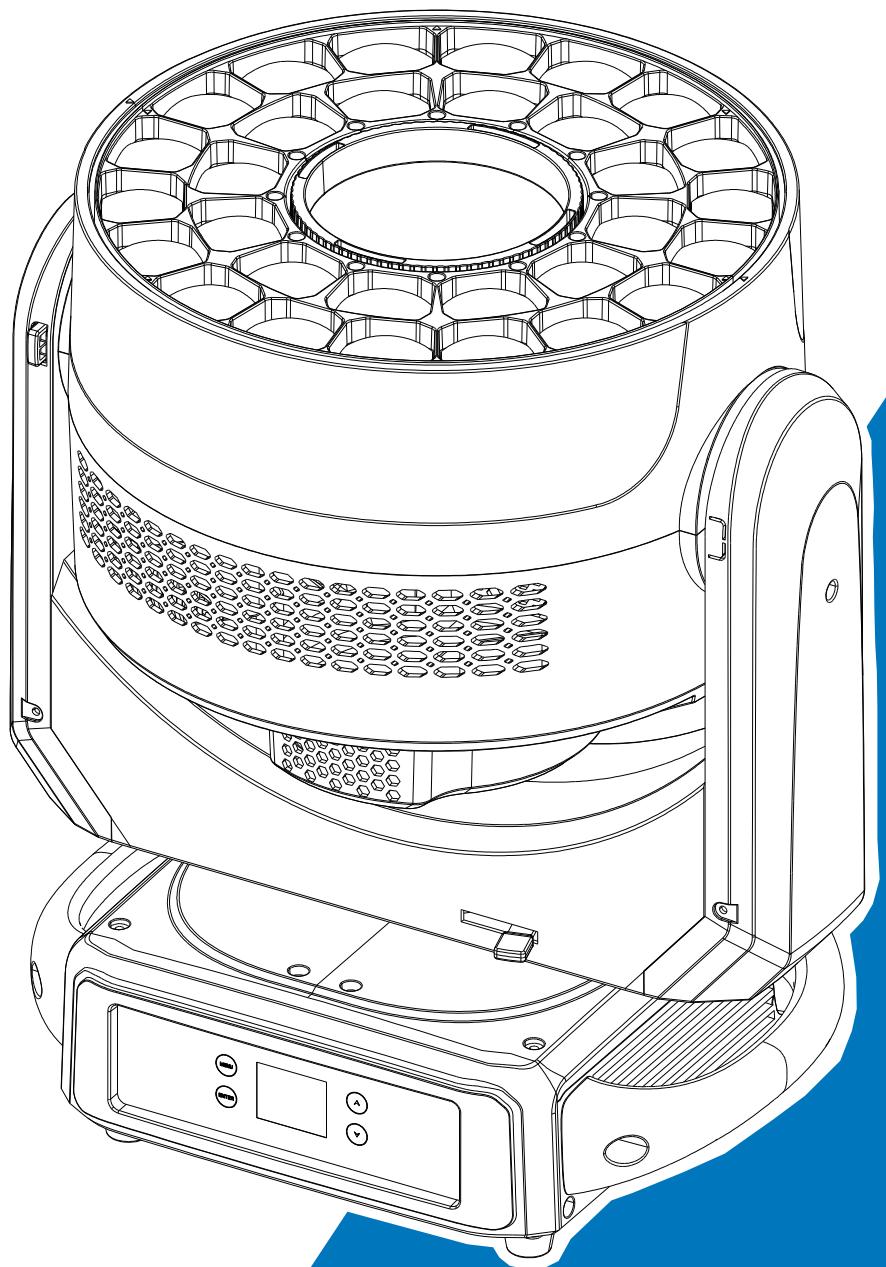




THETA



Intertek
5000057

User Manual

Please read the instruction carefully before use

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01/ Safety Instructions



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

WARNING

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

Important:

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

- Unpack and check carefully to ensure that there is no transportation damage before using the unit.
- This product is 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 65°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.
- 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.

01/ Consignes de sécurité



Veuillez lire attentivement les instructions qui contiennent des informations importantes sur l'installation, l'utilisation et l'entretien.

ATTENTION

Veuillez conserver ce guide de l'utilisateur pour une 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 résultent.

- Déballez et vérifiez soigneusement qu'il n'y a pas de dommages dus au transport avant d'utiliser l'appareil.
- Ce produit est destiné à un usage intérieur uniquement. Il doit donc être utilisé uniquement dans un endroit sec.
- L'installation et la mise en fonctionnement doit être effectué par un opérateur qualifié.
- NE PAS permettre aux enfants d'utiliser l'appareil.
- Utilisez une chaîne de sécurité lors de la fixation de l'unité. Manipulez l'appareil en portant sa base au lieu de la tête uniquement.
- L'unité doit être installée dans un endroit avec une ventilation adéquate, à au moins 50cm des surfaces adjacentes.
- Assurez-vous qu'aucune fente d'aération du luminaire n'est obstruée, sinon il risque de surchauffer.
- Avant toute utilisation, assurez-vous que vous connectez ce luminaire à la tension appropriée conformément aux spécifications que vous trouverez dans ce manuel ou sur l'étiquette des spécifications collée sur la base du luminaire.
- Il est important de relier le file jaune/vert à la terre afin d'éviter tout choc électrique.
- Température ambiante minimale TA: 0°C. Température ambiante maximale TA: 40°C.
N'utilisez pas ce luminaire à des températures inférieures ou supérieures.
- NE PAS connecter le luminaire à un pack de gradateurs.
- Gardez les matériaux inflammables à l'écart du luminaire pendant le fonctionnement

pour éviter tout risque d'incendie.

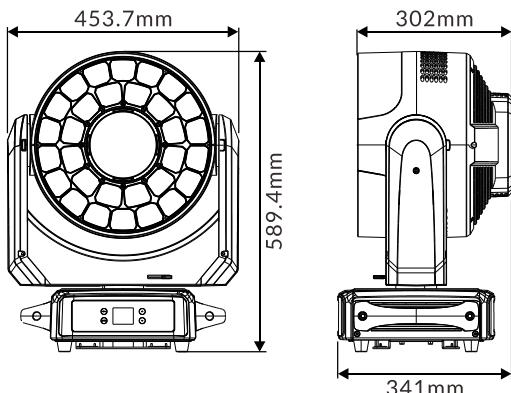
- Assurez-vous que le cordon d'alimentation n'est pas pincé ou endommagé; remplacez-le immédiatement s'il est endommagé.
- La température de surface de l'unité peut atteindre 65°C. NE PAS toucher les capots à mains nues pendant son fonctionnement.
- Évitez que des liquides inflammables, de l'eau ou du métal ne pénètrent dans l'appareil. Si cela se produit, coupez immédiatement l'alimentation secteur.
- NE PAS utiliser le luminaire dans un environnement sale ou poussiéreux. Cette appareil doit être nettoyer régulièrement.
- NE touchez AUCUN fil pendant le fonctionnement car il pourrait y avoir un risque de choc électrique.
- Évitez l'enchevêtrement du cordon d'alimentation avec d'autres fils.
- La distance minimale de projection sur des objets ou sur des surfaces doit être supérieure à 0.5 mètres.
- En cas de problème de fonctionnement grave, arrêtez immédiatement d'utiliser l'appareil.
- N'allumez et n'éteignez jamais ce luminaire à maintes 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 réparable par l'utilisateur.
- NE PAS mettre ce luminaire en fonctionnement s'il est endommagé. N'effectuez pas de réparations vous-même. Les réparations ne doivent être effectuées par des personnes non qualifiées, cela peut entraîner des dommages ou des dysfonctionnements. Veuillez contacter le centre d'assistance technique agréé le plus proche si nécessaire.
- Débranchez ce produit du secteur avant de procéder à l'entretien.
- Utiliser l'emballage d'origine si l'appareil doit être transporté.
- Évitez une exposition directe des yeux à la source lumineuse lorsque le produit est allumé.
- N'utilisez PAS ce produit si vous constatez des dommages sur le boîtier, les blindages ou les câbles. Faites remplacer immédiatement les pièces endommagées par un technicien agréé.

