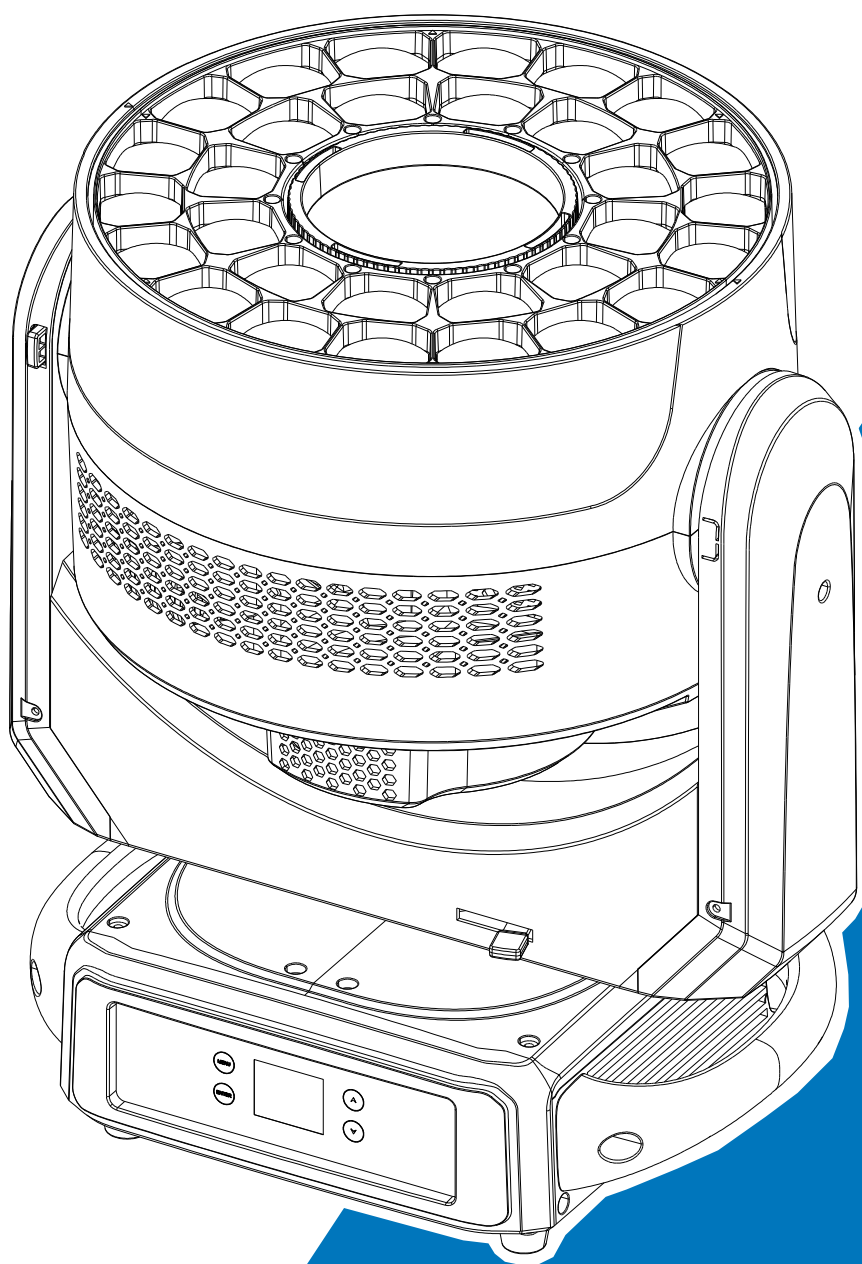


# Acme<sup>®</sup>

## THETA



## User Manual

Please read the instruction carefully before use

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## 01/ Safety Information



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

### WARNING

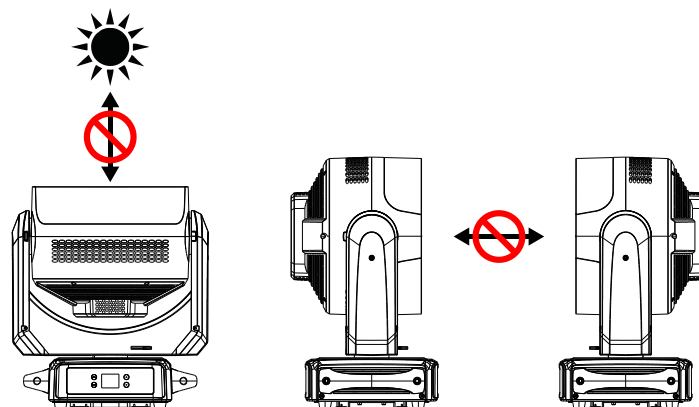
Please keep this User Manual for future consultation. If you sell the unit to another user, be sure that they also receive this instruction manual.

#### Important:

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

- Unpack and check carefully to ensure that there is no transportation damage before using the unit.
- This product is for indoor use only. Use only in a dry location.
- DO install and operate by qualified operator.
- DO NOT allow children to operate the fixture.
- Use safety chain when fixing the unit. Handle the unit by carrying its base instead of head only.
- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces.
- Be sure that no ventilation slots is blocked, otherwise the unit will be overheated.
- Before operation, ensure that you are connecting this product to the proper voltage in accordance with the specifications in this manual or on the product's specification label.
- It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
- Minimum ambient temperature TA: 0°C. Maximum ambient temperature TA: 40°C. Do not operate this product at a lower or higher temperature.
- DO NOT connect the device to any dimmer pack.
- Keep flammable materials away from the fixture while operating to avoid fire hazard.
- Make sure the power cord is not crimped or damaged; replace it immediately if damaged.
- Unit's surface temperature may reach up to 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.
- 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

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

Veillez 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): 0°C. Température ambiante maximale (TA): 40°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.

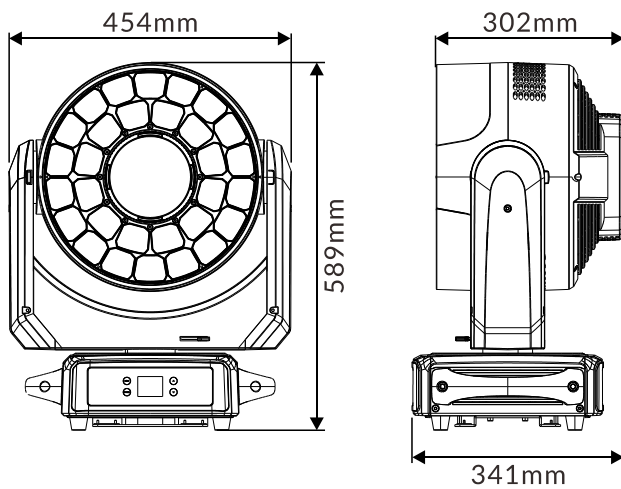
- Vérifier que le cordon d'alimentation n'est ni écrasé ni endommagé; le remplacer immédiatement s'il est endommagé.
- La température de surface de l'appareil peut atteindre jusqu'à 65°C. NE PAS toucher le boîtier à mains nues pendant son fonctionnement.
- Évitez que des liquides inflammables, de l'eau 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

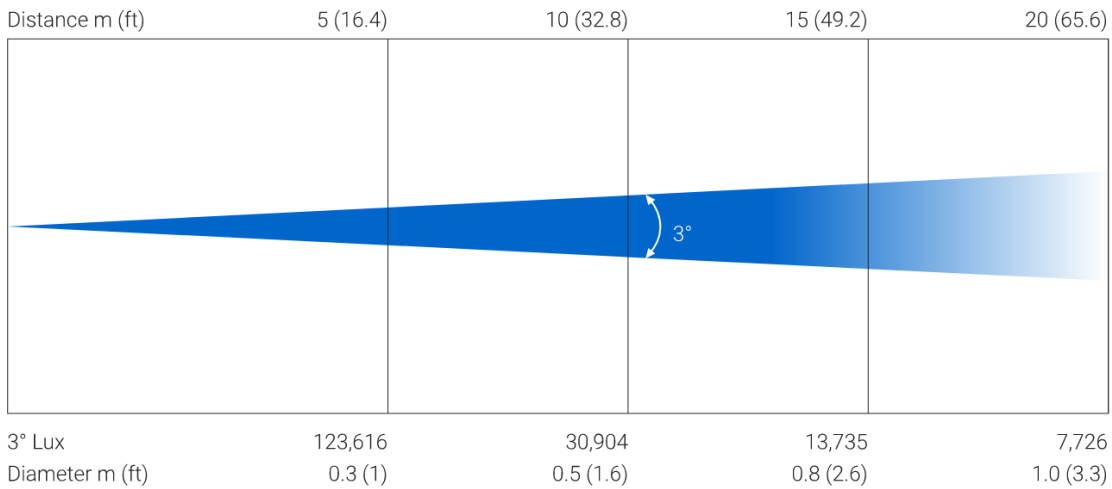
|                         |                                                                                           |                              |
|-------------------------|-------------------------------------------------------------------------------------------|------------------------------|
| AC Power                | 100-240Vac; 50/60Hz                                                                       |                              |
| Max. Power Consumption  | 1600W                                                                                     |                              |
| Light Source            | 1x200W CW LED                                                                             |                              |
|                         | 30x40W RGBW LED                                                                           |                              |
| Beam Angle              | 3°                                                                                        |                              |
| Zoom Range              | 4°-51°                                                                                    |                              |
| Color Wheel             | 13 colors + open                                                                          |                              |
| Gobo Wheel              | Static Gobo Wheel                                                                         | 9 gobos + open               |
| Movement                | Pan                                                                                       | 540°                         |
|                         | Tilt                                                                                      | 210°                         |
|                         | 16 bit movement resolution                                                                |                              |
|                         | Automatic pan/tilt repositioning                                                          |                              |
|                         | Mechanical pan/tilt lock for safe transportation and maintenance                          |                              |
| Control and Programming | DMX Channels                                                                              | 27/139/19+/141/29            |
|                         | Protocols                                                                                 | DMX512                       |
|                         |                                                                                           | RDM                          |
|                         |                                                                                           | Art-Net                      |
|                         |                                                                                           | sACN                         |
|                         | Firmware Update                                                                           | via DMX or USB memory device |
| Construction            | Display                                                                                   | LCD display                  |
|                         | Battery backup for user setup without mains connection                                    |                              |
|                         | DMX and RDM Data In/Out                                                                   | 3/5-pin XLR                  |
|                         |                                                                                           | RJ45 Connectors              |
|                         | Power In/Out                                                                              | Power Connector in           |
| Dynamic Effects         | Protection Rating                                                                         | IP20                         |
|                         | 0-100% continuous dimming and strobe effects                                              |                              |
|                         | Choice of four dimming curves                                                             |                              |
|                         | Prisms: two indexing/rotating prisms (8-facet circular prism and 16-facet circular prism) |                              |
|                         | Frost: Variable 0%-100%                                                                   |                              |
|                         | Motorized focus                                                                           |                              |
|                         | Motorized zoom                                                                            |                              |
|                         | Variable color temperature control                                                        |                              |

|                       |                                                                |                   |
|-----------------------|----------------------------------------------------------------|-------------------|
|                       | Outstanding color mixing                                       |                   |
|                       | With color correction system to ensure consistent color output |                   |
|                       | Powerful beam and wash effects                                 |                   |
| <b>Included Items</b> | Power Cable                                                    |                   |
|                       | Two omega brackets with 1/4-turn fasteners                     |                   |
|                       | User Manual (this document)                                    |                   |
| <b>Dimensions</b>     | 454x341x589mm                                                  | 17.9"x13.4"x23.2" |
| <b>Weight</b>         | 34 kg                                                          | 75 lbs            |

