

Acme®

PULSAR PLUS S2



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

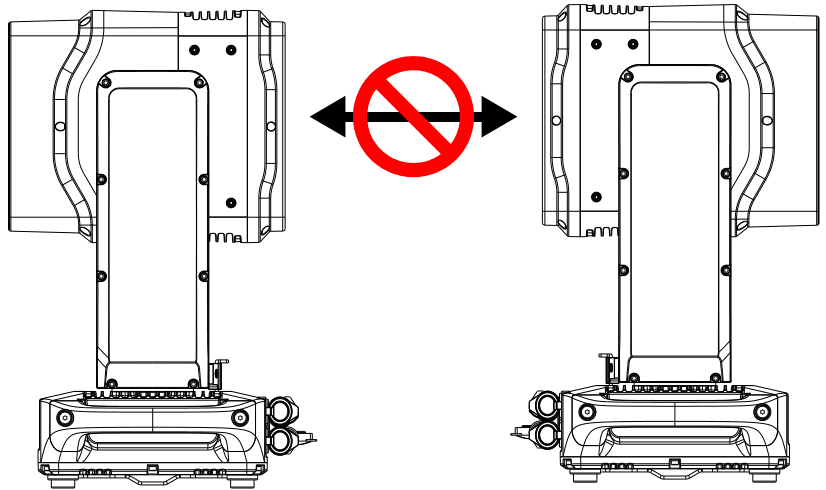
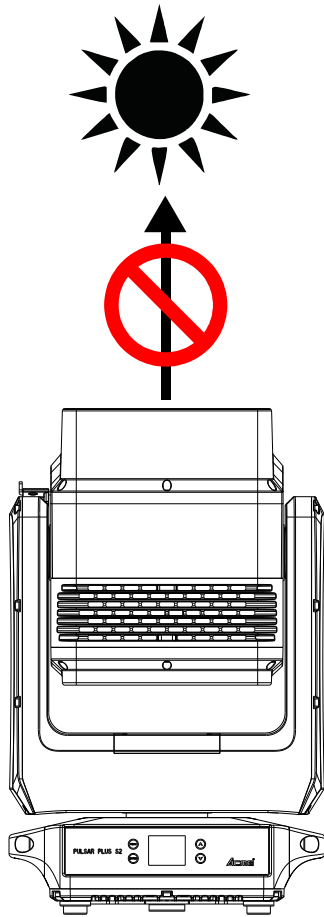
Please keep this User Manual for future consultation. If you sell the unit to another user, be sure that they also receive this instruction manual.

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 the head only.
- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces.
- Be sure that no ventilation holes are blocked, otherwise the unit could over heat.
- Before operation, ensure that you are connecting this product to the proper voltage in accordance with the specifications in this manual or on the product's specification label.
- It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
- Minimum ambient temperature TA: -20°C. Maximum ambient temperature TA: 45°C. Do not operate this product at a lower or higher temperature.
- DO NOT connect the device to any dimmer pack.
- Keep flammable materials away from the fixture while operating to avoid fire hazard.
- Make sure the power cord is not crimped or damaged; replace it immediately if damaged.
- Unit's surface temperature may reach up to 70°C. DO NOT touch the housing bare-handed during its operation.

- Avoid any flammable liquids, water or metal from entering the unit. If 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 wiring 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.
- In the event of an operating problem, stop using the unit immediately.
- Never turn the unit off and on repeatedly.
- 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 or suitable road case 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.
- 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.
- Température ambiante minimale (TA): -20°C. Température ambiante maximale (TA): 45°C. 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.

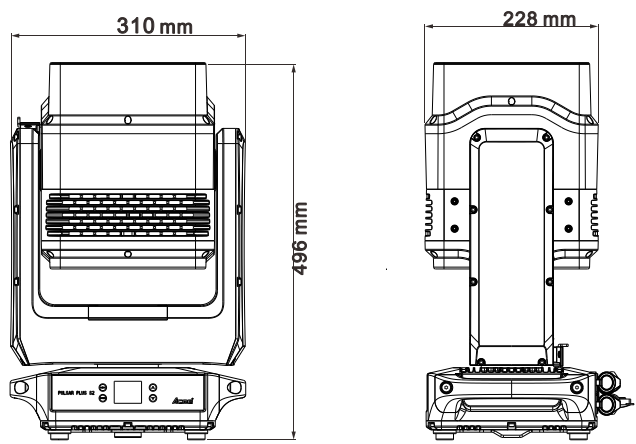
- Vérifier que le cordon d'alimentation n'est ni écrasé ni endommagé; le remplacer immédiatement s'il est endommagé.
- La température de surface de l'appareil peut atteindre jusqu'à 70°C. NE PAS toucher le boîtier à mains nues pendant son fonctionnement.
- Évitez que des liquides inflammables, de l'eau 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.
- 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.

- 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.

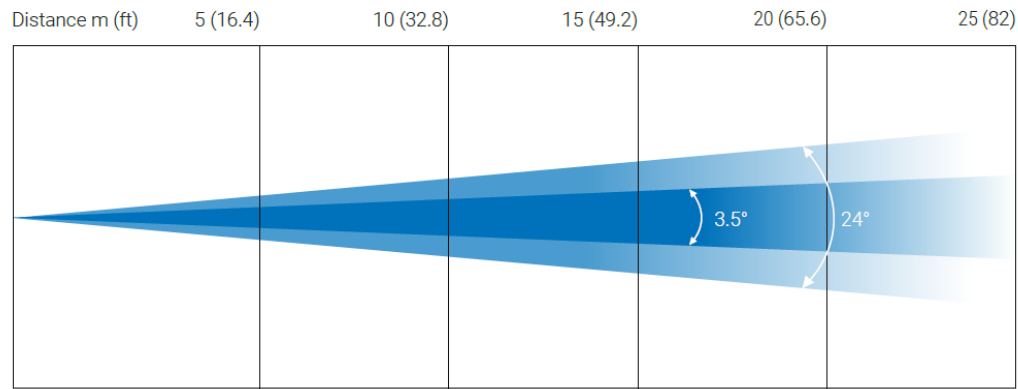
02/ Technical Specifications

AC Power	100-240Vac; 50/60Hz	
Max. Power Consumption	1200W	
Light Source	Beam Section	4x150W RGBL LEDs
	Strobe Section	160x3W CW LEDs
		192 x 0.5W RGB LEDs
	10W Beam Section	16 x10W CW LEDs
Beam Angle	3.5°-24°	
Field Angle	5°-30°	
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	43/195/153/27+168/163
	Protocols	DMX512
		RDM
		Art-Net
		sACN
	Firmware Update	via DMX
Construction	Display	LCD display
	DMX and RDM Data In/Out	3-pin XLR (optional with 5-pin XLR)
		RJ45 Connectors
	Power In/Out	Power Connector in/out
Dynamic Effects	Protection Rating	IP66 (Warning: Do not immerse the vent valve in water.)
	0-100% continuous dimming and strobe effects	
	Choice of four dimming curves	
	DMX Controllable Smart Glass technology for Pixel and 10W Beam Sections	
	Motorized linear zoom system	
	Built-in macro effects	
	Wash Section: 4 x 150W RGBL LEDs with individual control	
	Strobe Section: 160 x 3W CW LED zones with individual control 192 x 0.5W RGB LED zones with individual control	

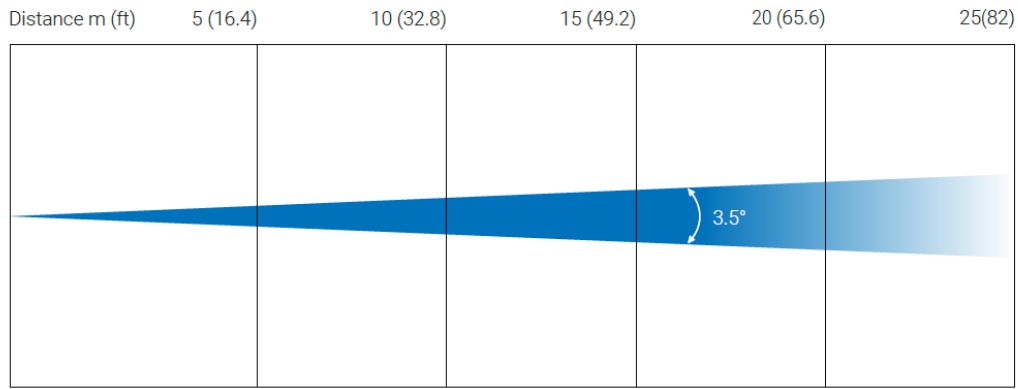
Dimensions	310x228x496mm	12.20" × 8.98" × 19.53"
Weight	20.5KG	45.2 lbs