02/ Technical Specifications

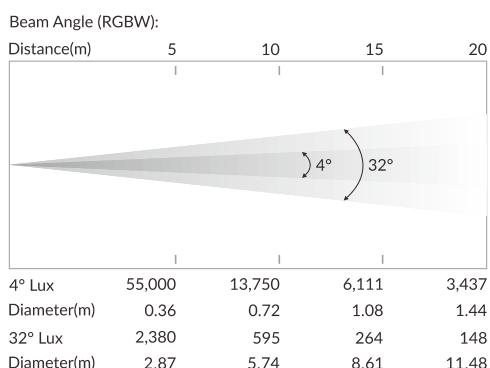
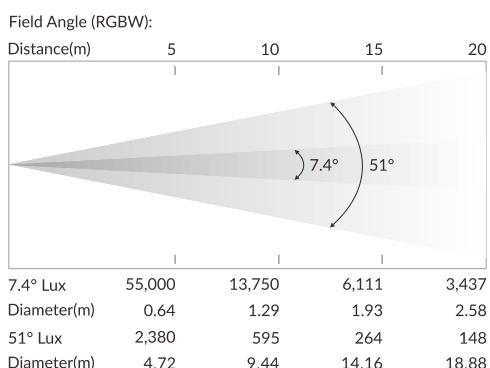
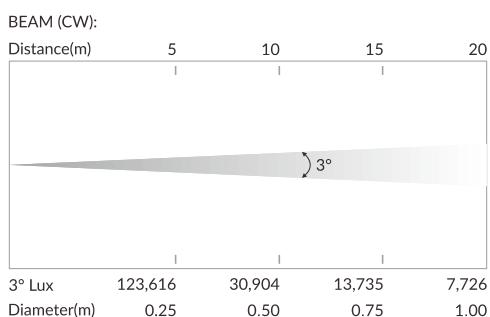
Power Voltage	100-240V~ 50/60Hz	
Power Consumption	1600W	
Light Source	1x200W CW LED 30x40W RGBW LED	
Beam Angle	3°	
Zoom Range	4°-51°	
Dimmer/Strobe	0-100% smooth dimming; outstanding strobe effect with variable speed	
Color Wheel	13 colors + open with rainbow effect	
Gobo Wheel	Static Gobo Wheel	9 gobos + open
Movement	Pan	540°
	Tilt	210°
	Pan/Tilt Resolution	16 bit
	Automatic pan/tilt position correction	
	Fixation	Pan/Tilt lock
Control	DMX Channel	27/139/19+
	Control Mode	DMX512
		RDM
		Art-Net
		sACN
Construction	Firmware Upgrade	via DMX link or USB disk
	Display	LCD display
	Battery backup for user setup without mains connection	
	Data In/Out	3/5-pin XLR
		RJ45 Connector
	Power In/Out	Power Connector in
	Protection Rating	IP20

Description for power cord set should be used: Listed SJT flexible cord with 6-20P plug, minimum rating: 300V, 90°C, VW-1, 16AWGx3C, and terminated with cord connector model SAC3FX with rating 250V, 16A by NINGBO HAISHU DISTRICT SEETRONIC ELECTRONIC CO LTD. The length of power cord shall be at least 914mm (It is to be measured from the face of the attachment plug to the face of the Cord Connector).

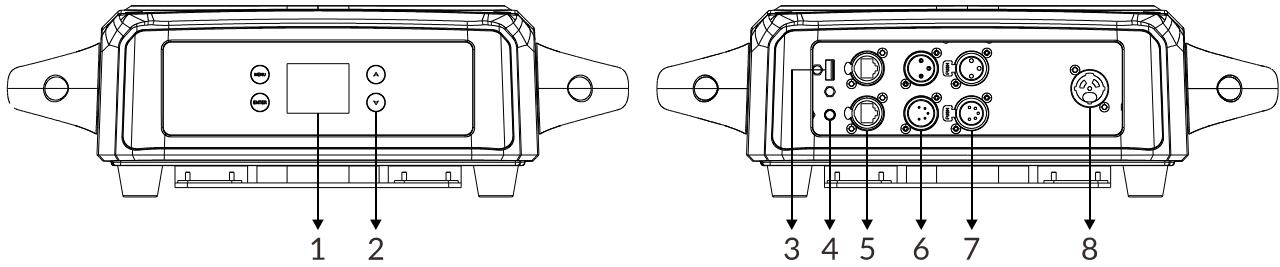
Features	Motorized focus
	Motorized zoom
	Independent frost effect
	2 x prisms: 8-facet prism + 16-facet prism, capable of bidirectional rotation and superposition
	Variable CTO
	Pixel control, outstanding color macro effect
	With color correction system to ensure consistent color output
	Powerful beam and wash effects
Dimensions	453.7x341x589.4mm 17.9"x13.4"x23.2"in
Weight	34kgs 75lbs



Photometric Diagram:



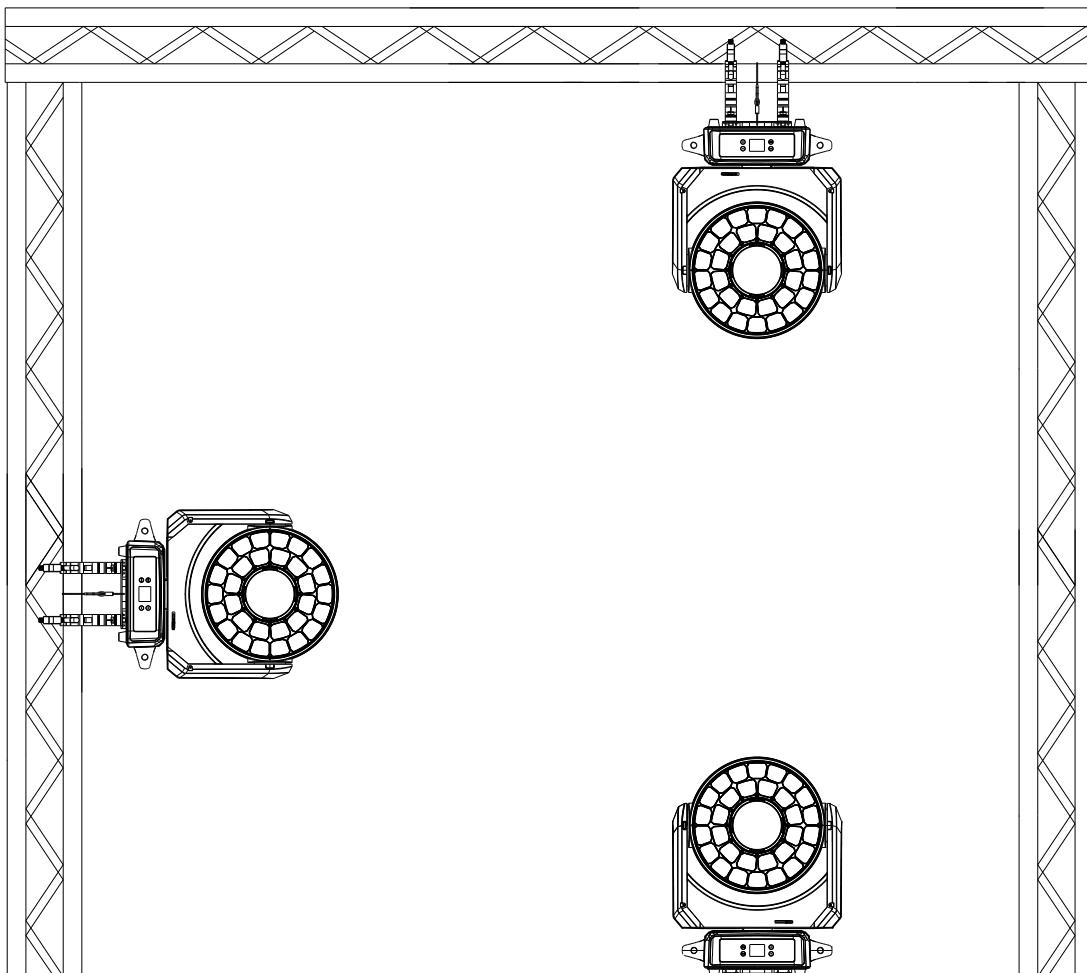
03/ Control Panel

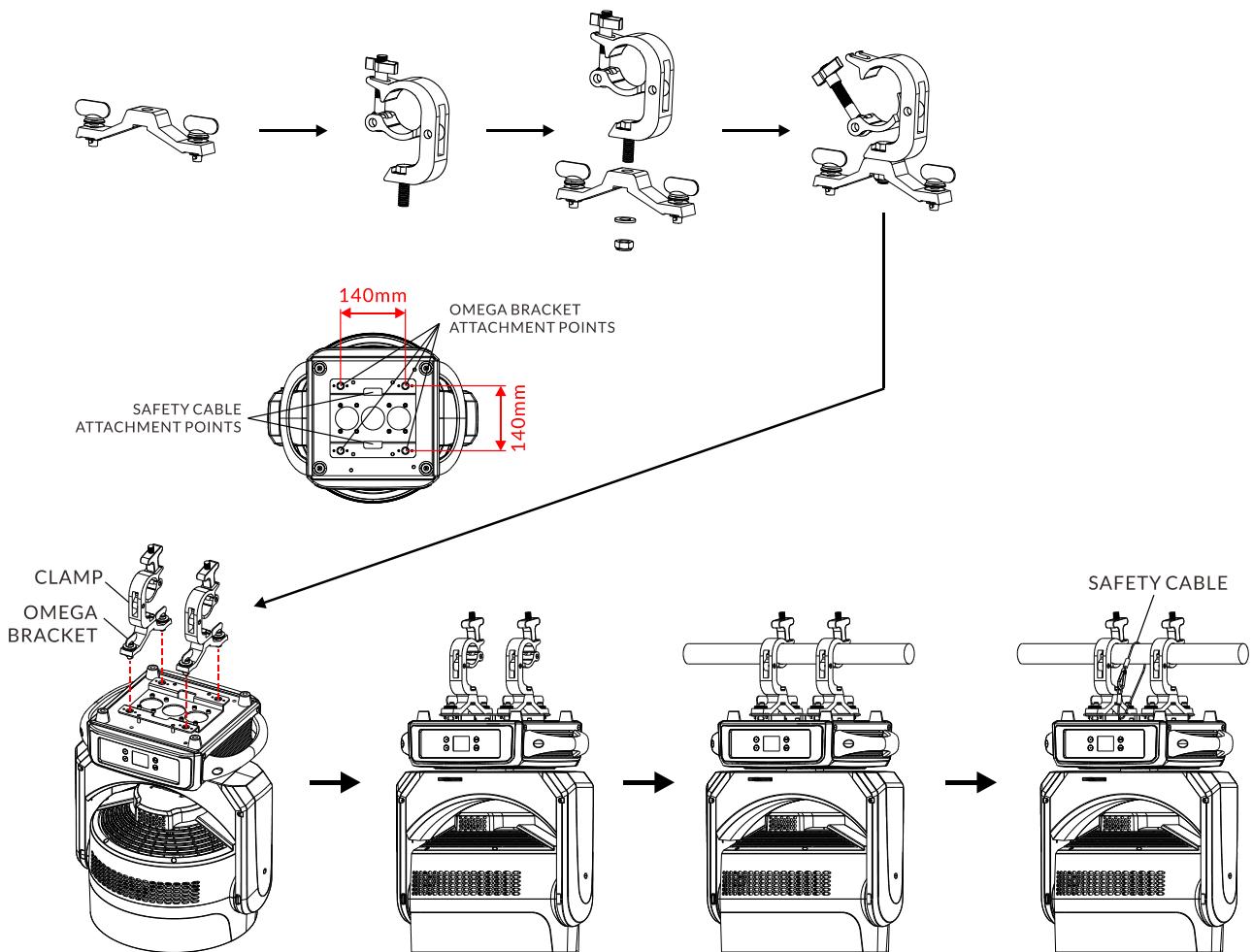


1. Display	To show the various menus and the selected function	
2. Buttons	MENU	To enter into move backward or leave the menu
	▲ UP	To go backward to move up in the menu
	▼ DOWN	To go forward to move down in the menu
3. FIRMWARE UPGRADE	Used to upgrade fixture's firmware	
4. BATTERY DISPLAY		
5. ETHERNET	Transfers fixture's information to a main controller	
6. DMX IN	For DMX512 link, use 3/5-pin XLR cable to link the unit and DMX controller to input DMX signal	
7. DMX OUT	For DMX512 link, use 3/5-pin XLR cable to link the next units to output DMX signal	
8. POWER	To connect to supply power	

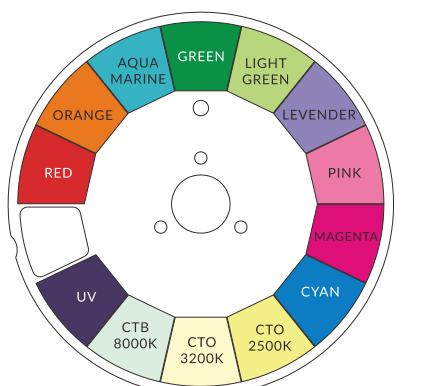
04/ Fixture Installation

- ▶ DO install and operate by qualified operator. Fixture(s) should be installed in areas outside walking paths, seating areas, or away from areas where unauthorized personnel might reach the fixture by hand. NEVER stand directly below the fixture(s) when rigging, removing or servicing.
- ▶ Always ensure that the unit is firmly fixed to avoid vibration and slipping off during operation. Ensure that the trussing or area of installation must be able to hold 10 times the weight without any deformation. Always attach a safety cable that can hold at least 12 times the weight of the fixture whenever installing this fixture in a suspended environment to ensure that the fixture will not fall if the clamp fails.
- ▶ 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 the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.

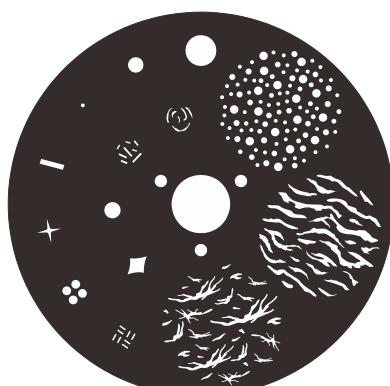




05/ Effect Wheels



COLOR WHEEL



STATIC GOBO WHEEL

DANGER!

Install the color wheel / gobo wheel with the device switched off only.

Unplug from mains before changing the color wheel / gobo wheel!

06/ How To Set The Unit

6.1 Main Functions

- ▶ To access the control menus, press the [MENU] button.
- ▶ Navigate the menu structure, using the [ENTER], [**▲ UP**] and [**▼ DOWN**] buttons.
- ▶ To select a menu option or to confirm a selection, press the [ENTER] button.
- ▶ To return to a higher level in the menu structure without making a change, press the [MENU] button, or wait 30 seconds.