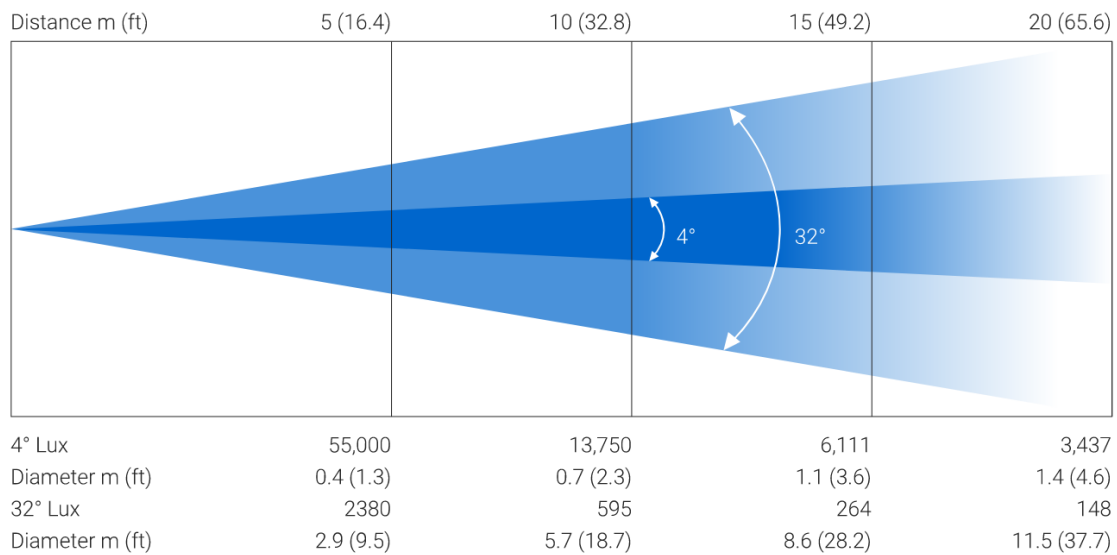


**Photometric Diagram:**

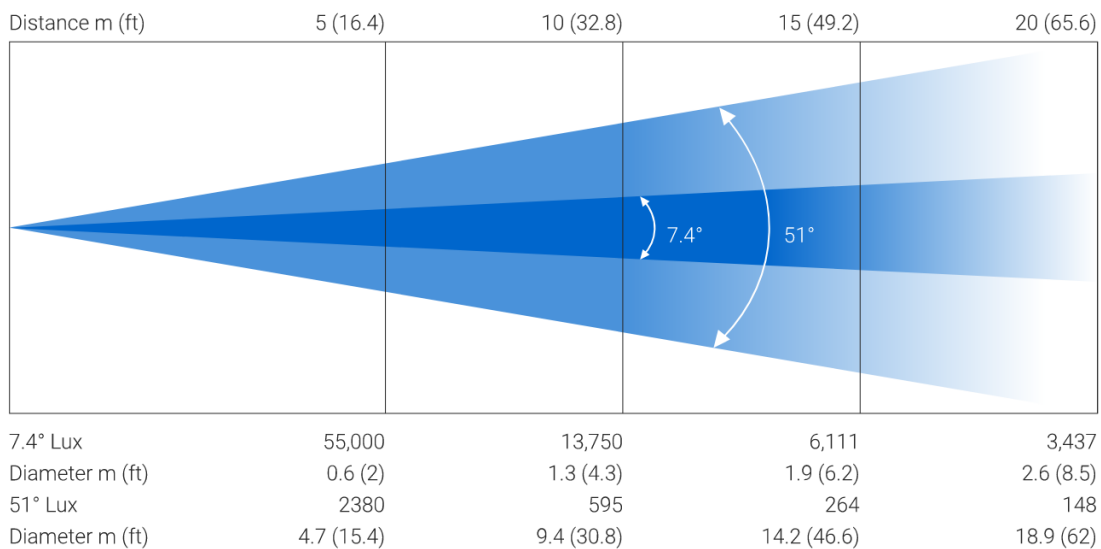
Beam Angle (1 x 200W LED):



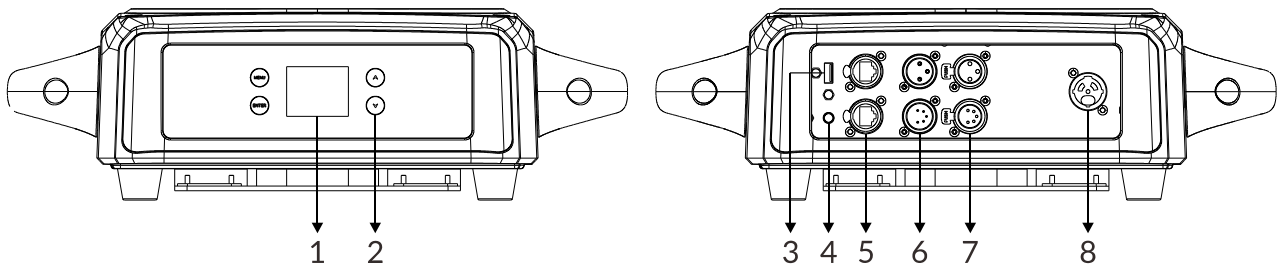
Beam Angle (30 x 40W RGBW LED):



Field Angle (30 x 40W RGBW LED):



## 03/ Overview



|                     |                                                                                                |                                               |
|---------------------|------------------------------------------------------------------------------------------------|-----------------------------------------------|
| 1. Display          | To show the various menus and the selected function                                            |                                               |
| 2. Buttons          | MENU                                                                                           | To enter into move backward or leave the menu |
|                     | ▲ UP                                                                                           | To go backward to move up in the menu         |
|                     | ▼ DOWN                                                                                         | To go forward to move down in the menu        |
|                     | ENTER                                                                                          | To perform the desired functions              |
| 3. 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                                                                     |                                               |

### 3.1 Battery Power

This product contains a rechargeable battery.

Battery type: 18650 Lithium-ion battery (3.7V, 2200mAh, 8.14Wh), compliant with the new EU battery regulation EU2023/1542.



Do not expose the fixture or battery to excessive temperatures.

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

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

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

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

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

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

Do not use modified or damaged batteries.

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

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

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

#### **Using the control panel with battery power:**

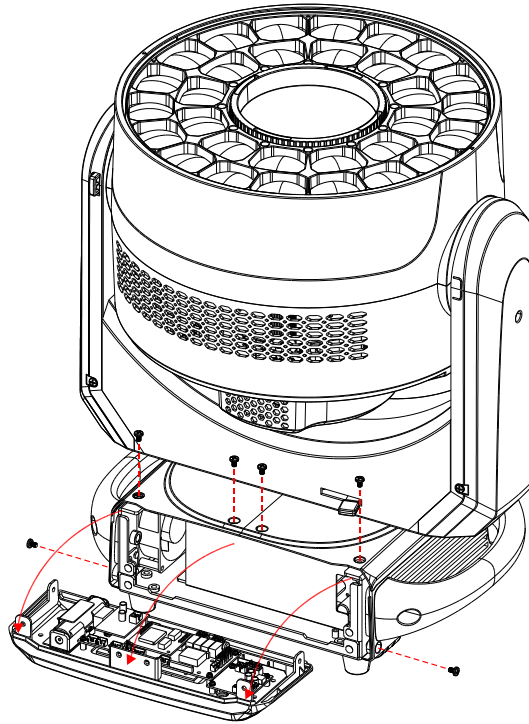
The fixture contains a battery that enables you to use the control panel to set up the fixture even when it is not connected to the main power supply. The battery charges during fixture operation. All of the main setup options in the control panel are accessible on battery power, but the 'Fixture Test'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

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

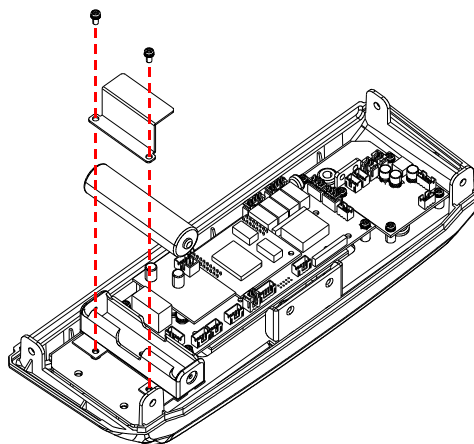
**Battery Replacement:**

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

1. Disconnect the fixture from AC mains power and allow to cool.
2. Remove six screws in the front panel of the fixture base and remove the front panel.



3. Remove two screws of the battery bracket that holds the battery in place and remove the battery bracket.
4. Remove the exhausted battery and insert a new one (only the same type) into the battery holder (Negative (-) towards the spring, Positive (+) away from the spring).



5. Reinstall the battery bracket and the front panel and check that it is close securely before reapplying power.

## 04/ Connecting Power and Data

### 4.1 Connecting Power

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

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

The maximum power consumption is 1600W.

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 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).

