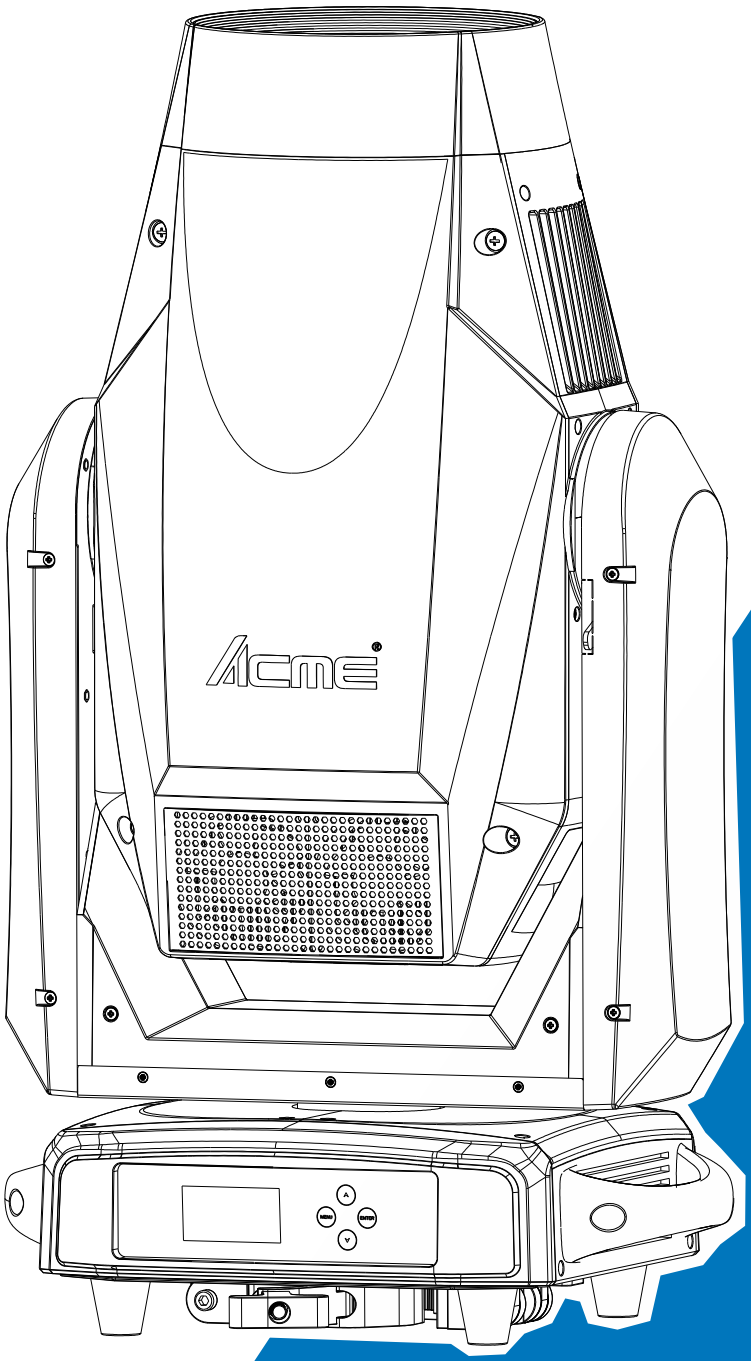
ACME®

Solar Impulse



Intertek
5000057

User Manual

Please read the instruction carefully before use

CONTENTS

1. Safety Instructions

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 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℃. Maximum ambient temperature TA: 40℃. Do not operate this product at a lower or higher temperature.
- DO NOT connect the device to any dimmer pack.
- Keep flammable materials away from the fixture while operating to avoid fire hazard.
- Make sure the power cord is not crimped or damaged; replace it immediately if damaged.
- Unit's surface temperature may reach up to 75℃. 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 3 meters.
- In the event of serious operating problem, stop using the unit immediately.
- Never turn on and off the unit time after time.
- The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.
- DO NOT open the housing as there are no user serviceable parts inside.
- DO NOT attempt to operate this unit if it becomes damaged. DO NOT attempt any repairs yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center if needed.
- Disconnect this product from its power source before servicing.
- DO use the original packaging if the device is to be transported.
- Avoid direct eye exposure to the light source while the product is on.
- DO NOT operate this product if you see damage on the housing, shields, or cables. Have the damaged parts replaced by an authorized technician at once.

1. Consignes de sécurité

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

ATTENTION

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

Important:

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

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

- Assurez-vous que le cordon d'alimentation n'est pas pincé ou endommagé; remplacez-le immédiatement s'il est endommagé.
- La température de surface de l'unité peut atteindre 75℃. NE PAS toucher les capots à mains nues pendant son fonctionnement.
- Évitez que des liquides inflammables, de l'eau ou du métal ne pénètrent dans l'appareil. Si cela se produit, coupez immédiatement l'alimentation secteur.
- NE PAS utiliser le luminaire dans un environnement sale ou poussiéreux. Cette appareil doit être nettoyer régulièrement.
- NE touchez AUCUN file pendant le fonctionnement car il pourrait y avoir un risque de choc électrique.
- Évitez l'enchevêtrement du cordon d'alimentation avec d'autres fils.
- La distance minimale de projection sur des objets ou sur des surfaces doit être supérieure à 3 mètres.
- En cas de problème de fonctionnement grave, arrêtez immédiatement d'utiliser l'appareil.
- N'allumez et n'éteignez jamais ce luminaire à maintes reprises.
- Le boîtier, les lentilles ou le filtre ultraviolet doivent être remplacés s'ils sont visiblement endommagés.
- NE PAS ouvrir le boîtier car il ne contient aucune pièce réparable par l'utilisateur.
- NE PAS mettre ce luminaire en fonctionnement s'il est endommagé. N'effectuez pas de réparations vous-même. Les réparations ne doivent être effectuées par des personnes non qualifiées, cela peut entraîner des dommages ou des dysfonctionnements. Veuillez contacter le centre d'assistance technique agréé le plus proche si nécessaire.
- Débranchez ce produit du secteur avant de procéder à l'entretien.
- Utiliser l'emballage d'origine si l'appareil doit être transporté.
- Évitez une exposition directe des yeux à la source lumineuse lorsque le produit est allumé.
- N'utilisez PAS ce produit si vous constatez des dommages sur le boîtier, les blindages ou les câbles. Faites remplacer immédiatement les pièces endommagées par un technicien agréé.