The main functions are shown below:

MENU	SUBMENU	OPTIONS	
DMX Settings	Port A Address	1-486 (27 CH)	
		1-374 (139 CH)	(Default=1)
		1-494 (19+ CH)	
	Port B Address	1-393 (19+ CH)	(Default=1)
	DMX Channel Mode	Mode 1 (27)	
		Mode 2 (139)	
		Mode 3 (19+)	
	No DMX Status	Blackout	
		Hold	
		Manual	
	View DMX Value		
	Connect Option	Auto	
		DMX	
		Art-Net	
		sACN	
	Network	IP Address	Default 1:002.xxx.xxx.xxx
			Default 2:010.xxx.xxx.xxx
			Manual:xxx.xxx.xxx.xxx
		Sub-Net Mask	xxx.xxx.xxx.xxx
	Art-Net Settings	Net	0-127
		Sub-Net	0-15
		Universe A	0-15
		Universe B	0-15
	sACN Settings	Universe	1-32000
		Priority	0-200

MENU	SUBMENU	OPTIONS
	Network to DMX	No Yes
	Pan Invert	No Yes
	Tilt Invert	No Yes
	P/T Feedback	No Yes
	Dimmer Curve	Linear Square Law Inv SQ Law S Curve
	Dimmer Speed	Fast Smooth
Fixture Settings	White Balance	LED Red Zone 1 125-255 LED Green Zone 1 125-255 LED Blue Zone 1 125-255 LED Red Zone 2 125-255 LED Green Zone 2 125-255 LED Blue Zone 2 125-255 LED Red Zone 3 125-255 LED Green Zone 3 125-255 LED Blue Zone 3 125-255 LED Red 125-255 LED Green 125-255 LED Blue 125-255 LED Red 1 125-255 LED Green 1 125-255 LED Blue 1 125-255
		LED Red 30 125-255
		LED Green 30 125-255
		LED Blue 30 125-255

MENU	SUBMENU	OPTIONS	
Display Settings	LED Refresh Rate	900Hz	
		1000Hz	
		1100Hz	
		1200Hz	
		1300Hz	
		1400Hz	
		1500Hz	
		2500Hz	
		4000Hz	
		5000Hz	
		6000Hz	
		10KHz	
		15KHz	
		20KHz	
		25KHz	
	Cooling Mode	Auto	
		Quiet	
	Invert Pixel Order	No	
		Yes	
	Color Calibration	Off	
		On	
	Calibration Mode	Hi CRI	
		Hi Output	
	Gobo Short Cut	Enable	
		Disable	
	Color Short Cut	Enable	
		Disable	
	Display Invert	No	
		Yes	
	Backlight Intensity	1-10	(Default=10)
	Temperature Unit	°C	
		°F	

MENU	SUBMENU	OPTIONS			
	Auto Test	Single			
		Cycle			
Fixture Test	Auto Test	Mode 1		Mode 2	
		Clear	No/Yes	Clear	No/Yes
		Pan	0-255	Pan	0-255
		Tilt	0-255	Tilt	0-255
		X/Y Speed	0-255	X/Y Speed	0-255
		All Dimmer	0-255	All Dimmer	0-255
		Beam Strobe	0-255	Beam Strobe	0-255
		Wash Strobe	0-255	Wash Strobe	0-255
		Beam Dim	0-255	Beam Dim	0-255
		Color	0-255	Color	0-255
		Gobo	0-255	Gobo	0-255
		8/16 Prism	0-255	8/16 Prism	0-255
		8 R-Prism	0-255	8 R-Prism	0-255
		16 R-Prism	0-255	16 R-Prism	0-255
	Manual Test	Frost	0-255	Frost	0-255
		Focus	0-255	Focus	0-255
		Zoom	0-255	Zoom	0-255
		Red 1	0-255	Red	0-255
		Green 1	0-255	Green	0-255
	Macro Test	Blue 1	0-255	Blue	0-255
		White 1	0-255	White	0-255
		0-255	Cto	0-255
		Red 30	0-255	Color Macro	0-255
		Green 30	0-255	Wash Macro	0-255
	Color Test	Blue 30	0-255	Macro Speed	0-255
		White 30	0-255		

MENU	SUBMENU	OPTIONS				
Fixture Information	Fixture Use Hour					
	LED Use Hour	Total LED Hour				
		LED On Hour				
		LED Hours Reset	Password=050			
	Temperature	LED's		Current		
			LED 1			
			LED 2			
			LED 3			
			LED 4			
	Upgrade File					
	Fan State	B_FAN 1-4				
		H_FAN 1-5				
	Firmware Version					
	RDM UID					
	Error Logs	Fixture Errors				
		Reset Error Log	No			
			Yes	Password=050		
Reset Function	Pan/Tilt Reset	No				
		Yes				
	Effect Reset	No				
		Yes				
	All Reset	No				
		Yes				
Special Function	Factory Settings	No				
		Yes				

DMX Settings

Enter the control menu and select **DMX Settings**, press ENTER. Use the UP/DOWN button to select **Port A Address**, **Port B Address**, **DMX Channel Mode**, **No DMX Status**, **View DMX Value**, **Connect Option**, **Network**, **Art-Net Settings**, **sACN Settings** or **Network to DMX**.

Port A Address

Select **Port A Address**, press ENTER.

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

CHANNEL MODE	DMX ADDRESS
Mode 1 (27)	1-486
Mode 2 (139)	1-374
Mode 3 (19+)	1-494

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

Port B Address

Select **Port B Address**, press ENTER.

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

CHANNEL MODE	DMX ADDRESS
Mode 3 (19+)	1-393

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 (27)**, **Mode 2 (139)** and **Mode 3 (19+)**, 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**, **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**, **Dimmer Curve**, **Dimmer Speed**, **White Balance**, **LED Refresh Rate**, **Cooling Mode**, **Invert Pixel Order**, **Color Calibration**, **Calibration Mode**, **Gobo Short Cut** or **Color Short Cut**.

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.

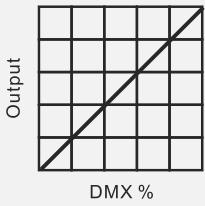
To exit the menu, press MENU, or wait 30 seconds.

Dimmer Curve

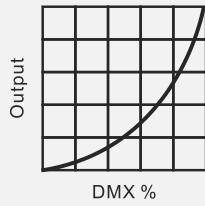
Select **Dimmer Curve**, press ENTER.

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

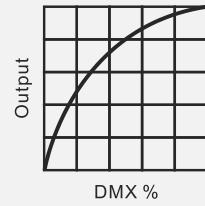
Dimmer Modes



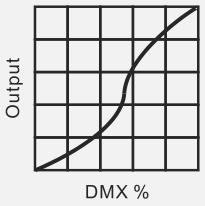
Optically Linear



Square Law



Inverse Square Law



S-curve

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

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 **LED Red Zone 1**, **LED Green Zone 1**, **LED Blue Zone 1**.....**LED Red Zone 3**, **LED Green Zone 3**, **LED Blue Zone 3**, **LED Red**, **LED Green**, **LED Blue**, **LED Red1**, **LED Green1**, **LED Blue1**..... or **LED Red30**, **LED Green30**, **LED Blue30**, 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.

LED Refresh Rate

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

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

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

Cooling Mode

Select **Cooling Mode**, press ENTER.

Use UP/DOWN button to select **Auto** or **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.

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.

Gobo Short Cut

Select **Gobo Short Cut**, press ENTER.

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

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

Color Short Cut

Select **Color Short Cut**, press ENTER.

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

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

Display Settings

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

Display Invert

Select **Display Invert**, press ENTER.

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

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

Backlight Intensity

Select **Backlight Intensity**, press ENTER.

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

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

Temperature Unit

Select **Temperature Unit**, press ENTER.

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

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

Fixture Test

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

Auto Test

Select **Auto Test**, press ENTER.

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

To exit the menu, press MENU.

Manual Test

Select **Manual Test**, press ENTER.

Use UP/DOWN button to select the channel for which the manual test is to be performed, confirm your selection with ENTER.