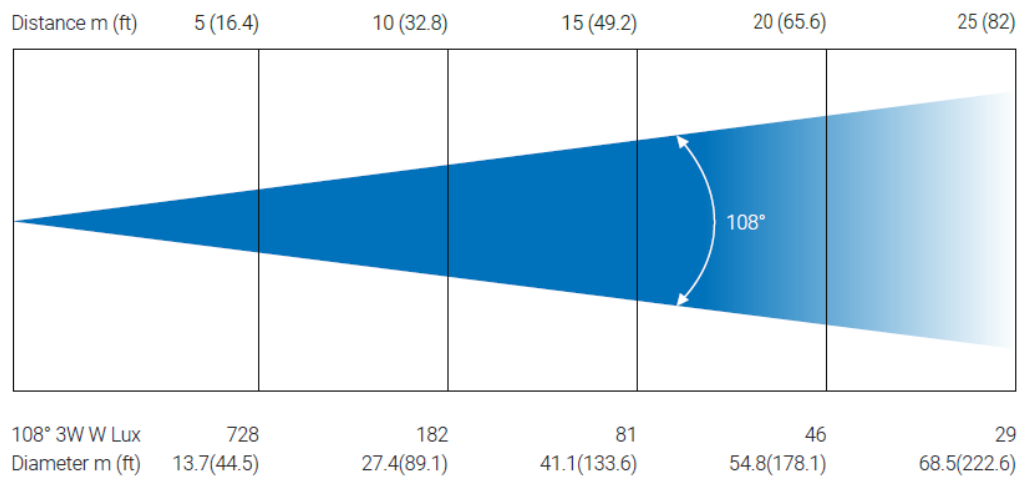
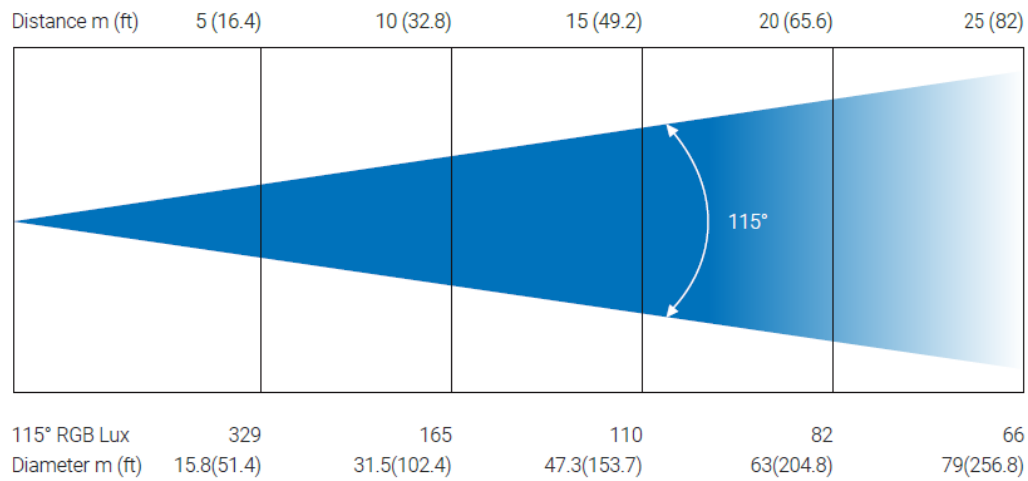
Photometric Diagram (Beam Angle):



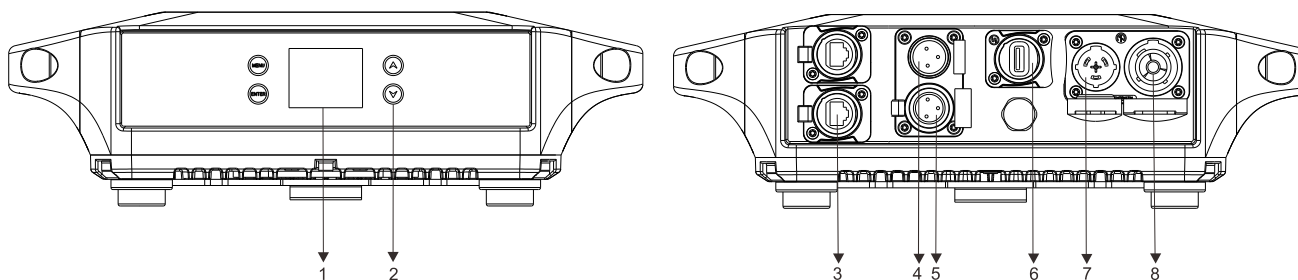
3.5° RGBL Lux	80,800	20,200	8,978	5,050	3,232
Diameter m (ft)	0.6(2)	1.2(3.9)	1.8 (5.9)	2.4 (7.8)	3(9.8)
24°RGBL Lux	3,768	942	419	236	151
Diameter m (ft)	2.6(8.5)	5.2 (16.9)	7.8 (25.4)	10.5 (34.1)	13.1 (42.6)



3.5° 10W CW Lux	31,720	7,930	3,524	1,982	1,268
Diameter m (ft)	0.6(2)	1.1(3.6)	1.7 (5.5)	2.2 (7.2)	2.8(9.1)

Photometric Diagram (Field Angle):

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 or move up in the menu
	▼ DOWN	To go forward or move down in the menu
	ENTER	To perform the desired functions
3. ETHERNET	For use with sACN or Art-Net controls	
4. 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)	
5. DMX OUT	For DMX512 link, use 3-pin XLR cable to link the next units to output DMX signal (optional with 5-pin XLR)	
6. FIRMWARE UPGRADE	Updating Software	
7. POWER IN	To connect to supply power	
8. POWER OUT	To connect to the next fixture	

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 1200W.

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	$\perp$ or 	ground (earth)

Power cord set should be used: Listed SJT flexible cord with rating: 300V, 105°C, 16AWGx3C, molded with 5-20P attachment plug and terminated with cord connector model SAC3FX with rating 250V, 16A by NINGBO SEETRONIC ELECTRONIC TECHNOLOGY CO., LTD. The power cord shall be at least 914mm (It is to be measured from the face of the attachment plug to the face of connector).

CAUTION!

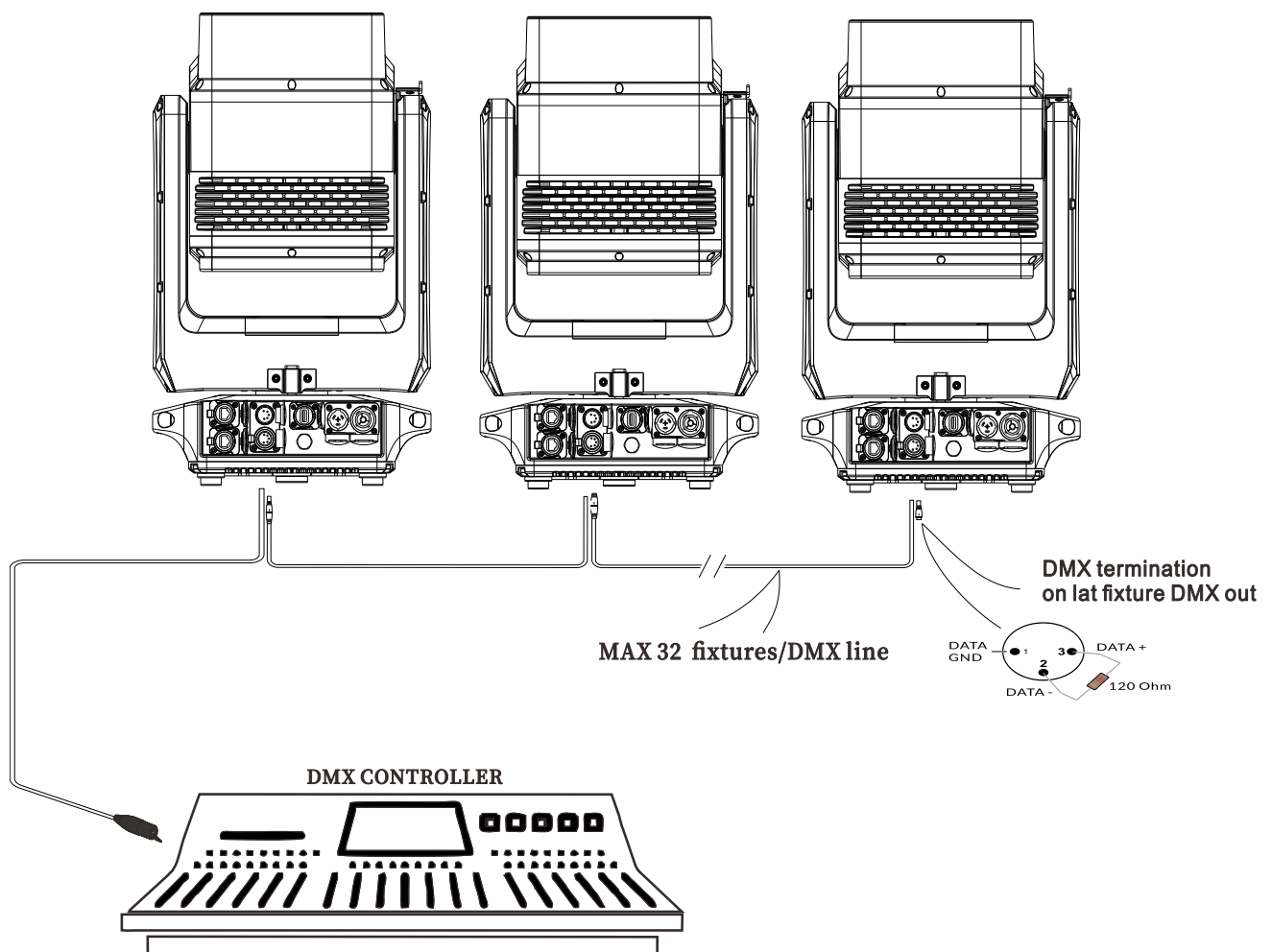
DO NOT CONNECT THE FIXTURE TO AN ELECTRICAL DIMMER SYSTEM AS DOING SO MAY CAUSE DAMAG

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.