2. Technical Specifications

Power Voltage:

100-240V~ 50/60Hz

Power Consumption:

1370W

Light Source:

SUL1000X

Color temperature:

6500K

Zoom Range:

5°~50°

Movement:

Pan: 540°

Tilt: 270°

Pan/Tilt Resolution: 16 bit

Automatic Pan/Tilt position correction

Fixation: Pan/Tilt lock

Dimmer/Shutter:

Smooth dimming from 0-100%; outstanding strobe effect with variable speed

Color Wheel:

1 x color wheel with 5 colors plus open

Gobo Wheel:

1 x static gobo wheel with 8 gobos plus open (Static Gobo Wheel Module)

1 x rotating gobo wheel with 6 gobos plus open, convenient replacement

Control:

DMX Channel: 34/29 channels (Animation Wheel Module)

34/25/29/20 channels (Static Gobo Wheel Module)

Control Mode: DMX512, RDM, Art-Net, sACN

Firmware Upgrade via DMX link or USB disk

Construction:

Display: LCD display

Battery backup for user setup without power connection

Data In/Out: 3-pin and 5-pin XLR, RJ-45

Power In/Out: Power Connector in/out

Protection Rating: IP20

Features:

Motorized focus

Linear CMY color mixing

Outstanding color macro effect

Variable CTO

Switch to high output, high CRI mode with high CRI filter

1 x animation wheel with outstanding water and flame effect, the wheel can rotate and be replaced

1 x 4-facet prism, rotatable in both directions

2 different frost filters to create and improve the wash effect. They can be used independently or overlayed

Motorized linear iris

4 x fast and smooth framing shutters; The position and the angle of each shutter blade can be controlled individually; Each shutter blade can block out light completely; The framing module can be rotated at ±45 degrees

2 x fixed clamps for 50mm truss; Screw holes for installing clamps are reserved for 70mm truss (version with fixed clamps)

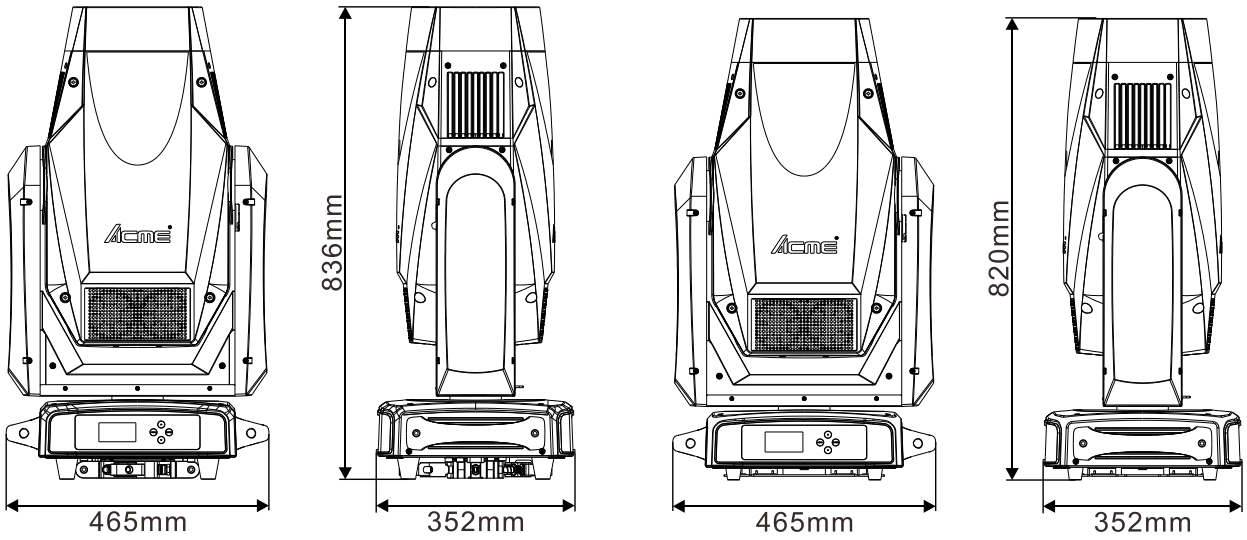
Dimension/Weight:

465×352×836mm, 46.3kgs (version with fixed clamps)

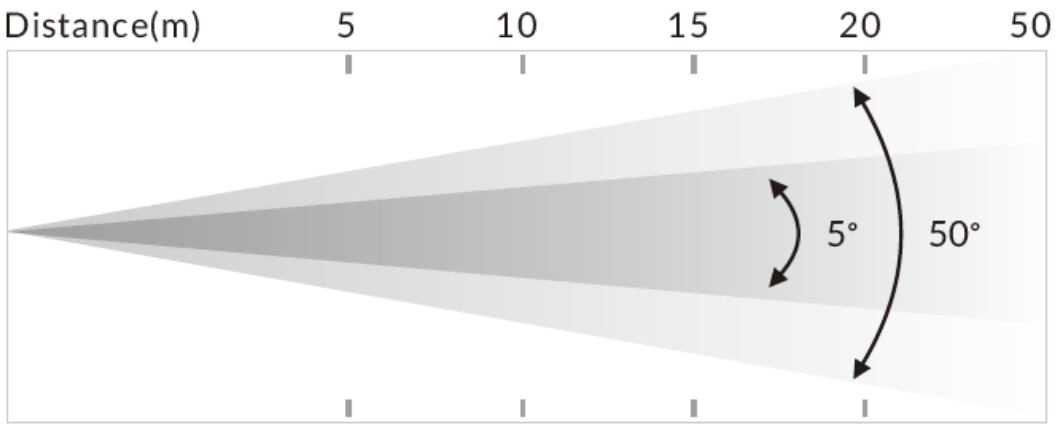
18.3"x13.9"x32.9"in, 102.1lbs (version with fixed clamps)

465×352×820mm, 46.3kgs (version without fixed clamps)

18.3"x13.9"x32.3"in, 102.1lbs (version without fixed clamps)

