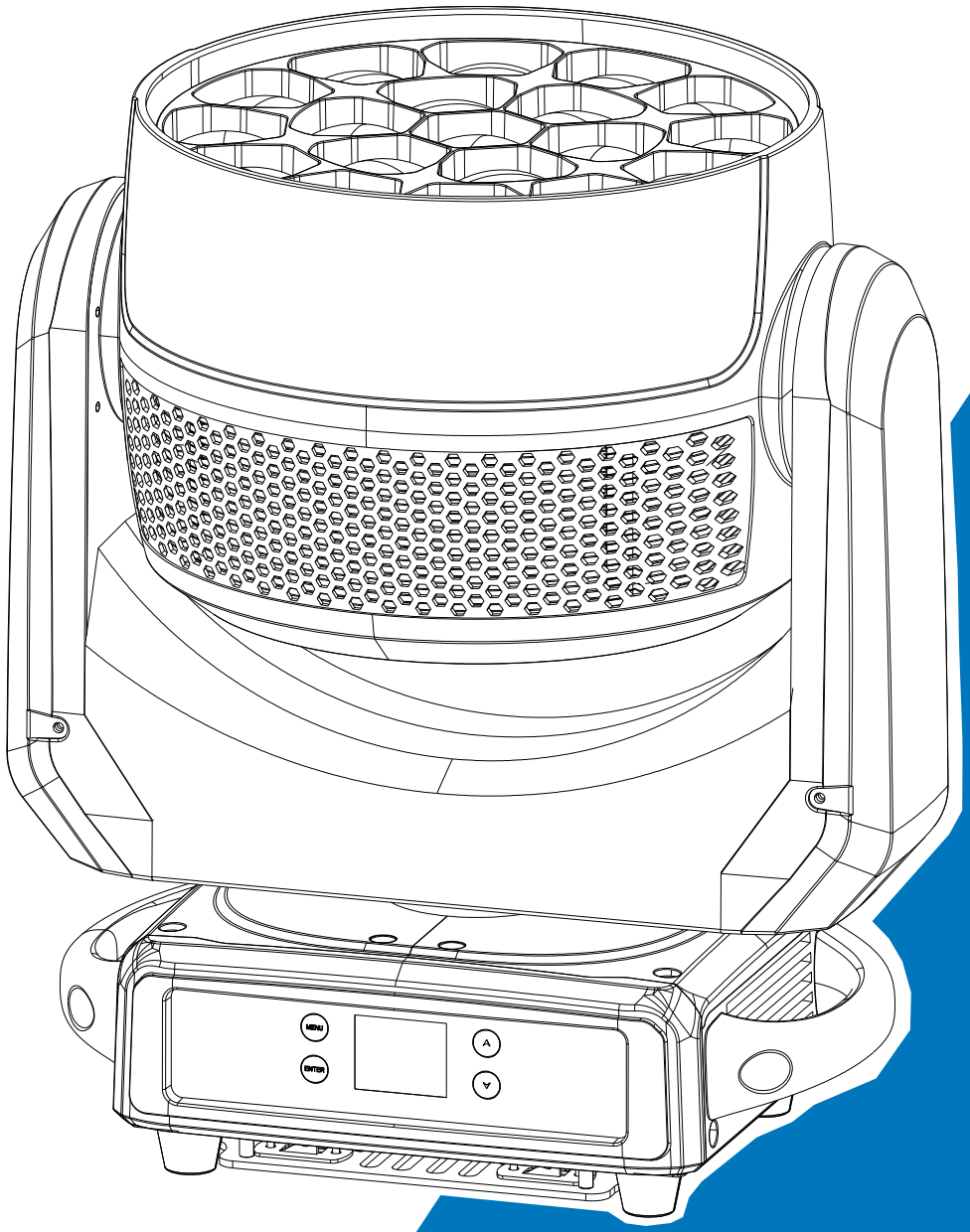
Neozone 5



User Manual

Please read the instruction carefully before use

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01/ Safety Information



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

WARNING

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

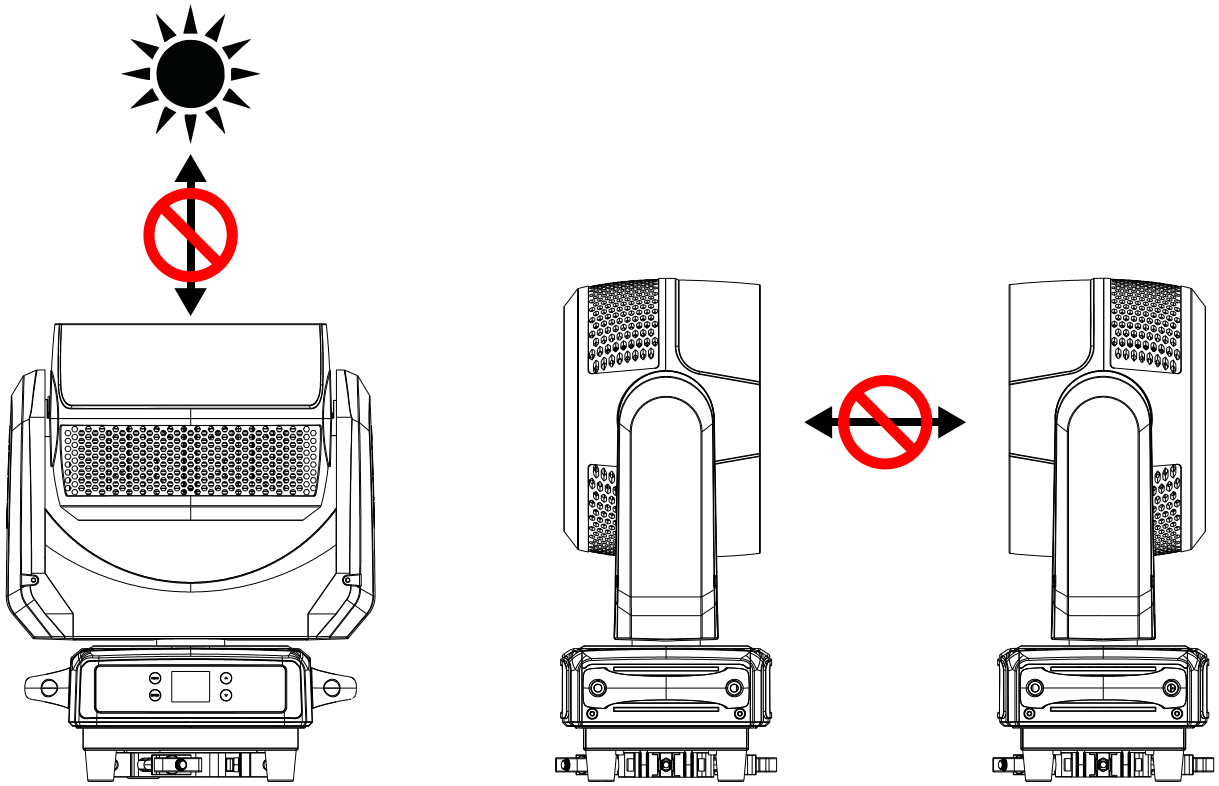
Important:

Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.