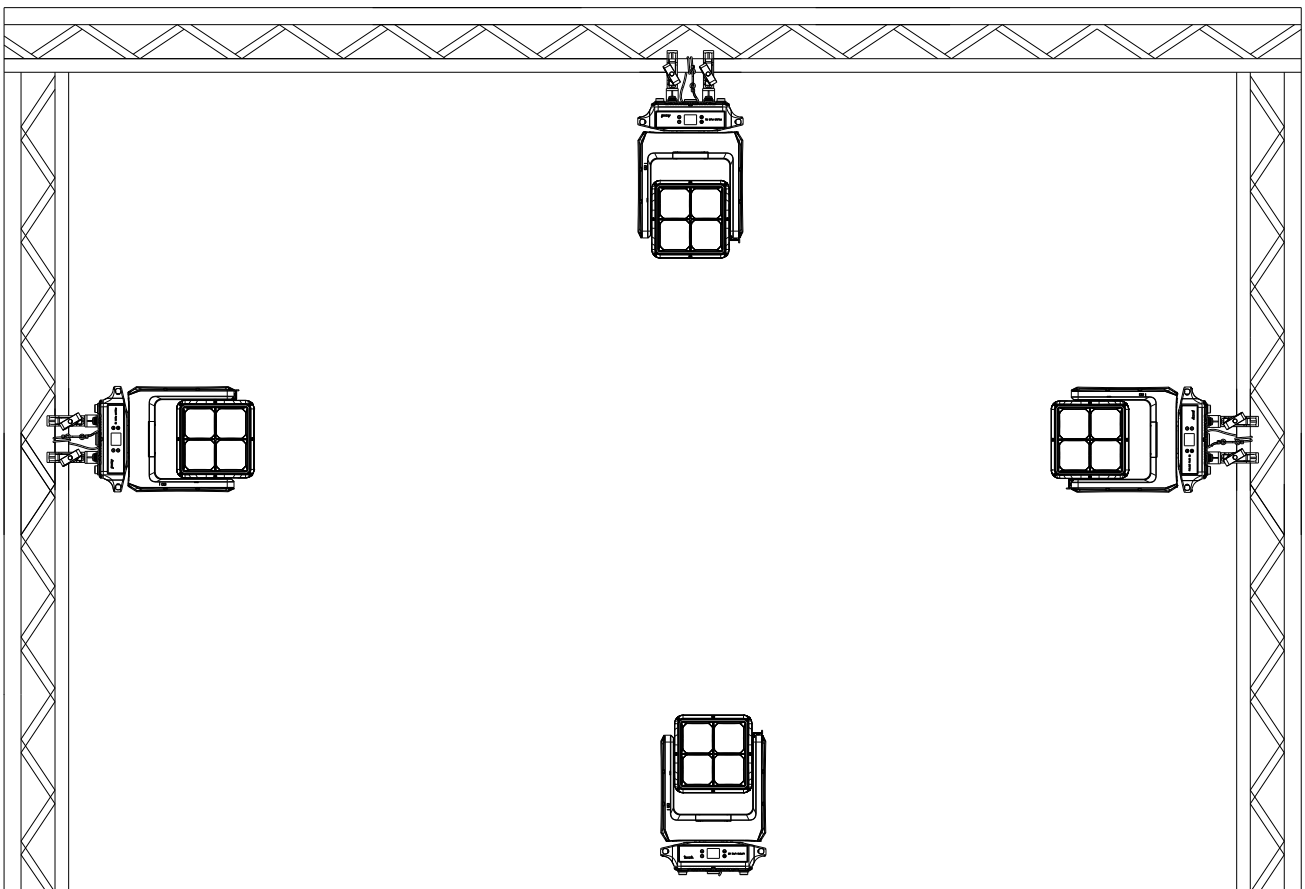
Building a serial DMX chain:

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.

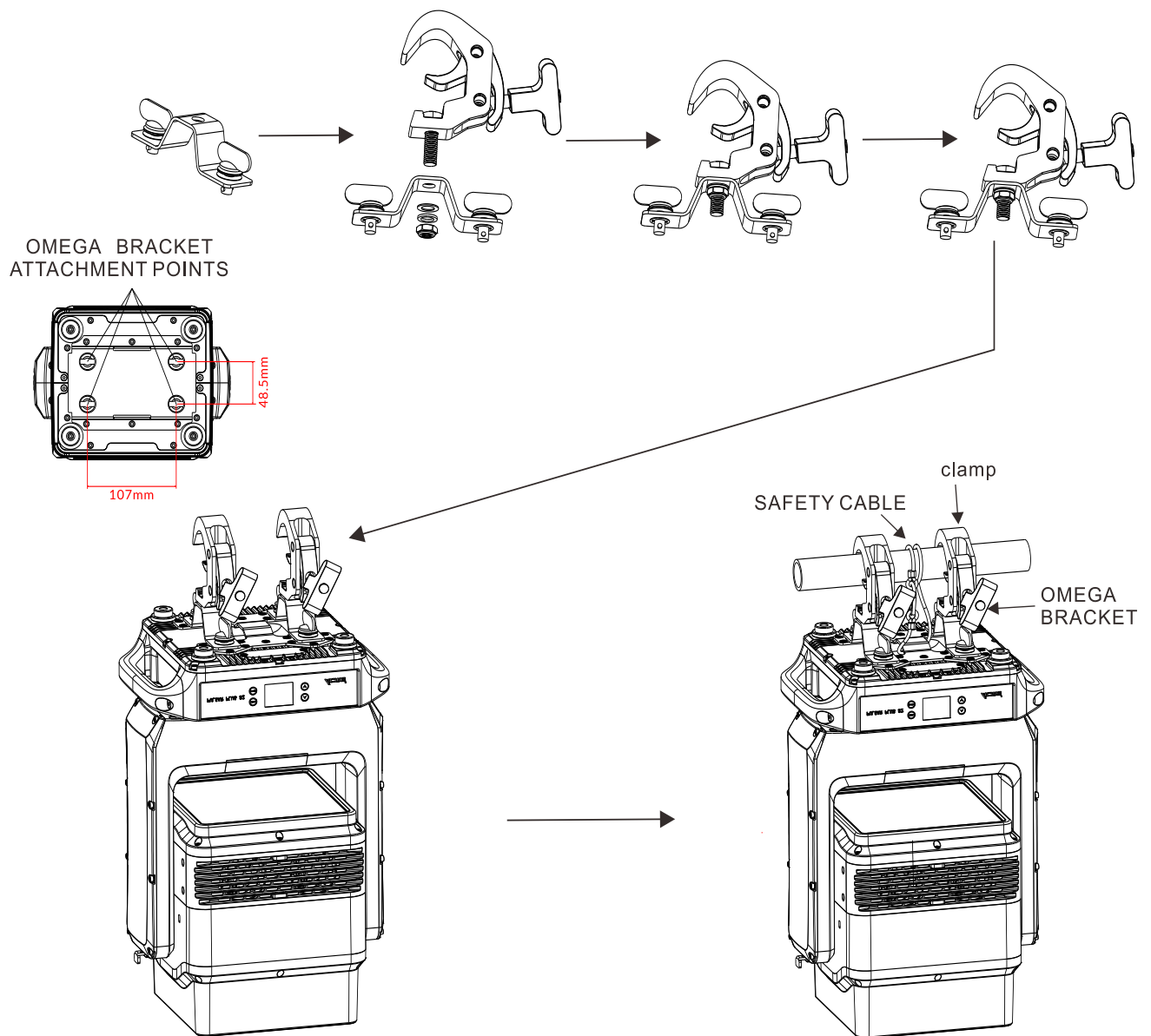


05/ Fixture Installation

- ▶ DO install and operate by qualified operator. Fixture(s) should be installed in areas outside walking paths, seating areas, or away from areas where unauthorized personnel might reach the fixture by hand. NEVER stand directly below the fixture(s) when rigging, removing or servicing.
- ▶ Always ensure that the unit is firmly fixed to avoid vibration and slipping off during operation. Ensure that the trussing or area of installation must be able to hold 10 times the weight without any deformation. Always attach a safety cable (made of steel, min. diameter 2.0mm) 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 truss, or base positioned on 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.



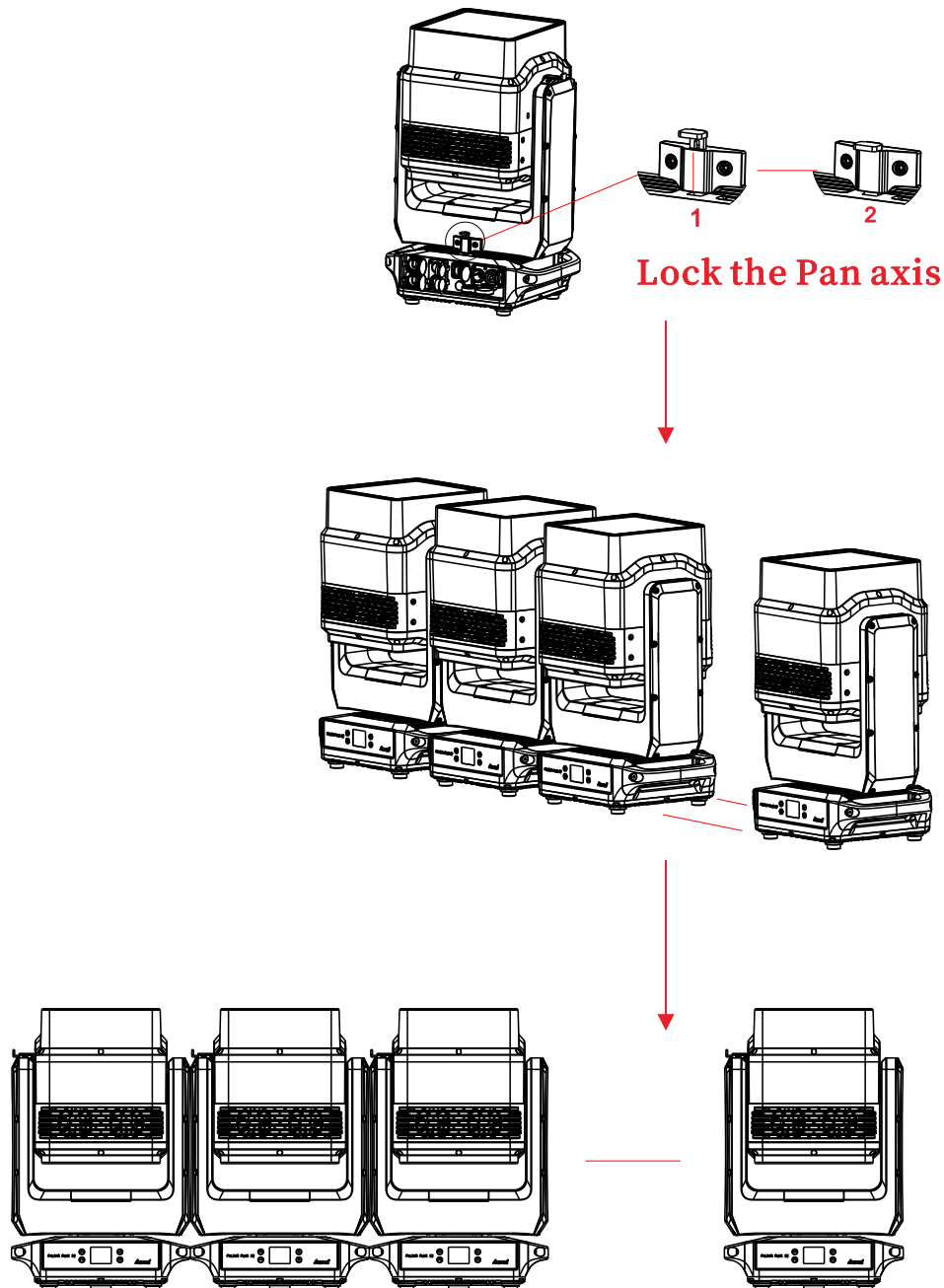
Steps for installing omega brackets to the fixture:



Steps for Multi-Fixture in a line Installation & Pan Axis Locking/Disabling:

Note: Mechanically lock the Pan axis first, then disable its function with the following steps:

Main Menu > Fixture Settings> Pan Disable>Enable



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	1-512	(Default=1)		
		Address A	1-512	(Default=1)	
		Address B	1-512	(Default=1)	
	DMX Channel Mode	Mode 1 (43)			
		Mode 2 (195)			
		Mode 3 (153)			
		Mode 4 (27+)			
		Mode 5 (163)			
	No DMX Status	Blackout			
		Hold			
		Manual			
	View DMX Value				
	Connect Option	Auto			
		DMX			
		Art-Net			
		sACN			
	Network	IP Address	Default 1		
			Default 2		
			Manual		
		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)	
		Net	0-127	(Default=0)	
		Sub-Net	0-15	(Default=0)	

MAIN MENU	SUBMENU	CHOICES/VALUES		
		Universe A	0-15	(Default=0)
		Universe B	0-15	(Default=0)
	sACN Settings	Universe	1-32000	(Default=1)
		Priority	0-200	(Default=100)
	Network To DMX	No		
		Yes		
Fixture Settings	Pan Invert	No		
		Yes		
	Tilt Invert	No		
		Yes		
	P/T Feedback	No		
		Yes		
	Zoom Invert	No		
		Yes		
	Dimmer Curve	Linear		
		Square Law		
		Inv SQ Law		
		S Curve		
	Dimmer Speed	Fast		
		Smooth		
	White Balance	Wash Red	125-255	Password=50
		Wash Green	125-255	
		Wash Blue	125-255	
		Wash Red 1	125-255	
		Wash Green 1	125-255	
		Wash Blue 1	125-255	
		Wash Red 2	125-255	
		Wash Green 2	125-255	
		Wash Blue 2	125-255	
				
		Wash Red 8	125-255	
		Wash Green 8	125-255	
		Wash Blue 8	125-255	
	Refresh Rate	900Hz		
		1000Hz		
		1100Hz		
		1200Hz		
		1300Hz		
		1400Hz		

MAIN MENU	SUBMENU	CHOICES/VALUES			
		1500Hz			
		2500Hz			
		4000Hz			
		5000Hz			
		6000Hz			
		10KHz			
		15KHz			
		20KHz			
		25KHz			
	Fan Mode	Auto			
		Quiet			
		Super Quiet			
	Invert Pixel order	No			
		Yes			
	Line Power Mode	Off			
		On			
	Sun Protection Mode	On			
		Off			
	Dimmer Start Mode	High			
		Low			
	CCT Calibration	On			
		Off			
	Pan Disable	Disable			
		Enable			
	Defog	Off			
		Upright			
		Side Hang			
		Inverted Hang			
Display Settings	Display Invert	No			
		Yes			
	Backlight Intensity	1-10			
	Temperature Unit	°C			
		°F			
	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

MAIN MENU	SUBMENU	CHOICES/VALUES			
		Tilt	0-255	Tilt	0-255
		Pan Infinity	0-255	Pan Infinity	0-255
		Tilt Infinity	0-255	Tilt Infinity	0-255
		Zoom	0-255	Zoom	0-255
		Frost	0-255	Frost	0-255
		Effect	0-255	Effect	0-255
		Wash Dimmer	0-255	Wash Dimmer	0-255
		Wash Strobe	0-255	Wash Strobe	0-255
		Beam Dimmer	0-255	Beam Dimmer	0-255
		Beam Strobe	0-255	Beam Strobe	0-255
		Zone Dimmer	0-255	Zone Dimmer	0-255
		Zone Strobe	0-255	Zone Strobe	0-255
		Line Dimmer	0-255	Line Dimmer	0-255
		Line Strobe	0-255	Line Strobe	0-255
		Wash Red	0-255	Wash Red 1	0-255
		Wash Green	0-255	Wash Green 1	0-255
		Wash Blue	0-255	Wash Blue 1	0-255
		Wash Lime	0-255	Wash Lime 1	0-255
		Cross Fade	0-255	.....	0-255
		Wash CTO	0-255	Wash Red 4	0-255
		Wash Color Macro	0-255	Wash Green 4	0-255
		Beam CW	0-255	Wash Blue 4	0-255
		Beam Macro	0-255	Wash Lime 4	0-255
		Beam Macro Speed	0-255	Cross Fade	0-255
		Zone Red	0-255	Wash CTO	0-255
		Zone Green	0-255	Wash Color Macro	0-255
		Zone Blue	0-255	Beam CW 1	0-255
		Zone Color Macro	0-255	Beam CW 2	0-255
		Zone Macro	0-255	.....	0-255
		Zone Macro Speed	0-255	Beam CW 15	0-255

MAIN MENU	SUBMENU	CHOICES/VALUES			
		Line CW	0-255	Beam CW 16	0-255
		Line Macro	0-255	Zone Red 1	0-255
		Line Macro Speed	0-255	Zone Green 1	0-255
				Zone Blue 1	0-255
				.....	0-255
				Zone Red 16	0-255
				Zone Green 16	0-255
				Zone Blue 16	0-255
				Line CW 1	0-255
				Line CW 2	0-255
				... ..	0-255
				Line CW 39	0-255
				Line CW 40	0-255
Fixture Information	Use Hour	Fixture			
		Light Source	Total		
			Light On		
			Reset	Password=050	
	Temperature	Light Source		Current	Max temp
			Light Source 1		
			Light Source 2		
			Light Source 3		
			Light Source 4		
			Light Source 5		
			Light Source 6		
		Base	Base		
			Fan		
		Fan State	B_A_FAN 1		
	B_A_FAN 2				
	H_C_FAN 1				
	H_C_FAN 2				
	H_D_FAN 1				
	H_D_FAN 2				
	Firmware Version				
	RDM UID				
	Error Logs	Fixture Errors			
		Reset Error Log	No		
			Yes	Password=050	
Reset Function	Pan/Tilt Reset	No			
		Yes			

MAIN MENU	SUBMENU	CHOICES/VALUES
	Effect Reset	No
		Yes
	All Reset	No
		Yes
Special Function	USB Upgrade	No
		Yes
	Send Upgrade	No
		Yes
	Firmware Restore	No
		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.

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 (43)**, **Mode 2 (195)**, **Mode 3 (153)**, **Mode 4 (27+168)** and **Mode 5(163)** confirm your selection with ENTER.

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

CHANNEL MODE	DMX ADDRESS
Mode 1 (43)	1-470
Mode 2 (195)	1-318
Mode 3 (153)	1-360
Mode 4 (27+168)	1-318
Mode 5 (163)	1-350

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**, **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**, **Universe A** or **Universe B**, 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**, **Zoom Invert**, **Dimmer Curve**, **Dimmer Speed**, **White Balance**, **Refresh Rate**, **Fan Mode**, **Invert Pixel Order**, **Line Power Mode**, **Sun Protection Mode**, **Dimmer start Mode**, **CCT Calibration**, **Pan Disable** or **Defog**.

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.

Zoom Invert

Select **Zoom Invert**, press ENTER.

Use UP/DOWN button to select **No** (Zoom deactivated) or **Yes** (Zoom activated), confirm your selection with ENTER.

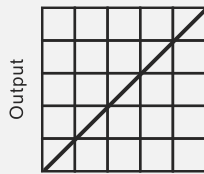
To exit the menu, press MENU, or wait 30 seconds.

Dimmer Curve

Select **Dimmer Curve**, press ENTER.

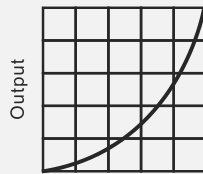
Use UP/DOWN button to select **Linear**, **Square Law**, **Inv SQ Law** or **S Curve**, confirm your selection with ENTER.

Dimmer Modes



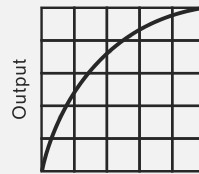
DMX %

Optically Linear



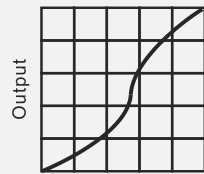
DMX %

Square Law



DMX %

Inverse Square Law



DMX %

S-curve

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.

