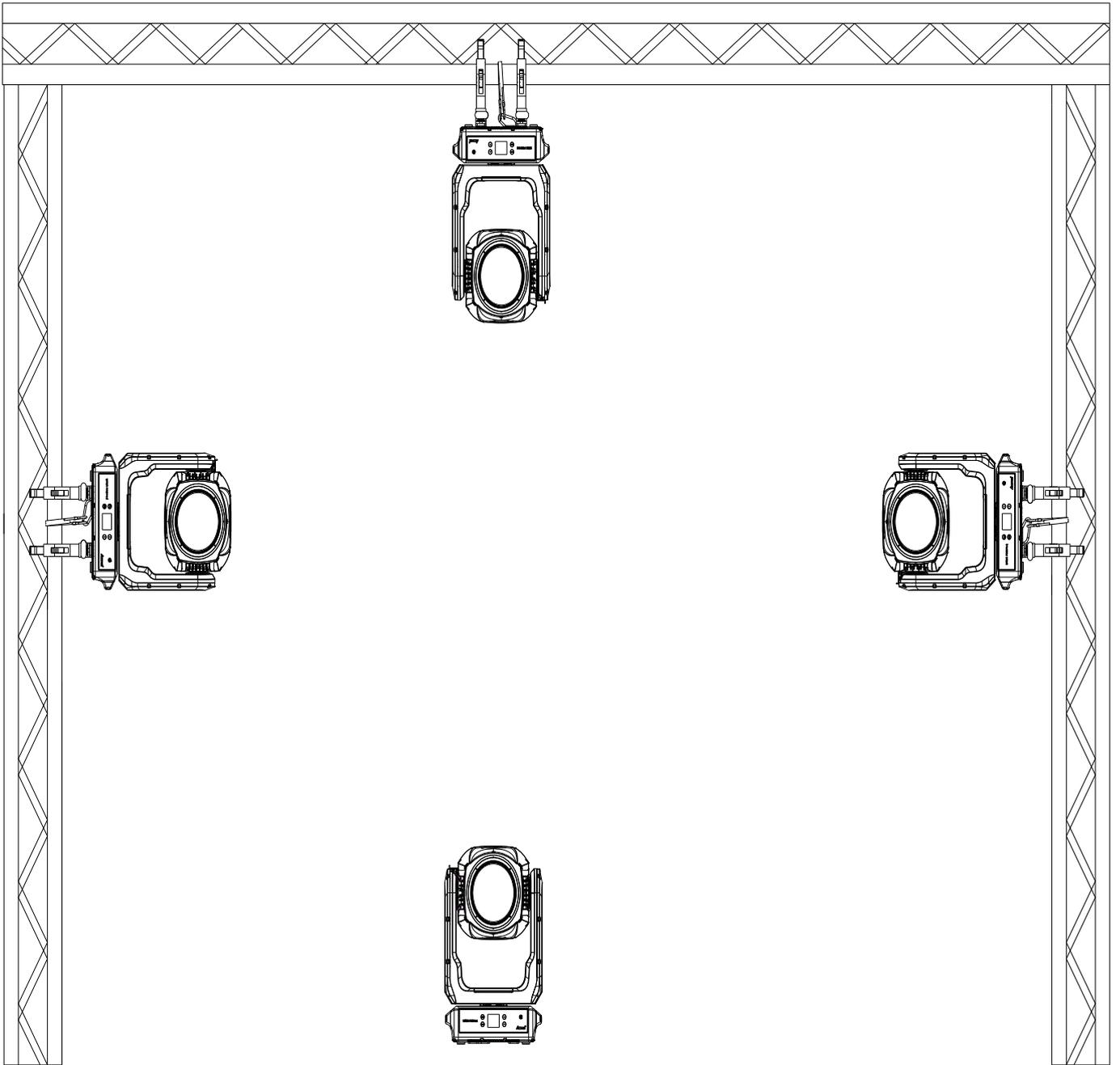
⚠ Side Mounting — To maintain the IP66 rating integrity of the fixture, all cables must be run towards the ground to prevent water accumulation around the connections.

System menu
LCD display
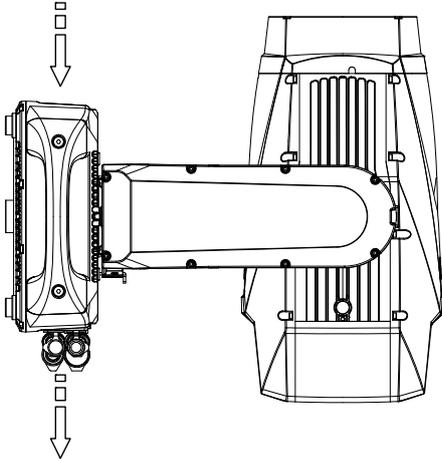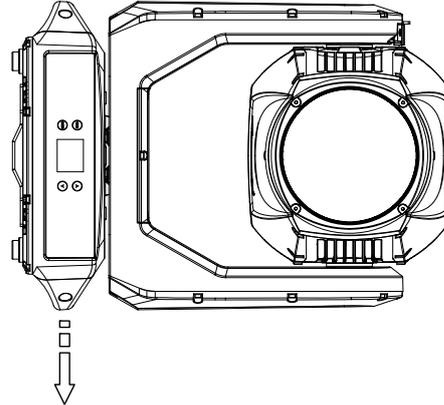
Cables   Cables

● Use only IP-rated power cords and connectors suitable for outdoor use.
● Visually check panel connectors on accidental water leaks and dust
  before connecting related cable connectors.
  If some water appears in panel connectors, do not connect cable connectors, especially power!
● Fixtures require regular maintenance.
  Carefully check panel connectors for corrosion and scorching,
  and replace them promptly if damaged.
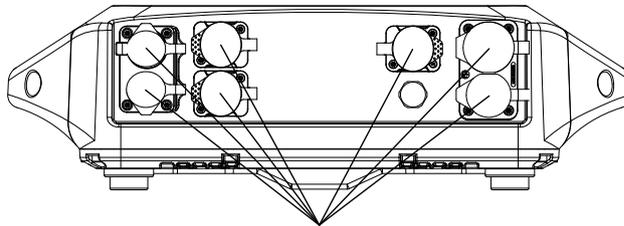
All unused panel connectors have to be sealed by the rubber caps
to avoid contact with water, especially seawater.

Steps for installing omega brackets to the fixture:

OMEGA BRACKET
ATTACHMENT POINTS

SAFETY CABLE
ATTACHMENT POINT

140 mm

140 mm

CLAMP

OMEGA
BRACKET

06/ Effect Wheels

COLOR WHEEL ③ ROTATING GOBO WHEEL STATIC GOBO WHEEL ANIMATION WHEEL
3011001758
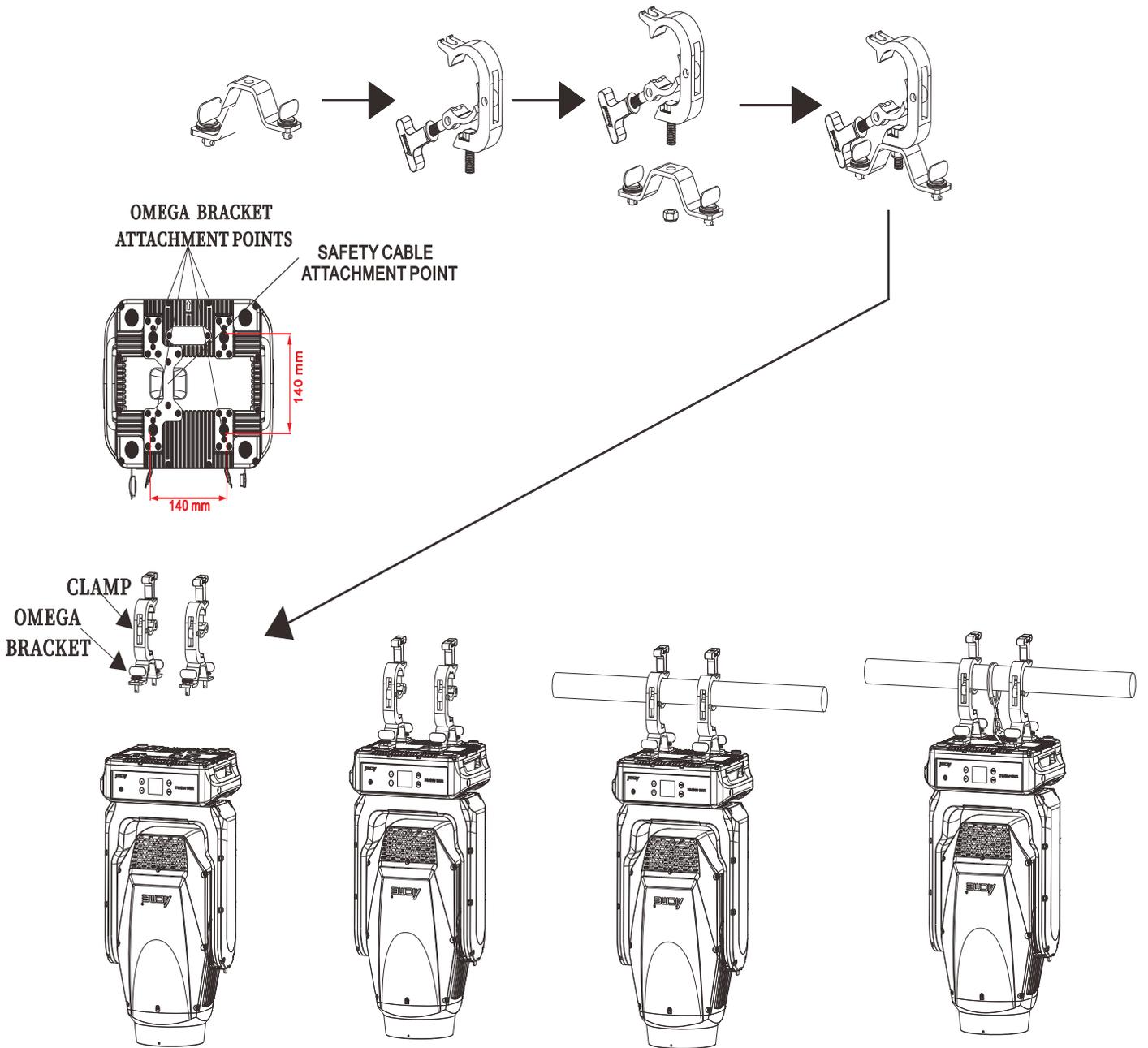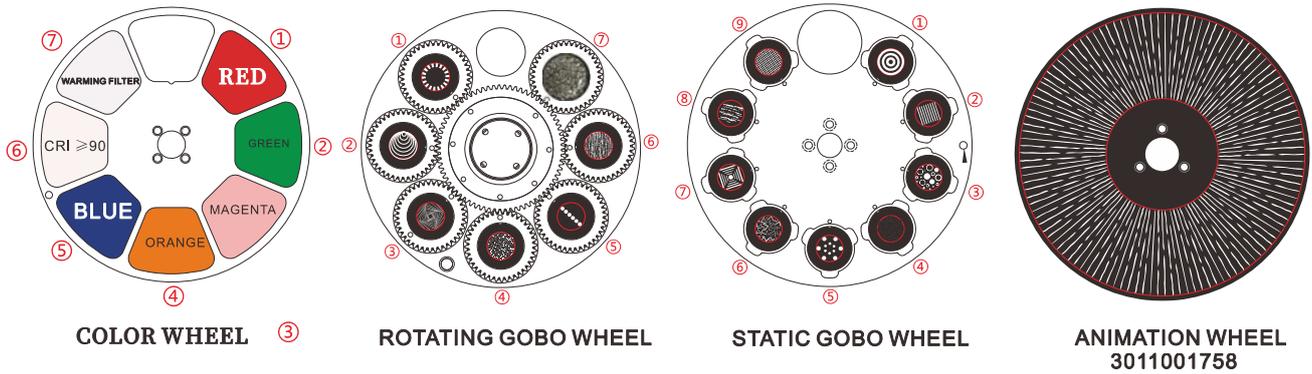
DANGER!
Replace the gobos with the device switched off only.
Unplug from mains before replacing the gobos!

Static Gobo Wheel		
Slot	Name	Part Number
Open	Empty	/
1	Concentric Rings	3011001749
2	Horizontal Stripes	3011001750
3	Floating Bubbles	3011001751
4	Chaotic Grids	3011001752
5	Dot Matrix	3011001753
6	Random Shards	3011001754
7	Geometric Maze	3011001755
8	Vertical Streaks	3011001756
9	Crosshatch Grid	3011001757

Rotating Gobo Wheel		
Slot	Name	Part Number
Open	Empty	/
1	Segmented Radial Burst	3011001743
2	Spiral Vortex	3011001744
3	Hypnotic Swirl	3011001745
4	Grainy Stippling	3011001746
5	Dot Dash Stream	3011001747
6	Horizontal Fine Lines	3011001748
7	Mossy Texture	3015001329

Size of Static Gobos				
Slot	Gobo Diameter	Image Area Diameter	Gobo Thickness	Material
1~9	20mm+0/-0.2mm	10.5mm	1.1mm	Borofloat Glass
Size of Rotating Gobos				
Slot	Gobo Diameter	Image Area Diameter	Gobo Thickness	Material
1~6	20mm+0/-0.2mm	12mm	1.1mm	Borofloat Glass
7	20mm+0/-0.2mm	/	3.8mm	Schott Glass

Follow these precautions when using and handling rotating gobos:

▶ Original gobos have a special coating designed specifically to resist to high temperatures. Must use high temperature Borofloat or better glass. Replacement gobos must match the dimensions, construction, materials and quality as the gobos supplied as standard. Using gobos that do not meet this requirement can cause damage that is not covered by the product warranty.

▶ Do not use gobos with dark coatings on either side, as these will absorb heat – either directly from the light source or reflected back from other optical components – and will not be durable.

▶ Wear clean nitrile cleanroom gloves when handling gobos.

▶ Avoid scratching coated and uncoated sides.

▶ Correct gobo orientation is critical. Note the position of the reference marks (arrowed) in the gobo drive wheel and gobo holder. Each time you remove a gobo holder from the wheel, turn the drive wheel (twice if necessary) until the marks exactly line up. We recommend that you only remove one gobo holder at a time. Avoid turning the drive wheel while a gobo holder is out of the gobo wheel. This will keep the gobos in their correct orientation, avoiding the need to reprogram cues or adjust gobo positions in the fixture because a gobo orientation has changed during service.
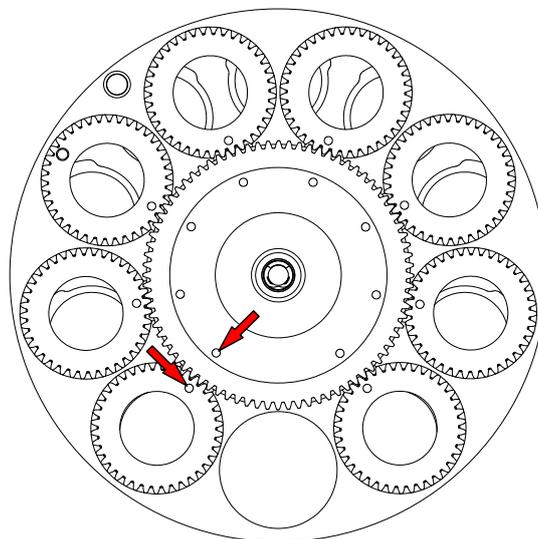
▶ Note how the gobo holder tongue engages in a recess in the gobo drive wheel when