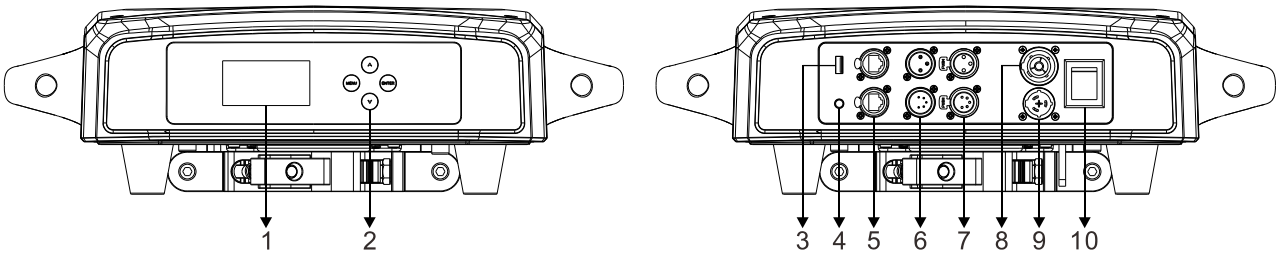


Photometric Diagram:



5° Lux	94,500	23,625	10,500	5,906	945
Diameter(m)	0.4	0.8	1.3	1.7	4
50° Lux	2,550	637	283	159	26
Diameter(m)	4.7	9.3	13.9	18.6	47

3. Control Panel



1. Display: To show the various menus and the selected function

2. Button:

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. POWERCON OUT: To connect to the next fixture

9. POWERCON IN: To connect to supply power

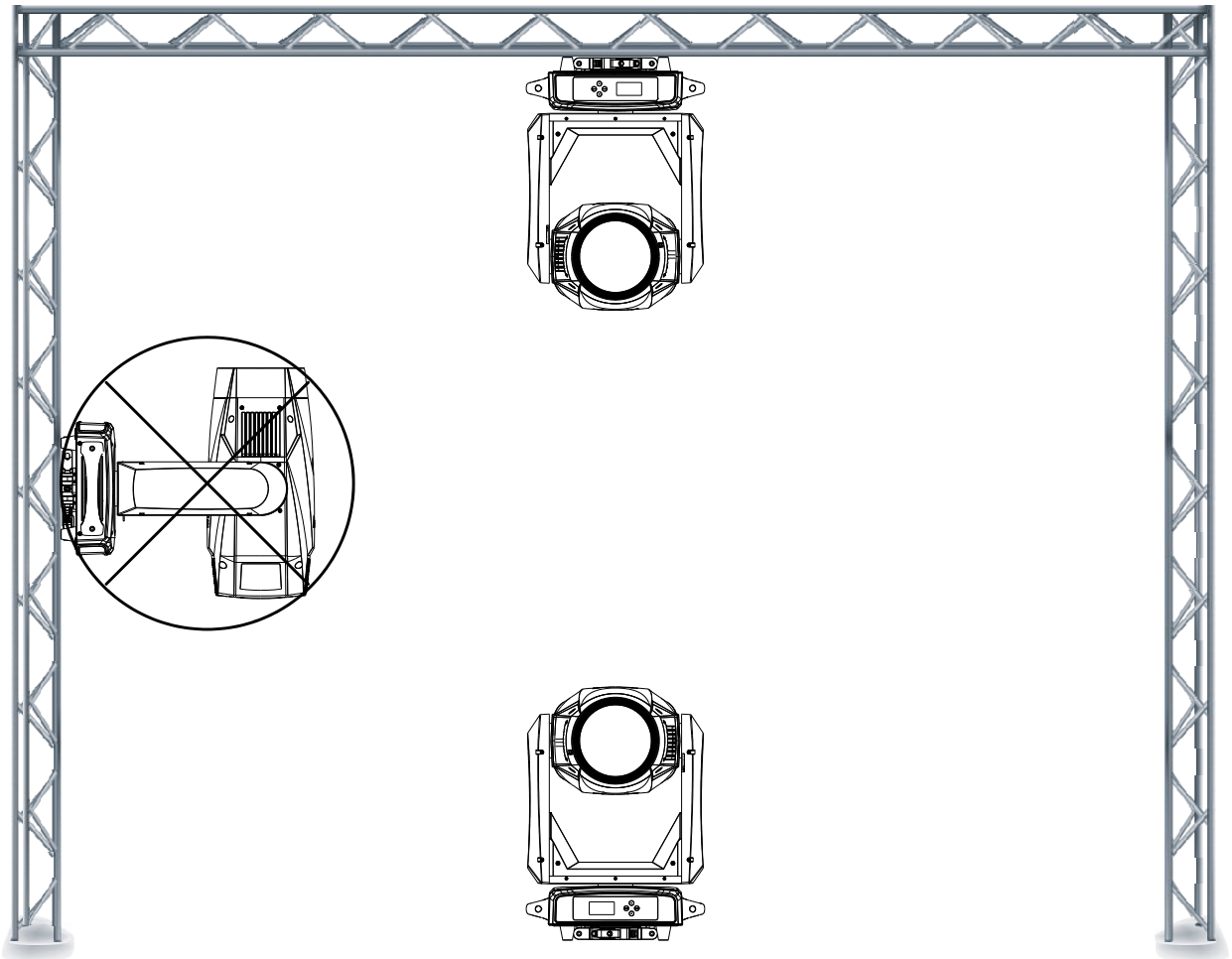
10. POWER WITCH: Turns on/off the power

4. Fixture Installation

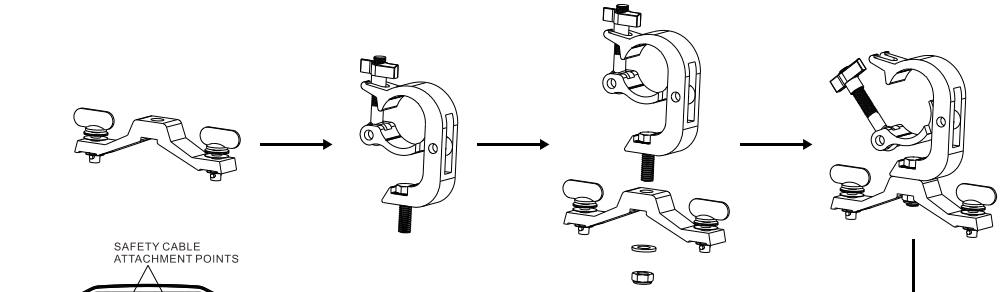
DO install and operate by qualified operator. Fixture(s) should be installed in areas outside walking paths, seating areas, or away from areas were unauthorized personnel might reach the fixture by hand. NEVER stand directly below the fixture(s) when rigging, removing or servicing.