- Unpack and check carefully to ensure that there is no transportation damage before using the unit.
- This product is for indoor use only. Use only in a dry location.
- 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˚C. Maximum ambient temperature TA: 40˚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 75˚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 0.5 meters.
- Disconnect mains power before fuse replacement or servicing.
- Replace fuse only with the same type.
- In the event of serious operating problem, stop using the unit immediately.
- Never turn on and off the unit time after time.
- The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.
- DO NOT open the housing as there are no user serviceable parts inside.
- DO NOT attempt to operate this unit if it becomes damaged. DO NOT attempt any repairs yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center if needed.
- Disconnect this product from its power source before servicing.
- DO use the original packaging if the device is to be transported.
- 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.

- 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 destiné à une utilisation en intérieur uniquement. Utilisez-le uniquement dans un endroit sec.
- 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.
- Temp é rature ambiante minimale (TA): 0˚C. Temp é rature ambiante maximale (TA): 40˚C. Ne pas utiliser ce produit à une temp é rature inf é rieure ou sup é rieure.
- 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.

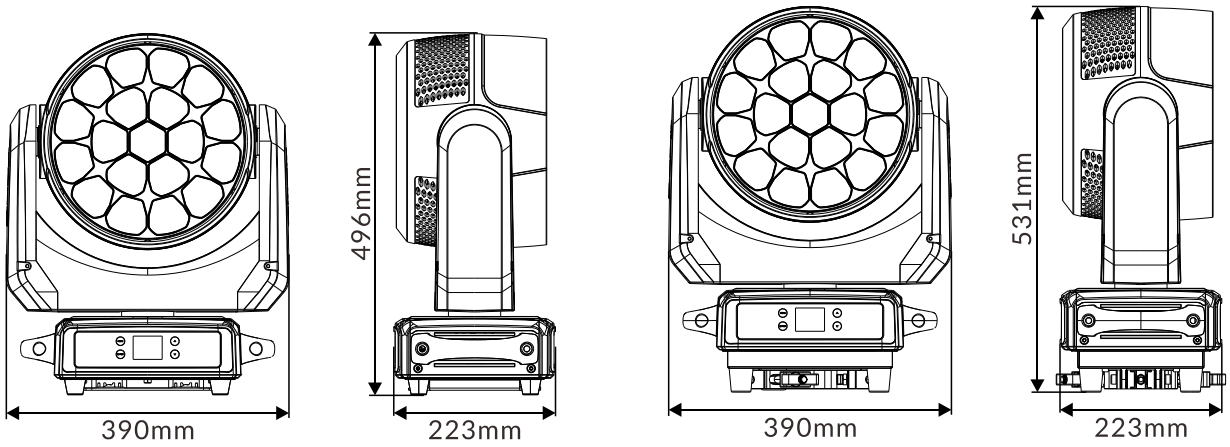
- Vérifier que le cordon d'alimentation n'est ni écrasé ni endommagé; le remplacer immédiatement s'il est endommagé.
- La température de surface de l'appareil peut atteindre jusqu'à 75℃. NE PAS toucher le boîtier à mains nues pendant son fonctionnement.
- Évitez que des liquides inflammables, de l'eau 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 0.5 mètres.
- Débranchez l'alimentation électrique avant de remplacer le fusible ou d'effectuer toute maintenance.
- Remplacez le fusible uniquement par un modèle de même type.
- 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.
- 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.

- 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	960W	
Light Source	19x40W RGBW LED	
Beam Angle	3.5°-28.5°	
Field Angle	5°-50°	
Movement	Pan	540°
	Tilt	220°
	16 bit movement resolution	
	Automatic pan/tilt repositioning	
Control and Programming	DMX Channels	17/21/86/10+
	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	3-pin XLR (optional with 5-pin XLR)
		RJ45 Connectors
	Power In/Out	Power Connector in/out
	Protection Rating	IP20
Dynamic Effects	19 x RGBW LEDs with individual control	
	0-100% continuous dimming and strobe effects	
	Choice of four dimming curves	
	Motorized zoom	
	Variable color temperature control	
	Outstanding color mixing	
	With color correction system to ensure consistent color output	
	Powerful beam and wash effects	

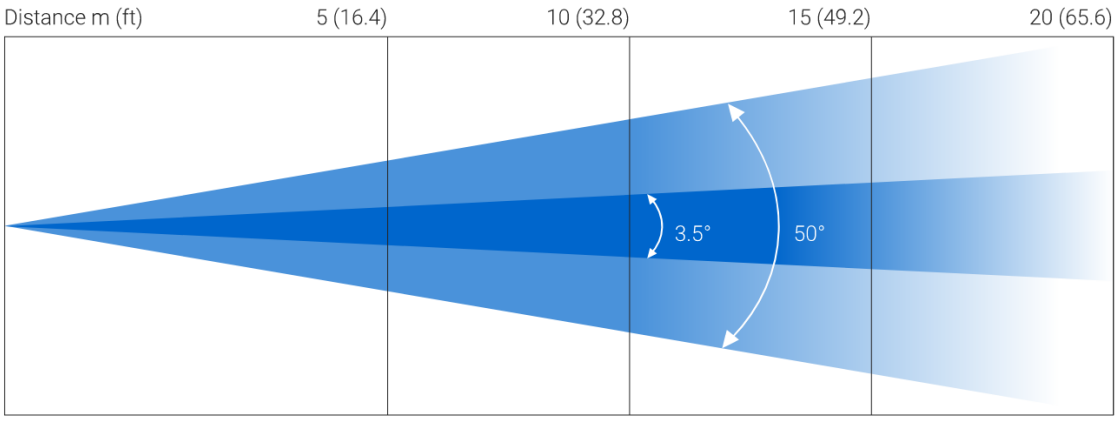
	2 x fixed foldable clamps for 50mm truss (version with fixed foldable clamps)	
Dimensions	390x223x496mm (version with omega bracket holes)	15.4"x8.8"x19.5"
Dimensions	390x223x531mm (version with fixed foldable clamps)	15.4"x8.8"x20.9"
Weight	20 kg (version with omega bracket holes)	44.1 lbs
Weight	21.3 kg (version with fixed foldable clamps)	47 lbs



version without fixed clamps

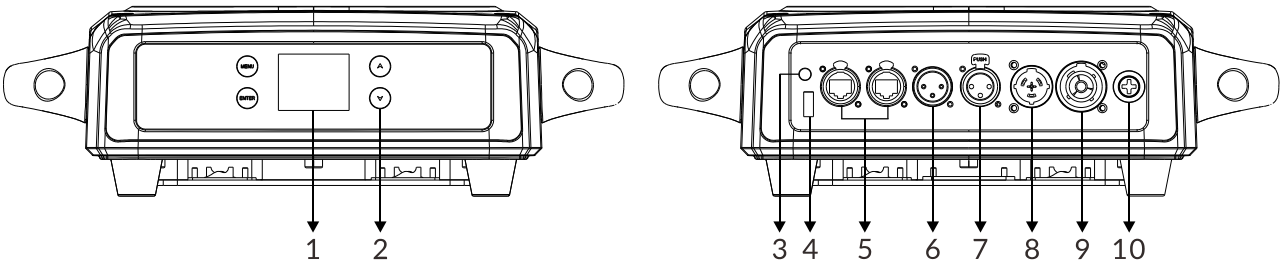
version with fixed clamps

Photometric Diagram:



3.5° Lux	51,000	12,750	5,600	3,100
Diameter m (ft)	0.5 (1.6)	1.0 (3.3)	1.5 (4.9)	2.0 (6.6)
50° Lux	2,240	560	240	140
Diameter m (ft)	4.8 (15.8)	9.6 (31.5)	14.4 (47.2)	19.2 (63)

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. BATTERY DISPLAY		
4. FIRMWARE UPGRADE	Used to upgrade fixture's firmware	
5. ETHERNET	Transfers fixture's information to a main controller	
6. DMX IN	For DMX512 link, use 3-pin XLR cable to link the unit and DMX controller to input DMX signal (optional with 5-pin XLR)	
7. DMX OUT	For DMX512 link, use 3-pin XLR cable to link the next units to output DMX signal (optional with 5-pin XLR)	
8. POWERCON IN	To connect to supply power	
9. POWERCON OUT	To connect to the next fixture	
10. FUSE(T 15A)	Protects the unit from damage of over current or short circuit	

3.1 Battery Power

This product contains a rechargeable battery.

Battery type: 18650 Lithium-ion battery (3.7V, 2200mAh, 8.14Wh), 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.

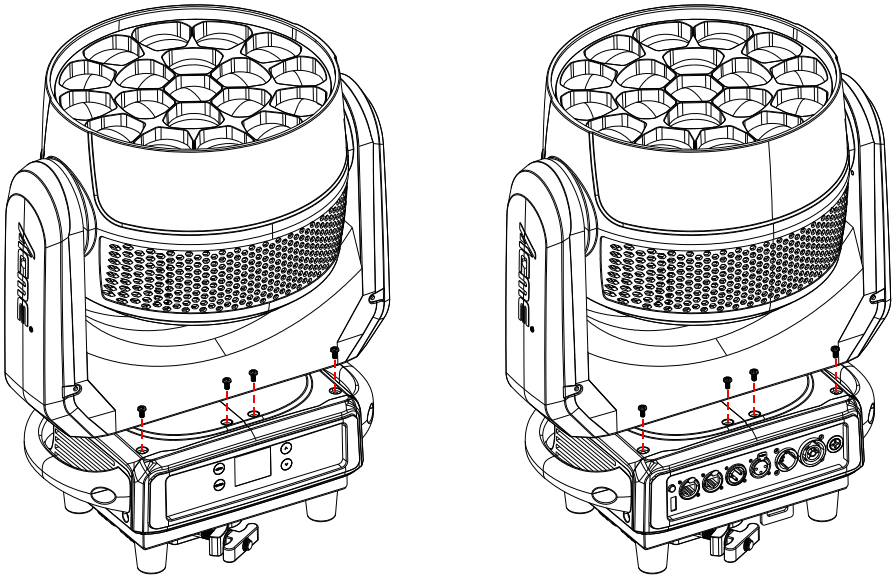
To activate the display when the fixture is not connected to power, press and hold the ‘BATTERY DISPLAY’ button in the rear panel for 3 seconds. The display extinguishes after 30 seconds with no user input. Press and hold the ‘BATTERY DISPLAY’ button for 3 seconds again to re-activate.

Battery Replacement:

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

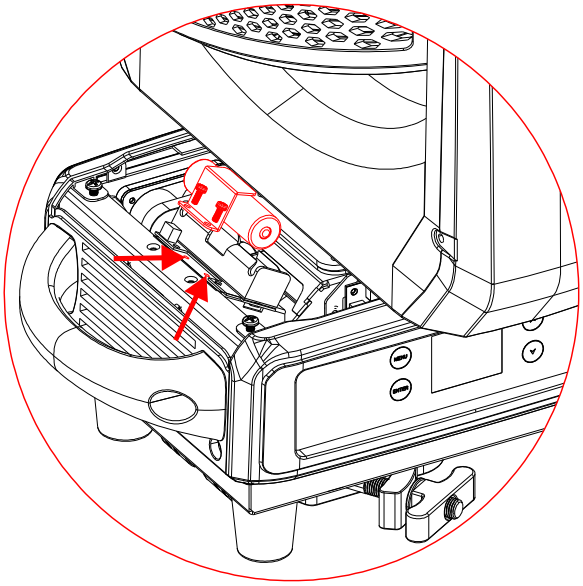
1. Disconnect the fixture from AC mains power and allow to cool.

2. Remove eight screws in the top covers of the fixture base and remove the top covers.



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 top covers and check that it is close securely before reapplying power.

04/ Connecting Power and Data

4.1 Connecting Power

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

The maximum power consumption is 960W.

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 should be used: Listed SJT flexible cord with rating: 300V, 105°C, 16AWG x 3C, molded with 5-15P attachment plug and terminated with cord connector model SAC3FX with rating 250V, 16A by NINGBO HAISHU DISTRICT SEETRONIC ELECTRONIC 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).

CAUTION!

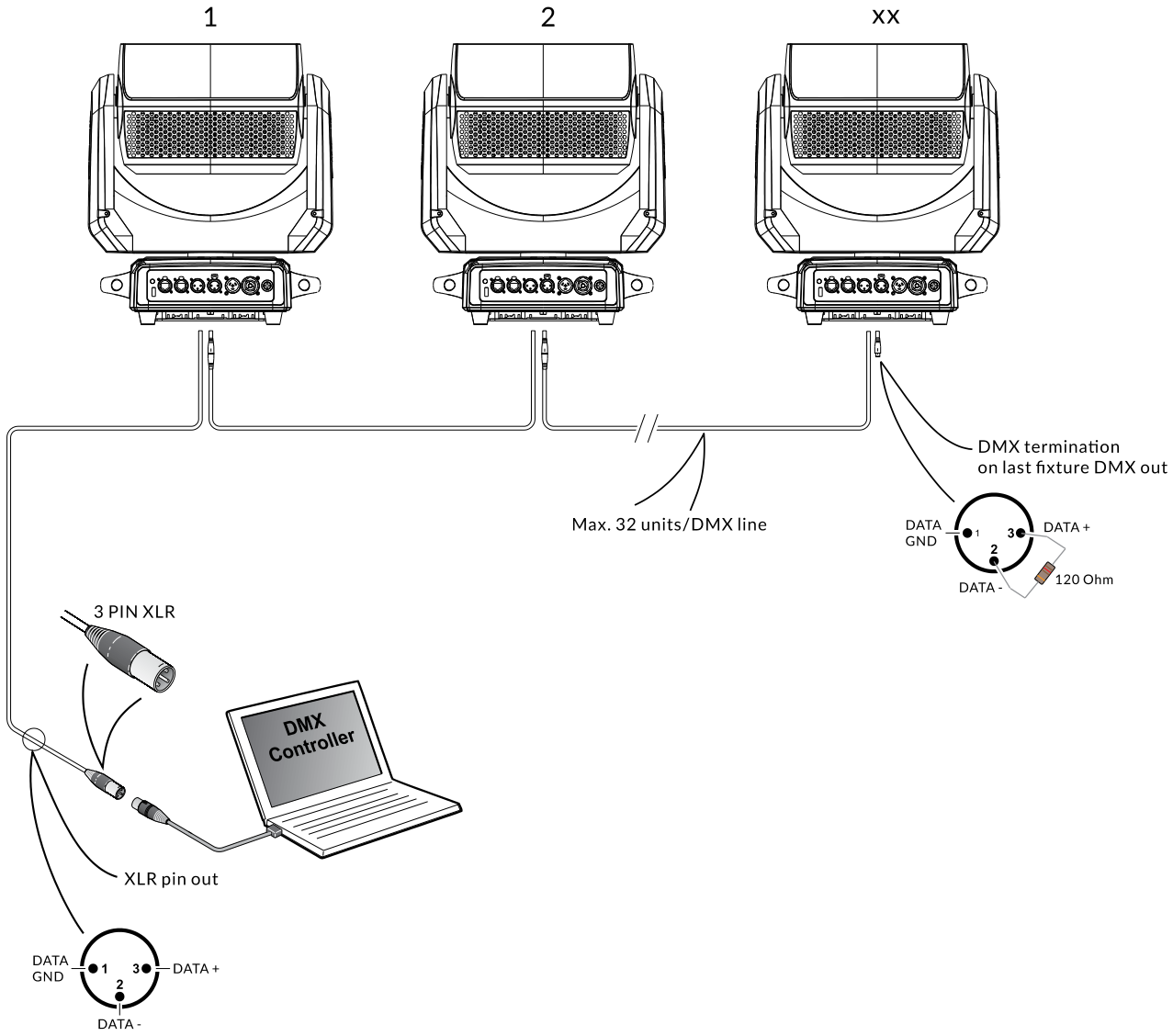
DO NOT CONNECT THE FIXTURE TO AN ELECTRICAL DIMMER SYSTEM AS DOING SO MAY CAUSE DAMAGE.