#### **CAUTION!**

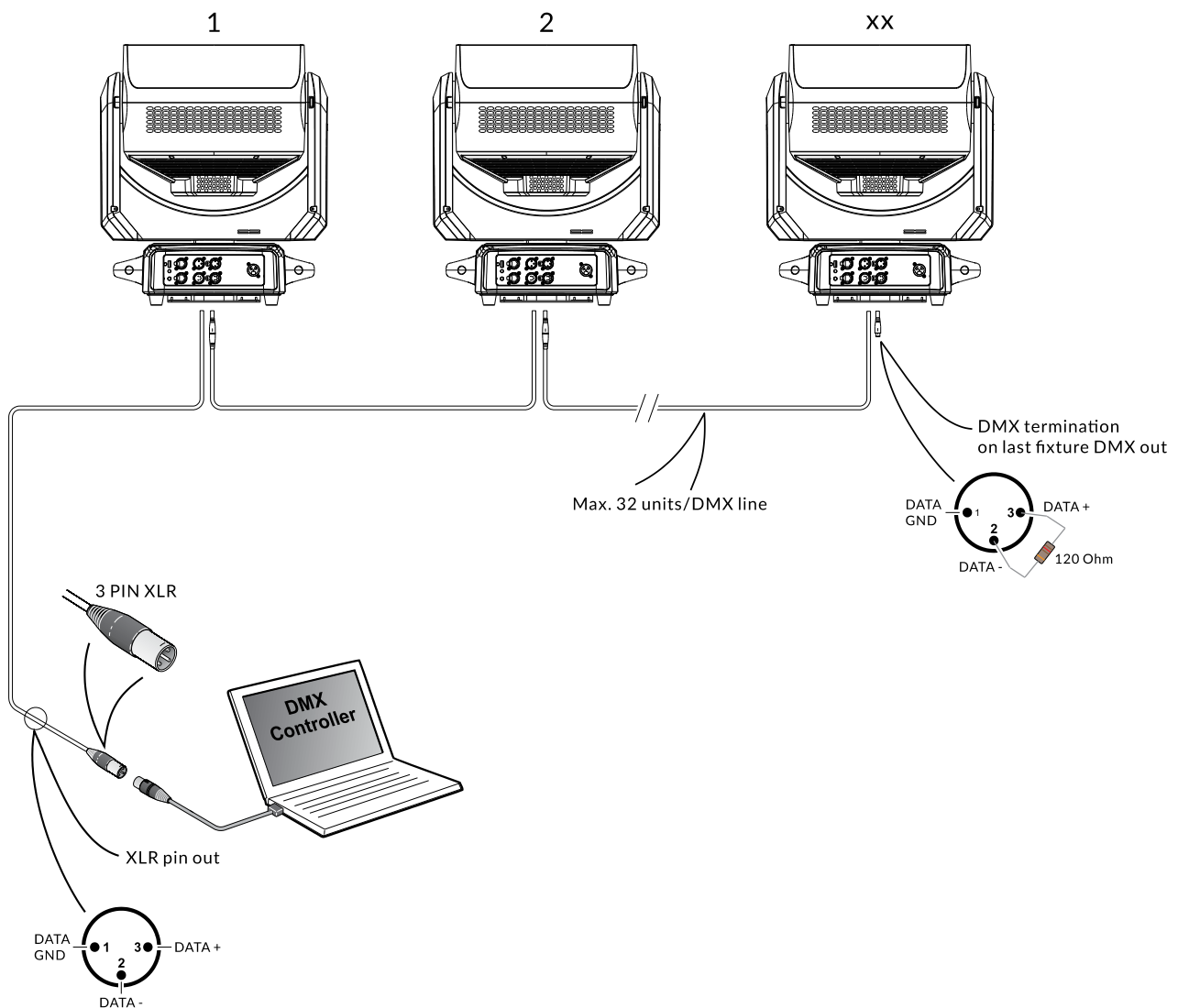
**DO NOT CONNECT THE FIXTURE TO AN ELECTRICAL DIMMER SYSTEM AS DOING SO MAY CAUSE DAMAGE.**

## 4.2 Connecting Data

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

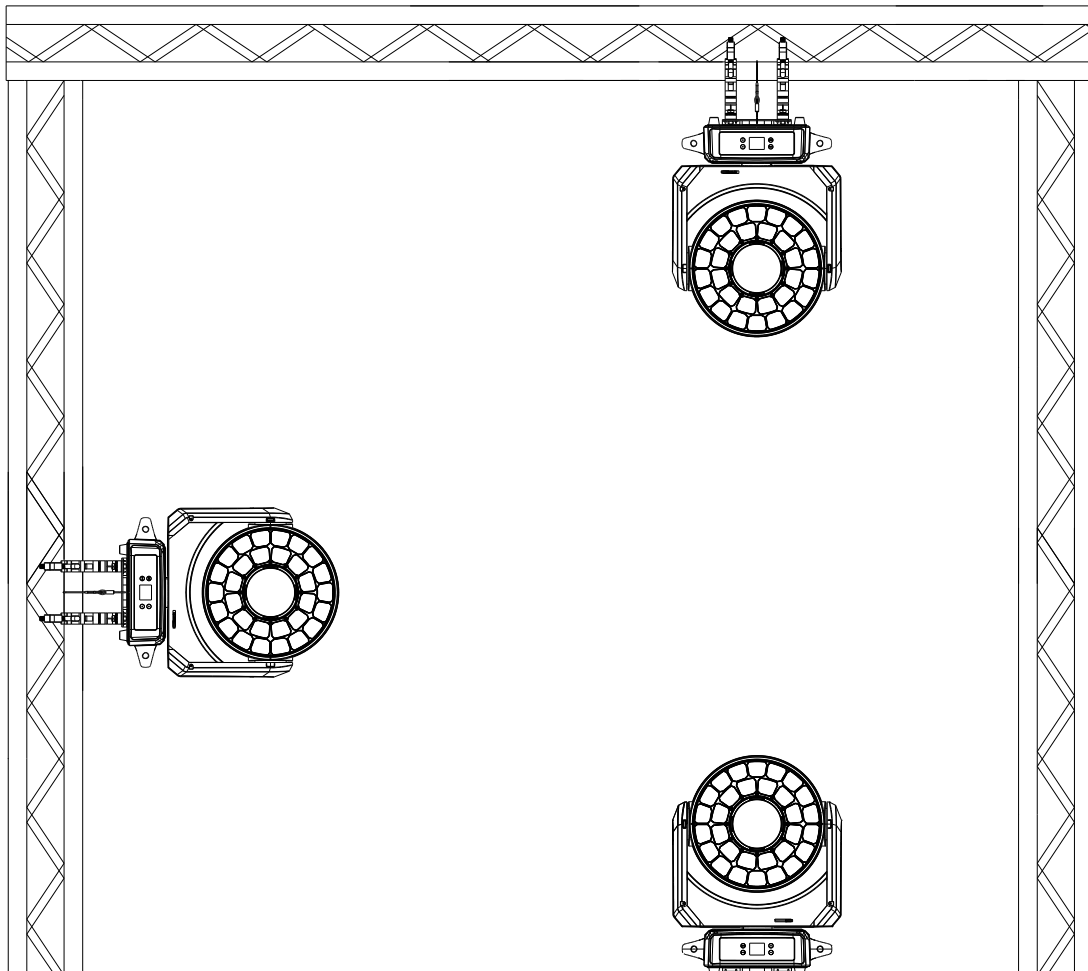
### Building a serial DMX chain:

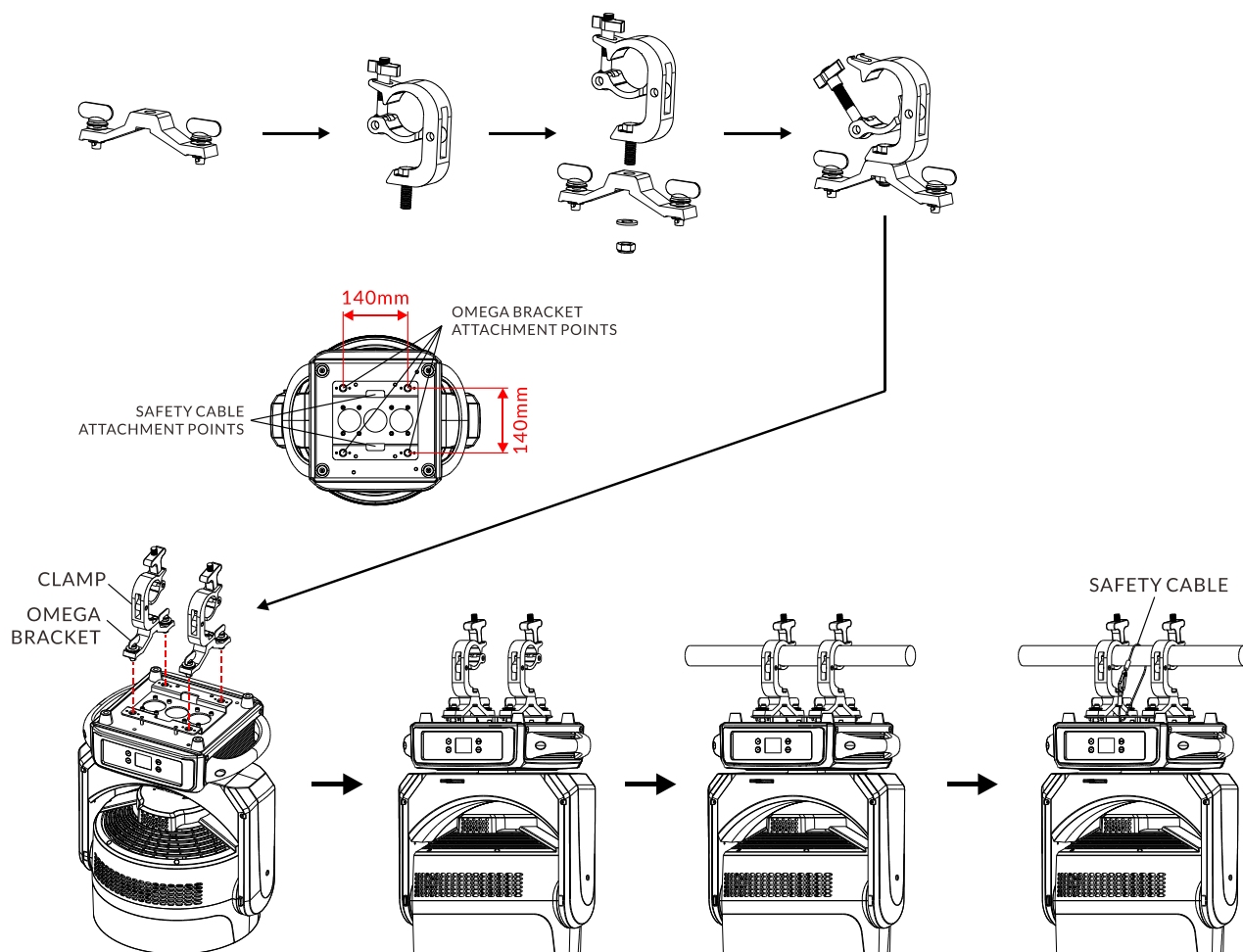
Connect the DMX data output from the controller to the fixture's data input socket. Connect the DMX output of the first fixture in the DMX chain with the DMX input of the next fixture. Always connect one output with the input of the next fixture until all fixtures are connected. Up to 32 fixtures can 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.