pulling the gobo holder out of the gobo wheel. You will need to reinstall the gobo holder with the tongue in the same position in the drive wheel.
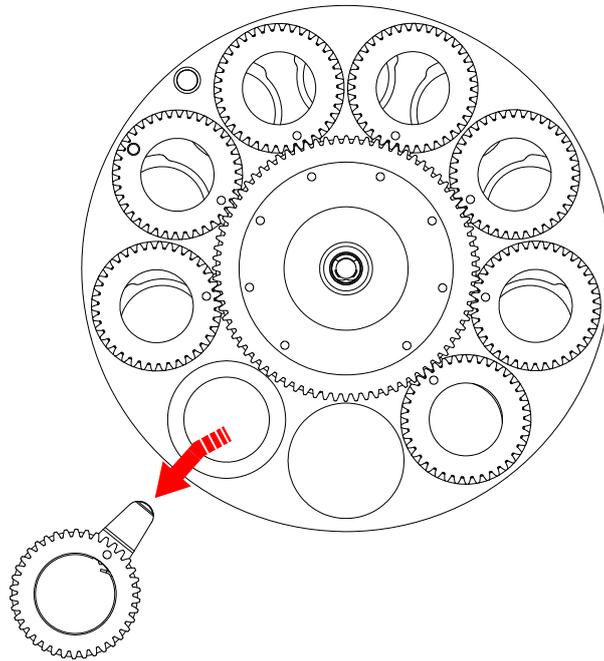
▶ Note the position of the alignment marks (arrowed) on gobo holders and gobos. Install gobos with the alignment marks next to each other.
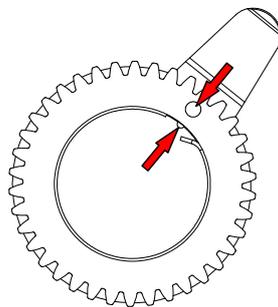
▶ With the teeth side of the gobo holder facing upwards, remove the gobo retaining spring carefully with an appropriate tool (e.g. plastic lever) and then remove the original gobo.
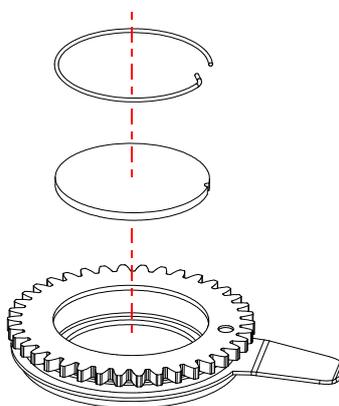
▶ Holding the new gobo by its edges, taking care to not leave fingerprints on the gobo,

insert it into the gobo holder with the alignment marks on gobo and gobo holder oriented correctly and with the reflective side (or flat side of the textured glass gobos) facing downwards. Check that the gobo is fully seated in the holder.

Make sure that you install gobos facing in the correct direction - reflective side (or flat side of the textured glass gobos) towards the light source, black side (or textured side of the textured glass gobos) towards the front lens, or they may suffer heat damage.

Coated Glass Gobos	Textured Glass Gobos
Black side away from light source Reflective side towards light source	Flat side towards gobo holder
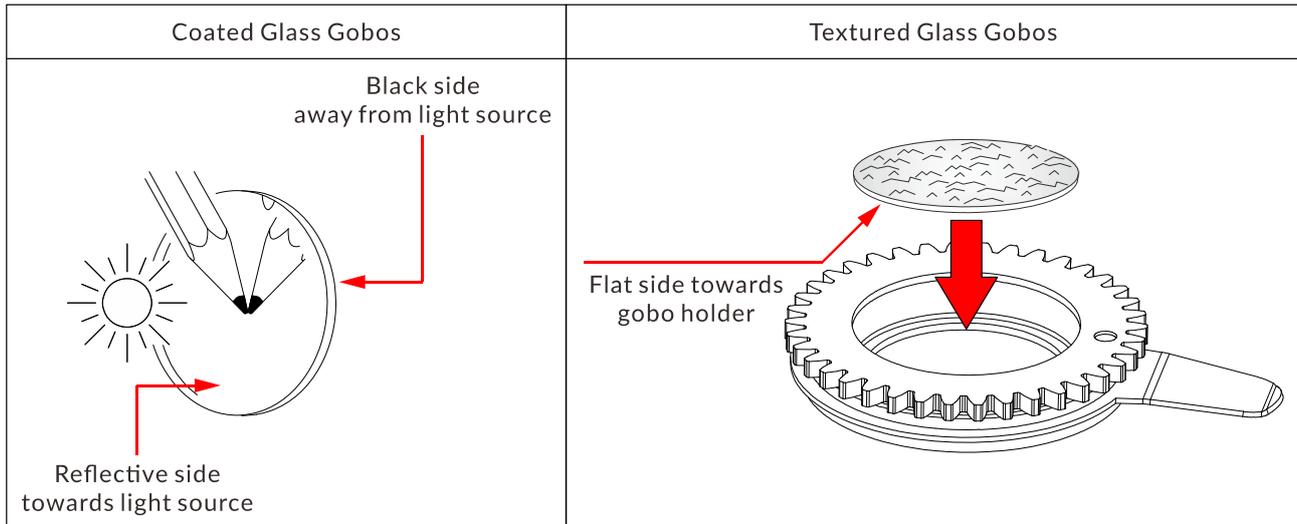
▸ Check that the retaining spring is pressed as flat as possible against the gobo and that the gobo is held securely in the gobo holder when reinstalling the retaining spring.

▸ Line up the reference marks in the gobo holder and gobo drive wheel and push the tongue correctly into its location in the gobo drive wheel when you install the gobo holder. Check that the gobo holder is held securely in the wheel after you have installed it.

07/ Operation

7.1 Control Menu

▶ 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 locks after 30 seconds of inactivity.
> Press and hold the [MENU] button to unlock the screen.

The main functions are shown below:

MAIN MENU	SUBMENU	CHOICES/VALUES	
DMX Settings	DMX Address	1-512	(Default=1)
	DMX Channel Mode	Mode 1 (45) Framing	
		Mode 2 (27) Wash	
		Mode 3 (36) F-Wash	
		Mode 4 (36) Spot	
	No DMX Status	Blackout	
		Hold	
		Manual	
	View DMX Value		
	Connect Option	Auto	
		DMX	
		Art-Net	
		sACN	
	Network	IP Address	Default 1:002.xxx.xxx.xxx
			Default 2:010.xxx.xxx.xxx
			Manual: xxx.xxx.xxx.xxx
		Sub-Net Mask	xxx.xxx.xxx.xxx
	Art-Net Settings	Net	0-127 (Default=0)
		Sub-Net	0-15 (Default=0)
		Universe	0-15 (Default=0)
	sACN Settings	Universe	1-32000 (Default=1)
		Priority	0-200 (Default=100)
	Network to DMX	No	

MAIN MENU	SUBMENU	CHOICES/VALUES
		Yes
Fixture Settings	Pan Invert	No
		Yes
	Tilt Invert	No
		Yes
	P/T Feedback	No
		Yes
	Pan/Tilt Reset Mode	Standard
		Sequence
	Focus Compensate	Disable
		Near(10m)
		Medium(20m)
		Far(30m)
	Dimmer Speed	Fast
		Smooth
	Dimmer Curve	Linear
		Square Law
		Inv SQ Law
		S Curve
	Fan Mode	Standard
		Quiet
		Theatre
	Bright Calibration	50-100
	Blade Mode	Mode 1
		Mode 2
	LED Refresh Rate	900Hz
		1000Hz
		1100Hz
		1200Hz
		1300Hz
		1400Hz
		1500Hz
		2500Hz
		4000Hz
		5000Hz
		6000Hz
		10KHz
		15KHz
		20KHz