White Balance

Select **White Balance**, press ENTER.

Use UP/DOWN button to select **Wash Red**, **Wash Green**, **Wash Blue**, **Red 1**, **Green 1**, **Blue 1.....** or **Wash Red 8**, **Wash Green 8**, **Wash Blue 8**, 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.

Refresh Rate

Select **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.

Fan Mode

Select **Fan Mode**, press ENTER.

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

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

Invert Pixel Order

Select **Invert Pixel Order**, 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.

Line Power Mode

Select **Line Power 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.

Sun Protection Mode

Set the **Sun Protection Mode** to “On” when using the fixture outdoors.):

Select Sun Protection Mode, press ENTER.

Use UP/DOWN button to select **Off** (sun protection mode deactivated) or **On** (The fixture will turn off the light source and automatically turn its head to a horizontal position when no signal is detected, preventing damage to optical components or internal parts from prolonged direct sunlight exposure.), confirm your selection with ENTER.

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

Dimmer Start Mode

Select **Dimmer Start Mode**, press ENTER.

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

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

CCT Calibration

Select **CCT Calibration**, press ENTER.

Use UP/DOWN button to select **Off** and **On**, confirm your selection with ENTER.

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

Pan Disable

Select **Pan Disable**, press ENTER.

Use UP/DOWN button to select **Disable** and **Enable**, confirm your selection with ENTER.

Added multi fixture in a line installation mode, for this mode, mechanically lock the Pan axis first, then disable its function with the following steps: Main Menu > Fixture Settings> Pan Disable>Enable, select Pan Disable and press ENTER to confirm; With the Pan-axis locked and disabled, multiple PULSAR PLUS S2 fixtures can be closely aligned. This prevents collision and displacement caused by Pan-axis mechanical movement, ensuring fixture structural stability, maintaining consistent horizontal positioning of fixtures, and achieving synchronized light array effects via linkage control.

Press MENU to return to the previous menu, or wait 30 seconds for automatic menu exit.

Defog

Function: The fixture is equipped with a built-in defog function to eliminate moisture on the lens surface.

OFF: Deactivates the running defog function. The defog fan returns to normal speed. Deactivate the defog function by selecting the command **“Defog Off”** (DMX 168-169) on the Special Function channel and holding the value for 3 seconds.

(Note: When the Defog function is on, the zoom function will be automatically locked and cannot be adjusted.)

The corresponding defogging function should be turned on when the lamp is installed at three different locations (standing on the floor, mounted sideways on truss, or hanging on truss).

If standing on the floor: use the UP/DOWN button to select: **Upright** (DMX170 - 171), press the ENTER button to save.

If it is mounted sideways on truss, use the UP/DOWN button to select: **Side Hang** (DMX172 - 173), press the ENTER button to save.

If hanging on truss: use the UP/DOWN button to select: **Inverted Hang** (DMX174 - 175), press the ENTER button to save.

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

Display Settings

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

Display Invert

Select **Display Invert**, press ENTER.

Use UP/DOWN button to select **No** (display normal) or **Yes** (display inverted), confirm your selection with ENTER.

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

Backlight Intensity

Select **Backlight Intensity**, press ENTER.

Use UP/DOWN button to select a value between **1 (dark)** and **10 (bright)**, confirm your selection with ENTER.

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

Temperature Unit

Select **Temperature Unit**, press ENTER.

Use UP/DOWN button to select °C or °F, confirm your selection with ENTER.

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

Language

Select **Language**, press ENTER.

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

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

Fixture Test

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

Auto Test

Select **Auto Test**, press ENTER.

The device immediately performs an automatic self-test.

To end the automatic self-test and exit the menu, press MENU.

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 **Use Hour, Temperature, Fan State, Firmware Version, RDM UID** or **Error Logs**.

Use Hour

Select **Use Hour**, use UP/DOWN button to select **Fixture** or **Light Source**, press ENTER.

Select **Light Source**, use UP/DOWN button to select **Total** (total time) or **Light On** (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 **Reset**, confirm your selection with ENTER.If you wish to reset the Light Source operating hours, 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 Light Source operating hours is reset.

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

The operating hours is displayed.

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

Temperature

Select **Temperature** , press ENTER.

Use UP/DOWN button to select **Light Source** or **Base Fan**, confirm your selection with ENTER.

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 other fixtures to upgrade their firmware, select Yes, confirm your selection with ENTER. Once selected, the display of this fixture will show "Sending Packet, Please Wait..." while the display of other 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.

6.2 Updating Software

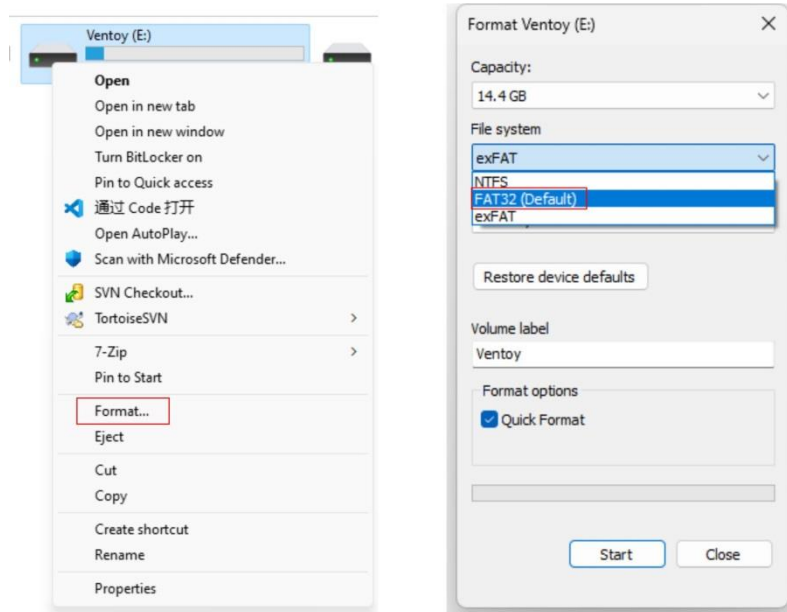
Only qualified technicians should perform this function! Note all menu settings before updating software! Please note, up to 32 fixtures can be connected together and updated at the same time.

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 (on this fixture):

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.

Updating Software (for other fixture models):

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. Connect the fixtures to be upgraded to this fixture using a DMX signal cable or Ethernet cable.

Note: For DMX cable connections, ensure “DMX” is selected as the signal source. For Ethernet cable connections, select “NET” as the signal source.

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

6. Locate **“Special Function”** within the system menu and press ENTER. Scroll to the **“USB Upgrade”** submenu and press ENTER.

7. Two software files will be displayed as downloaded earlier. Highlight the first file (V00) and press ENTER. Select **“Yes”** and then specify the signal source - **DMX** (send upgrade via DMX) or **NET** (send upgrade via Ethernet) to begin the first of two updating processes. Once selected, the display of this fixture will show **“Copying Files, Please Wait...”**. After copying is complete, the display of this fixture will show **“Sending Packet, Please Wait...”** while the display of other fixtures will show **“Upgrading, Please Wait...”**. A percentage bar will also be displayed.

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

9. Once the reset is complete, scroll to the **“Special Function”** menu again and press ENTER.

Scroll to the **“USB Upgrade”** submenu and press ENTER.

10. Highlight the second file (Vxx) this time and press ENTER. Select **“Yes”** and then specify the signal source again to begin the second and final updating process. Once selected, the display of this fixture will show **“Copying Files, Please Wait...”** again. After copying is complete, the display of this fixture will show **“Sending Packet, Please Wait...”** while the display of other fixtures will show **“Upgrading, Please Wait...”**. A percentage bar will also be displayed.

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

12. Remove the USB flash drive.

13. 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:

Standard RDM Parameter ID

PID	Parameter ID	Discovery command	SET command	GET command
0x0001	DISC_UNIQUE_BRANCH	✓		
0x0002	DISC_MUTE	✓		
0x0003	DISC_UN_MUTE	✓		
0x0030	STATUS_MESSAGES			✓
0x0031	STATUS_ID_DESCRIPTION			✓
0x0032	CLEAR_STATUS_ID		✓	
0x0050	SUPPORTED_PARAMETERS			✓
0x0051	PARAMETER_DESCRIPTION			✓
0x0060	DEVICE_INFO			✓
0x0080	DEVICE_MODEL_DESCRIPTION			✓
0x0081	MANUFACTURER_LABEL			✓
0x0082	DEVICE_LABEL		✓	✓
0x0090	FACTORY_DEFAULTS		✓	✓
0x00C0	SOFTWARE_VERSION_LABEL			✓
0x00C1	BOOT_SOFTWARE_VERSION_ID			✓
0x00C2	BOOT_SOFTWARE_VERSION_LABEL			✓
0x00E0	DMX_PERSONALITY		✓	✓

0x00E1	DMX_PERSONALITY_DESCRIPTION			✓
0x00F0	DMX_START_ADDRESS		✓	✓
0x0120	SLOT_INFO			✓
0x0121	SLOT_DESCRIPTION			✓
0x0200	SENSOR_DEFINITION			✓
0x0201	SENSOR_VALUE			✓
0x0202	RECORD_SENSORS		✓	
0x0343	CURVE		✓	✓
0x0344	CURVE_DESCRIPTION			✓
0x0347	MODULATION_FREQUENCY		✓	
0x0348	MODULATION_FREQUENCY_DESCRIPTION			✓
0x0400	DEVICE_HOURS			✓
0x0401	LAMP_HOURS			✓
0x0600	PAN_INVERT		✓	✓
0x0601	TILT_INVERT		✓	✓
0x1000	IDENTIFY_DEVICE		✓	✓
0x1001	RESET_DEVICE		✓	✓
0x1040	IDENTIFY_MODE		✓	