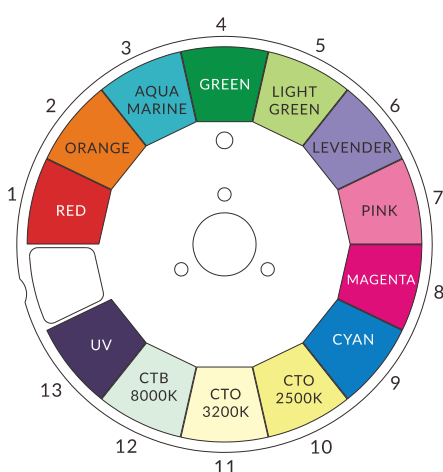
## 05/ Fixture Installation

- ▶ 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 that can hold at least 12 times the weight of the fixture whenever installing this fixture in a suspended environment to ensure that the fixture will not fall if the clamp fails.
- ▶ This fixture is fully operational in three different mounting positions: hanging upside-down, mounted sideways on trussing, or standing on the floor. Always use and install a safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.

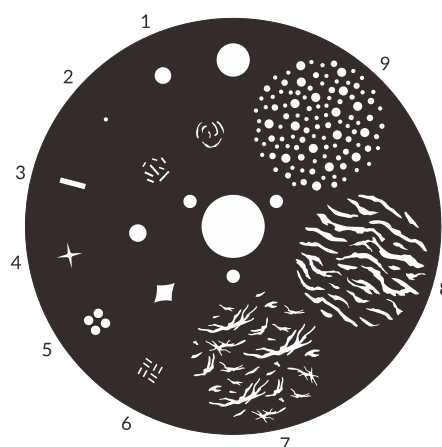




## 06/ Effect Wheels



Color Wheel



Static Gobo Wheel

### DANGER!

Replace the color wheel / gobo wheel with the device switched off only.  
Unplug from mains before replacing the color wheel / gobo wheel!

## 07/ Operation

### 7.1 Control Menu

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

The main functions are shown below:

| MAIN MENU    | SUBMENU          | CHOICES/VALUES |                           |             |
|--------------|------------------|----------------|---------------------------|-------------|
| DMX Settings | Port A Address   | 1-486 (27 CH)  |                           | (Default=1) |
|              |                  | 1-374 (139 CH) |                           |             |
|              |                  | 1-494 (19+ CH) |                           |             |
|              |                  | 1-372 (141 CH) |                           |             |
|              |                  | 1-484 (29 CH)  |                           |             |
|              | Port B Address   | 1-393 (19+ CH) |                           | (Default=1) |
|              | DMX Channel Mode | Mode 1 (27)    |                           |             |
|              |                  | Mode 2 (139)   |                           |             |
|              |                  | Mode 3 (19+)   |                           |             |
|              |                  | Mode 4 (141)   |                           |             |
|              |                  | Mode 5 (29)    |                           |             |
|              | No DMX Status    | Blackout       |                           |             |
|              |                  | Hold           |                           |             |
|              |                  | Manual         |                           |             |
|              | View DMX Value   |                |                           |             |
|              | Connect Option   | Auto           |                           |             |
|              |                  | DMX            |                           |             |
|              |                  | Art-Net        |                           |             |
|              |                  | sACN           |                           |             |
|              | Network          | IP Address     | Default 1:002.xxx.xxx.xxx |             |
|              |                  |                | Default 2:010.xxx.xxx.xxx |             |
|              |                  |                | Manual:xxx.xxx.xxx.xxx    |             |
|              |                  | Sub-Net Mask   | xxx.xxx.xxx.xxx           |             |
|              | Art-Net Settings | Net            | 0-127                     | (Default=0) |
|              |                  | Sub-Net        | 0-15                      | (Default=0) |
|              |                  | Universe A     | 0-15                      | (Default=0) |
|              |                  | Universe B     | 0-15                      | (Default=0) |
|              |                  |                |                           |             |

| MAIN MENU        | SUBMENU        | CHOICES/VALUES   |         |               |
|------------------|----------------|------------------|---------|---------------|
|                  | 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              |         |               |
|                  | Dimmer Curve   | Linear           |         |               |
|                  |                | Square Law       |         |               |
|                  |                | Inv SQ Law       |         |               |
|                  |                | S Curve          |         |               |
|                  | Dimmer Speed   | Fast             |         |               |
|                  |                | Smooth           |         |               |
|                  | 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 |               |
|                  |                |                  |         |               |

| MAIN MENU        | SUBMENU             | CHOICES/VALUES |              |  |
|------------------|---------------------|----------------|--------------|--|
|                  | 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 Settings | Display Invert      | No             |              |  |
|                  |                     | Yes            |              |  |
|                  | Backlight Intensity | 1-10           | (Default=10) |  |
|                  | Temperature Unit    | °C             |              |  |
|                  |                     | °F             |              |  |
|                  |                     |                |              |  |

| MAIN MENU    | SUBMENU     | CHOICES/VALUES |        |             |        |
|--------------|-------------|----------------|--------|-------------|--------|
| Fixture Test | Auto Test   | Single         |        |             |        |
|              |             | Cycle          |        |             |        |
|              | Manual Test | Mode 1         |        | Mode 2      |        |
|              |             | Clear          | No/Yes | Clear       | No/Yes |
|              |             | Pan            | 0-255  | Pan         | 0-255  |
|              |             | Tilt           | 0-255  | Tilt        | 0-255  |
|              |             | 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  |
|              |             | 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  |
|              |             | 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  |
|              |             | Blue 30        | 0-255  | Macro Speed | 0-255  |
|              |             | White 30       | 0-255  |             |        |

| MAIN MENU           | SUBMENU          | CHOICES/VALUES  |              |         |     |
|---------------------|------------------|-----------------|--------------|---------|-----|
| Fixture Information | Fixture Use Hour |                 |              |         |     |
|                     | LED Use Hour     | Total LED Hour  |              |         |     |
|                     |                  | LED On Hour     |              |         |     |
|                     |                  | LED Hours Reset | Password=050 |         |     |
|                     | Temperature      | LED's           |              | Current | Max |
|                     |                  |                 | 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       |
| Mode 4 (141) | 1-372       |
| Mode 5 (29)  | 1-484       |

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)**, **Mode 3 (19+)**, **Mode 4 (141)** and **Mode 5 (29)**, 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.

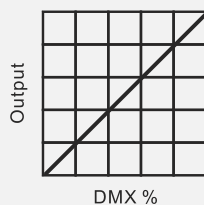
To exit the menu, press MENU, or wait 30 seconds.

## Dimmer Curve

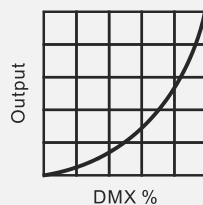
Select **Dimmer Curve**, press ENTER.

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

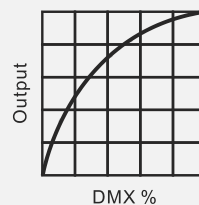
### Dimmer Modes



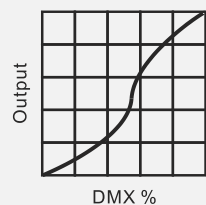
Optically Linear



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<br>'Discovery' | Command<br>'Set' | Command<br>'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

## 7.2 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      | 0~255     |
| Zoom          | -128~127  |
| Red           | 0~255     |
| Green         | 0~255     |
| Blue          | 0~255     |
| White         | 0~255     |
| Red 1         | 0~255     |
| Green 1       | 0~255     |
| Blue 1        | 0~255     |
| White 1       | 0~255     |
| .....         | .....     |
| Red 30        | 0~255     |
| Green 30      | 0~255     |
| Blue 30       | 0~255     |
| White 30      | 0~255     |

## 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 255, 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 255, 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 255, 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 255, 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 255, 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 255, 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 255, 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 255, 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 255, 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 255, 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 255, 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 255, 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 255, confirm your selection with ENTER.

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

## 08/ Configuring the Device for DMX Control

### 8.1 Address Setting

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

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

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

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

For example, if the first fixture is set to 27 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 28. As the first fixture uses all the first 27 DMX channels, the next available channel is 28 ( $27+1=28 >> 28$ ).

See the chart below for more details:

| Channel Mode                            | Unit 1 Address | Unit 2 Address | Unit 3 Address | Unit 4 Address | Unit xxx Address |
|-----------------------------------------|----------------|----------------|----------------|----------------|------------------|
| 27 channels                             | 1              | 28             | 55             | 82             | .....            |
| 139 channels                            | 1              | 140            | 279            | 418            | .....            |
| 19+ channels<br>(Controlled by DMX)     | 1              | 20             | 39             | 58             | .....            |
| 19+ channels<br>(Controlled by Art-Net) | 1              | 121            | 241            | 361            | .....            |
| 141 channels                            | 1              | 142            | 283            | 424            | .....            |
| 29 channels                             | 1              | 30             | 59             | 88             | .....            |