MAIN MENU	SUBMENU	CHOICES/VALUES	
		25KHz	
	Gobo Short Cut	Enable	
		Disable	
	Color Short Cut	Enable	
		Disable	
	Sun Protection Mode	On	
		Off	
	CTB Compensate	Enable	
		Disable	
Display Settings	Display Invert	No	
		Yes	
	Backlight Intensity	1-10	(Default=10)
	Temperature Unit	°C	
		°F	
Fixture Test	Auto Test	Single	
		Cycle	
	Manual Test	Clear	No/Yes
		Pan	0-255
		Tilt	0-255
		Pan Infinity	0-255
		Tilt Infinity	0-255
		Pan/Tilt Speed	0-255
		Cyan	0-255
		Magenta	0-255
		Yellow	0-255
		CTO	0-255
		Color	0-255
		Gobo 1	0-255
		R-Gobo1	0-255
		Fixed Gobo	0-255
		Animation	0-255
		Iris	0-255
		Prism1	0-255
		R-Prism1	0-255
		Prism2	0-255
		R-Prism2	0-255
		CRI	0-255
		Frost1	0-255

MAIN MENU	SUBMENU	CHOICES/VALUES		
		Frost2	0-255	
		Zoom	0-255	
		Focus	0-255	
		Strobe	0-255	
		Dimmer	0-255	
		Blade	0-255	
		Blade Down 1	0-255	
		Blade Down 2	0-255	
		Blade Up 1	0-255	
		Blade Up 2	0-255	
		Blade Left 1	0-255	
		Blade Left 2	0-255	
		Blade Right 1	0-255	
		Blade Right 2	0-255	
Fixture Information	Fixture Use Hour			
	Light Source Use Hour	Total Hour		
		Light On Hour		
		Reset Hours	Password=050	
	Humidity	Head	Current	Max
		Base	Current	Max
	Temperature	Light Source	Current	Max
	Fan State			
	Firmware Version			
	RDM UID			
	Error Logs	Fixture Errors		
		Reset Error Log	No	
			Yes	Password=050
Reset Function	Pan/Tilt Reset	No		
		Yes		
	Effect Reset	No		
		Yes		
	All Reset	No		
		Yes		
Special Function	USB Upgrade	No		
		Yes		
	Send Upgrade	No		
		Yes		
	Firmware Restore	No		

MAIN MENU	SUBMENU	CHOICES/VALUES
		Yes
	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, View DMX Value, Connect Option, Network, Art-Net Settings, sACN Settings** or **Network to DMX.**

DMX Address

Select **DMX Address,** press ENTER.

Use UP/DOWN button to select an address, confirm your selection with ENTER.

CHANNEL MODE	DMX ADDRESS
(45) Framing	1-468
(27)Wash	1-486
(36) F-Wash	1-477
(36) Spot	1-477

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 between **(45) Framing, (27) Wash, (36)F-Wash** and **(36) Spot** , 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.

Connect Option

Select **Connect Option,** press ENTER.

Use UP/DOWN button to select **Auto, DMX, Art-Net** or **sACN**, confirm your selection with ENTER.

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

Network

Select **Network,** press ENTER.

Use UP/DOWN button to select **IP Address** or **Subnet Mask**, confirm your selection with ENTER.

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

Art-Net Settings

Select **Art-Net Settings,** press ENTER.

Use UP/DOWN button to select **Net, Sub-Net** or **Universe**, confirm your selection with ENTER.

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

sACN Settings

Select **sACN Settings,** press ENTER.

Use UP/DOWN button to select **Universe** or **Priority**, confirm your selection with ENTER.

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

Network to DMX

Select **Network to DMX,** press ENTER.

Use UP/DOWN button to select **No** or **Yes**, confirm your selection with ENTER.

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, Pan & Tilt Reset mode, Focus Compensate , Dimmer Speed, Dimmer Curve, Fan Mode, Blade Mode, LED Refresh Rate, Gobo Short Cut, Color Short Cut, Sun Protection Mode** or **CTB Compensate.**

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 Reset Mode

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

Use UP/DOWN button to select **Standard** or **Sequence** confirm your selection with ENTER.

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

Focus Compensate

Select **Focus Compensate**, press ENTER.

Use UP/DOWN button to select **Disable, Near (10m), Medium (20m)or Far(30m)**, confirm your selection with ENTER.

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

Dimmer Speed

Select **Dimmer Speed,** press ENTER.

Use UP/DOWN button to select **Fast** or **Smooth**, confirm your selection with ENTER.

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

Dimmer Curve

Select **Dimmer Curve,** press ENTER.

Use UP/DOWN button to select **Linear, Square Law, Inv SQ Law** or **S Curve**, confirm your selection with ENTER.

Dimmer Modes
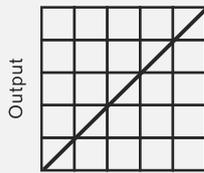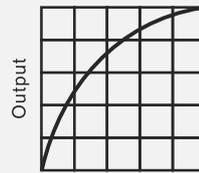
Optically Linear   Square Law   Inverse Square Law   S-curve
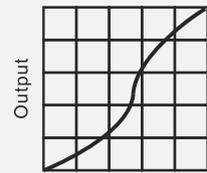
To exit the menu, press MENU, or wait 30 seconds.

Fan Mode

Select **Fan Mode,** press ENTER.

Use UP/DOWN button to select **Standard** or **Quiet**, confirm your selection with ENTER.

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

Bright Calibration

Select **Bright Calibration**, press ENTER.

Use UP/DOWN button to select a value between 50 and 100, confirm your selection with ENTER.

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

Led Refresh Rate

Select **Led Refresh Rate,** press ENTER.

Use UP/DOWN button to select **900Hz, 1000Hz, 1100Hz, 1200Hz, 1300Hz, 1400Hz, 1500Hz, 2500Hz, 4000Hz, 5000Hz, 6000Hz, 10KHz, 15KHz, 20KHz** or **25KHz**, confirm your selection with ENTER.

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

Blade Mode

> Select **Blade Mode,** press ENTER.
>
> Use UP/DOWN button to select **Mode 1** or **Mode 2**, confirm your selection with ENTER.
>
> To exit the menu, press MENU, or wait 30 seconds.

Gobo Short Cut

> Select **Gobo Short Cut,** press ENTER.
>
> Use UP/DOWN button to select **Enable** or **Disable**, confirm your selection with ENTER.
>
> To exit the menu, press MENU, or wait 30 seconds.

Color Short Cut

> Select **Color Short Cut,** press ENTER.
>
> Use UP/DOWN button to select **Enable** or **Disable**, confirm your selection with ENTER.
>
> To exit the menu, press MENU, or wait 30 seconds.

Sun Protection Mode

> Select **Sun Protection Mode,** press ENTER.
>
> Use UP/DOWN button to select **Off** or **On**, confirm your selection with ENTER.
>
> To exit the menu, press MENU, or wait 30 seconds.

CTB Compensate

> Select **CTB Compensate,** press ENTER.
>
> Use UP/DOWN button to select **Enable** or **Disable**, 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** or **Temperature Unit.**

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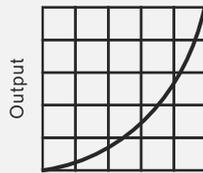> To exit the menu, press MENU, or wait 30 seconds.

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.
>
> Use UP/DOWN button to select **Single** (the device immediately performs a single automatic self-test) or **Cycle** (the device immediately performs a cyclic automatic self-test), confirm your selection with ENTER.
>
> To exit the menu, press MENU.

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.

(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, Light Source 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.