4.2 Connecting Data

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

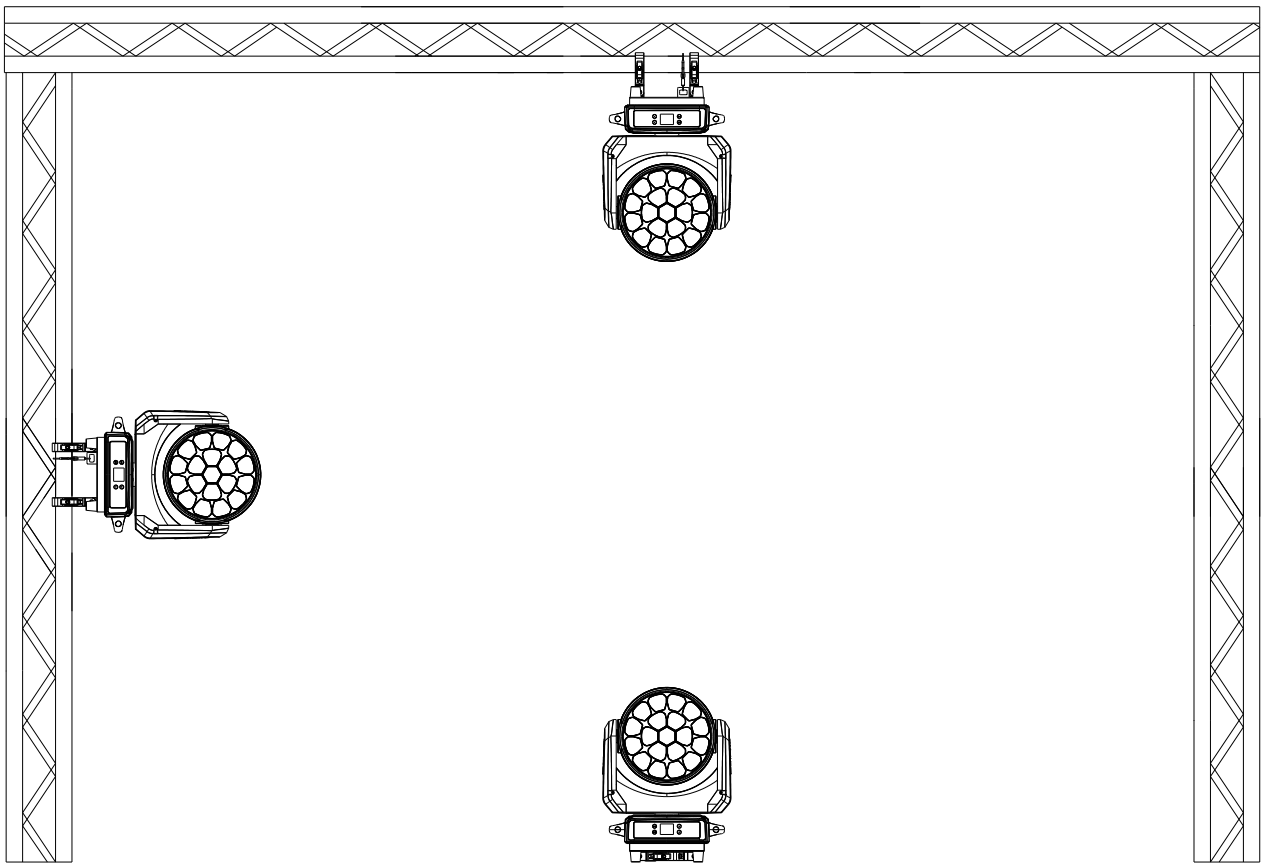
Building a serial DMX chain:

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.