✓ -Command implemented for the respective parameter ID

Manufacturer-specific RDM Parameter ID

PID	Parameter ID	Discovery command	SET command	GET command	Note
0xA004	DMX_STATUS		✓	✓	0:Blackout 1:Hold 2:Manual
0xD004	DMX_STATUS_DIRECTION		✓	✓	
0xA007	INVERT_PIXEL_ORDER		✓	✓	0:No 1:Yes
0xA008	DIMMER_SPEED		✓	✓	0:Fast 1:Smooth
0xA010	FAN_MODE		✓	✓	0:Standard 1:Quiet 2:Super Quiet
0xA018	ERROR_LOG		✓	✓	
0xA020	OFFSET		✓	✓	
0xA021	PAN_TILT_FEEDBACK		✓	✓	0:No 1:Yes
0xA025	DIMMER_CURVE		✓	✓	1:Line 2:Sq 3:Inv Sq

					4:S
0xA026	DIMMER_FREQUENCY		✓	✓	FREQUENCT(1-15) 4:1200HZ
0xA028	CCT_CALIBRATION		✓	✓	0:Off 1:On
0xA029	SUN_PROTECTION_MODE		✓	✓	0:Off 1:On

6.3 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
Pan	-128~127
Tilt	-128~127
Zoom	-128~127
Effect	-128~127
Wash R	-128~127
Wash G	-128~127
Wash B	-128~127
Wash L	-128~127
Beam CW	-128~127
Zone R	-128~127
Zone G	-128~127
Zone B	-128~127
Line CW	-128~127
Wash R 1	-128~127
Wash G 1	-128~127
Wash B 1	-128~127

Wash L 1	-128~127
...	-128~127
Wash R 4	-128~127
Wash G 4	-128~127
Wash B 4	-128~127
Wash L 4	-128~127
Beam CW 1	-128~127
Beam CW 2	-128~127
Beam CW 3	-128~127
....	-128~127
Beam CW 14	-128~127
Beam CW 15	-128~127
Beam CW 16	-128~127
Zone R 1	-128~127
Zone G 1	-128~127
Zone B 1	-128~127
....	-128~127
Zone R 16	-128~127
Zone G 16	-128~127
Zone B 16	-128~127
Line CW 1	-128~127
Line CW 2	-128~127
Line CW 3	-128~127
.....	-128~127
Line CW 38	-128~127
Line CW 39	-128~127
Line CW 40	-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
10000Hz	9872~10127
15000Hz	14872~15127
20000Hz	19872~20127
25000Hz	24872~25127

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.

Effect

Select **Red**, 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.

Wash R

Select **Wash R**, 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.

Wash G

Select **Wash G**, 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.

Wash B

Select **Wash B**, 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.

Wash L

Select **Wash L**, 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.

Beam CW

Select **Beam CW**, 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.

Zone R

Select **Zone R**, 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.

Zone G

Select **Zone G**, 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.

Zone B

Select **Zone B**, 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.

Line CW

Select **Line CW**, 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.

Wash R 1

Select **Wash R 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.

Wash G 1

Select **Wash G 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.

Wash B1

Select **Wash B1**, 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.

Wash L1

Select **Wash L1**, 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.

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Wash R 4

Select **Wash R 4**, 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.

Wash G 4

Select **Wash G 4**, 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.

Zone Green

Select **Zone Green**, 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.

Wash B 4

Select **Wash B 4**, 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.

Wash L 4

Select **Wash L 4**, 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.

Beam CW 1

Select **Beam CW 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.

Beam CW 2

Select **Beam CW 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.

Beam CW 3

Select **Beam CW 3**, 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.

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Beam CW 14

Select **Beam CW 14**, 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.

Beam CW 15

Select **Beam CW 15**, 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.

Beam CW 16

Select **Beam CW 16**, 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.

Zone R 1

Select **Zone R 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.

Zone G 1

Select **Zone G 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.

Zone B 1

Select **Zone B1**, 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.

.....

Zone R16

Select **Zone R16**, 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.

Zone G16

Select **Zone G16**, 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.

Zone B16

Select **Zone B16**, 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.

Line CW 1

Select **Line CW 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.

Line CW 2

Select **Line CW 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.

Line CW 3

Select **Line CW 3**, 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.

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Line CW 38

Select **Line CW 38**, 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.

Line CW 39

Select **Line CW 39**, 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.

Line CW 40

Select **Line CW 40**, 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.

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 43 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 44. As the first fixture uses all the first 43 DMX channels, the next available channel is 44 ($43+1=44 >> 44$).

See the chart below for more details:

Channel Mode	Unit 1 Address	Unit 2 Address	Unit 3 Address	Unit 4 Address	Unit xxx Address
43channels	1	44	87	130	.....
195channels	1	196	391		
153channels	1	154	307	460	
27+168channels (Controlled by DMX)	1	196	391		
163channels	1	165	328	491	

7.2 DMX Protocol

Valid from firmware version: V1.4

43 CH(Mode 1) / 195 CH (Mode 2) / 153 CH (Mode 3)/ 27+168CH(Mode 4)/163CH (Mode5)

CHANNEL					VALUE	FUNCTION
43 CH	195 CH	153 CH	27+168 CH	163 CH		
1	1	1	1	1	000-255	PAN 0°→540°
2	2	2	2	2	000-255	PAN FINE
3	3	3	3	3	000-255	TILT 0°→450°
4	4	4	4	4	000-255	TILT FINE
5	5	5	5	5	000-127 128-189 190-193 194-255	PAN INFINITY Null Counter-Clockwise Rotation, Fast to Slow Stop Clockwise Rotation, Slow to Fast
6	6	6	6	6	000-127 128-189 190-193 194-255	TILT INFINITY Null Clockwise Rotation, Fast to Slow Stop Counter-Clockwise Rotation, Slow to Fast
7	7	7	7	7	000-255	PAN/TILT SPEED Fast to Slow
8	8	8	8	8	000-255	ZOOM Wide→Narrow
9	9	9	9	9	000-255	ZOOM FINE 0%→100%
10	10	10	10	10	000-255	FROST 0%→100%
11				11	000-007 008-022 023-037 038-052 053-067 068-082 083-097 098-112 113-127 128-147	EFFECT No Effect Effect 1 Square Effect 2 Square Effect 1 Shaking Square Effect 2 Shaking Square Effect 1 Cross Effect 2 Cross Effect 1 Shaking Cross Effect 2 Shaking Cross No Effect

CHANNEL					VALUE	FUNCTION
					148-167 168-187 188-221 222-255	Effect 1 Effect 2 Effect 1 Shaking Effect 2 Shaking
	11	11	11		000-147 148-167 168-187 188-221 222-255	EFFECT No Effect Effect1 Effect2 Effect 1 Shaking Effect 2 Shaking
12	12	12	12	12	000-255	Wash Dimmer 0%→100%
13	13	13	13	13	000-255	Wash Dimmer Fine 0%→100%
14	14	14	14	14	000-007 008-015 016-131 132-139 140-181 182-189 190-231 232-239 240-247 248-255	Wash Strobe Close Open Strobe Slow->Fast Open Fast Open Slow Close Open Fast Close Slow Open Open Random Strobe Slow >Fast Open
15	15	15	15	15	000-255	BEAM_DIMMER 0%→100%
16	16	16	16	16	000-255	Beam Dimmer Fine 0%→100%
17	17	17	17	17	000-007 008-015 016-131 132-139 140-181 182-189 190-231 232-239 240-247 248-255	Beam Strobe Close Open Strobe Slow->Fast Open Fast Open Slow Close Open Fast Close Slow Open Open Random Strobe Slow >Fast Open
18	18	18	18	18	000-255	ZONE DIMMER 0%→100%
19	19	19	19	19	000-255	Zone Dimmer Fine 0%→100%

CHANNEL					VALUE	FUNCTION
20	20	20	20	20	000-007 008-015 016-131 132-139 140-181 182-189 190-231 232-239 240-247 248-255	Zone Strobe Close Open Strobe Slow->Fast Open Fast Open Slow Close Open Fast Close Slow Open Open Random Strobe Slow >Fast Open
21	21	21	21	21	000-255	LINE DIMMER 0%→100%
22	22	22	22	22	000-255	Line Dimmer Fine 0%→100%
23	23	23	23	23	000-007 008-015 016-131 132-139 140-181 182-189 190-231 232-239 240-247 248-255	Line Strobe Close Open Strobe Slow->Fast Open Fast Open Slow Close Open Fast Close Slow Open Open Random Strobe Slow >Fast Open
29	89	89	24	57	000-255	Cross fade 0%→100%
30	90	90	25	58	001- 004 005- 009 010- 013 014- 018 019- 022 023- 027 028- 031 032- 036 037- 040 041- 045 046- 049 050- 054 055- 058 059- 063 064- 067 068- 072	Wash CTO 8000K 7900K 7800K 7700K 7600K 7500K 7400K 7300K 7200K 7100K 7000K 6900K 6800K 6700K 6600K 6500K

CHANNEL					VALUE	FUNCTION
					073- 076	6400K
					077- 081	6300K
					082- 085	6200K
					086- 090	6100K
					091- 094	6000K
					095- 099	5900K
					100- 103	5800K
					104- 108	5700K
					109- 112	5600K
					113- 117	5500K
					118- 121	5400K
					122- 126	5300K
					127- 130	5200K
					131- 135	5100K
					136- 139	5000K
					140- 144	4900K
					145- 148	4800K
					149- 153	4700K
					154- 157	4600K
					158- 162	4500K
					163- 166	4400K
					167- 171	4300K
					172- 175	4200K
					176- 180	4100K
					181- 184	4000K
					185- 189	3900K
					190- 193	3800K
					194- 198	3700K
					199- 202	3600K
					203- 207	3500K
					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
31	91	91	26	59	000-007	Wash Color Macro
					008-009	Open
					010-011	Medium Yellow
					012-013	Fire
					014-015	Gold Amber
						Sunset Red