Light Source Use Hour

Select **Light Source Use Hour,** press ENTER.

Use UP/DOWN button to select **Total Light Source Hour** (total time) or **Light Source 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 **Light Source Hours Reset**, confirm your selection with ENTER.

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

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 Log**, 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 **USB Upgrade, Send Upgrade, Firmware Restore** or **Factory Settings.**

USB Upgrade

Select **USB Upgrade,** press ENTER. The upgrade files are displayed. (See the 'Updating Software' section for details.) To exit the menu, press MENU, or wait 30 seconds.

Send Upgrade

Select **Send Upgrade,** press ENTER.

If you wish to send upgrade files from this fixture to next fixtures to upgrade their firmware, select **Yes**. Once Yes is selected, the display of this fixture will show "**Sending Packet, Please Wait...**" while the display of next fixtures will show "**Upgrading, Please Wait...**". A percentage bar will also be displayed. After the update is complete, fixtures will perform a reset (this can take some time).

If you do not wish to send anything, select **No**. Confirm your selection with ENTER.

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

Firmware Restore (After replacing fixture's vice board(s), this function allows you to synchronize the main board's software to all vice board(s), as the software version of the replaced vice board(s) may not consistent with that of the main board.)

Select **Firmware Restore,** press ENTER.

If you wish to restore fixture's firmware, select **Yes**. Once Yes is selected, the display will show "**Upgrading, Please Wait...**". A percentage bar will also be displayed. After the update is complete, the fixture will perform a reset (this can take some time).

If you do not wish to restore anything, select **No**. Confirm your selection with ENTER.

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

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.

7.2 Updating Software

Only qualified technicians should perform this function! Note all menu settings before updating software! Please note, up to 32 fixtures can be connected together and updated at the same time.

Note: Before using the USB flash drive to update the software, please ensure that the USB flash drive is formatted with the FAT32 file system. Otherwise, you will need to reformat the USB flash drive to FAT32 before transferring the .yfu files, as the fixture will only recognize the files stored on a FAT32 formatted drive.

Format the USB flash drive:

‣ Connect the USB flash drive to the computer.

‣ Right-click on the USB flash drive disk.

‣ Click "Format".

‣ Select the "FAT32" file system and click "Start".
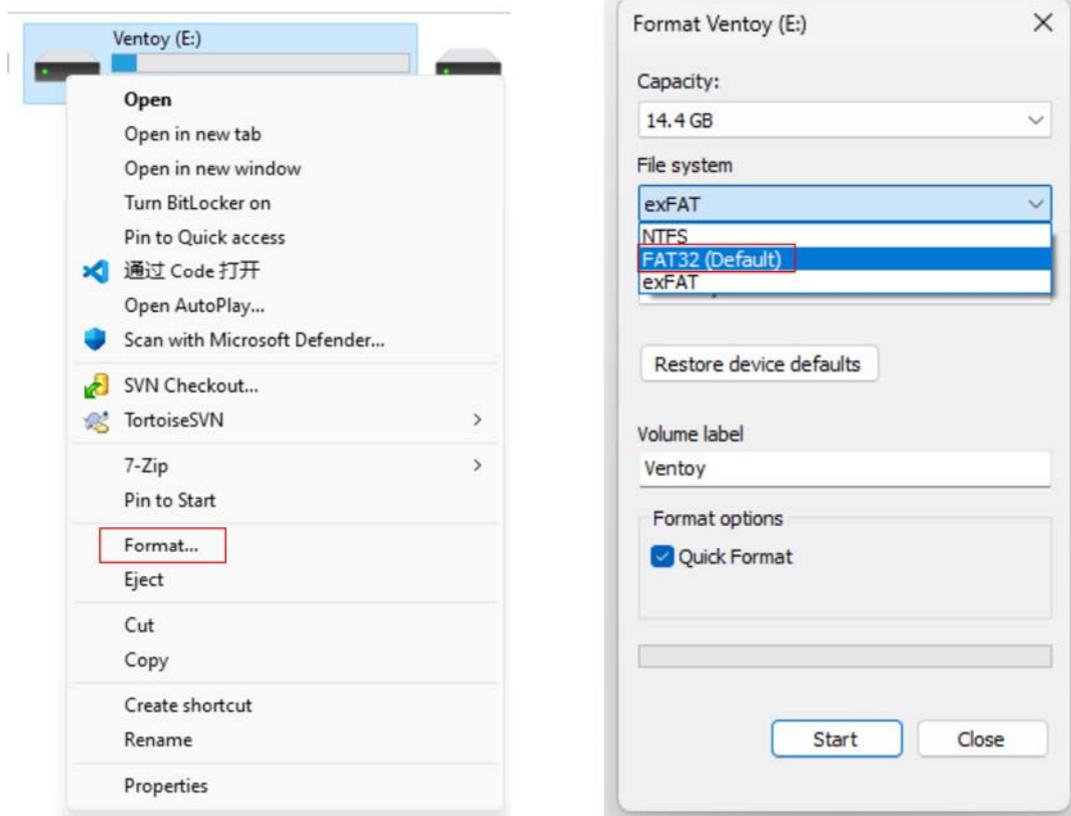
Updating Software:

1. Download the software update files from the ACME website.

2. Copy the software files to a compatible USB flash drive.

Note: To avoid the risk of uploading the wrong file to the fixture, make sure that there are no other files on your flash drive.

3. Disconnect DMX and Ethernet connections and power the fixture on.

4. Insert the USB flash drive into the **FIRMWARE UPGRADE** port located on the rear panel of the fixture.

5. Locate "**Special Function**" within the system menu and press ENTER. Scroll to the "**USB Upgrade**" submenu and press ENTER.

6. Two software files will be displayed as downloaded earlier. Highlight the first file (V00) and press ENTER. Select "**Yes**" to begin the first of two updating processes. Once Yes is selected, the display will show "**Copying Files, Please Wait...**". After copying is complete, the display will show "**Upgrading, Please Wait...**". A percentage bar will also be displayed.

7. After the first update is complete, the fixture will perform a reset (this can take some time).

8. Once the reset is complete, scroll to the "**Special Function**" menu again and press ENTER. Scroll to the "**USB Upgrade**" submenu and press ENTER.

9. Highlight the second file (Vxx) this time and press ENTER. Select "**Yes**" to begin the second and final updating process. Once Yes is selected, the display will show "**Copying Files, Please Wait...**" again. After copying is complete, the display will show "**Upgrading, Please Wait...**". A percentage bar will also be displayed.

10. After the second update is complete, the fixture will perform another reset (this can take some time as well).

11. Remove the USB flash drive.

12. After the reset process is complete, check the new software version to confirm it is updated to the most recent software.

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	√		
SUPPORTED_PARAMETERS			√
PARAMETER_DESCRIPTION			√
DEVICE_INFO			√
DEVICE_MODEL_DESCRIPTION			√
MANUFACTURER_LABEL			√
DEVICE_LABEL		√	√
FACTORY_DEFAULTS		√	√
SOFTWARE_VERSION_LABEL			√
BOOT_SOFTWARE_VERSION_ID			√
BOOT_SOFTWARE_VERSION_LABEL			√
DMX_PERSONALITY		√	√
DMX_PERSONALITY_DESCRIPTION			√
DMX_START_ADDRESS		√	√
SLOT_INFO			√
SLOT_DESCRIPTION			√
SENSOR_DEFINITION			√
SENSOR_VALUE			√
CURVE		√	√
CURVE_DESCRIPTION			√
DEVICE_HOURS			√
LAMP_HOURS			√
PAN_INVERT		√	√
TILT_INVERT		√	√
IDENTIFY_DEVICE		√	√
RESET_DEVICE		√	√

√ -Command implemented for the respective parameter ID

7.3 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
Frequency(1200Hz)	1072~1327
Dimming Start	-500~500
Dim 1 Offset	-500~500
Dim 2 Offset	-500~500
Pan	-128~127
Tilt	-128~127
Cyan	-128~127
Magenta	-128~127
Yellow	-128~127
CTO	-128~127
Color	-128~127
Gobo 1	-128~127
R-Gobo 1	-128~127
Gobo 2	-128~127
Animation	-128~127
Iris	0~255
Prism 1	-128~127
R-Prism 1	-128~127
Prism 2	-128~127
R-Prism 2	-128~127
Frost 1	-128~127
Frost 2	-128~127
Zoom	-128~127
Focus	-128~127
Blade	-128~127

Blade DW 1	-128~127
Blade DW 2	-128~127
Blade UP 1	-128~127
Blade UP 2	-128~127
Blade LF 1	-128~127
Blade LF 2	-128~127
Blade RG 1	-128~127
Blade RG 2	-128~127

Frequency(Hz)

Select **Frequency(Hz),** press ENTER.