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

To exit the menu, press MENU.

(The device returns to its original DMX state after the manual test. The test values are saved automatically when the device is switched off.)

Fixture Information

Enter the control menu and select **Fixture Information**, press ENTER. Use the UP/DOWN button to select **Fixture Use Hour**, **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			✓
SLOT_INFO			✓
SLOT_DESCRIPTION			✓
SENSOR_DEFINITION			✓
SENSOR_VALUE			✓
DEVICE_HOURS			✓
LAMP_HOURS			✓
PAN_INVERT		✓	✓
TILT_INVERT		✓	✓
RESET_DEVICE		✓	
CURVE		✓	✓
DMX_STATE		✓	✓
DIMMER_SPEED		✓	✓

✓ - 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
Color	-128~127
Gobo	-128~127
8 Prism	-128~127
8 R-Prism	-128~127
16 Prism	-128~127
16 R-Prism	-128~127
Frost	-128~127
Focus	-128~127
Led Beam	0~1000
Zoom	-128~127
Red	0~1000
Green	0~1000
Blue	0~1000
White	0~1000
Red 1	0~1000
Green 1	0~1000
Blue 1	0~1000
White 1	0~1000
.....
Red 30	0~1000
Green 30	0~1000
Blue 30	0~1000
White 30	0~1000

Frequency(Hz)

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

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

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

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

Pan

Select **Pan**, press ENTER.

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

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

Tilt

Select **Tilt**, press ENTER.

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

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

Color

Select **Color**, press ENTER.

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

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

Gobo

Select **Gobo**, press ENTER.

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

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

8 Prism

Select **8 Prism**, 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.

8 R-Prism

Select **8 R-Prism**, 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.

16 Prism

Select **16 Prism**, 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.

16 R-Prism

Select **16 R-Prism**, press ENTER.

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

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

Frost

Select **Frost**, press ENTER.

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

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

Focus

Select **Focus**, press ENTER.

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

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

Led Beam

Select **Led Beam**, 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.

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

Select **Red**, 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

Select **Green**, 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

Select **Blue**, 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

Select **White**, 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 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 30

Select **Red 30**, 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 30

Select **Green 30**, 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 30

Select **Blue 30**, 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 30

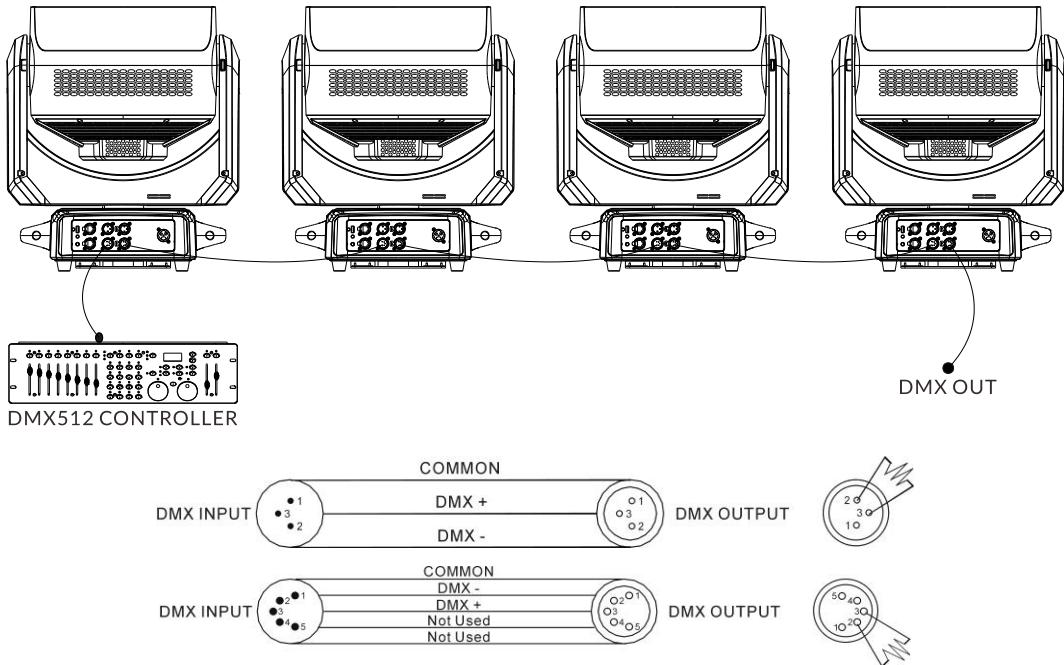
Select **White 30**, press ENTER.

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/ Control By Universal DMX Controller

7.1 DMX512 Connection



1. At last unit, the DMX cable has to be terminated with a terminator. Solder a 120-ohm 1/4W resistor between pin 2(DMX-) and pin 3(DMX+) into a 3-pin XLR-plug and plug it in the DMX-output of the last unit.
2. Connect the unit together in a “daisy chain” by XLR plug cable from the output of the unit to the input of the next unit. The cable can only be used in series and cannot be connected in parallel. DMX 512 is a very high-speed signal. Inadequate or damaged cables, soldered joints or corroded connectors can easily distort the signal and shut down the system.
3. The DMX output and input connectors are pass-through to maintain the DMX circuit, when one of the units' power is disconnected.
4. Each lighting unit needs to have a DMX address to receive the data by the controller. The address number is between 1-512.
5. The end of the DMX 512 system should be terminated to reduce signal errors.
6. 3 pin XLR connectors are more popular than 5 pins XLR.

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

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

7.2 Address Setting

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

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

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

Channel Mode	Unit 1 Address	Unit 2 Address	Unit 3 Address	Unit 4 Address
27 channels	1	28	55	82
139 channels	1	140	279	418
19+ channels (Controlled by DMX)	1	20	39	58
19+ channels (Controlled by Art-Net)	1	121	241	361

7.3 DMX512 Configuration

Please control the fixture by referring to the configurations below.

Attentions:

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

CHANNEL			VALUE	FUNCTION
27ch	139ch	19+ch		
19+ ch (Controlled by DMX)				
1	1	1	000-255	PAN 0°→540°
2	2	2	000-255	PAN FINE
3	3	3	000-255	TILT 0°→210°
4	4	4	000-255	TILT FINE
5	5	5	000-255	PAN/TILT SPEED Fast to Slow
6	6	6	000-255	DIMMER (BEAM & WASH) 0%→100%
7	7	7	000-007	BEAM STROBE Close
			008-015	Open
			016-131	Strobe from Slow to Fast
			132-139	Open
			140-181	Fast Open Slow Close from Slow to Fast
			182-189	Open
			190-231	Slow Open Fast Close from Slow to Fast
			232-239	Open
			240-247	Random Strobe from Slow to Fast
			248-255	Open
8	8	8	000-007	WASH STROBE Close
			008-015	Open
			016-131	Strobe from Slow to Fast
			132-139	Open
			140-181	Fast Open Slow Close from Slow to Fast
			182-189	Open
			190-231	Slow Open Fast Close from Slow to Fast
			232-239	Open
			240-247	Random Strobe from Slow to Fast
			248-255	Open
9	9	9	000-009	SPECIAL FUNCTION Null
			010-019	Null
			020-029	Null
			030-039	Dimmer Curve: Linear
			040-049	Dimmer Curve: Square Law
			050-059	Dimmer Curve: Inv SQ Law
			060-069	Dimmer Curve: S Curve
			070-079	Null