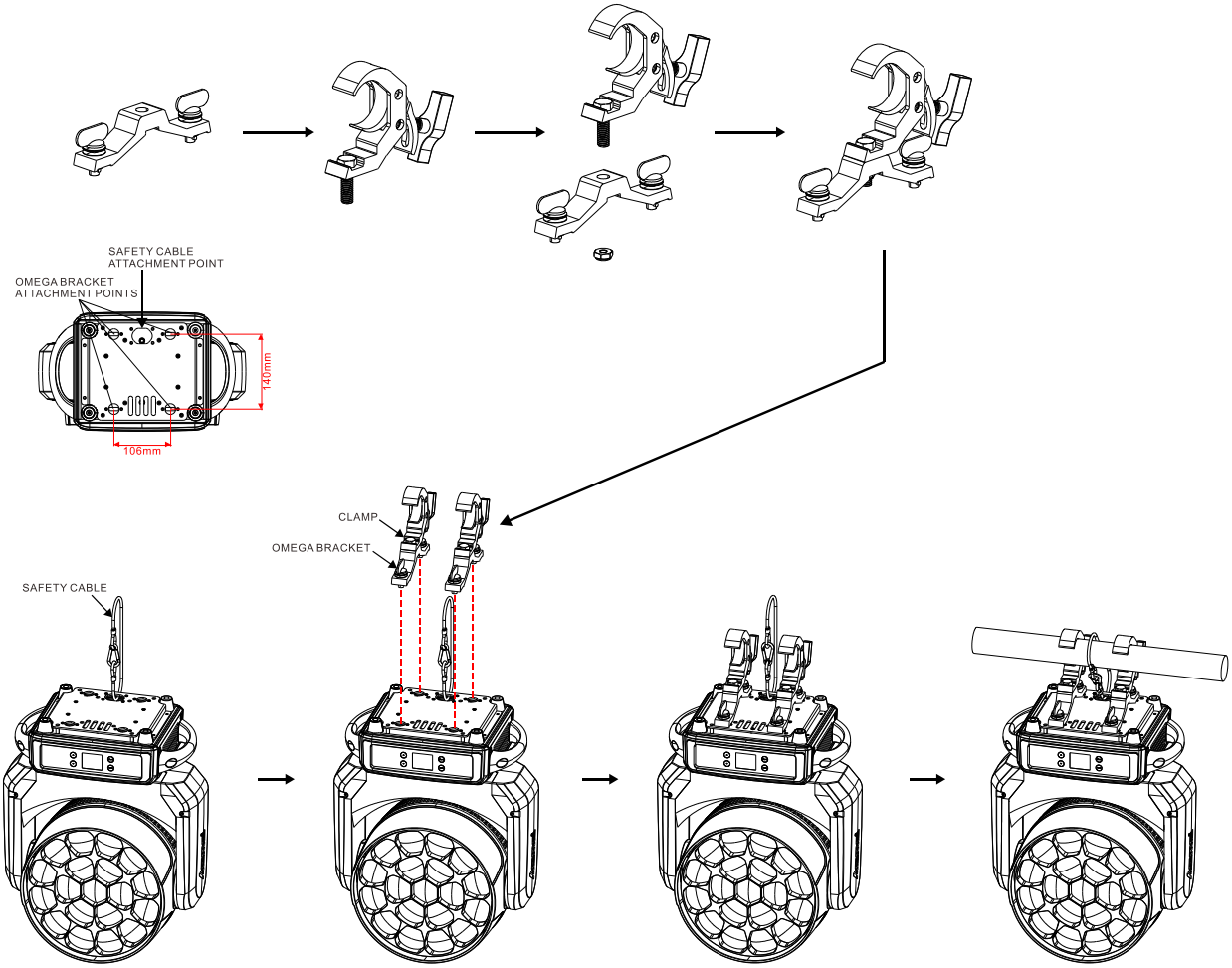


05/ Fixture Installation

- 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 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.



Steps for installing omega brackets to the fixture:



06/ Operation

6.1 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 main functions are shown below:

MAIN MENU	SUBMENU	CHOICES/VALUES		
DMX Settings	DMX Address	1-496 (17 CH)	(Default=1)	
		1-492 (21 CH)		
		1-427 (86 CH)		
		1-503 (10+ CH)		
	DMX Channel Mode	Mode 1 (17)		
		Mode 2 (21)		
		Mode 3 (86)		
		Mode 4 (10+)		
	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	
		Subnet 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)

MAIN MENU	SUBMENU	CHOICES/VALUES	
	Network to DMX	No	
		Yes	
Fixture Settings	Pan Invert	No	
		Yes	
	Tilt Invert	No	
		Yes	
	P/T Feedback	No	
		Yes	
	Dimmer Speed	Fast	
		Smooth	
	Dimmer Curve	Linear	
		Square Law	
		Inv SQ Law	
		S Curve	
	White Balance	Red	125-255
		Green	125-255
		Blue	125-255
		Red 1	125-255
		Green 1	125-255
		Blue 1	125-255
		.....	.....
		Red 19	125-255
		Green 19	125-255
		Blue 19	125-255
	Color Calibration	Off	
		On	
	Calibration Mode	Hi CRI	
		Hi Output	
	Zoom Mode	Long	
		Short	
	Cooling Mode	Standard	
		Quiet	
Display Settings	Display Invert	No	
		Yes	
	Backlight Intensity	1-10	(Default=10)
	Temperature Unit	°C	
		°F	

MAIN MENU	SUBMENU	CHOICES/VALUES			
	Language	English			
		Chinese			
Fixture Test	Auto Test	Single			
		Cycle			
	Manual Test	Mode 1		Mode 2	
		Clear	No/Yes	Clear	No/Yes
		Pan	0-255	Pan	0-255
		Tilt	0-255	Tilt	0-255
		Zoom	0-255	Zoom	0-255
		Strobe	0-255	Dimmer	0-255
		Dimmer	0-255	Strobe	0-255
		Red 1	0-255	Red	0-255
		Green 1	0-255	Green	0-255
		Blue 1	0-255	Blue	0-255
		White 1	0-255	White	0-255
		.....	.....	CTO	0-255
		Red 19	0-255	Color	0-255
		Green 19	0-255	Pixel	0-255
		Blue 19	0-255	Pixel Macro	0-255
		White 19	0-255		
Fixture Information	Fixture Use Hour				
	LED Use Hour	Total LED Hour			
		LED On Hour			
		LED Hours Reset	Password=050		
	Temperature			Current	Max
		LED's	LED 1-3		
		PCBA	CPU-A~G		
	Upgrade File				
	Fan State	B_FAN 1			
		B_FAN 2			
		H_FAN 1			
		H_FAN 2			
	Firmware Version				
	RDM UID				
	Error Logs	Fixture Errors			
		Reset Error Log	No		
			Yes	Password=050	

MAIN MENU	SUBMENU	CHOICES/VALUES
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, 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
Mode 1 (17)	1-496
Mode 2 (21)	1-492
Mode 3 (86)	1-427
Mode 4 (10+)	1-503

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 **Mode 1 (17), Mode 2 (21), Mode 3 (86)** and **Mode 4 (10+)**, 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, Dimmer Speed, Dimmer Curve, White Balance, Color Calibration, Calibration Mode, Zoom Mode** or **Cooling Mode.**

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.

Dimmer Speed

Select **Dimmer Speed,** press ENTER.

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

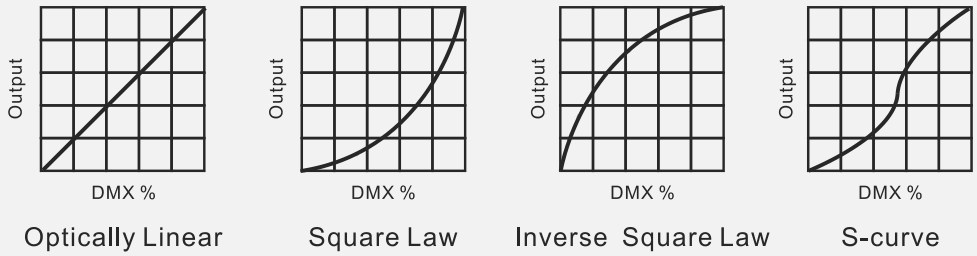
To exit the menu, press MENU, or wait 30 seconds.

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



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

White Balance

Select **White Balance,** press ENTER.

Use UP/DOWN button to select **Red, Green, Blue, Red1, Green1, Blue1.....** or **Red19, Green19, Blue19**, confirm your selection with ENTER.

Use UP/DOWN button to select a value between **125** and **255**, confirm your selection with ENTER.

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

Color Calibration

Select **Color Calibration,** 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.

Calibration Mode

Select **Calibration Mode,** press ENTER.
Use UP/DOWN button to select **Hi CRI** or **Hi Output**, confirm your selection with ENTER.
To exit the menu, press MENU, or wait 30 seconds.

Zoom Mode

Select **Zoom Mode,** press ENTER.
Use UP/DOWN button to select **Long** or **Short**, confirm your selection with ENTER.
To exit the menu, press MENU, or wait 30 seconds.