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

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

Frequency	VALUES
900Hz	772~1027
1000Hz	872~1127
1100Hz	972~1227
1200Hz	1072~1327
1300Hz	1172~1427
1400Hz	1272~1527
1500Hz	1372~1627
2500Hz	2372~2627
4000Hz	3872~4127
5000Hz	4872~5127
6000Hz	5872~6127
10KHz	9872~10127
15KHz	14872~15127
20KHz	19872~20127
25KHz	24872~25127

Dimming Start

> Select **Dimming Start,** press ENTER.
>
> Use UP/DOWN button to select a value between -500 and 500, confirm your selection with ENTER.
>
> To exit the offset menu, press MENU, or wait 30 seconds.

Dim 1 Offset

> Select **Dim 1 Offset,** press ENTER.
>
> Use UP/DOWN button to select a value between -500 and 500, confirm your selection with ENTER.
>
> To exit the offset menu, press MENU, or wait 30 seconds.

Dim 2 Offset

> Select **Dim 2 Offset,** press ENTER.
>
> Use UP/DOWN button to select a value between -500 and 500, 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.

Cyan

Select **Cyan,** 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.

Magenta

Select **Magenta,** 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.

Yellow

Select **Yellow,** 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.

CTO

Select **CTO,** 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.

Gobo 1

Select **Gobo 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-Gobo 1

Select **R-Gobo 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.

Gobo 2

Select **Gobo 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.

Animation

Select **Animation,** 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.

Iris

Select **Iris,** press ENTER.

Use UP/DOWN button to select a value between 0 and 255, 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.

Frost 1

Select **Frost 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.

Frost 2

Select **Frost 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.

Zoom

Select **Zoom,** 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.

Blade

Select **Blade,** 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.

Blade DW1

Select **Blade DW 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.

Blade DW 2

Select **Blade DW 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.

Blade UP 1

Select **Blade UP 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.

Blade UP 2

Select **Blade UP 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.

Blade LF 1

Select **Blade LF 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.

Blade LF 2

> Select **Blade LF 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.

Blade RG 1

> Select **Blade RG 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.

Blade RG 2

> Select **Blade RG 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.

08/ Configuring the Device for DMX Control

8.1 Address Setting

All fixtures should be given a DMX starting address when operating with a DMX controller, in order to ensure that the correct fixture responds to the correct control signal. Incorrect settings will result in unpredictable responses from the lighting controller.

You can set the same starting address for all fixtures or a group of fixtures, or set different addresses for each individual fixture.

Setting all fixtures to the same DMX address will cause all fixtures to react in the same way. In this case, please note that changing the settings of one channel will affect all the fixtures simultaneously.

If you set each fixture to a different DMX address, each unit will "listen" starting at the channel number you have set, based on the quantity of DMX channels of each fixture. That means changing the settings of one channel will only affect the selected fixture.

For example, if the first fixture is set to 45 ch DMX mode with a start DMX address of 1, the following fixture in the DMX chain should then be set to a DMX address of46. As the first fixture uses all the first 45 DMX channels, the next available channel is 46 (45+1=46 >> 46). See the chart below for more details:

Channel Mode	Unit 1 Address	Unit 2 Address	Unit 3 Address	Unit 4 Address	Unit xxx Address
45 channels	1	46	91	136	......
36 channels	1	37	73	109	......
27 channels	1	28	55	82	......
36 channels	1	37	73	109	......

8.2 DMX Protocol

CHANNEL				VALUE	FUNCTION
45ch Framing	36ch F-Wash	27ch Wash	36ch Spot		
1	1	1	1	000-255	**PAN** 0°→540°
2	2	2	2	000-255	**PAN FINE**
3	3	3	3	000-255	**TILT** 0°→270°
4	4	4	4	000-255	**TILT FINE**
5	5	5	5	000-127 128-189 190-193 194-255	**Pan Infinity** No Function Counter-Clockwise rotation, fast to slow Stop Clockwise rotation, slow to fast
6	6	6	6	000-127 128-189 190-193 194-255	**Tilt Infinity** No Function Counter-Clockwise rotation, fast to slow Stop Clockwise rotation, slow to fast
7	7	7	7	000-255	**PAN/TILT SPEED** Fast to Slow
8	8	8	8	000-255	**CYAN** 0%→100%
9	9	9	9	000-255	**CYAN Fine** 0%→100%
10	10	10	10	000-255	**MAGENTA** 0%→100%
11	11	11	11	000-255	**MAGENTA Fine** 0%→100%
12	12	12	12	000-255	**YELLOW** 0%→100%
13	13	13	13	000-255	**YELLOW Fine** 0%→100%
14	14	14	14	000-255	**CTO** 0%→100%
15	15	15	15	000-007 008-018 019-029 030-040 041-051 052-063 064-066	**COLOR WHEEL** Open Color 1 Color 2 Color 3 Color 4 Color 5 Open

				067-069	Open + Color 1
				070-072	Color 1
				073-075	Color 1 + Color 2
				076-078	Color 2
				079-081	Color 2 + Color 3
				082-084	Color 3
				085-087	Color 3 + Color 4
				088-090	Color 4
				091-093	Color 4 + Color 5
				094-096	Color 5
				097-099	Color 5 + CRI
				100-102	CRI
				103-105	CRI + CTB
				106-108	CTB
				109-111	CTB + Open
				112-127	Open
				128-189	Counter-Clockwise Rotation, Fast to Slow
				190-193	Stop
				194-255	Clockwise Rotation, Slow to Fast
16			16		**GOBO WHEEL 1**
				000-007	Open
				008-015	Gobo 1
				016-023	Gobo 2
				024-031	Gobo 3
				032-039	Gobo 4
				040-047	Gobo 5
				048-055	Gobo 6
				056-063	Gobo 7
				064-072	Gobo 1 Shaking, Slow to Fast
				073-081	Gobo 2 Shaking, Slow to Fast
				082-090	Gobo 3 Shaking, Slow to Fast
				091-099	Gobo 4 Shaking, Slow to Fast
				100-108	Gobo 5 Shaking, Slow to Fast
				109-117	Gobo 6 Shaking, Slow to Fast
				118-127	Gobo 7 Shaking, Slow to Fast
				128-189	Counter-Clockwise Rotation, Fast to Slow
				190-193	Stop
				194-255	Clockwise Rotation, Slow to Fast
17			17		**R-GOBO WHEEL 1**
				000-127	Index 0°→360°
				128-189	Counter-Clockwise Rotation, Fast to Slow
				190-193	Stop
				194-255	Clockwise Rotation, Slow to Fast
18			18		**R-GOBO WHEEL 1 FINE**
				000-255	0%→100%
19			19		**GOBO WHEEL 2**
				000-007	Open