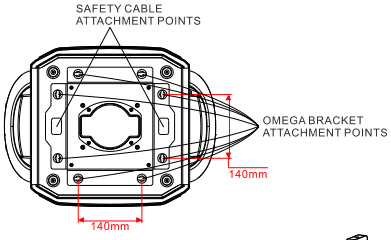
Always ensure that the unit is firmly fixed to avoid vibration and slipping off during operation. Ensure that the trussing or area of installation must be able to hold 10 times the weight without any deformation. Always attach a safety cable that can hold at least 12 times the weight of the fixture whenever installing this fixture in a suspended environment to ensure that the fixture will not fall if the clamp fails.

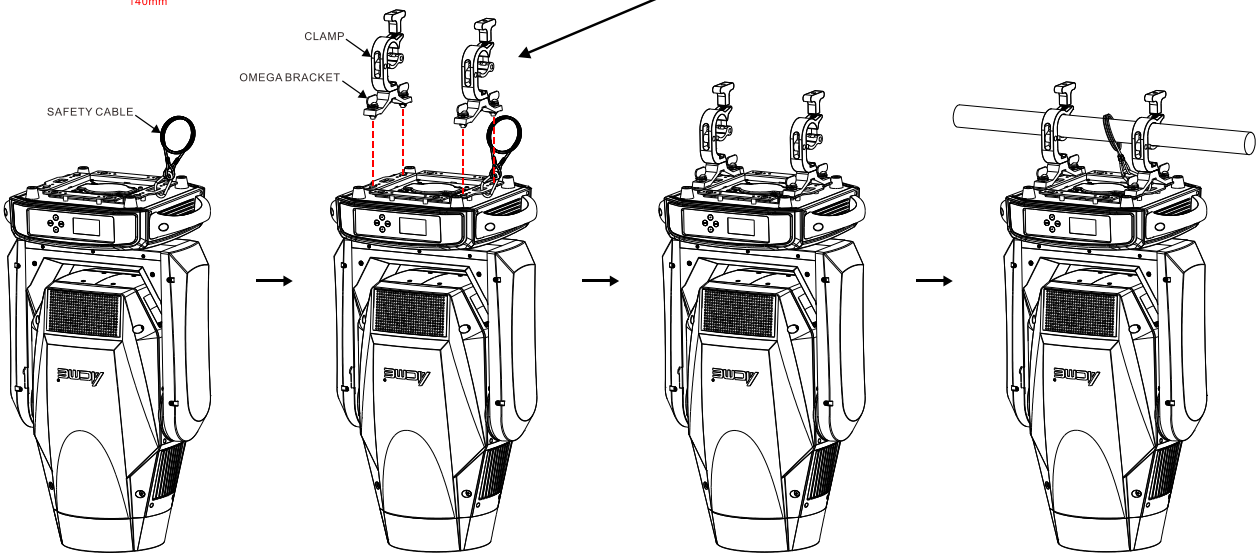
This fixture is fully operational in two different mounting positions: hanging upside-down, or set on a flat level surface. DO NOT mount this fixture sideways on trussing. Always use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.



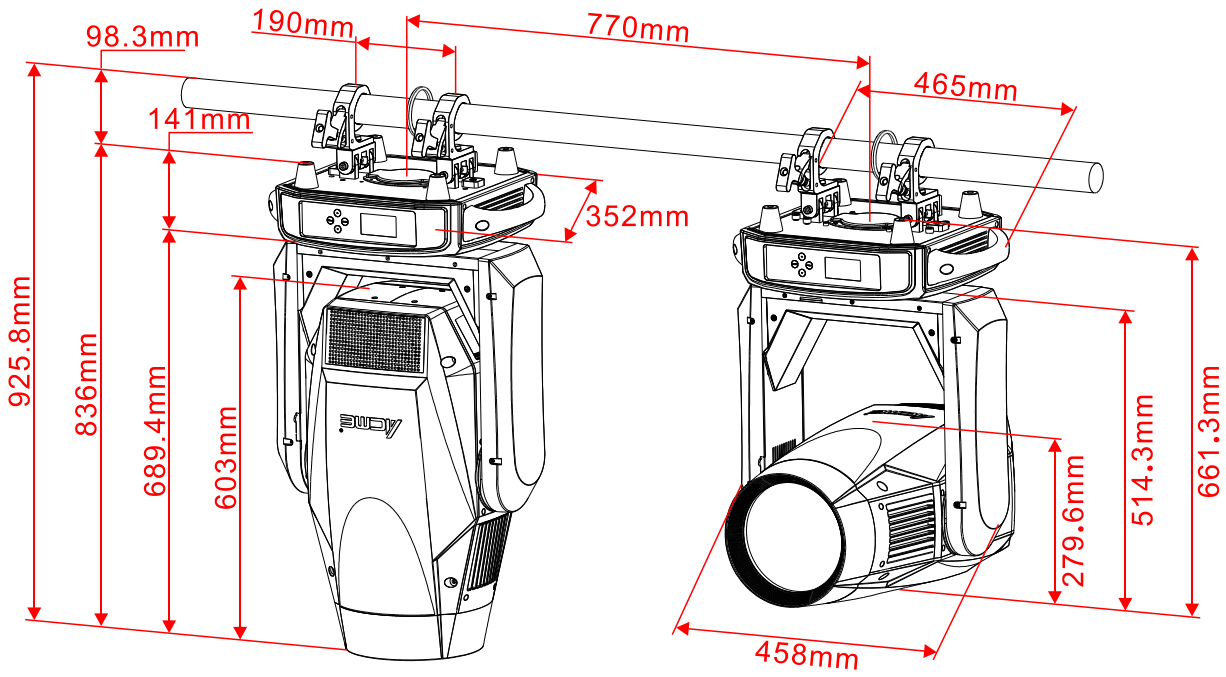
Installation for version without fixed clamps:

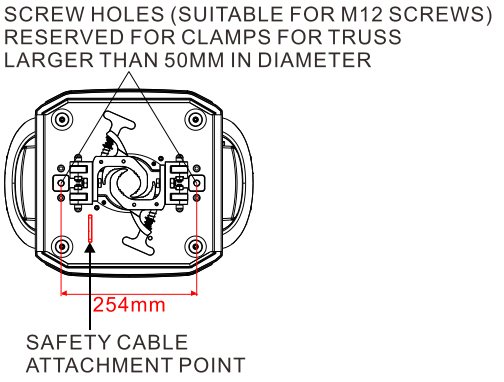


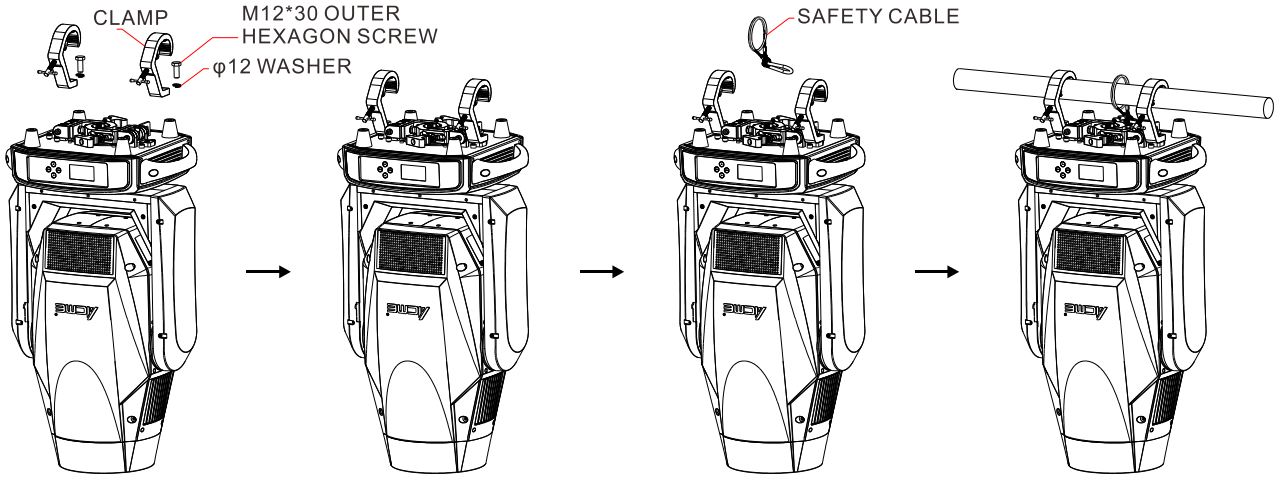




Installation for version with fixed clamps:

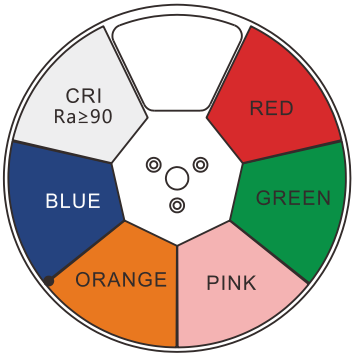




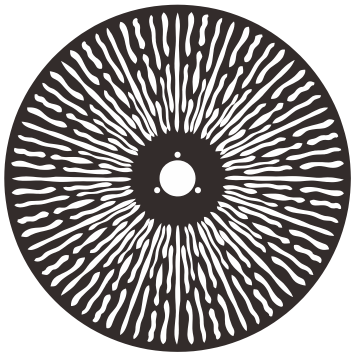


5. Effect Wheels

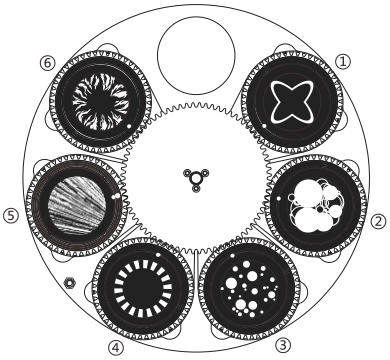
Animation Wheel Module: standard module, fixture default module.



COLOR WHEEL

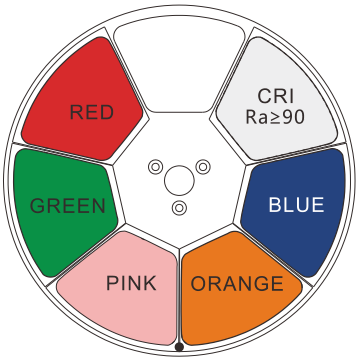


ANIMATION WHEEL

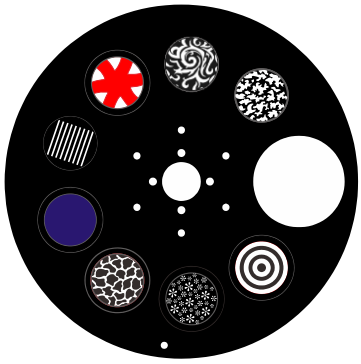


ROTATING GOBO WHEEL

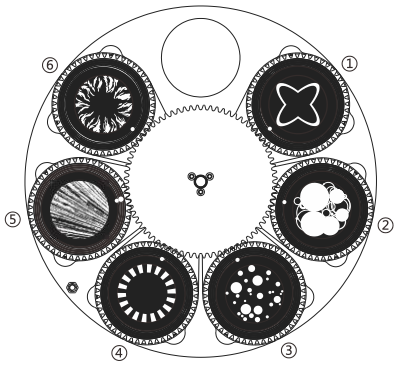
Static Gobo Wheel Module: optional module. The carton does not contain this accessory. Users can purchase and replace it according to their needs (when replacing, the standard module should be removed and replaced with the optional module).



COLOR WHEEL



STATIC GOBO WHEEL

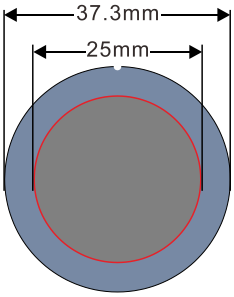


ROTATING GOBO WHEEL

DANGER!
Install the rotating gobos with the device switched off only.
Unplug from mains before changing the rotating gobos!