## 8.2 DMX Protocol

| CHANNEL |       |       |       |      | VALUE                      | FUNCTION                                                                                                                                                                                                        |
|---------|-------|-------|-------|------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 27ch    | 139ch | 19+ch | 141ch | 29ch |                            |                                                                                                                                                                                                                 |
|         |       |       |       |      | 19+ ch (Controlled by DMX) |                                                                                                                                                                                                                 |
| 1       | 1     | 1     | 1     | 1    | 000-255                    | PAN<br>0°→540°                                                                                                                                                                                                  |
| 2       | 2     | 2     | 2     | 2    | 000-255                    | PAN FINE                                                                                                                                                                                                        |
| 3       | 3     | 3     | 3     | 3    | 000-255                    | TILT<br>0°→210°                                                                                                                                                                                                 |
| 4       | 4     | 4     | 4     | 4    | 000-255                    | TILT FINE                                                                                                                                                                                                       |
| 5       | 5     | 5     | 5     | 5    | 000-255                    | PAN/TILT SPEED<br>Fast to Slow                                                                                                                                                                                  |
| 6       | 6     | 6     |       |      | 000-255                    | DIMMER (BEAM & WASH)<br>0%→100%                                                                                                                                                                                 |
| 7       | 7     | 7     | 6     | 6    | 000-007                    | BEAM STROBE<br>Close<br>Open<br>Strobe from Slow to Fast<br>Open<br>Fast Open Slow Close from Slow to Fast<br>Open<br>Slow Open Fast Close from Slow to Fast<br>Open<br>Random Strobe from Slow to Fast<br>Open |
|         |       |       |       |      | 008-015                    |                                                                                                                                                                                                                 |
|         |       |       |       |      | 016-131                    |                                                                                                                                                                                                                 |
|         |       |       |       |      | 132-139                    |                                                                                                                                                                                                                 |
|         |       |       |       |      | 140-181                    |                                                                                                                                                                                                                 |
|         |       |       |       |      | 182-189                    |                                                                                                                                                                                                                 |
|         |       |       |       |      | 190-231                    |                                                                                                                                                                                                                 |
|         |       |       |       |      | 232-239                    |                                                                                                                                                                                                                 |
|         |       |       |       |      | 240-247                    |                                                                                                                                                                                                                 |
|         |       |       |       |      | 248-255                    |                                                                                                                                                                                                                 |
| 10      | 10    | 10    | 7     | 7    | 000-255                    | BEAM DIMMER<br>0%→100%                                                                                                                                                                                          |
|         |       |       | 8     | 8    | 000-255                    | BEAM DIMMER FINE                                                                                                                                                                                                |
| 8       | 8     | 8     | 9     | 9    | 000-007                    | WASH STROBE<br>Close<br>Open<br>Strobe from Slow to Fast<br>Open<br>Fast Open Slow Close from Slow to Fast<br>Open<br>Slow Open Fast Close from Slow to Fast<br>Open<br>Random Strobe from Slow to Fast<br>Open |
|         |       |       |       |      | 008-015                    |                                                                                                                                                                                                                 |
|         |       |       |       |      | 016-131                    |                                                                                                                                                                                                                 |
|         |       |       |       |      | 132-139                    |                                                                                                                                                                                                                 |
|         |       |       |       |      | 140-181                    |                                                                                                                                                                                                                 |
|         |       |       |       |      | 182-189                    |                                                                                                                                                                                                                 |
|         |       |       |       |      | 190-231                    |                                                                                                                                                                                                                 |
|         |       |       |       |      | 232-239                    |                                                                                                                                                                                                                 |
|         |       |       |       |      | 240-247                    |                                                                                                                                                                                                                 |
|         |       |       |       |      | 248-255                    |                                                                                                                                                                                                                 |
|         |       |       | 10    | 10   | 000-255                    | WASH DIMMER<br>0%→100%                                                                                                                                                                                          |
|         |       |       | 11    | 11   | 000-255                    | WASH DIMMER FINE                                                                                                                                                                                                |
| 9       | 9     | 9     | 12    | 12   |                            | SPECIAL FUNCTION<br>(To activate following functions,<br>stop in DMX value for at least 3 seconds.)                                                                                                             |

|    |    |    |    |    |         |                               |
|----|----|----|----|----|---------|-------------------------------|
|    |    |    |    |    | 000-009 | 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 | Null                          |
|    |    |    |    |    | 090-099 | Null                          |
|    |    |    |    |    | 100-109 | Led Frequency Setting Enable  |
|    |    |    |    |    | 110-119 | Led Frequency Setting Disable |
|    |    |    |    |    | 120-122 | Null                          |
|    |    |    |    |    | 123     | 900Hz                         |
|    |    |    |    |    | 124     | 1000Hz                        |
|    |    |    |    |    | 125     | 1100Hz                        |
|    |    |    |    |    | 126     | 1200Hz                        |
|    |    |    |    |    | 127     | 1300Hz                        |
|    |    |    |    |    | 128     | 1400Hz                        |
|    |    |    |    |    | 129     | 1500Hz                        |
|    |    |    |    |    | 130     | 2500Hz                        |
|    |    |    |    |    | 131     | 4000Hz                        |
|    |    |    |    |    | 132     | 5000Hz                        |
|    |    |    |    |    | 133     | 6000Hz                        |
|    |    |    |    |    | 134     | 10KHz                         |
|    |    |    |    |    | 135     | 15KHz                         |
|    |    |    |    |    | 136     | 20KHz                         |
|    |    |    |    |    | 137     | 25KHz                         |
|    |    |    |    |    | 138-139 | Null                          |
|    |    |    |    |    | 140-149 | Pan/Tilt Reset                |
|    |    |    |    |    | 150-159 | Effect Reset                  |
|    |    |    |    |    | 160-169 | Color Calibration: On         |
|    |    |    |    |    | 170-179 | Color Calibration: Off        |
|    |    |    |    |    | 180-189 | Calibration Mode: High CRI    |
|    |    |    |    |    | 190-199 | Calibration Mode: High Output |
|    |    |    |    |    | 200-209 | All Reset                     |
|    |    |    |    |    | 210-219 | Dimmer Speed: Fast            |
|    |    |    |    |    | 220-229 | Dimmer Speed: Smooth          |
|    |    |    |    |    | 230-231 | Gobo Short Cut: Enable        |
|    |    |    |    |    | 232-233 | Gobo Short Cut: Disable       |
|    |    |    |    |    | 234-235 | Color Short Cut: Enable       |
|    |    |    |    |    | 236-237 | Color Short Cut: Disable      |
|    |    |    |    |    | 238-239 | Null                          |
|    |    |    |    |    | 240-245 | Cooling Mode: Silent          |
|    |    |    |    |    | 246-251 | Cooling Mode: Auto            |
|    |    |    |    |    | 252-255 | Null                          |
|    |    |    |    |    |         | <b>BEAM COLOR WHEEL</b>       |
|    |    |    |    |    | 000-007 | Open                          |
|    |    |    |    |    | 008-011 | Color 1                       |
|    |    |    |    |    | 012-015 | Color 2                       |
|    |    |    |    |    | 016-019 | Color 3                       |
|    |    |    |    |    | 020-023 | Color 4                       |
|    |    |    |    |    | 024-027 | Color 5                       |
|    |    |    |    |    | 028-031 | Color 6                       |
| 11 | 11 | 11 | 13 | 13 |         |                               |

|    |    |    |    |    |         |                                          |
|----|----|----|----|----|---------|------------------------------------------|
|    |    |    |    |    | 032-039 | Color 7                                  |
|    |    |    |    |    | 040-043 | Color 8                                  |
|    |    |    |    |    | 044-047 | Color 9                                  |
|    |    |    |    |    | 048-051 | Color 10                                 |
|    |    |    |    |    | 052-055 | Color 11                                 |
|    |    |    |    |    | 056-059 | Color 12                                 |
|    |    |    |    |    | 060-063 | Color 13                                 |
|    |    |    |    |    | 64      | Open                                     |
|    |    |    |    |    | 65      | Open+Color 1                             |
|    |    |    |    |    | 66      | Color 1                                  |
|    |    |    |    |    | 67      | Color 1+Color 2                          |
|    |    |    |    |    | 68      | Color 2                                  |
|    |    |    |    |    | 69      | Color 2+Color 3                          |
|    |    |    |    |    | 70      | Color 3                                  |
|    |    |    |    |    | 71      | Color 3+Color 4                          |
|    |    |    |    |    | 72      | Color 4                                  |
|    |    |    |    |    | 73      | Color 4+Color 5                          |
|    |    |    |    |    | 74      | Color 5                                  |
|    |    |    |    |    | 75      | Color 5+Color 6                          |
|    |    |    |    |    | 76      | Color 6                                  |
|    |    |    |    |    | 77      | Color 6+Color 7                          |
|    |    |    |    |    | 78      | Color 7                                  |
|    |    |    |    |    | 79      | Color 7+Color 8                          |
|    |    |    |    |    | 80      | Color 8                                  |
|    |    |    |    |    | 81      | Color 8+Color 9                          |
|    |    |    |    |    | 82      | Color 9                                  |
|    |    |    |    |    | 83      | Color 9+Color 10                         |
|    |    |    |    |    | 84      | Color 10                                 |
|    |    |    |    |    | 85      | Color 10+Color 11                        |
|    |    |    |    |    | 86      | Color 11                                 |
|    |    |    |    |    | 87      | Color 11+Color 12                        |
|    |    |    |    |    | 88      | Color 12                                 |
|    |    |    |    |    | 89      | Color 12+Color 13                        |
|    |    |    |    |    | 90      | Color 13                                 |
|    |    |    |    |    | 91-127  | Open                                     |
|    |    |    |    |    | 128-189 | Clockwise Rotation, Fast to Slow         |
|    |    |    |    |    | 190-193 | Stop                                     |
|    |    |    |    |    | 194-255 | Counter-Clockwise Rotation, Slow to Fast |
|    |    |    |    |    |         | <b>BEAM GOBO WHEEL</b>                   |
|    |    |    |    |    | 000-007 | Open                                     |
|    |    |    |    |    | 008-013 | Gobo 1                                   |
|    |    |    |    |    | 014-019 | Gobo 2                                   |
|    |    |    |    |    | 020-025 | Gobo 3                                   |
|    |    |    |    |    | 026-031 | Gobo 4                                   |
|    |    |    |    |    | 032-037 | Gobo 5                                   |
|    |    |    |    |    | 038-043 | Gobo 6                                   |
|    |    |    |    |    | 044-049 | Gobo 7                                   |
|    |    |    |    |    | 050-055 | Gobo 8                                   |
|    |    |    |    |    | 056-063 | Gobo 9                                   |
|    |    |    |    |    | 064-070 | Gobo 1 Shaking, Slow to Fast             |
|    |    |    |    |    | 071-077 | Gobo 2 Shaking, Slow to Fast             |
|    |    |    |    |    | 078-084 | Gobo 3 Shaking, Slow to Fast             |
|    |    |    |    |    | 085-091 | Gobo 4 Shaking, Slow to Fast             |
|    |    |    |    |    | 092-098 | Gobo 5 Shaking, Slow to Fast             |
| 12 | 12 | 12 | 14 | 14 |         |                                          |