			080-089 090-099 100-109 110-119 120-122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138-139 140-149 150-159 160-169 170-179 180-189 190-199 200-209 210-219 220-229 230-231 232-233 234-235 236-237 238-239 240-245 246-251 252-255	Null Null Led Frequency Setting Enable Led Frequency Setting Disable Null 900Hz 1000Hz 1100Hz 1200Hz 1300Hz 1400Hz 1500Hz 2500Hz 4000Hz 5000Hz 6000Hz 10KHz 15KHz 20KHz 25KHz 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 Gobo Short Cut: Enable Gobo Short Cut: Disable Color Short Cut: Enable Color Short Cut: Disable Null Cooling Mode: Silent Cooling Mode: Auto Null
10	10	10	000-255	BEAM DIMMER 0%→100%
11	11	11	000-007 008-011 012-015 016-019 020-023 024-027	BEAM COLOR WHEEL Open Color 1 Color 2 Color 3 Color 4 Color 5

			028-031 032-039 040-043 044-047 048-051 052-055 056-059 060-063 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91-127 128-189 190-193 194-255	Color 6 Color 7 Color 8 Color 9 Color 10 Color 11 Color 12 Color 13 Open Open+Color 1 Color 1 Color 1+Color 2 Color 2 Color 2+Color 3 Color 3 Color 3+Color 4 Color 4 Color 4+Color 5 Color 5 Color 5+Color 6 Color 6 Color 6+Color 7 Color 7 Color 7+Color 8 Color 8 Color 8+Color 9 Color 9 Color 9+Color 10 Color 10 Color 10+Color 11 Color 11 Color 11+Color 12 Color 12 Color 12+Color 13 Color 13 Open Clockwise Rotation, Fast to Slow Stop Counter-Clockwise Rotation, Slow to Fast
12	12	12	000-007 008-013 014-019 020-025 026-031 032-037 038-043	BEAM GOBO WHEEL Open Gobo 1 Gobo 2 Gobo 3 Gobo 4 Gobo 5 Gobo 6

			044-049 050-055 056-063 064-070 071-077 078-084 085-091 092-098 099-105 106-112 113-119 120-127 128-189 190-193 194-255	Gobo 7 Gobo 8 Gobo 9 Gobo 1 Shaking, Slow to Fast Gobo 2 Shaking, Slow to Fast Gobo 3 Shaking, Slow to Fast Gobo 4 Shaking, Slow to Fast Gobo 5 Shaking, Slow to Fast Gobo 6 Shaking, Slow to Fast Gobo 7 Shaking, Slow to Fast Gobo 8 Shaking, Slow to Fast Gobo 9 Shaking, Slow to Fast Counter-Clockwise Rotation, Fast to Slow Stop Clockwise Rotation, Slow to Fast
13	13	13	000-007 008-090 091-173 174-255	BEAM PRISMS Open 8-facets prism 16-facets prism 8-facets prism + 16-facets prism
14	14	14	000-127 128-189 190-193 194-255	BEAM 8-FACETS PRISM ROTATION Index, $0^\circ \rightarrow 360^\circ$ Counter-Clockwise Rotation, Fast to Slow Stop Clockwise Rotation, Slow to Fast
15	15	15	000-127 128-189 190-193 194-255	BEAM 16-FACETS PRISM ROTATION Index, $0^\circ \rightarrow 360^\circ$ Counter-Clockwise Rotation, Fast to Slow Stop Clockwise Rotation, Slow to Fast
16	16	16	000-007 008-255	BEAM FROST Close Open
17	17	17	000-255	BEAM FOCUS $0\% \rightarrow 100\%$
18	18	18	000-255	BEAM FOCUS FINE
19	19	19	000-255	WASH ZOOM Narrow \rightarrow Wide
20			000-255	WASH RED $0\% \rightarrow 100\%$
21			000-255	WASH GREEN $0\% \rightarrow 100\%$
22			000-255	WASH BLUE $0\% \rightarrow 100\%$
23				WASH WHITE

			000-255	0%→100%
24			000 001-004 005-009 010-013 014-018 019-022 023-027 028-031 032-036 037-040 041-045 046-049 050-054 055-058 059-063 064-067 068-072 073-076 077-081 082-085 086-090 091-094 095-099 100-103 104-108 109-112 113-117 118-121 122-126 127-130 131-135 136-139 140-144 145-148 149-153 154-157 158-162 163-166 167-171 172-175 176-180 181-184 185-189 190-193 194-198	WASH CCT Null 8000K 7900K 7800K 7700K 7600K 7500K 7400K 7300K 7200K 7100K 7000K 6900K 6800K 6700K 6600K 6500K 6400K 6300K 6200K 6100K 6000K 5900K 5800K 5700K 5600K 5500K 5400K 5300K 5200K 5100K 5000K 4900K 4800K 4700K 4600K 4500K 4400K 4300K 4200K 4100K 4000K 3900K 3800K 3700K

			199-202 203-207 208-211 212-216 217-220 221-225 226-229 230-234 235-238 239-243 244-247 248-255	3600K 3500K 3400K 3300K 3200K 3100K 3000K 2900K 2800K 2700K 2600K 2500K
25			000-007 008-015 016-023 024-031 032-039 040-047 048-055 056-063 064-071 072-079 080-087 088-095 096-103 104-111 112-119 120-127 128-135 136-143 144-151 152-159 160-167 168-175 176-183 184-191 192-199 200-207 208-215 216-223 224-231 232-239 240-247 248-255	WASH COLOR MACRO Null Color 1 Color 2 Color 3 Color 4 Color 5 Color 6 Color 7 Color 8 Color 9 Color 10 Color 11 Color 12 Color 13 Color 14 Color 15 Color 16 Color 17 Color 18 Color 19 Color 20 Color 21 Color 22 Color 23 Color 24 Color 25 Color 26 Color 27 Color 28 Color 29 Color 30 Color 31
26			000-007	WASH EFFECT SELECT Null

			008-015 016-023 024-031 032-039 040-047 048-055 056-063 064-071 072-079 080-087 088-095 096-103 104-111 112-119 120-127 128-135 136-143 144-151 152-159 160-167 168-175 176-183 184-191 192-199 200-207 208-215 216-223 224-229 230-237 238-245 246-255	Ring 1 (outer ring) Ring 2 (inner ring) Built-in Effect 1 Built-in Effect 2 Built-in Effect 3 Built-in Effect 4 Built-in Effect 5 Built-in Effect 6 Built-in Effect 7 Built-in Effect 8 Built-in Effect 9 Built-in Effect 10 Built-in Effect 11 Built-in Effect 12 Built-in Effect 13 Built-in Effect 14 Built-in Effect 15 Built-in Effect 16 Built-in Effect 17 Built-in Effect 18 Built-in Effect 19 Built-in Effect 20 Built-in Effect 21 Built-in Effect 22 Built-in Effect 23 Built-in Effect 24 Built-in Effect 25 Built-in Effect 26 Rainbow 1 (inner ring) Rainbow 2 (outer ring) Rainbow 3 (inner ring + outer ring)
27			000 001-127 128 129-255	WASH EFFECT SPEED Null Slow to Fast without Fade Null Slow to Fast with Fade
19+ ch (Controlled by Art-Net)				
	20	1	000-255	WASH RED 1 0%→100%
	21	2	000-255	WASH GREEN 1 0%→100%
	22	3	000-255	WASH BLUE 1 0%→100%
	23	4	000-255	WASH WHITE 1 0%→100%
	24	5		WASH RED 2

			000-255	0%→100%
	25	6	000-255	WASH GREEN 2 0%→100%
	26	7	000-255	WASH BLUE 2 0%→100%
	27	8	000-255	WASH WHITE 2 0%→100%
	28	9	000-255	WASH RED 3 0%→100%
	29	10	000-255	WASH GREEN 3 0%→100%
	30	11	000-255	WASH BLUE 3 0%→100%
	31	12	000-255	WASH WHITE 3 0%→100%
	32	13	000-255	WASH RED 4 0%→100%
	33	14	000-255	WASH GREEN 4 0%→100%
	34	15	000-255	WASH BLUE 4 0%→100%
	35	16	000-255	WASH WHITE 4 0%→100%
	36	17	000-255	WASH RED 5 0%→100%
	37	18	000-255	WASH GREEN 5 0%→100%
	38	19	000-255	WASH BLUE 5 0%→100%
	39	20	000-255	WASH WHITE 5 0%→100%
	40	21	000-255	WASH RED 6 0%→100%
	41	22	000-255	WASH GREEN 6 0%→100%
	42	23	000-255	WASH BLUE 6 0%→100%
	43	24	000-255	WASH WHITE 6 0%→100%
	44	25	000-255	WASH RED 7 0%→100%
	45	26	000-255	WASH GREEN 7 0%→100%