				008-010	Gobo 1
				011-013	Gobo 2
				014-016	Gobo 3
				017-019	Gobo 4
				020-022	Gobo 5
				023-025	Gobo 6
				026-028	Gobo 7
				029-031	Gobo 8
				032-034	Gobo 9
				035-037	Gobo 10
				038-040	Gobo 11
				041-043	Gobo 12
				044-046	Gobo 13
				047-049	Gobo 14
				050-052	Gobo 15
				053-055	Gobo 16
				056-063	No Function
				064-066	Gobo 1 Shaking, Slow to Fast
				067-069	Gobo 2 Shaking, Slow to Fast
				070-072	Gobo 3 Shaking, Slow to Fast
				073-075	Gobo 4 Shaking, Slow to Fast
				076-078	Gobo 5 Shaking, Slow to Fast
				079-081	Gobo 6 Shaking, Slow to Fast
				082-084	Gobo 7 Shaking, Slow to Fast
				085-087	Gobo 8 Shaking, Slow to Fast
				088-090	Gobo 9 Shaking, Slow to Fast
				091-093	Gobo10 Shaking, Slow to Fast
				094-096	Gobo 11 Shaking, Slow to Fast
				097-099	Gobo 12 Shaking, Slow to Fast
				100-102	Gobo 13 Shaking, Slow to Fast
				103-110	Gobo 14 Shaking, Slow to Fast
				111-118	Gobo 15 Shaking, Slow to Fast
				119-127	Gobo 16 Shaking, Slow to Fast
				128-189	Counter-Clockwise rotation, fast to slow
				190-193	Stop
				194-255	Clockwise rotation, slow to fast
20				20	**ANIMATION**
				000-007	Open
				008-129	Clockwise Rotation Fast to Slow
				130-133	Stop
				134-255	Counter-Clockwise Rotation slow to fast
21	16	16	21		**IRIS**
				000-255	100%→0%
22				22	**PRISM 1**
				000-007	Close
				008-255	Open
23				23	**R-PRISM 1**

				000-127	Index 0°→360°
				128-189	Clockwise Rotation, Fast to Slow
				190-193	Stop
				194-255	Counter-Clockwise Rotation, Slow to Fast
24			24		**PRISM 2**
				000-007	Close
				008-255	Open
25			25		**R-PRISM 2**
					Index 0°→360°
				000-127	
				128-189	Clockwise Rotation, Fast to Slow
				190-193	Stop
				194-255	Counter-Clockwise Rotation, Slow to Fast
26	17	17	26		**CRI**
				000-007	Close
				008-255	Open
27	18	18	27		**FROST 1**
				000-255	0%→100%
28	19	19	28		**FROST 2**
				000-255	0%→100%
29	20	20	29		**ZOOM**
				000-255	Wide→Narrow
30	21	21	30	000-255	**ZOOM FINE**
31	22	22	31		**FOCUS**
				000-255	0%→100%
32	23	23	32	000-255	**FOCUS FINE**
33	24	24	33		**STROBE**
				000-007	Close
				008-015	Open
				016-131	Strobe from Slow to Fast
				132-139	Open
				140-181	Fast Open Slow Close from Slow to Fast
				182-189	Open
				190-231	Slow Open Fast Close from Slow to Fast
				232-239	Open
				240-247	Random Strobe from Slow to Fast
				248-255	Open
34	25	25	34		**DIMMER**
				000-255	0%→100%
35	26	26	35	000-255	**DIMMER FINE**
36	27				**BLADE**
				000-255	0°→180°
37	28				**BLADE DW 1**
				000-255	0%→100%

38	29			000-255	**BLADE DW 2** 0%→100%
39	30			000-255	**BLADE UP 1** 0%→100%
40	31			000-255	**BLADE UP 2** 0%→100%
41	32			000-255	**BLADE LF 1** 0%→100%
42	33			000-255	**BLADE LF 2** 0%→100%
43	34			000-255	**BLADE RG 1** 0%→100%
44	35			000-255	**BLADE RG 2** 0%→100%
45	36 (No GOBO Short Cut Enable and GOBO Short Cut Disable）	27 (No Blade Mode）	36 (No Blade Mode)	000-005 006-007 008-009 010-019 020-029 030-039 040-049 050-059 060-069 070-079 080-089 090-099 100-109 110-119 120-122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137	**FUNCTION** (To activate following functions, stop in DMX value for at least 3 seconds.) Null Null Null Blade Mode: Mode 1 Blade Mode: Mode 2 Dimmer Curve Square Law Dimmer Curve Inv Square Law Dimmer Curve Linear Dimmer Curve S Fan Mode: Standard Fan Mode: Quiet Fan Mode: Theatre LED Frequency Setting Enable LED Frequency Setting Disable Null 900Hz 1000Hz 1100Hz 1200Hz 1300Hz 1400Hz 1500Hz 2500Hz 4000Hz 5000Hz 6000Hz 10KHz 15KHz 20KHz 25KHz

				138-139	Null
				140-149	Reset Pan/Tilt
				150-159	Reset Effect
				160-171	Null
				172-173	Focus Compensate: Disable
				174-175	Focus Compensate: Near (10m)
				176-177	Focus Compensate: Medium (20m)
				178-179	Focus Compensate: Far (30m)
				180-181	Sun Protection Mode：On
				182-183	Sun Protection Mode：Off
				184-199	Null
				200-209	Reset All
				210-219	Dimmer Speed: Fast
				220-229	Dimmer Speed: Smooth
				230-231	Gobo Short Cut: Enable
				232-233	Gobo Short Cut: Disable
				234-235	Color Short Cut: Enable
				236-237	Color Short Cut: Disable
				238-239	CTB Compensate: Enable
				240-241	CTB Compensate: Disable
				242-255	Null

09/ 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/E/F/G/H/I 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.

External Flash Error

Check whether the external flash storage device is properly inserted and secured.

Check whether the flash storage device is damaged or its file format is incompatible.

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.

Pan Encode No Find

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

Pan Encode Disable

> Check whether the encoder on the pan is damaged.

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.

Tilt Encode No Find

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

Tilt Encode Disable

Check whether the encoder on the tilt is damaged.

Cyan Reset Error

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

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

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

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

Check whether the motor on the cyan color wheel is damaged.

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

Magenta Reset Error

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

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

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

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

Check whether the motor on the magenta color wheel is damaged.

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

Yellow Reset Error

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

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

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

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

Check whether the motor on the yellow color wheel is damaged.

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

CTO Reset Error

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

Check whether there are obstacles in the cto operating range.

Check whether the Hall element on the cto is damaged.

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

Check whether the motor on the cto is damaged.

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

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.

Rotate Gobo Reset Error

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

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

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

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

Check whether the motor on the Rotate gobo wheel   is damaged.

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

R-Gobo Reset Error

Check whether the position of the gobo wheel 1 where the magnet is installed falls off or is damaged.

Check whether there are obstacles in the gobo wheel 1 operating range.

Check whether the Hall element on the gobo wheel 1 is damaged.

Check whether the lead connecting the Hall element on the gobo wheel 1 and the PCB board is in poor contact or disconnected.

Check whether the motor on the gobo wheel 1 is damaged.

Check whether the related circuit of the motor drive board on the gobo wheel 1 is damage.

Fixed Gobo Reset Error

Check whether the position of the gobo wheel 1 where the magnet is installed falls off or is damaged.

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

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

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

Check whether the motor on the fixed gobo is damaged.

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

Animation Reset Error

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

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

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

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

Check whether the motor on the animation wheel is damaged.

Check whether the related circuit of the motor drive board on the animation 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.

REV B 2/10/2026

Zoom Reset Error

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

Check whether there are obstacles in the zoom operating range.

Check whether the Hall element on the zoom is damaged.

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

Check whether the motor on the zoom is damaged.

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

Blade Reset Error

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

Check whether there are obstacles in the blade operating range.