|    |    |    |    |    |                                                                                                                                         |                                                                                                                                                                                                                      |
|----|----|----|----|----|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |    |    |    |    | 099-105<br>106-112<br>113-119<br>120-127<br>128-189<br>190-193<br>194-255                                                               | Gobo 6 Shaking, Slow to Fast<br>Gobo 7 Shaking, Slow to Fast<br>Gobo 8 Shaking, Slow to Fast<br>Gobo 9 Shaking, Slow to Fast<br>Counter-Clockwise Rotation, Fast to Slow<br>Stop<br>Clockwise Rotation, Slow to Fast |
| 13 | 13 | 13 | 15 | 15 | 000-007<br>008-090<br>091-173<br>174-255                                                                                                | <b>BEAM PRISMS</b><br>Open<br>8-facets prism<br>16-facets prism<br>8-facets prism + 16-facets prism                                                                                                                  |
| 14 | 14 | 14 | 16 | 16 | 000-127<br>128-189<br>190-193<br>194-255                                                                                                | <b>BEAM 8-FACETS PRISM ROTATION</b><br>Index, 0°→360°<br>Counter-Clockwise Rotation, Fast to Slow<br>Stop<br>Clockwise Rotation, Slow to Fast                                                                        |
| 15 | 15 | 15 | 17 | 17 | 000-127<br>128-189<br>190-193<br>194-255                                                                                                | <b>BEAM 16-FACETS PRISM ROTATION</b><br>Index, 0°→360°<br>Counter-Clockwise Rotation, Fast to Slow<br>Stop<br>Clockwise Rotation, Slow to Fast                                                                       |
| 16 | 16 | 16 | 18 | 18 | 000-007<br>008-255                                                                                                                      | <b>BEAM FROST</b><br>Close<br>Open                                                                                                                                                                                   |
| 17 | 17 | 17 | 19 | 19 | 000-255                                                                                                                                 | <b>BEAM FOCUS</b><br>0%→100%                                                                                                                                                                                         |
| 18 | 18 | 18 | 20 | 20 | 000-255                                                                                                                                 | <b>BEAM FOCUS FINE</b>                                                                                                                                                                                               |
| 19 | 19 | 19 | 21 | 21 | 000-255                                                                                                                                 | <b>WASH ZOOM</b><br>Narrow→Wide                                                                                                                                                                                      |
| 20 |    |    |    | 22 | 000-255                                                                                                                                 | <b>WASH RED</b><br>0%→100%                                                                                                                                                                                           |
| 21 |    |    |    | 23 | 000-255                                                                                                                                 | <b>WASH GREEN</b><br>0%→100%                                                                                                                                                                                         |
| 22 |    |    |    | 24 | 000-255                                                                                                                                 | <b>WASH BLUE</b><br>0%→100%                                                                                                                                                                                          |
| 23 |    |    |    | 25 | 000-255                                                                                                                                 | <b>WASH WHITE</b><br>0%→100%                                                                                                                                                                                         |
| 24 |    |    |    | 26 | 000<br>001-004<br>005-009<br>010-013<br>014-018<br>019-022<br>023-027<br>028-031<br>032-036<br>037-040<br>041-045<br>046-049<br>050-054 | <b>WASH CCT</b><br>Null<br>8000K<br>7900K<br>7800K<br>7700K<br>7600K<br>7500K<br>7400K<br>7300K<br>7200K<br>7100K<br>7000K<br>6900K                                                                                  |

|    |  |  |  |    |                  |         |
|----|--|--|--|----|------------------|---------|
|    |  |  |  |    | 055-058          | 6800K   |
|    |  |  |  |    | 059-063          | 6700K   |
|    |  |  |  |    | 064-067          | 6600K   |
|    |  |  |  |    | 068-072          | 6500K   |
|    |  |  |  |    | 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   |
| 25 |  |  |  | 27 | WASH COLOR MACRO |         |
|    |  |  |  |    | 000-007          | Null    |
|    |  |  |  |    | 008-015          | Color 1 |
|    |  |  |  |    | 016-023          | Color 2 |
|    |  |  |  |    | 024-031          | Color 3 |
|    |  |  |  |    | 032-039          | Color 4 |
|    |  |  |  |    | 040-047          | Color 5 |
|    |  |  |  |    | 048-055          | Color 6 |
|    |  |  |  |    | 056-063          | Color 7 |
|    |  |  |  |    | 064-071          | Color 8 |

|    |  |  |  |    |                           |                        |
|----|--|--|--|----|---------------------------|------------------------|
|    |  |  |  |    | 072-079                   | Color 9                |
|    |  |  |  |    | 080-087                   | Color 10               |
|    |  |  |  |    | 088-095                   | Color 11               |
|    |  |  |  |    | 096-103                   | Color 12               |
|    |  |  |  |    | 104-111                   | Color 13               |
|    |  |  |  |    | 112-119                   | Color 14               |
|    |  |  |  |    | 120-127                   | Color 15               |
|    |  |  |  |    | 128-135                   | Color 16               |
|    |  |  |  |    | 136-143                   | Color 17               |
|    |  |  |  |    | 144-151                   | Color 18               |
|    |  |  |  |    | 152-159                   | Color 19               |
|    |  |  |  |    | 160-167                   | Color 20               |
|    |  |  |  |    | 168-175                   | Color 21               |
|    |  |  |  |    | 176-183                   | Color 22               |
|    |  |  |  |    | 184-191                   | Color 23               |
|    |  |  |  |    | 192-199                   | Color 24               |
|    |  |  |  |    | 200-207                   | Color 25               |
|    |  |  |  |    | 208-215                   | Color 26               |
|    |  |  |  |    | 216-223                   | Color 27               |
|    |  |  |  |    | 224-231                   | Color 28               |
|    |  |  |  |    | 232-239                   | Color 29               |
|    |  |  |  |    | 240-247                   | Color 30               |
|    |  |  |  |    | 248-255                   | Color 31               |
| 26 |  |  |  | 28 | <b>WASH EFFECT SELECT</b> |                        |
|    |  |  |  |    | 000-007                   | Null                   |
|    |  |  |  |    | 008-015                   | Ring 1 (outer ring)    |
|    |  |  |  |    | 016-023                   | Ring 2 (inner ring)    |
|    |  |  |  |    | 024-031                   | Built-in Effect 1      |
|    |  |  |  |    | 032-039                   | Built-in Effect 2      |
|    |  |  |  |    | 040-047                   | Built-in Effect 3      |
|    |  |  |  |    | 048-055                   | Built-in Effect 4      |
|    |  |  |  |    | 056-063                   | Built-in Effect 5      |
|    |  |  |  |    | 064-071                   | Built-in Effect 6      |
|    |  |  |  |    | 072-079                   | Built-in Effect 7      |
|    |  |  |  |    | 080-087                   | Built-in Effect 8      |
|    |  |  |  |    | 088-095                   | Built-in Effect 9      |
|    |  |  |  |    | 096-103                   | Built-in Effect 10     |
|    |  |  |  |    | 104-111                   | Built-in Effect 11     |
|    |  |  |  |    | 112-119                   | Built-in Effect 12     |
|    |  |  |  |    | 120-127                   | Built-in Effect 13     |
|    |  |  |  |    | 128-135                   | Built-in Effect 14     |
|    |  |  |  |    | 136-143                   | Built-in Effect 15     |
|    |  |  |  |    | 144-151                   | Built-in Effect 16     |
|    |  |  |  |    | 152-159                   | Built-in Effect 17     |
|    |  |  |  |    | 160-167                   | Built-in Effect 18     |
|    |  |  |  |    | 168-175                   | Built-in Effect 19     |
|    |  |  |  |    | 176-183                   | Built-in Effect 20     |
|    |  |  |  |    | 184-191                   | Built-in Effect 21     |
|    |  |  |  |    | 192-199                   | Built-in Effect 22     |
|    |  |  |  |    | 200-207                   | Built-in Effect 23     |
|    |  |  |  |    | 208-215                   | Built-in Effect 24     |
|    |  |  |  |    | 216-223                   | Built-in Effect 25     |
|    |  |  |  |    | 224-229                   | Built-in Effect 26     |
|    |  |  |  |    | 230-237                   | Rainbow 1 (inner ring) |