	46	27	000-255	WASH BLUE 7 0%→100%
	47	28	000-255	WASH WHITE 7 0%→100%
	48	29	000-255	WASH RED 8 0%→100%
	49	30	000-255	WASH GREEN 8 0%→100%
	50	31	000-255	WASH BLUE 8 0%→100%
	51	32	000-255	WASH WHITE 8 0%→100%
	52	33	000-255	WASH RED 9 0%→100%
	53	34	000-255	WASH GREEN 9 0%→100%
	54	35	000-255	WASH BLUE 9 0%→100%
	55	36	000-255	WASH WHITE 9 0%→100%
	56	37	000-255	WASH RED 10 0%→100%
	57	38	000-255	WASH GREEN 10 0%→100%
	58	39	000-255	WASH BLUE 10 0%→100%
	59	40	000-255	WASH WHITE 10 0%→100%
	60	41	000-255	WASH RED 11 0%→100%
	61	42	000-255	WASH GREEN 11 0%→100%
	62	43	000-255	WASH BLUE 11 0%→100%
	63	44	000-255	WASH WHITE 11 0%→100%
	64	45	000-255	WASH RED 12 0%→100%
	65	46	000-255	WASH GREEN 12 0%→100%
	66	47	000-255	WASH BLUE 12 0%→100%
	67	48	000-255	WASH WHITE 12 0%→100%

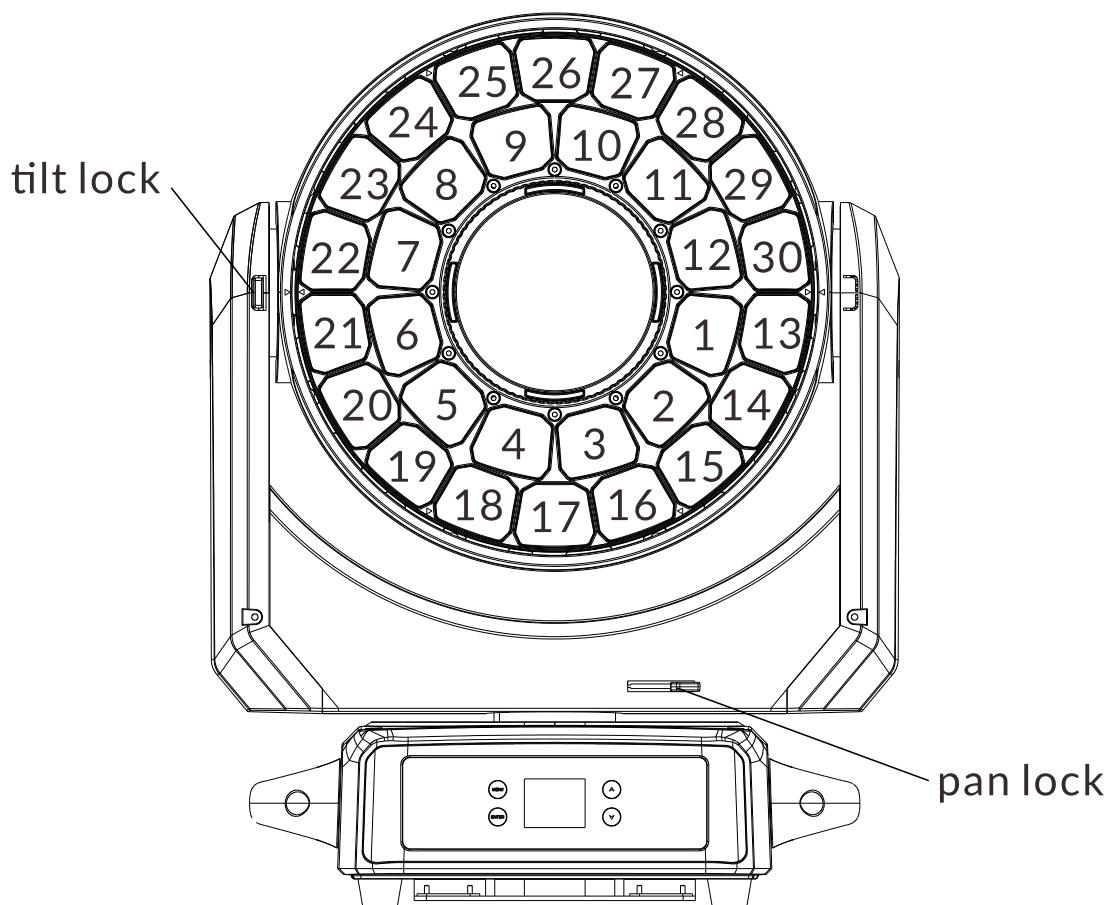
	68	49	000-255	WASH RED 13 0%→100%
	69	50	000-255	WASH GREEN 13 0%→100%
	70	51	000-255	WASH BLUE 13 0%→100%
	71	52	000-255	WASH WHITE 13 0%→100%
	72	53	000-255	WASH RED 14 0%→100%
	73	54	000-255	WASH GREEN 14 0%→100%
	74	55	000-255	WASH BLUE 14 0%→100%
	75	56	000-255	WASH WHITE 14 0%→100%
	76	57	000-255	WASH RED 15 0%→100%
	77	58	000-255	WASH GREEN 15 0%→100%
	78	59	000-255	WASH BLUE 15 0%→100%
	79	60	000-255	WASH WHITE 15 0%→100%
	80	61	000-255	WASH RED 16 0%→100%
	81	62	000-255	WASH GREEN 16 0%→100%
	82	63	000-255	WASH BLUE 16 0%→100%
	83	64	000-255	WASH WHITE 16 0%→100%
	84	65	000-255	WASH RED 17 0%→100%
	85	66	000-255	WASH GREEN 17 0%→100%
	86	67	000-255	WASH BLUE 17 0%→100%
	87	68	000-255	WASH WHITE 17 0%→100%
	88	69	000-255	WASH RED 18 0%→100%
	89	70	000-255	WASH GREEN 18 0%→100%

	90	71	000-255	WASH BLUE 18 0%→100%
	91	72	000-255	WASH WHITE 18 0%→100%
	92	73	000-255	WASH RED 19 0%→100%
	93	74	000-255	WASH GREEN 19 0%→100%
	94	75	000-255	WASH BLUE 19 0%→100%
	95	76	000-255	WASH WHITE 19 0%→100%
	96	77	000-255	WASH RED 20 0%→100%
	97	78	000-255	WASH GREEN 20 0%→100%
	98	79	000-255	WASH BLUE 20 0%→100%
	99	80	000-255	WASH WHITE 20 0%→100%
	100	81	000-255	WASH RED 21 0%→100%
	101	82	000-255	WASH GREEN 21 0%→100%
	102	83	000-255	WASH BLUE 21 0%→100%
	103	84	000-255	WASH WHITE 21 0%→100%
	104	85	000-255	WASH RED 22 0%→100%
	105	86	000-255	WASH GREEN 22 0%→100%
	106	87	000-255	WASH BLUE 22 0%→100%
	107	88	000-255	WASH WHITE 22 0%→100%
	108	89	000-255	WASH RED 23 0%→100%
	109	90	000-255	WASH GREEN 23 0%→100%
	110	91	000-255	WASH BLUE 23 0%→100%
	111	92	000-255	WASH WHITE 23 0%→100%