CHANNEL					VALUE	FUNCTION
					016-017	Medium Pink
					018-019	Light Lavender
					020-021	Lavender
					022-023	Sky Blue
					024-025	Just Blue
					026-027	Lime Green
					028-029	Moss Green
					030-031	Dark Yellow Green
					032-033	Spring Yellow
					034-035	Yellow
					036-037	Light Amber
					038-039	Straw
					040-041	Deep Amber
					042-043	Orange
					044-045	Dark Pink
					046-047	Peacock Blue
					048-049	Medium Blue-Green
					050-051	Steel Blue
					052-053	Light Blue
					054-055	Deep Blue
					056-057	LEE Green
					058-059	Fern Green
					060-061	Dark Green
					062-063	Mauve
					064-065	Bright Pink
					066-067	Medium Blue
					068-069	Deep Golden Amber
					070-071	Pale Lavender
					072-073	Special Lavender
					074-075	Pale Green
					076-077	Primary Green
					078-079	Bright Blue
					080-081	Apricot
					082-083	Pale Gold
					084-085	Pink
					086-087	Bastard Amber
					088-089	Flame Red
					090-091	Daylight Blue
					092-093	Deep Lavender
					094-095	Congo Blue
					096-097	Surprise Pink
					098-099	Alice Blue
					100-101	Full C.T. Blue
					102-103	Half C.T. Blue
					104-105	Lighter Blue
					106-107	Millennium Gold

CHANNEL					VALUE	FUNCTION
					108-109	Amber
					110-255	NULL
24	24	24	27	24		SPECIAL FUNCTION (To activate following functions, stop in DMX value for at least 3 seconds.)
					000-009	No Function
					010-019	No Function
					020-029	No Function
					030-039	Dimmer Curve Linear
					040-049	Dimmer Curve Square Law
					050-059	Dimmer Curve Inv Square Law
					060-069	Dimmer Curve S
					070-079	Fan Mode Auto
					080-089	Fan Mode Quiet
					090-099	Fan Mode Super Quiet
					100-109	Frequency Setting Enable
					110-119	Frequency Setting Disable
					120-122	No Function
					123	900Hz
					124	1000Hz
					125	1100Hz
					126	1200Hz
					127	1300Hz
					128	1400Hz
					129	1500Hz
					130	2500Hz
					131	4000Hz
					132	5000Hz
					133	6000Hz
					134	10000Hz
					135	15000Hz
					136	20000Hz
					137	25000Hz
					138-139	No Function
					140-149	Pan/tilt Reset
					150-159	Effect Reset
					160-161	Invert Pixel Order :Yes
					162-163	Invert Pixel Order :No
					164-165	CCT Calibration: On
					166-167	CCT Calibration: Off
					168-169	Defog:Off
					170-171	Defog:Upright

CHANNEL					VALUE	FUNCTION
					172-173	Defog:Side Hang
					174-175	Defog:Inrterter Hang
					176-179	No Funtion
					180-181	Sun Protection Mode: On
					182-183	Sun Protection Mode: Off
					184-199	No Function
					200-209	Reset all
					210-219	Dimmer Speed Fast
					220-229	Dimmer Speed Smooth
					230-241	No Function
					242-243	Line Power Mode: Off
					244-245	Line Power Mode: On
					246-247	Dimming Start Mode: High
					248-249	Dimming Start Mode: Low
					250-251	Pan Disable
					252-253	Pan Enable
					254	Zoom Invert: No
					255	Zoom Invert: Yes
25					000-255	Wash Red 0%→100%
26					000-255	Wash Green 0%→100%
27					000-255	Wash Blue 0%→100%
28					000-255	Wash Lime 0%→100%
	25	25	1	25	000-255	Wash Red 1 0%→100%
	26	26	2	26	000-255	Wash Red Fine 1 0%→100%
	27	27	3	27	000-255	Wash Green 1 0%→100%
	28	28	4	28	000-255	Wash Green Fine 1 0%→100%
	29	29	5	29	000-255	Wash Blue 1 0%→100%
	30	30	6	30	000-255	Wash Blue Fine 1 0%→100%
	31	31	7	31	000-255	Wash Lime 1 0%→100%
	32	32	8	32		Wash Lime Fine 1

CHANNEL					VALUE	FUNCTION
					000-255	0%→100%
	.....	.....	.....	.....	000-255	.....
				49	000-255	Wash Red 4 0%→100%
				50	000-255	Wash Red Fine 4 0%→100%
				51	000-255	Wash Green 4 0%→100%
				52	000-255	Wash Green Fine 4 0%→100%
				53	000-255	Wash Blue 4 0%→100%
				54	000-255	Wash Blue Fine 4 0%→100%
				55	000-255	Wash Lime 4 0%→100%
				56	000-255	Wash Lime Fine 4 0%→100%
	81	81	57		000-255	Wash Red 8 0%→100%
	82	82	58		000-255	Wash Red Fine 8 0%→100%
	83	83	59		000-255	Wash Green 8 0%→100%
	84	84	60		000-255	Wash Green Fine 8 0%→100%
	85	85	61		000-255	Wash Blue 8 0%→100%
	86	86	62		000-255	Wash Blue Fine 8 0%→100%
	87	87	63		000-255	Wash Lime 8 0%→100%
	88	88	64		000-255	Wash Lime Fine 8 0%→100%
32					000-255	Beam CW 0%→100%
33					000-007 008-015 016-023 024-031	Beam Macro NULL EFFECT 1 EFFECT 2 EFFECT 3

CHANNEL					VALUE	FUNCTION
					032-039	EFFECT 4
					040-047	EFFECT 5
					048-055	EFFECT 6
					056-063	EFFECT 7
					064-071	EFFECT 8
					072-079	EFFECT 9
					080-087	EFFECT 10
					088-095	EFFECT 11
					096-103	EFFECT 12
					104-111	EFFECT 13
					112-119	EFFECT 14
					120-127	EFFECT 15
					128-135	EFFECT 16
					136-143	EFFECT 17
					144-151	EFFECT 18
					152-159	EFFECT 19
					160-167	EFFECT 20
					168-175	EFFECT 21
					176-183	EFFECT 22
					184-191	EFFECT 23
					192-199	EFFECT 24
					200-207	EFFECT 25
					208-215	EFFECT 26
					216-223	EFFECT 27
					224-231	EFFECT 28
					232-239	EFFECT 29
					240-247	EFFECT 30
					248-255	EFFECT 31
34					000	Beam Macro Speed
					001-127	Stop
					128-255	Slow to fast without fade
						Slow to fast With fade
	92	92	65	60	000-255	Beam CW 1 0%→100%
	93	93	66	61	000-255	Beam CW 2 0%→100%
	94	94	67	62	000-255	Beam CW 3 0%→100%
	.....	.....	.....	.....	000-255	.....
	105	105	78	73	000-255	Beam CW 14 0%→100%
	106	106	79	74	000-255	Beam CW 15 0%→100%

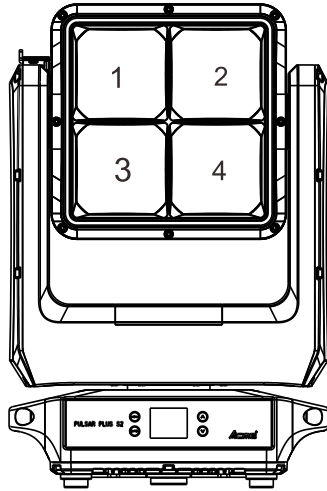
CHANNEL					VALUE	FUNCTION
	107	107	80	75	000-255	Beam CW 16 0%→100%
	108		81	76	000-255	Zone Red 1 0%→100%
	109		82	77	000-255	Zone Green 1 0%→100%
	110		83	78	000-255	Zone Blue 1 0%→100%
	.....		.....	.....	000-255	.....
	153		126	121	000-255	Zone Red 16 0%→100%
	154		127	122	000-255	Zone Green 16 0%→100%
	155		128	123	000-255	Zone Blue 16 0%→100%
35		108			000-255	Zone Red 0%→100%
36		109			000-255	Zone Green 0%→100%
37		110			000-255	Zone Blue 0%→100%
38		111			000-007 008-009 010-011 012-013 014-015 016-017 018-019 020-021 022-023 024-025 026-027 028-029 030-031 032-033 034-035 036-037 038-039 040-041 042-043 044-045 046-047	Zone Color Macro Open Medium Yellow Fire Gold Amber Sunset Red Medium Pink Light Lavender Lavender Sky Blue Just Blue Lime Green Moss Green Dark Yellow Green Spring Yellow Yellow Light Amber Straw Deep Amber Orange Dark Pink Peacock Blue

CHANNEL					VALUE	FUNCTION
					048-049	Medium Blue-Green
					050-051	Steel Blue
					052-053	Light Blue
					054-055	Deep Blue
					056-057	LEE Green
					058-059	Fern Green
					060-061	Dark Green
					062-063	Mauve
					064-065	Bright Pink
					066-067	Medium Blue
					068-069	Deep Golden Amber
					070-071	Pale Lavender
					072-073	Special Lavender
					074-075	Pale Green
					076-077	Primary Green
					078-079	Bright Blue
					080-081	Apricot
					082-083	Pale Gold
					084-085	Pink
					086-087	Bastard Amber
					088-089	Flame Red
					090-091	Daylight Blue
					092-093	Deep Lavender
					094-095	Congo Blue
					096-097	Surprise Pink
					098-099	Alice Blue
					100-101	Full C.T. Blue
					102-103	Half C.T. Blue
					104-105	Lighter Blue
					106-107	Millennium Gold
					108-109	Amber
					110-255	NULL
39		112			Zone Macro	
					000-007	NULL
					008-015	EFFECT 1
					016-023	EFFECT 2
					024-031	EFFECT 3
					032-039	EFFECT 4
					040-047	EFFECT 5
					048-055	EFFECT 6
					056-063	EFFECT 7
					064-071	EFFECT 8
					072-079	EFFECT 9
					080-087	EFFECT 10
					088-095	EFFECT 11
					096-103	EFFECT 12