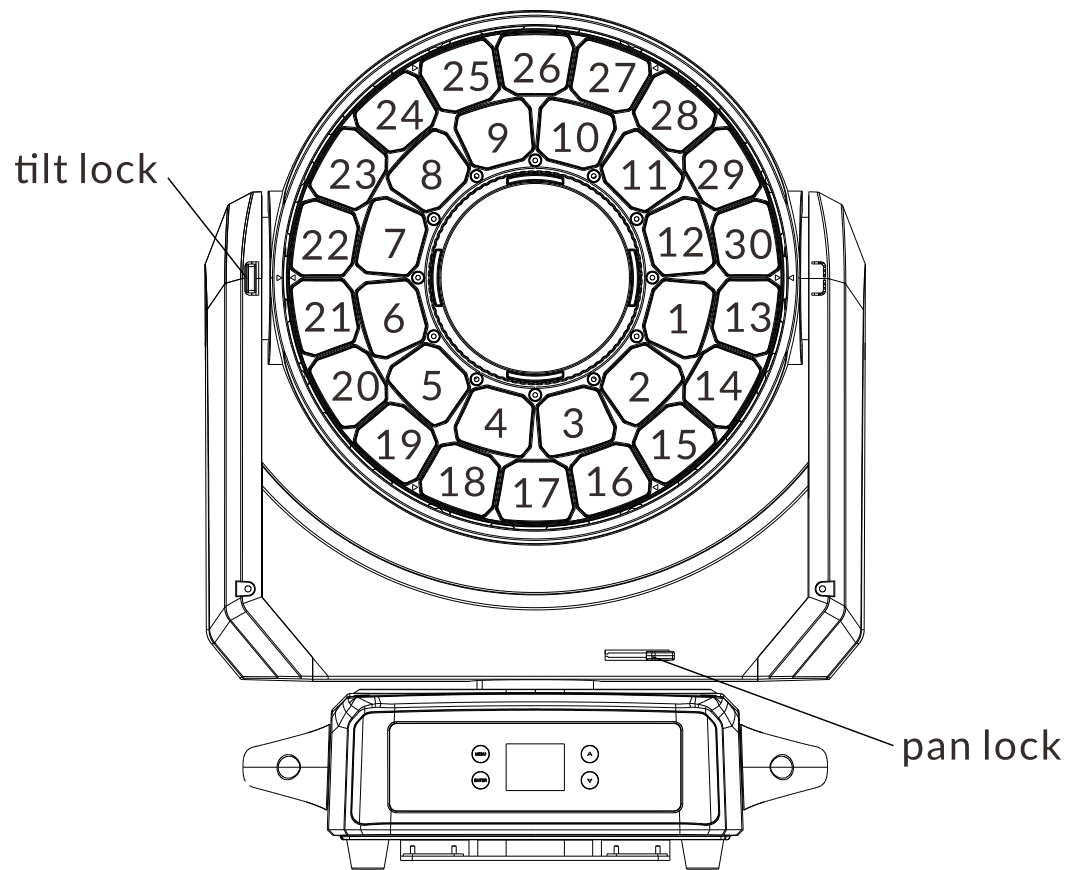
|    |    |    |    |    |                                       |                                                                                                 |
|----|----|----|----|----|---------------------------------------|-------------------------------------------------------------------------------------------------|
|    |    |    |    |    | 238-245<br>246-255                    | Rainbow 2 (outer ring)<br>Rainbow 3 (inner ring + outer ring)                                   |
| 27 |    |    |    | 29 | 000<br>001-127<br>128<br>129-255      | <b>WASH EFFECT SPEED</b><br>Null<br>Slow to Fast without Fade<br>Null<br>Slow to Fast with Fade |
|    |    |    |    |    | <b>19+ ch (Controlled by Art-Net)</b> |                                                                                                 |
|    | 20 | 1  | 22 |    | 000-255                               | <b>WASH RED 1</b><br>0%→100%                                                                    |
|    | 21 | 2  | 23 |    | 000-255                               | <b>WASH GREEN 1</b><br>0%→100%                                                                  |
|    | 22 | 3  | 24 |    | 000-255                               | <b>WASH BLUE 1</b><br>0%→100%                                                                   |
|    | 23 | 4  | 25 |    | 000-255                               | <b>WASH WHITE 1</b><br>0%→100%                                                                  |
|    | 24 | 5  | 26 |    | 000-255                               | <b>WASH RED 2</b><br>0%→100%                                                                    |
|    | 25 | 6  | 27 |    | 000-255                               | <b>WASH GREEN 2</b><br>0%→100%                                                                  |
|    | 26 | 7  | 28 |    | 000-255                               | <b>WASH BLUE 2</b><br>0%→100%                                                                   |
|    | 27 | 8  | 29 |    | 000-255                               | <b>WASH WHITE 2</b><br>0%→100%                                                                  |
|    | 28 | 9  | 30 |    | 000-255                               | <b>WASH RED 3</b><br>0%→100%                                                                    |
|    | 29 | 10 | 31 |    | 000-255                               | <b>WASH GREEN 3</b><br>0%→100%                                                                  |
|    | 30 | 11 | 32 |    | 000-255                               | <b>WASH BLUE 3</b><br>0%→100%                                                                   |
|    | 31 | 12 | 33 |    | 000-255                               | <b>WASH WHITE 3</b><br>0%→100%                                                                  |
|    | 32 | 13 | 34 |    | 000-255                               | <b>WASH RED 4</b><br>0%→100%                                                                    |
|    | 33 | 14 | 35 |    | 000-255                               | <b>WASH GREEN 4</b><br>0%→100%                                                                  |
|    | 34 | 15 | 36 |    | 000-255                               | <b>WASH BLUE 4</b><br>0%→100%                                                                   |
|    | 35 | 16 | 37 |    | 000-255                               | <b>WASH WHITE 4</b><br>0%→100%                                                                  |
|    | 36 | 17 | 38 |    | 000-255                               | <b>WASH RED 5</b><br>0%→100%                                                                    |
|    | 37 | 18 | 39 |    | 000-255                               | <b>WASH GREEN 5</b><br>0%→100%                                                                  |
|    | 38 | 19 | 40 |    | 000-255                               | <b>WASH BLUE 5</b><br>0%→100%                                                                   |
|    | 39 | 20 | 41 |    | 000-255                               | <b>WASH WHITE 5</b><br>0%→100%                                                                  |
|    | 40 | 21 | 42 |    | 000-255                               | <b>WASH RED 6</b><br>0%→100%                                                                    |

|  |    |    |    |  |         |                                 |
|--|----|----|----|--|---------|---------------------------------|
|  | 41 | 22 | 43 |  | 000-255 | <b>WASH GREEN 6</b><br>0%→100%  |
|  | 42 | 23 | 44 |  | 000-255 | <b>WASH BLUE 6</b><br>0%→100%   |
|  | 43 | 24 | 45 |  | 000-255 | <b>WASH WHITE 6</b><br>0%→100%  |
|  | 44 | 25 | 46 |  | 000-255 | <b>WASH RED 7</b><br>0%→100%    |
|  | 45 | 26 | 47 |  | 000-255 | <b>WASH GREEN 7</b><br>0%→100%  |
|  | 46 | 27 | 48 |  | 000-255 | <b>WASH BLUE 7</b><br>0%→100%   |
|  | 47 | 28 | 49 |  | 000-255 | <b>WASH WHITE 7</b><br>0%→100%  |
|  | 48 | 29 | 50 |  | 000-255 | <b>WASH RED 8</b><br>0%→100%    |
|  | 49 | 30 | 51 |  | 000-255 | <b>WASH GREEN 8</b><br>0%→100%  |
|  | 50 | 31 | 52 |  | 000-255 | <b>WASH BLUE 8</b><br>0%→100%   |
|  | 51 | 32 | 53 |  | 000-255 | <b>WASH WHITE 8</b><br>0%→100%  |
|  | 52 | 33 | 54 |  | 000-255 | <b>WASH RED 9</b><br>0%→100%    |
|  | 53 | 34 | 55 |  | 000-255 | <b>WASH GREEN 9</b><br>0%→100%  |
|  | 54 | 35 | 56 |  | 000-255 | <b>WASH BLUE 9</b><br>0%→100%   |
|  | 55 | 36 | 57 |  | 000-255 | <b>WASH WHITE 9</b><br>0%→100%  |
|  | 56 | 37 | 58 |  | 000-255 | <b>WASH RED 10</b><br>0%→100%   |
|  | 57 | 38 | 59 |  | 000-255 | <b>WASH GREEN 10</b><br>0%→100% |
|  | 58 | 39 | 60 |  | 000-255 | <b>WASH BLUE 10</b><br>0%→100%  |
|  | 59 | 40 | 61 |  | 000-255 | <b>WASH WHITE 10</b><br>0%→100% |
|  | 60 | 41 | 62 |  | 000-255 | <b>WASH RED 11</b><br>0%→100%   |
|  | 61 | 42 | 63 |  | 000-255 | <b>WASH GREEN 11</b><br>0%→100% |
|  | 62 | 43 | 64 |  | 000-255 | <b>WASH BLUE 11</b><br>0%→100%  |
|  | 63 | 44 | 65 |  | 000-255 | <b>WASH WHITE 11</b><br>0%→100% |
|  | 64 | 45 | 66 |  | 000-255 | <b>WASH RED 12</b><br>0%→100%   |
|  | 65 | 46 | 67 |  | 000-255 | <b>WASH GREEN 12</b><br>0%→100% |

|  |    |    |    |  |         |                                 |
|--|----|----|----|--|---------|---------------------------------|
|  | 66 | 47 | 68 |  | 000-255 | <b>WASH BLUE 12</b><br>0%→100%  |
|  | 67 | 48 | 69 |  | 000-255 | <b>WASH WHITE 12</b><br>0%→100% |
|  | 68 | 49 | 70 |  | 000-255 | <b>WASH RED 13</b><br>0%→100%   |
|  | 69 | 50 | 71 |  | 000-255 | <b>WASH GREEN 13</b><br>0%→100% |
|  | 70 | 51 | 72 |  | 000-255 | <b>WASH BLUE 13</b><br>0%→100%  |
|  | 71 | 52 | 73 |  | 000-255 | <b>WASH WHITE 13</b><br>0%→100% |
|  | 72 | 53 | 74 |  | 000-255 | <b>WASH RED 14</b><br>0%→100%   |
|  | 73 | 54 | 75 |  | 000-255 | <b>WASH GREEN 14</b><br>0%→100% |
|  | 74 | 55 | 76 |  | 000-255 | <b>WASH BLUE 14</b><br>0%→100%  |
|  | 75 | 56 | 77 |  | 000-255 | <b>WASH WHITE 14</b><br>0%→100% |
|  | 76 | 57 | 78 |  | 000-255 | <b>WASH RED 15</b><br>0%→100%   |
|  | 77 | 58 | 79 |  | 000-255 | <b>WASH GREEN 15</b><br>0%→100% |
|  | 78 | 59 | 80 |  | 000-255 | <b>WASH BLUE 15</b><br>0%→100%  |
|  | 79 | 60 | 81 |  | 000-255 | <b>WASH WHITE 15</b><br>0%→100% |
|  | 80 | 61 | 82 |  | 000-255 | <b>WASH RED 16</b><br>0%→100%   |
|  | 81 | 62 | 83 |  | 000-255 | <b>WASH GREEN 16</b><br>0%→100% |
|  | 82 | 63 | 84 |  | 000-255 | <b>WASH BLUE 16</b><br>0%→100%  |
|  | 83 | 64 | 85 |  | 000-255 | <b>WASH WHITE 16</b><br>0%→100% |
|  | 84 | 65 | 86 |  | 000-255 | <b>WASH RED 17</b><br>0%→100%   |
|  | 85 | 66 | 87 |  | 000-255 | <b>WASH GREEN 17</b><br>0%→100% |
|  | 86 | 67 | 88 |  | 000-255 | <b>WASH BLUE 17</b><br>0%→100%  |
|  | 87 | 68 | 89 |  | 000-255 | <b>WASH WHITE 17</b><br>0%→100% |
|  | 88 | 69 | 90 |  | 000-255 | <b>WASH RED 18</b><br>0%→100%   |
|  | 89 | 70 | 91 |  | 000-255 | <b>WASH GREEN 18</b><br>0%→100% |
|  | 90 | 71 | 92 |  | 000-255 | <b>WASH BLUE 18</b><br>0%→100%  |