CAUTION: Never unscrew the screws of the rotating gobo as the ball bearing will otherwise be opened!

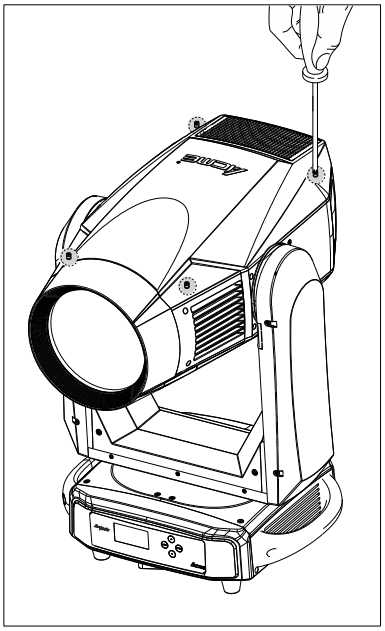
R-Gobos	Part Number
① Gobo1	3011000985
② Gobo2	3011000986
③ Gobo3	3011000987
④ Gobo4	3011000992
⑤ Gobo5	3011000946
⑥ Gobo6	3011000990

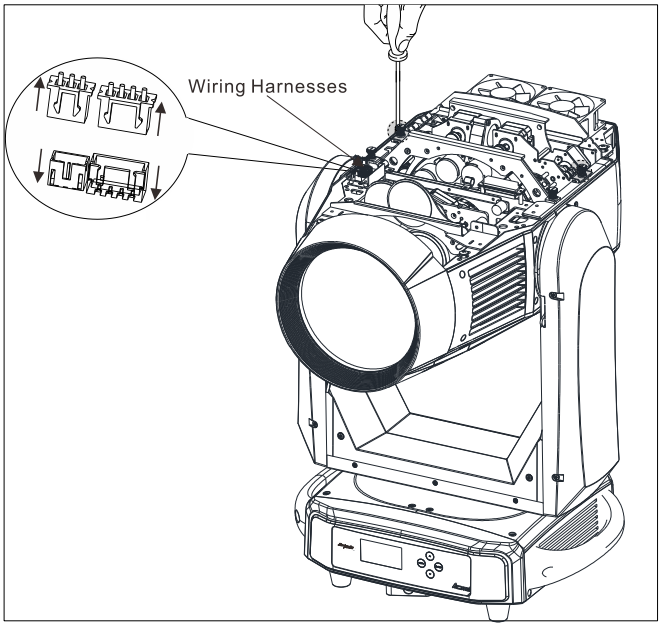


Rotating Gobos Dimensions

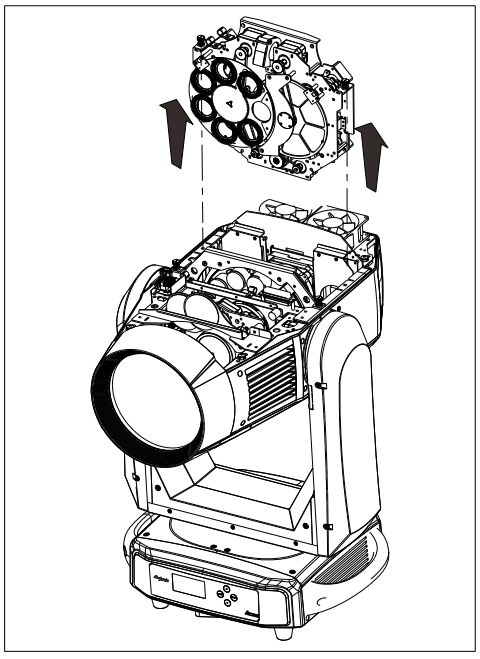
5.1 Replacing Modules

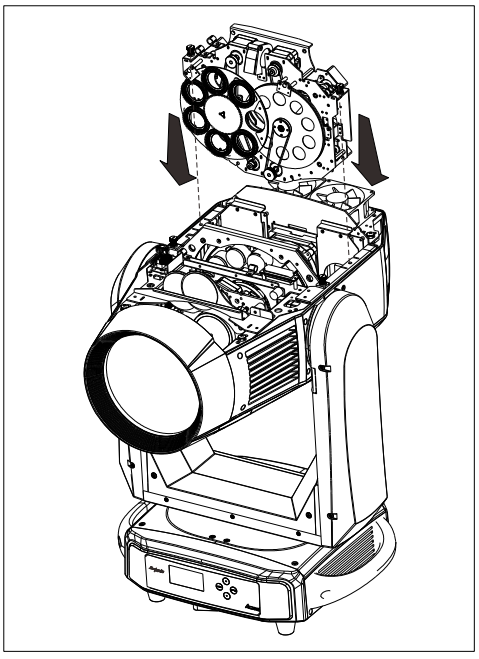
This fixture has two kinds of modules, animation wheel module and static gobo wheel module, which can be replaced. After replacement, the program will automatically identify which module the current module is. After successful identification, the program will automatically switch to the version suitable for the current module.