Check whether the Hall element on the blade is damaged.

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

Check whether the motor on the blade is damaged.

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

Base Fan A 1/2 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.

Head Fan G/F/D 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.

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 $85^{\circ}C$, it will automatically turn off to protect the fixture.

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 Error

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

Base Humi. Too High

> Disassemble the housing of the fixture to dehumidify.

Head Humi. Too High

> Disassemble the housing of the fixture to dehumidify.

Memory Error

> When the memory IC keeps reporting errors, please replace the motherboard.

Network Error

> Check whether the network cable is correctly inserted and undamaged.
>
> Verify that the fixture's IP address and network settings match the control system configuration.
>
> Check whether the switch or network router is functioning properly and has sufficient available ports.
>
> Verify that the control software's network protocol settings (e.g., Art-Net, sACN) are compatible with the fixture.
>
> If using wireless DMX, check signal stability and receiver status. and has sufficient available ports.
>
> Verify that the control software's network protocol settings (e.g., Art-Net, sACN) are compatible with the fixture.

Position of cooling fans:
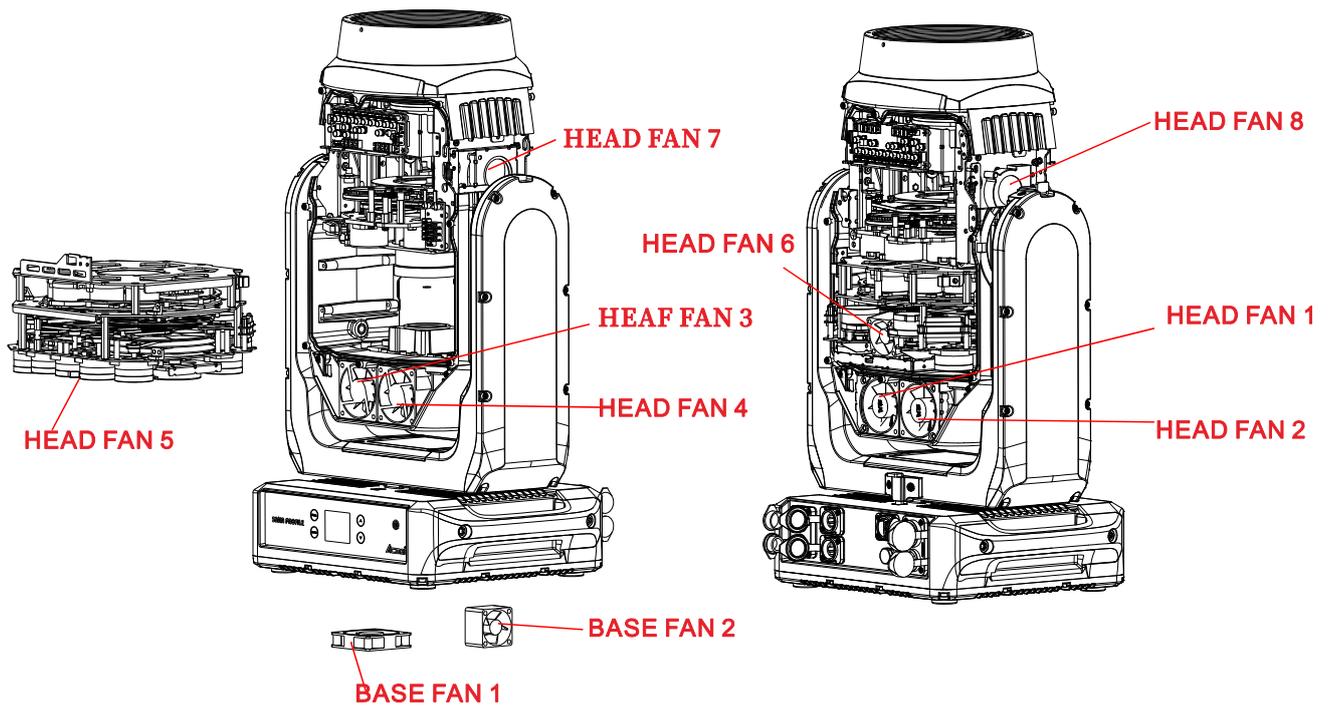
Cooling Fans	Part Number	V	W	Position
Base Fan 1	3014001422	DC 24V	3.6W	A-FAN1
Base Fan 2	3014001428	DC 24V	7.2W	A-FAN2
Head Fan 1	3014001440	DC 24V	3.4W	G-FAN1
Head Fan 2				G-FAN2
Head Fan 3				G-FAN3
Head Fan 4				G-FAN4
Head Fan 5	3014001282	DC 24V	2.4W	F-FAN2
Head Fan 6	3014001428	DC 24V	7.2W	F-FAN1
Head Fan 7	3014001300	DC 24V	2.9W	D-FAN1
Head Fan 8	3014001300	DC 24V	2.9W	D-FAN2

REV B 2/10/2026

10/ Troubleshooting

Problem	Potential cause(s)	Remedies
Fixture does not respond or appears to be off.	No power to the fixture.	Confirm that the power is switched on and cables are plugged in.
	No output from PSU.	Replace the PSU.
Fixture suddenly turned off.	Power was turned off.	Check the power supply, switches and breakers.
Light output cuts out intermittently.	Fixture is too hot.	Check fixture's stored error messages for more information. Allow fixture to cool. Clean fixture. Reduce ambient temperature.
Fixture suddenly stopped responding.	DMX cables were disconnected.	Inspect DMX cables.
Fixture operates irregularly / abnormal.	Incorrect DMX address or DMX mode.	Inspect and enter the correct DMX address or mode.
	DMX link is not terminated.	Install a XLR 120ohm DMX termination at the end of the DMX link.
	Bad data link.	Replace or repair defective cables and/or connections.
	One of the fixtures is defective and is disturbing data transmission on the link.	Track and isolate the corrupted fixture. Have the fixture serviced by a qualified technician.
Pan / tilt is skipping / shuddering	Pan/ tilt locks are not released.	Release the pan / tilt locks.
	Obstacles are within the required pan / tilt clearance.	Inspect and remove any obstacles constraining free operation of the pan / tilt.
	The Hall element is damaged.	Replace the Hall element.
	The magnetic steel fell out.	Replace the magnetic steel.

11/ Fixture Cleaning

Regular cleaning is very important for fixture life and performance. Buildup of dust, dirt, smoke particles, fog fluid residues, etc. degrades the fixture's light output and cooling ability. Cleaning schedules for lighting fixtures vary greatly depending on the operating environment. It is therefore impossible to specify precise cleaning intervals for the fixture. Environmental factors that may result in a need for frequent cleaning include:

▸ Use of smoke or fog machines.

▸ High airflow rates (near air conditioning vents, for example).

▸ Airborne dust (from stage effects, building structures and fittings or the natural environment at outdoor events, for example).

If one or more of these factors is present, inspect fixtures within their first few hours of operation to see whether cleaning is necessary. Check again at frequent intervals. This procedure will allow you to assess cleaning requirements in your particular situation.

Follow these precautions when cleaning the fixture:

▸ Work in a clean, dry, well-lit area.

▸ Use gentle pressure only. A soft lint-free cloth dampened with a solution of water and a mild detergent is recommended, under no circumstances should alcohol, solvents or abrasives be used! Use care when cleaning optical components: surfaces are fragile and easily scratched.

12/ Approvals and Certifications

This product has been tested and found to comply with the following standards:

- 2014/30/EU - Electromagnetic Compatibility (EMC)

- 2014/35/EU - Low Voltage Directive (LVD)

- cETLus Approved (Control #5000057)

- UK SI 2016 No. 1091: Electromagnetic Compatibility Regulations 2016

- UK SI 2016 No. 1101: The Electric Equipment (Safety) Regulations 2016

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