|  |     |    |     |  |         |                                 |
|--|-----|----|-----|--|---------|---------------------------------|
|  | 91  | 72 | 93  |  | 000-255 | <b>WASH WHITE 18</b><br>0%→100% |
|  | 92  | 73 | 94  |  | 000-255 | <b>WASH RED 19</b><br>0%→100%   |
|  | 93  | 74 | 95  |  | 000-255 | <b>WASH GREEN 19</b><br>0%→100% |
|  | 94  | 75 | 96  |  | 000-255 | <b>WASH BLUE 19</b><br>0%→100%  |
|  | 95  | 76 | 97  |  | 000-255 | <b>WASH WHITE 19</b><br>0%→100% |
|  | 96  | 77 | 98  |  | 000-255 | <b>WASH RED 20</b><br>0%→100%   |
|  | 97  | 78 | 99  |  | 000-255 | <b>WASH GREEN 20</b><br>0%→100% |
|  | 98  | 79 | 100 |  | 000-255 | <b>WASH BLUE 20</b><br>0%→100%  |
|  | 99  | 80 | 101 |  | 000-255 | <b>WASH WHITE 20</b><br>0%→100% |
|  | 100 | 81 | 102 |  | 000-255 | <b>WASH RED 21</b><br>0%→100%   |
|  | 101 | 82 | 103 |  | 000-255 | <b>WASH GREEN 21</b><br>0%→100% |
|  | 102 | 83 | 104 |  | 000-255 | <b>WASH BLUE 21</b><br>0%→100%  |
|  | 103 | 84 | 105 |  | 000-255 | <b>WASH WHITE 21</b><br>0%→100% |
|  | 104 | 85 | 106 |  | 000-255 | <b>WASH RED 22</b><br>0%→100%   |
|  | 105 | 86 | 107 |  | 000-255 | <b>WASH GREEN 22</b><br>0%→100% |
|  | 106 | 87 | 108 |  | 000-255 | <b>WASH BLUE 22</b><br>0%→100%  |
|  | 107 | 88 | 109 |  | 000-255 | <b>WASH WHITE 22</b><br>0%→100% |
|  | 108 | 89 | 110 |  | 000-255 | <b>WASH RED 23</b><br>0%→100%   |
|  | 109 | 90 | 111 |  | 000-255 | <b>WASH GREEN 23</b><br>0%→100% |
|  | 110 | 91 | 112 |  | 000-255 | <b>WASH BLUE 23</b><br>0%→100%  |
|  | 111 | 92 | 113 |  | 000-255 | <b>WASH WHITE 23</b><br>0%→100% |
|  | 112 | 93 | 114 |  | 000-255 | <b>WASH RED 24</b><br>0%→100%   |
|  | 113 | 94 | 115 |  | 000-255 | <b>WASH GREEN 24</b><br>0%→100% |
|  | 114 | 95 | 116 |  | 000-255 | <b>WASH BLUE 24</b><br>0%→100%  |
|  | 115 | 96 | 117 |  | 000-255 | <b>WASH WHITE 24</b><br>0%→100% |

|  |     |     |     |  |         |                                 |
|--|-----|-----|-----|--|---------|---------------------------------|
|  | 116 | 97  | 118 |  | 000-255 | <b>WASH RED 25</b><br>0%→100%   |
|  | 117 | 98  | 119 |  | 000-255 | <b>WASH GREEN 25</b><br>0%→100% |
|  | 118 | 99  | 120 |  | 000-255 | <b>WASH BLUE 25</b><br>0%→100%  |
|  | 119 | 100 | 121 |  | 000-255 | <b>WASH WHITE 25</b><br>0%→100% |
|  | 120 | 101 | 122 |  | 000-255 | <b>WASH RED 26</b><br>0%→100%   |
|  | 121 | 102 | 123 |  | 000-255 | <b>WASH GREEN 26</b><br>0%→100% |
|  | 122 | 103 | 124 |  | 000-255 | <b>WASH BLUE 26</b><br>0%→100%  |
|  | 123 | 104 | 125 |  | 000-255 | <b>WASH WHITE 26</b><br>0%→100% |
|  | 124 | 105 | 126 |  | 000-255 | <b>WASH RED 27</b><br>0%→100%   |
|  | 125 | 106 | 127 |  | 000-255 | <b>WASH GREEN 27</b><br>0%→100% |
|  | 126 | 107 | 128 |  | 000-255 | <b>WASH BLUE 27</b><br>0%→100%  |
|  | 127 | 108 | 129 |  | 000-255 | <b>WASH WHITE 27</b><br>0%→100% |
|  | 128 | 109 | 130 |  | 000-255 | <b>WASH RED 28</b><br>0%→100%   |
|  | 129 | 110 | 131 |  | 000-255 | <b>WASH GREEN 28</b><br>0%→100% |
|  | 130 | 111 | 132 |  | 000-255 | <b>WASH BLUE 28</b><br>0%→100%  |
|  | 131 | 112 | 133 |  | 000-255 | <b>WASH WHITE 28</b><br>0%→100% |
|  | 132 | 113 | 134 |  | 000-255 | <b>WASH RED 29</b><br>0%→100%   |
|  | 133 | 114 | 135 |  | 000-255 | <b>WASH GREEN 29</b><br>0%→100% |
|  | 134 | 115 | 136 |  | 000-255 | <b>WASH BLUE 29</b><br>0%→100%  |
|  | 135 | 116 | 137 |  | 000-255 | <b>WASH WHITE 29</b><br>0%→100% |
|  | 136 | 117 | 138 |  | 000-255 | <b>WASH RED 30</b><br>0%→100%   |
|  | 137 | 118 | 139 |  | 000-255 | <b>WASH GREEN 30</b><br>0%→100% |
|  | 138 | 119 | 140 |  | 000-255 | <b>WASH BLUE 30</b><br>0%→100%  |
|  | 139 | 120 | 141 |  | 000-255 | <b>WASH WHITE 30</b><br>0%→100% |

**LED PIXEL ZONES:**

## 09/ Error Information

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

### CPU-B/C/D/E/F/G/H/I/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.

**Base Fan 1/2/3/4 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.

**Head Fan 1/2/3/4/5 Start Error**

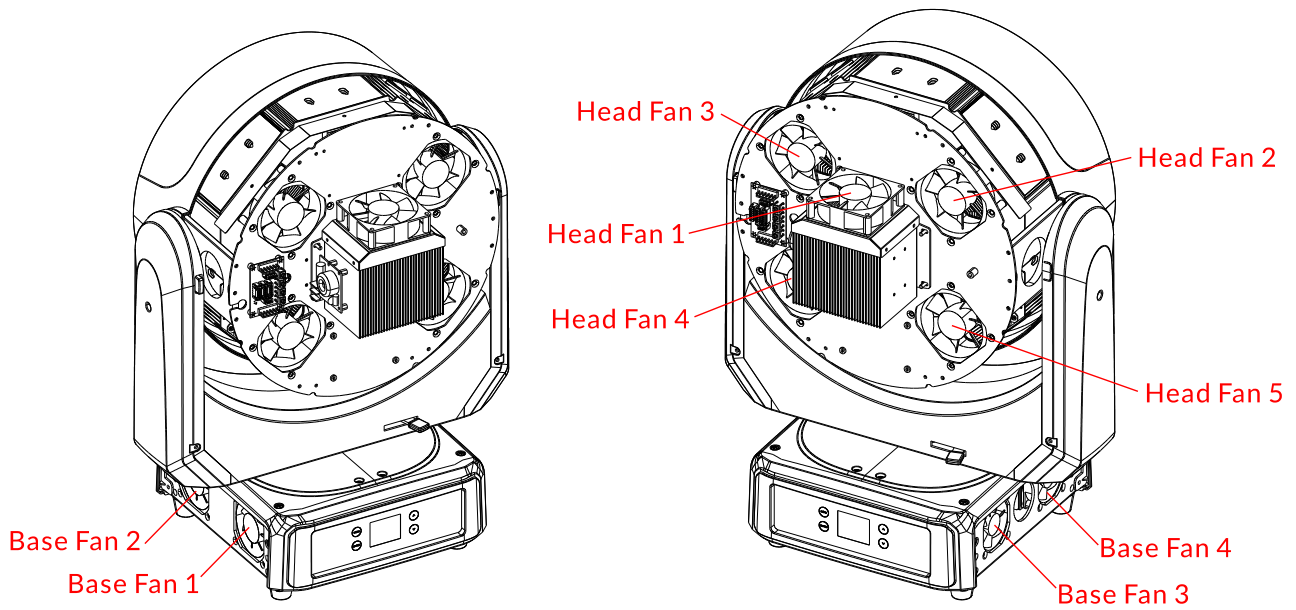
Check whether the fan is not running.

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:



| Cooling Fans | Part Number | V      | W    | Position |
|--------------|-------------|--------|------|----------|
| Base Fan 1   | 3014001341  | DC 24V | 6.7W | Base - A |
| Base Fan 2   |             |        |      |          |
| Base Fan 3   | 3014001330  | DC 24V | 4W   |          |
| Base Fan 4   |             |        |      |          |
| Head Fan 1   | 3014001398  | DC 24V | 4.3W | Head - C |
| Head Fan 2   |             |        |      |          |
| Head Fan 3   |             |        |      |          |
| Head Fan 4   |             |        |      |          |
| Head Fan 5   |             |        |      |          |

## 10/ Troubleshooting

| Problem                                        | Potential cause(s)                                                                | Remedies                                                                                                                               |
|------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Fixture does not respond or appears to be off. | No power to the fixture.                                                          | Confirm that the power is switched on and cables are plugged in.                                                                       |
|                                                | No output from PSU.                                                               | Replace the PSU.                                                                                                                       |
| Fixture suddenly turned off.                   | Power was turned off.                                                             | Check the power supply, switches and breakers.                                                                                         |
| Light output cuts out intermittently.          | Fixture is too hot.                                                               | Check fixture's stored error messages for more information.<br>Allow fixture to cool.<br>Clean fixture.<br>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.<br>Have the fixture serviced by a qualified technician.                                       |
| Pan / tilt is skipping / shuddering            | Pan/ tilt locks are not released.                                                 | Release the pan / tilt locks.                                                                                                          |
|                                                | Obstacles are within the required pan / tilt clearance.                           | Inspect and remove any obstacles constraining free operation of the pan / tilt.                                                        |
|                                                | The Hall element is damaged.                                                      | Replace the Hall element.                                                                                                              |
|                                                | The magnetic steel fell out.                                                      | Replace the magnetic steel.                                                                                                            |

## 11/ Fixture Cleaning

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

- ▶ Use of smoke or fog machines.
- ▶ High airflow rates (near air conditioning vents, for example).
- ▶ Airborne dust (from stage effects, building structures and fittings or the natural environment at outdoor events, for example).

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

Follow these precautions when cleaning the fixture:

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

## 12/ Approvals and Certifications

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

- 2014/30/EU - Electromagnetic Compatibility (EMC)
- 2014/35/EU - Low Voltage Directive (LVD)
- cETLus Approved (Control #5000057)
- UK SI 2016 No. 1091: Electromagnetic Compatibility Regulations 2016
- UK SI 2016 No. 1101: The Electric Equipment (Safety) Regulations 2016



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