Cooling Mode

Select **Cooling 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.

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.
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, LED Use Hour, Temperature, Upgrade File, 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.

LED Use Hour

Select **LED Use Hour,** press ENTER.
Use UP/DOWN button to select **Total LED Hour** (total time) or **LED 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 **LED 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.
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.

Upgrade File

Select **Upgrade File,** press ENTER.
The upgrade file 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 **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		√	√
FACTORY_DEFAULTS		√	√
BOOT_SOFTWARE_VERSION_ID			√
BOOT_SOFTWARE_VERSION_LABEL			√
DMX_PERSONALITY		√	√
DMX_PERSONALITY_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
Frequency(Hz)	1072~1327
Pan	-128~127
Tilt	-128~127
Zoom	-128~127
Red 1	0~1000
Green 1	0~1000
Blue 1	0~1000
White 1	0~1000
.....	.....
Red 19	0~1000
Green 19	0~1000
Blue 19	0~1000
White 19	0~1000

Frequency(Hz)

Select **Frequency(Hz),** press ENTER.
Use UP/DOWN button to select a value between 1072 and 1327, 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.

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.

Red 1

Select **Red 1,** press ENTER.
Use UP/DOWN button to select a value between 0 and 1000, confirm your selection with ENTER.
To exit the offset menu, press MENU, or wait 30 seconds.

Green 1

Select **Green 1,** press ENTER.
Use UP/DOWN button to select a value between 0 and 1000, confirm your selection with ENTER.
To exit the offset menu, press MENU, or wait 30 seconds.

Blue 1

Select **Blue 1,** press ENTER.
Use UP/DOWN button to select a value between 0 and 1000, confirm your selection with ENTER.
To exit the offset menu, press MENU, or wait 30 seconds.

White 1

Select **White 1,** press ENTER.
Use UP/DOWN button to select a value between 0 and 1000, confirm your selection with ENTER.
To exit the offset menu, press MENU, or wait 30 seconds.

.....

Red 19

Select **Red 19,** press ENTER.
Use UP/DOWN button to select a value between 0 and 1000, confirm your selection with ENTER.
To exit the offset menu, press MENU, or wait 30 seconds.

Green 19

Select **Green 19,** press ENTER.
Use UP/DOWN button to select a value between 0 and 1000, confirm your selection with ENTER.
To exit the offset menu, press MENU, or wait 30 seconds.

Blue 19

Select **Blue 19,** press ENTER.
Use UP/DOWN button to select a value between 0 and 1000, confirm your selection with ENTER.
To exit the offset menu, press MENU, or wait 30 seconds.

White 19

Select **White 19,** press ENTER.
Use UP/DOWN button to select a value between 0 and 1000, confirm your selection with ENTER.
To exit the offset menu, press MENU, or wait 30 seconds.

07/ Configuring the Device for DMX Control

7.1 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 17 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 of 18. As the first fixture uses all the first 17 DMX channels, the next available channel is 18 (17+1=18 >> 18).

See the chart below for more details:

Channel Mode	Unit 1 Address	Unit 2 Address	Unit 3 Address	Unit 4 Address	Unit xxx Address
17 channels	1	18	35	52	.....
21 channels	1	22	43	64	.....
86 channels	1	87	173	259	.....
10+ channels (Controlled by DMX)	1	11	21	31	.....
10+ channels (Controlled by Art-Net)	1	77	153	229	.....

7.2 DMX Protocol

CHANNEL				VALUE	FUNCTION
17ch	21ch	86ch	10+ch		
			10+ch (Controlled by DMX)		
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°→220°
4	4	4	4	000-255	**TILT FINE**
		5	5	000-255	**PAN/TILT SPEED** Fast to Slow
5	5	6	6	000-255	**ZOOM** Narrow→Wide
7	7	8	8	000-255	**DIMMER** 0%→100%
8	8	9	9	000-255	**DIMMER FINE**
9	9	7	7	000-007 008-015 016-131 132-139 140-181 182-189 190-231 232-239 240-247 248-255	**STROBE** Close Open Strobe from Slow to Fast Open Slow Open Fast Close, Slow to Fast Open Fast Open Slow Close, Slow to Fast Open Random Strobe from Slow to Fast Open
6	6	86	10	000-009 010-019 020-029 030-039 040-049 050-059 060-069 070-079 080-089 090-099 100-109	**FUNCTION** (To activate following functions, stop in DMX value for at least 3 seconds.) Null Zoom Mode: Long Zoom Mode: Short Dimmer Curve Linear Dimmer Curve Square Law Dimmer Curve Inv SQ Law Dimmer Curve S Null Null Null Led Frequency Setting Enable

				110-119 120-129 130-139 140-149 150-159 160-169 170-179 180-189 190-199 200-209 210-219 220-229 230-239 240-245 246-251 252-255	Led Frequency Setting Disable Null Null Pan/Tilt Reset Effect Reset Color Calibration: On Color Calibration: Off Calibration Mode: High CRI Calibration Mode: High Output All Reset Dimmer Speed Fast Dimmer Speed Smooth Null Cooling Mode: Quiet Cooling Mode: Standard Null
10				000-255	**RED** 0%→100%
11				000-255	**GREEN** 0%→100%
12				000-255	**BLUE** 0%→100%
13				000-255	**WHITE** 0%→100%
			10+ch (Controlled by Art-Net)		
	10	**10**	**1**	000-255	**RED 1** 0%→100%
	11	**11**	**2**	000-255	**GREEN 1** 0%→100%
	12	**12**	**3**	000-255	**BLUE 1** 0%→100%
	13	**13**	**4**	000-255	**WHITE 1** 0%→100%
	14	**14**	**5**	000-255	**RED 2** 0%→100%
	15	**15**	**6**	000-255	**GREEN 2** 0%→100%
	16	**16**	**7**	000-255	**BLUE 2** 0%→100%
	17	**17**	**8**	000-255	**WHITE 2** 0%→100%
	18	**18**	**9**	000-255	**RED 3** 0%→100%
	19	**19**	**10**	000-255	**GREEN 3** 0%→100%

	20	20	11	000-255	**BLUE 3** 0%→100%
	21	21	12	000-255	**WHITE 3** 0%→100%
		22	13	000-255	**RED 4** 0%→100%
		23	14	000-255	**GREEN 4** 0%→100%
		24	15	000-255	**BLUE 4** 0%→100%
		25	16	000-255	**WHITE 4** 0%→100%
		26	17	000-255	**RED 5** 0%→100%
		27	18	000-255	**GREEN 5** 0%→100%
		28	19	000-255	**BLUE 5** 0%→100%
		29	20	000-255	**WHITE 5** 0%→100%
		30	21	000-255	**RED 6** 0%→100%
		31	22	000-255	**GREEN 6** 0%→100%
		32	23	000-255	**BLUE 6** 0%→100%
		33	24	000-255	**WHITE 6** 0%→100%
		34	25	000-255	**RED 7** 0%→100%
		35	26	000-255	**GREEN 7** 0%→100%
		36	27	000-255	**BLUE 7** 0%→100%
		37	28	000-255	**WHITE 7** 0%→100%
		38	29	000-255	**RED 8** 0%→100%
		39	30	000-255	**GREEN 8** 0%→100%
		40	31	000-255	**BLUE 8** 0%→100%
		41	32	000-255	**WHITE 8** 0%→100%