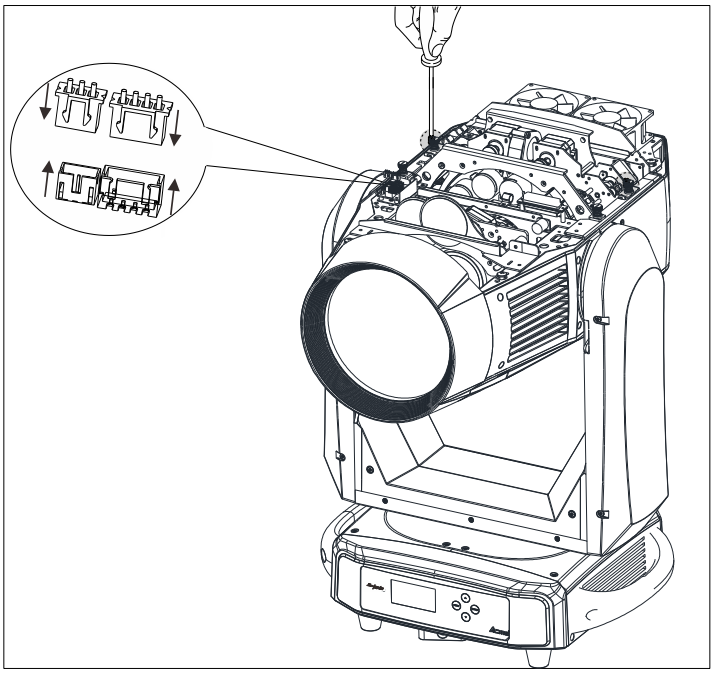


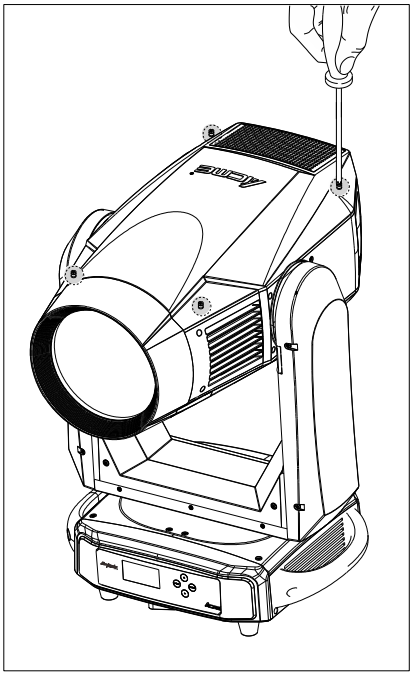
- Unscrew four screws to remove the fixture head cover.
- Loosen two screws on both sides of the animation wheel module and disconnect the wiring harnesses.





- Grasp the module using the support structure to avoid damage to the fixture, gently remove the module along the direction of the arrow.
- Gently place the static gobo wheel module into the recess along the direction of the arrow.





- Tighten two screws on both sides of the static gobo wheel module and connect the wiring harnesses.
- Reinstall the fixture head cover before reapplying power.

(To avoid damaging the electronic board of the fixture, do not disconnect the wiring harnesses when the fixture is powered on.)

6. How to Set the Fixture

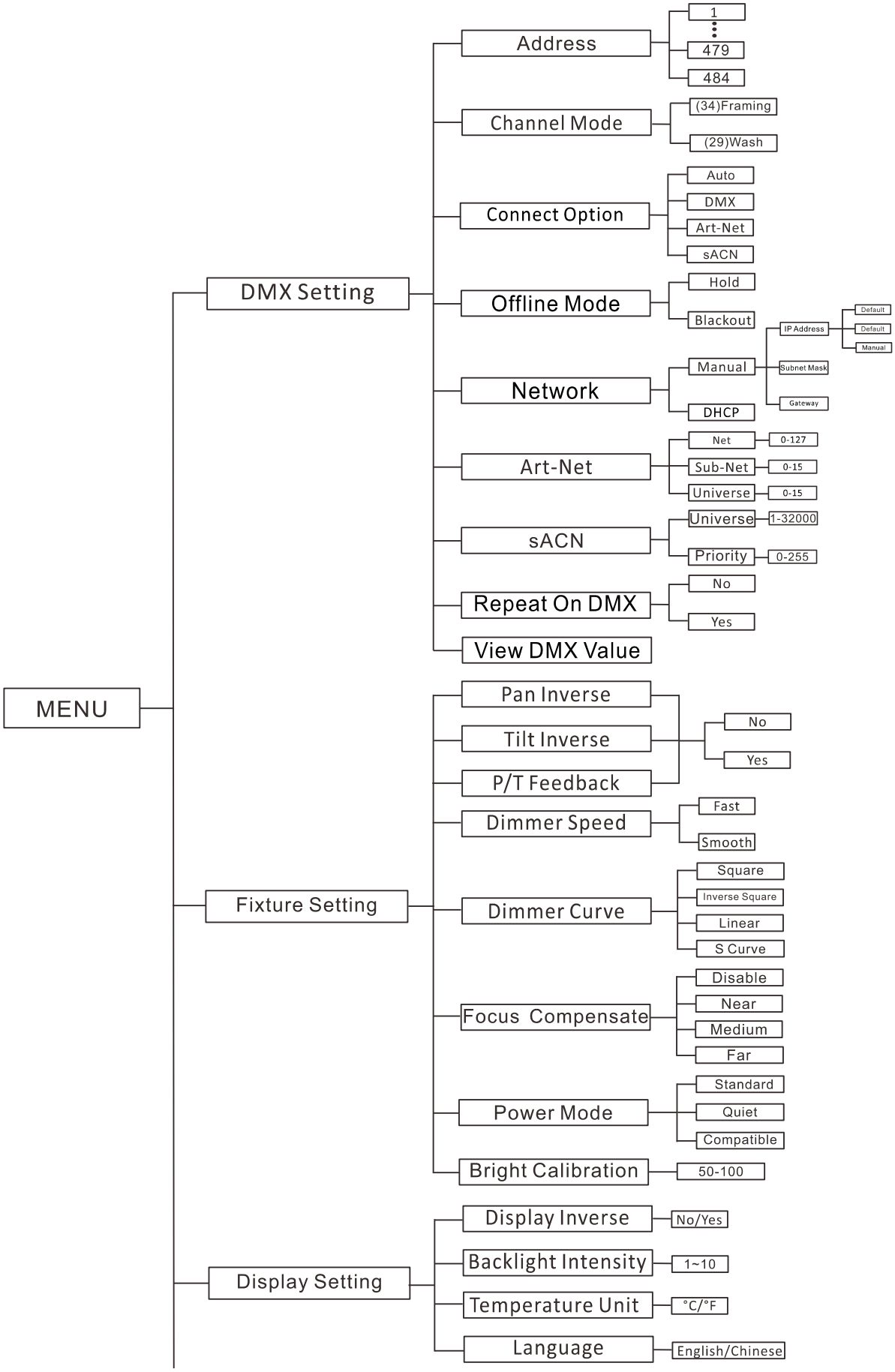
This fixture has two kinds of modules, animation wheel module and static gobo wheel module, which can be replaced. After replacement, the program will automatically identify which module the current module is. After successful identification, the program will automatically switch to the version suitable for the current module.