	112	93	000-255	WASH RED 24 0%→100%
	113	94	000-255	WASH GREEN 24 0%→100%
	114	95	000-255	WASH BLUE 24 0%→100%
	115	96	000-255	WASH WHITE 24 0%→100%
	116	97	000-255	WASH RED 25 0%→100%
	117	98	000-255	WASH GREEN 25 0%→100%
	118	99	000-255	WASH BLUE 25 0%→100%
	119	100	000-255	WASH WHITE 25 0%→100%
	120	101	000-255	WASH RED 26 0%→100%
	121	102	000-255	WASH GREEN 26 0%→100%
	122	103	000-255	WASH BLUE 26 0%→100%
	123	104	000-255	WASH WHITE 26 0%→100%
	124	105	000-255	WASH RED 27 0%→100%
	125	106	000-255	WASH GREEN 27 0%→100%
	126	107	000-255	WASH BLUE 27 0%→100%
	127	108	000-255	WASH WHITE 27 0%→100%
	128	109	000-255	WASH RED 28 0%→100%
	129	110	000-255	WASH GREEN 28 0%→100%
	130	111	000-255	WASH BLUE 28 0%→100%
	131	112	000-255	WASH WHITE 28 0%→100%
	132	113	000-255	WASH RED 29 0%→100%
	133	114	000-255	WASH GREEN 29 0%→100%

	134	115	000-255	WASH BLUE 29 0%→100%
	135	116	000-255	WASH WHITE 29 0%→100%
	136	117	000-255	WASH RED 30 0%→100%
	137	118	000-255	WASH GREEN 30 0%→100%
	138	119	000-255	WASH BLUE 30 0%→100%
	139	120	000-255	WASH WHITE 30 0%→100%

LED PIXEL ZONES:



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/I/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.

Color Cal Err

- 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.

Led Temp. 1/2/3/4 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

Wash Too Hot Off

When leds' temperature reaches 83°C, they will automatically turn off to protect the fixture.

Beam Too Hot Off

When the beam temperature reaches 75°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.

Color Reset Error

- Check whether the position of the color wheel where the magnet is installed falls off or is damaged.
- Check whether there are obstacles in the color wheel operating range.
- Check whether the Hall element on the color wheel is damaged.
- Check whether the lead connecting the Hall element on the color wheel and the PCB board is in poor contact or disconnected.
- Check whether the motor on the color wheel is damaged.
- Check whether the related circuit of the motor drive board on the color wheel is damage.

Gobo Reset Error

- Check whether the position of the gobo wheel where the magnet is installed falls off or is damaged.
- Check whether there are obstacles in the gobo wheel operating range.
- Check whether the Hall element on the gobo wheel is damaged.
- Check whether the lead connecting the Hall element on the gobo wheel and the PCB board is in poor contact or disconnected.
- Check whether the motor on the gobo wheel is damaged.
- Check whether the related circuit of the motor drive board on the gobo wheel is damage.

8 Prism/16 Prism Reset Error

Check whether the position of the 8 prism/16 prism where the magnet is installed falls off or is damaged.

Check whether there are obstacles in the 8 prism/16 prism operating range.

Check whether the Hall element on the 8 prism/16 prism is damaged.

Check whether the lead connecting the Hall element on the 8 prism/16 prism and the PCB board is in poor contact or disconnected.

Check whether the motor on the 8 prism/16 prism is damaged.

Check whether the related circuit of the motor drive board on the 8

8 R-Prism/16 R-Prism Reset Error

Check whether the position of the 8 prism/16 prism where the magnet is installed falls off or is damaged.

Check whether there are obstacles in the 8 prism/16 prism operating range.

Check whether the Hall element on the 8 prism/16 prism is damaged.

Check whether the lead connecting the Hall element on the 8 prism/16 prism and the PCB board is in poor contact or disconnected.

Check whether the motor on the 8 prism/16 prism is damaged.

Check whether the related circuit of the motor drive board on the 8

Frost Reset Error

- Check whether the position of the frost where the magnet is installed falls off or is damaged.
- Check whether there are obstacles in the frost operating range.
- Check whether the Hall element on the frost is damaged.
- Check whether the lead connecting the Hall element on the frost and the PCB board is in poor contact or disconnected.
- Check whether the motor on the frost is damaged.
- Check whether the related circuit of the motor drive board on the frost is damage.

Focus Reset Error

- Check whether the position of the focus where the magnet is installed falls off or is damaged.
- Check whether there are obstacles in the focus operating range.
- Check whether the Hall element on the focus is damaged.
- Check whether the lead connecting the Hall element on the focus and the PCB board is in poor contact or disconnected.
- Check whether the motor on the focus is damaged.
- Check whether the related circuit of the motor drive board on the focus is damage.

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.

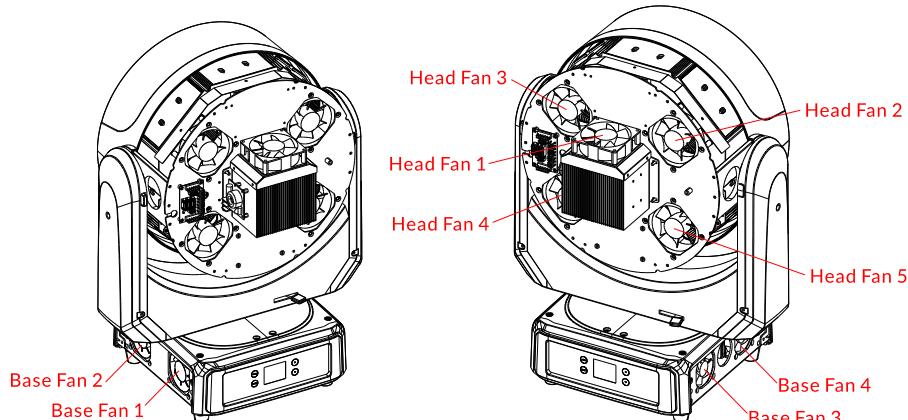
BaseFan1/2/3/4 Start Error

- 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.

HeadFan1/2/3/4/5 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.

Position of cooling fans:



09/ Troubleshooting

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

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

- ▶ Check the connected power.
- ▶ Measure the voltage.
- ▶ Check the power indicator to see whether it can be lit up or not.

B. Not responding to the DMX controller

- ▶ Check whether the DMX connectors and the DMX cables are connected correctly.
- ▶ Check whether the DMX address is correctly set.
- ▶ If the intermittent DMX signal problem occurs, check whether the XLR socket and the signal cable are well connected.
- ▶ Try it with another DMX controller.
- ▶ Check whether the DMX cables run near or alongside to the high-voltage cables, which may damage or interfere with the signal circuit.

C. One of the channels is not working well

- ▶ The stepper motor might be damaged or the cable connected to the PCB might be broken.
- ▶ The motor's drive IC on the PCB might be out of condition.

10/ Fixture Cleaning

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

- ▶ A soft lint-free cloth moistened with any good glass cleaning fluid is recommended, under no circumstances should solvents be used.
- ▶ Always dry the parts carefully.
- ▶ Clean the external optical lens at least every 20 days.

Declaration of Conformity

We declare that our products (lighting equipments) comply with the following specification and bears CE mark in accordance with the provision of the Electromagnetic Compatibility (EMC) Directive 2014/30/EU.

EN 55032: 2015+A1: 2020; EN 55035: 2017+A11: 2020;
EN IEC 61000-3-2: 2019+A1: 2021;
EN 61000-3-3: 2013+A3: 2021.

& **Harmonized Standard**

EN IEC 60598-2-17: 2018;
EN IEC 60598-1: 2021+A11: 2022.
Safety of household and similar electrical appliances
Part 1: General requirements and tests

Certifications
cETLus Approved (Control #5000057)