		42	33	000-255	RED 9 0%→100%
		43	34	000-255	GREEN 9 0%→100%
		44	35	000-255	BLUE 9 0%→100%
		45	36	000-255	WHITE 9 0%→100%
		46	37	000-255	RED 10 0%→100%
		47	38	000-255	GREEN 10 0%→100%
		48	39	000-255	BLUE 10 0%→100%
		49	40	000-255	WHITE 10 0%→100%
		50	41	000-255	RED 11 0%→100%
		51	42	000-255	GREEN 11 0%→100%
		52	43	000-255	BLUE 11 0%→100%
		53	44	000-255	WHITE 11 0%→100%
		54	45	000-255	RED 12 0%→100%
		55	46	000-255	GREEN 12 0%→100%
		56	47	000-255	BLUE 12 0%→100%
		57	48	000-255	WHITE 12 0%→100%
		58	49	000-255	RED 13 0%→100%
		59	50	000-255	GREEN 13 0%→100%
		60	51	000-255	BLUE 13 0%→100%
		61	52	000-255	WHITE 13 0%→100%
		62	53	000-255	RED 14 0%→100%
		63	54	000-255	GREEN 14 0%→100%

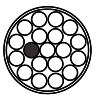
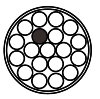
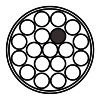
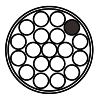
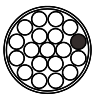
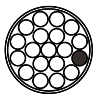
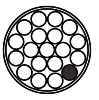
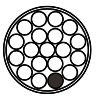
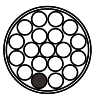
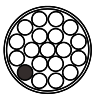
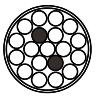
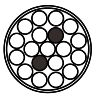
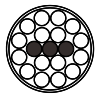
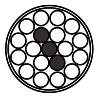
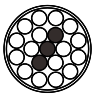
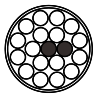
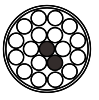
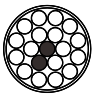
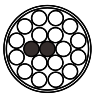
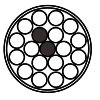
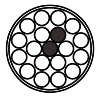
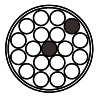
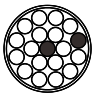
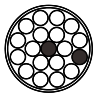
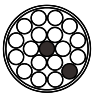
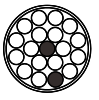
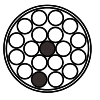
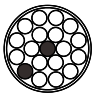
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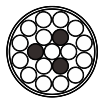
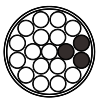
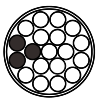
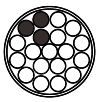
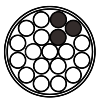
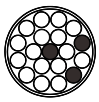
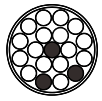
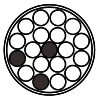
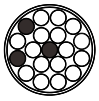
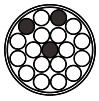
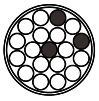
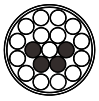
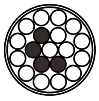
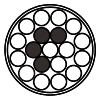
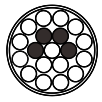
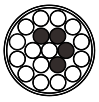
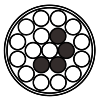
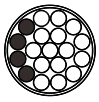
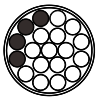
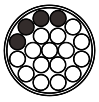
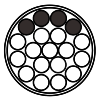
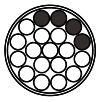
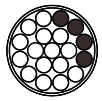
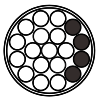
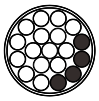
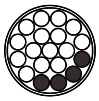
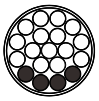
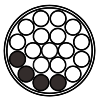
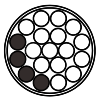
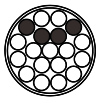
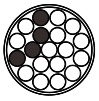
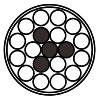
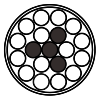
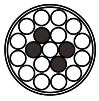
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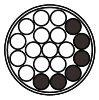
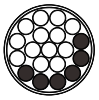
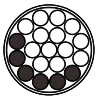
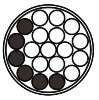
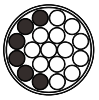
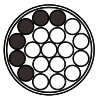
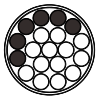
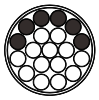
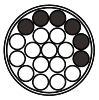
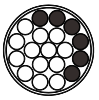
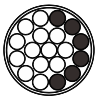
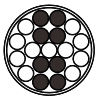
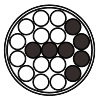
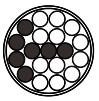
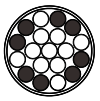
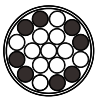
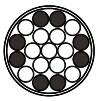
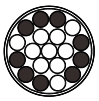
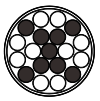
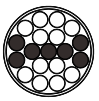
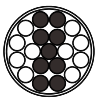
				208-211	3400K
				212-216	3300K
				217-220	3200K
				221-225	3100K
				226-229	3000K
				230-234	2900K
				235-238	2800K
				239-243	2700K
				244-247	2600K
				248-255	2500K
15					COLOR MACRO
				000-007	Null
				008-011	Color 1
				012-015	Color 2
				016-019	Color 3
				020-023	Color 4
				024-027	Color 5
				028-031	Color 6
				032-035	Color 7
				036-039	Color 8
				040-043	Color 9
				044-047	Color 10
				048-051	Color 11
				052-055	Color 12
				056-059	Color 13
				060-063	Color 14
				064-067	Color 15
				068-071	Color 16
				072-075	Color 17
				076-079	Color 18
				080-083	Color 19
				084-087	Color 20
				088-091	Color 21
				092-095	Color 22
				096-099	Color 23
				100-103	Color 24
				104-107	Color 25
				108-111	Color 26
				112-115	Color 27
				116-119	Color 28
				120-123	Color 29
				124-127	Color 30
				128-131	Color 31
				132-135	Color 32
				136-165	Rotate CW Fast to Slow
				166-195	Rotate CCW Slow to Fast
				196-205	Red→Green

				206-215 216-225 226-235 236-245 246-255	Red→Blue Red→White Green→Blue Green→White Blue→White
16					**PIXEL (See “Pixel of 16 CH” in detail)**
				000 001 002-245 246 247 248 249 250 251-255	Null Open Pattern1-244 Built-in Mode 1 Built-in Mode 2 Built-in Mode 3 One pixel lights up randomly Two pixels light up randomly Open
17					**PIXEL ROTATION**
				000-031 032-091 092-101 102-161 162-255	Null Rotate CW Fast to Slow Null Rotate CCW Slow to Fast Null

Pixel of 16 CH:

 Value : 000	 Value : 001	 Value : 002	 Value : 003	 Value : 004	 Value : 005	 Value : 006	 Value : 007
 Value : 008	 Value : 009	 Value : 010	 Value : 011	 Value : 012	 Value : 013	 Value : 014	 Value : 015
 Value : 016	 Value : 017	 Value : 018	 Value : 019	 Value : 020	 Value : 021	 Value : 022	 Value : 023
 Value : 024	 Value : 025	 Value : 026	 Value : 027	 Value : 028	 Value : 029	 Value : 030	 Value : 031
 Value : 032	 Value : 033	 Value : 034	 Value : 035	 Value : 036	 Value : 037	 Value : 038	 Value : 039
Value : 040	Value : 041	Value : 042	Value : 043	Value : 044	Value : 045	Value : 046	Value : 047
Value : 048	Value : 049	Value : 050	Value : 051	Value : 052	Value : 053	Value : 054	Value : 055
Value : 056	Value : 057	Value : 058	Value : 059	Value : 060	Value : 061	Value : 062	Value : 063
Value : 064	Value : 065	Value : 066	Value : 067	Value : 068	Value : 069	Value : 070	Value : 071
Value : 072	Value : 073	Value : 074	Value : 075	Value : 076	Value : 077	Value : 078	Value : 079
Value : 080	Value : 081	Value : 082	Value : 083	Value : 084	Value : 085	Value : 086	Value : 087

 Value : 088	 Value : 089	 Value : 090	 Value : 091	 Value : 092	 Value : 093	 Value : 094	 Value : 095
 Value : 096	 Value : 097	 Value : 098	 Value : 099	 Value : 100	 Value : 101	 Value : 102	 Value : 103
 Value : 104	 Value : 105	 Value : 106	 Value : 107	 Value : 108	 Value : 109	 Value : 110	 Value : 111
 Value : 112	 Value : 113	 Value : 114	 Value : 115	 Value : 116	 Value : 117	 Value : 118	 Value : 119
 Value : 120	 Value : 121	 Value : 122	 Value : 123	 Value : 124	 Value : 125	 Value : 126	 Value : 127
Value : 128	Value : 129	Value : 130	Value : 131	Value : 132	Value : 133	Value : 134	Value : 135
Value : 136	Value : 137	Value : 138	Value : 139	Value : 140	Value : 141	Value : 142	Value : 143
Value : 144	Value : 145	Value : 146	Value : 147	Value : 148	Value : 149	Value : 150	Value : 151
Value : 152	Value : 153	Value : 154	Value : 155	Value : 156	Value : 157	Value : 158	Value : 159
Value : 160	Value : 161	Value : 162	Value : 163	Value : 164	Value : 165	Value : 166	Value : 167
Value : 168	Value : 169	Value : 170	Value : 171	Value : 172	Value : 173	Value : 174	Value : 175

 Value : 176	 Value : 177	 Value : 178	 Value : 179	 Value : 180	 Value : 181	 Value : 182	 Value : 183
 Value : 184	 Value : 185	 Value : 186	 Value : 187	 Value : 188	 Value : 189	 Value : 190	 Value : 191
 Value : 192	 Value : 193	 Value : 194	 Value : 195	 Value : 196	 Value : 197	 Value : 198	 Value : 199
 Value : 200	 Value : 201	 Value : 202	 Value : 203	 Value : 204	 Value : 205	 Value : 206	 Value : 207
 Value : 208	 Value : 209	 Value : 210	 Value : 211	 Value : 212	 Value : 213	 Value : 214	 Value : 215
Value : 216	Value : 217	Value : 218	Value : 219	Value : 220	Value : 221	Value : 222	Value : 223
Value : 224	Value : 225	Value : 226	Value : 227	Value : 228	Value : 229	Value : 230	Value : 231
Value : 232	Value : 233	Value : 234	Value : 235	Value : 236	Value : 237	Value : 238	Value : 239
Value : 240	Value : 241	Value : 242	Value : 243	Value : 244	Value : 245		
Value : 246			Value : 247				
Value : 248			Value : 249 Randomly	Value : 250 Randomly	Value : 251-255		

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/E/F/G 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.

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.

LED Temp. 1/2/3 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℃, it will automatically turn off to protect the fixture.

Base Fan 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.

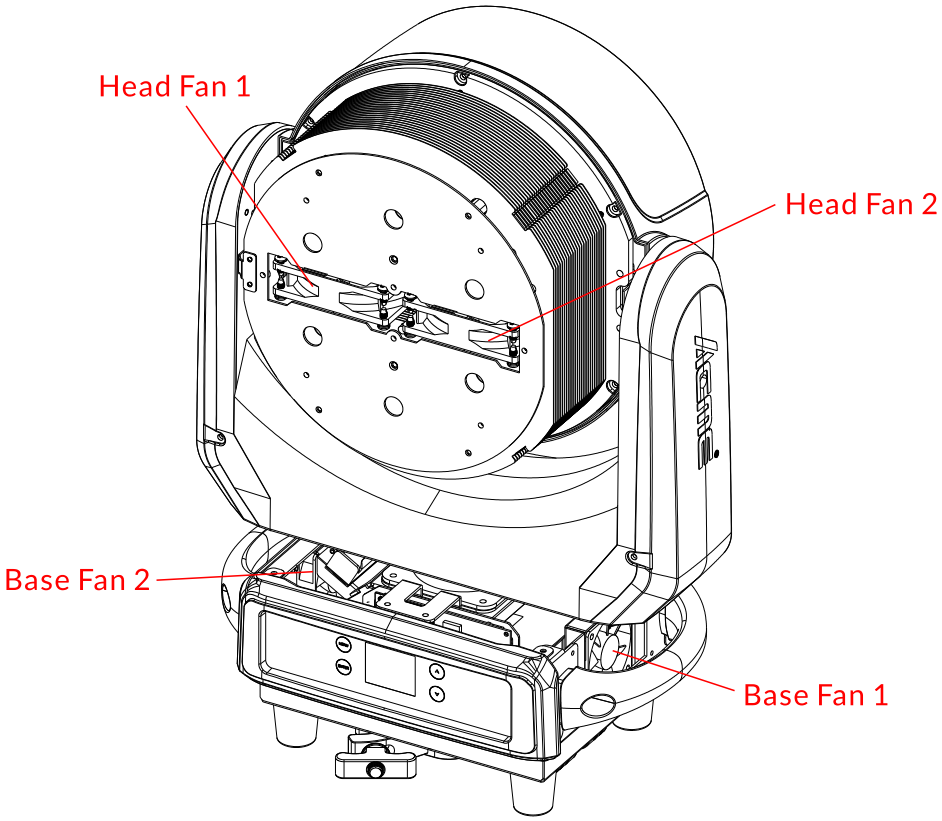
Head Fan 1/2 Start Err

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.

Color Cal IC Error

Check if the color calibration IC is damaged.
Check whether the color calibration IC board is inserted well and whether the electronic components are well soldered.
Check if the motherboard is malfunctioning.
Check whether the R76 bit resistors and other components on the motherboard are well soldered.

Position of cooling fans:



Cooling Fans	Part Number	V	W	Position
Head Fan 1	3014001310	DC 24V	3.8W	Head - C
Head Fan 2				
Base Fan 1	3014001330	DC 24V	4W	Base - A
Base Fan 2				

09/ 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	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.

10/ 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.

11/ 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)



The information in this document is subject to change without notice.

For the latest information, visit www.acmelighting.com.