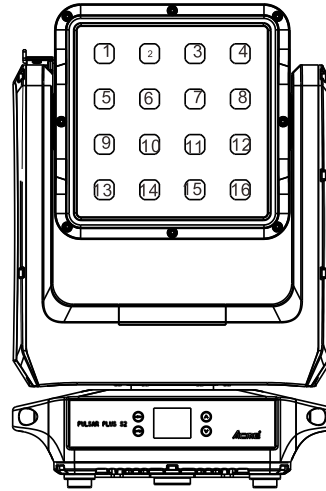
CHANNEL					VALUE	FUNCTION
					104-111	EFFECT 13
					112-119	EFFECT 14
					120-127	EFFECT 15
					128-135	EFFECT 16
					136-143	EFFECT 17
					144-151	EFFECT 18
					152-159	EFFECT 19
					160-167	EFFECT 20
					168-175	EFFECT 21
					176-183	EFFECT 22
					184-191	EFFECT 23
					192-199	EFFECT 24
					200-207	EFFECT 25
					208-215	EFFECT 26
					216-223	EFFECT 27
					224-231	EFFECT 28
					232-239	EFFECT 29
					240-247	EFFECT 30
					248-255	EFFECT 31
40		113			000	Zone Macro Speed
					001-127	Stop
					128-255	Slow to fast without fade
						Slow to fast With fade
41					000-255	Line CW
						0%→100%
42					000-007	Line Macro
					008-015	NULL
					016-023	EFFECT 1
					024-031	EFFECT 2
					032-039	EFFECT 3
					040-047	EFFECT 4
					048-055	EFFECT 5
					056-063	EFFECT 6
					064-071	EFFECT 7
					072-079	EFFECT 8
					080-087	EFFECT 9
					088-095	EFFECT 10
					096-103	EFFECT 11
					104-111	EFFECT 12
					112-119	EFFECT 13
					120-127	EFFECT 14
					128-135	EFFECT 15
					136-143	EFFECT 16
					144-151	EFFECT 17
					152-159	EFFECT 18
						EFFECT 19

CHANNEL					VALUE	FUNCTION
					160-167 168-175 176-183 184-191 192-199 200-207 208-215 216-223 224-231 232-239 240-247 248-255	EFFECT 20 EFFECT 21 EFFECT 22 EFFECT 23 EFFECT 24 EFFECT 25 EFFECT 26 EFFECT 27 EFFECT 28 EFFECT 29 EFFECT 30 EFFECT 31
43					000 001-127 128-255	Line Macro Speed Stop Slow to fast without fade Slow to fast With fade
	156	114	129	124	000-255	Line CW 1 0%→100%
	157	115	130	125	000-255	Line CW 2 0%→100%
	158	116	131	126	000-255	Line CW 3 0%→100%
	.....	.....	.....	.....	000-255	.....
	194	152	167	162	000-255	Line CW 39 0%→100%
	195	153	168	163	000-255	Line CW 40 0%→100%

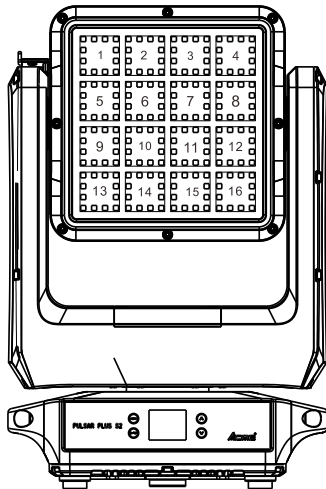
LED PIXEL ZONES DIAGRAM



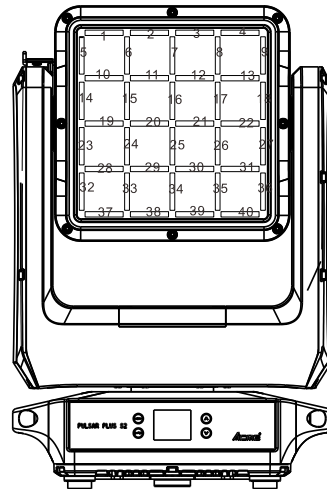
WASH R/G/B/L
PAN DMX:128
TILT DMX: 180



BEAM WHITE
PAN DMX 128
TILT DMX 75



ZONE R/G/B
PAN DMX:128
TILT DMX:75



LINE WHITE
PAN DMX:128
TILT DMX:75

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/H/J 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.

Network Error

Check whether the net model is installed in place.

Check whether the net model is damaged.

Check whether the network is normal.

Base 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.

Light Source 1/2/3/4/5/6 /7 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.

Light Source Timeout Use

When the fixture exceed the light source rated lifetime. Please Replace the Light Source.

Light Source Too Hot Off

When the fixture temperature reaches 85°C, it will automatically turn off to protect the fixture.

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.

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.

Base A Fan 1/2 Start Error

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 C 1/2/Start Error

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 D 1/2/Start Error

Check whether the fan is not running.

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

Check whether the fan is damaged.

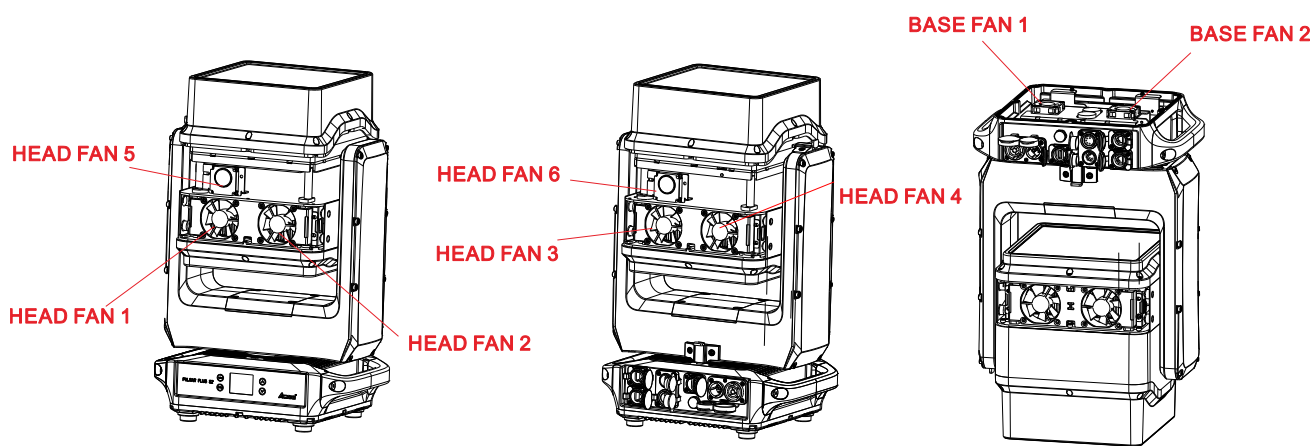
Check whether there are obstacles in the fan operating range.

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.

Position of cooling fans:



Cooling Fans	PCB Printing	Part Number	V	W	Position	Print Error Message
Base Fan 1	FAN1	3014001183	DC 24V	2.2W	Base - A	Base Fan 1 Start Error
Base Fan 2	FAN2					Base Fan 2 Start Error
Head Fan 1	FAN1	3014001440	DC 24V	3.4W	Head - C	Head Fan 1 Start Error
Head Fan 2	FAN2					Head Fan 2 Start Error
Head Fan 3	FAN3					Head Fan 3 Start Error
Head Fan 4	FAN4					Head Fan 4 Start Error
Head Fan 5	FAN2	3014001459	DC 24V	1.7W	Head- D	Head Fan 5 Start Error
Head Fan 6	FAN4	3014001459	DC 24V	1.7W	Head- D	Head Fan 6 Start Error

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	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.
Moisture on Lens Glass	High ambient humidity	Select the defog function in the menu or select the command "Defog: (170-171 Upright、172-173 Side Hang、174-175 Inverted Hang)" in the special Function.

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/ Cleaning and Maintenance

- To ensure the normal and stable operation of the luminaire, the fixture should be kept clean. Acetone may be used to clean the lens. It is recommended to clean the body, fan, and air intake vents every 15 days. The lens and dichroic filters should also be cleaned regularly to maintain optimal lighting effects. When cleaning the dichroic filters, do not use any solvent-based cleaners to avoid damage to the luminaire.
- When the luminaire is used continuously, it is recommended not to exceed 4 hours per session, otherwise the service life of the luminaire will be significantly shortened. This issue can be addressed by using a rotation/rest method.
- Before performing maintenance or disassembly on the luminaire, always disconnect the power supply and never operate with live electricity. After disconnecting the power, all components of the luminaire must cool down for approximately 10 minutes before disassembly or assembly. If the bulb needs to be replaced, wait an additional 20 minutes or more for the bulb to cool completely to avoid burns.
- The lenses, optics, and other rotating parts of the luminaire must be inspected regularly to ensure they remain clean and stable. If any obvious damage or looseness is found, they must be replaced or reinforced promptly to prevent accidents.
- This luminaire product employs forced-air cooling and tends to accumulate dust. It must be cleaned at least once every two weeks, especially at the air intake and exhaust vents for heat dissipation.
- After performances using color gels, check whether any paper debris is stuck in or has been drawn into the air intake and exhaust vents. Such debris must be removed completely; otherwise, it may damage the fan and cause a fire hazard.

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



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

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