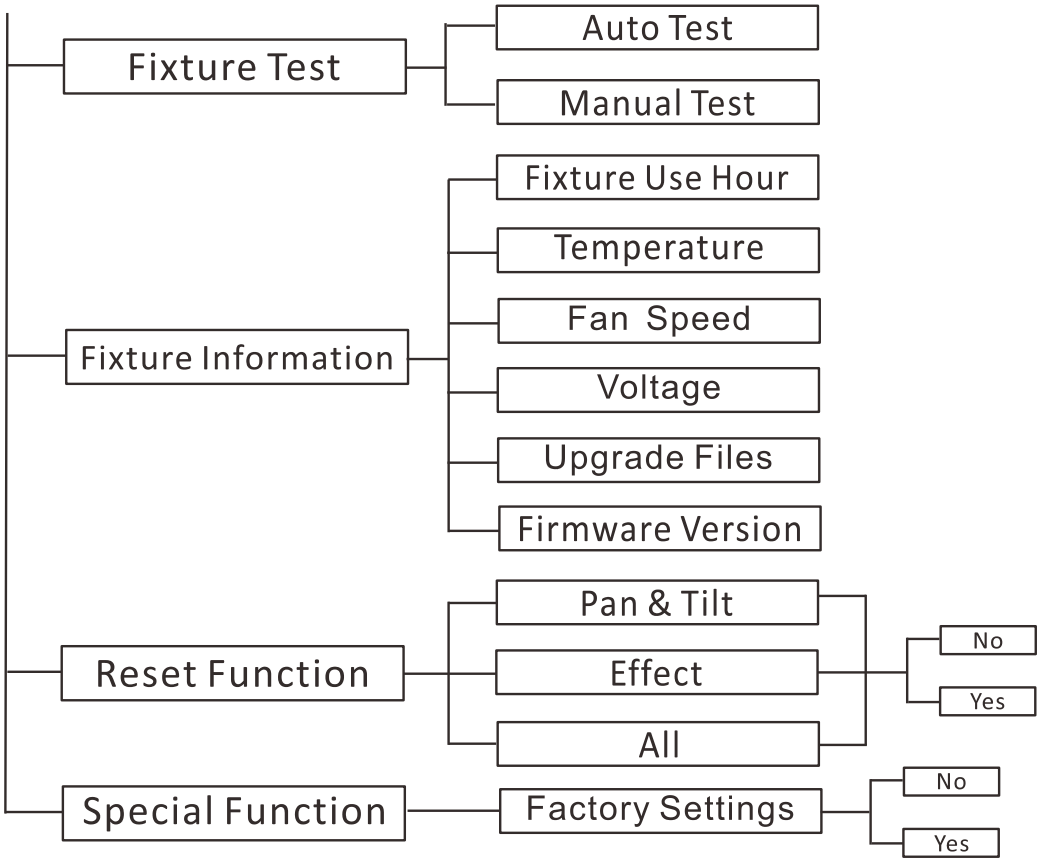
6.1 Animation Wheel Module

6.1.1 Animation Wheel Module Main Function

Turn on the unit, press the MENU button into menu mode, and press the UP/DOWN button until the required function is shown on the monitor. Select the function by pressing the ENTER button. Use the UP/DOWN button to choose the submenu, press the ENTER button to store and automatically return to the last menu. Press the MENU button or let the unit idle 30 seconds to exit menu mode.

The main functions are shown below:


MENU
DMX Setting
Address
1
479
484
Channel Mode
(34)Framing
(29)Wash
Connect Option
Auto
DMX
Art-Net
sACN
Offline Mode
Hold
Blackout
Network
Manual
IP Address
Default
Default
Manual
Subnet Mask
Gateway
DHCP
Art-Net
Net
0-127
Sub-Net
0-15
Universe
0-15
sACN
Universe
1-32000
Priority
0-255
Repeat On DMX
No
Yes
View DMX Value
Fixture Setting
Pan Inverse
Tilt Inverse
P/T Feedback
No
Yes
Dimmer Speed
Fast
Smooth
Dimmer Curve
Square
Inverse Square
Linear
S Curve
Focus Compensate
Disable
Near
Medium
Far
Power Mode
Standard
Quiet
Compatible
Bright Calibration
50-100
Display Setting
Display Inverse
No/Yes
Backlight Intensity
1~10
Temperature Unit
°C/°F
Language
English/Chinese



DMX Setting

To select **DMX Setting,** press the **ENTER** button to confirm, use the **UP/DOWN** button to select **Address**, **Channel Mode**, **Connect Option**, **Offline Mode**, **Network**, **Art-Net**, **sACN**, **Repeat On DMX** or **View DMX Value.**

Address

To select **Address**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to adjust the address from **001** to **479/484**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Channel Mode

To select **Channel Mode**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **(34)Framing** or **(29)Wash**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Connect Option

To select **Connect Option**, press the **ENTER** button to confirm. Use the **UP/DOWN** button to select **Auto**, **DMX, Art-Net** or **sACN**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Offline Mode

To select **Offline Mode**, press the **ENTER** button to confirm. Use the **UP**/**DOWN** button to select **Hold** or **Blackout**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Network

To select **Network**, press the **ENTER** button to confirm. Use the **UP**/**DOWN** button to select **Manual** or **DHCP**, press the **ENTER** button to store. To select **Manual**, press the **ENTER** button to confirm. Use the **UP**/**DOWN** button to select **IP Address, Subnet Mask** or **Gateway**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Art-Net

To select **Art-Net**, press the **ENTER** button to confirm. Use the **UP**/**DOWN** button to select **Net**, **Sub-Net** or **Universe**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

sACN

To select **sACN**, press the **ENTER** button to confirm. Use the **UP**/**DOWN** button to select **Universe** or **Priority**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Repeat On DMX

To select **Repeat On DMX**, press the **ENTER** button to confirm. Use the **UP**/**DOWN** button to select **No** or **Yes**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

View DMX Value

To select **View DMX Value**, press the **ENTER** button to confirm. Use the **UP**/**DOWN** button to view the DMX channel value. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Fixture Setting

To select **Fixture Setting**, press the **ENTER** button to confirm, use the **UP**/**DOWN** button to select **Pan Inverse, Tile Inverse, P/T Feedback**, **Dimmer Speed**, **Dimmer Curve, Focus Compensate, Power Mode** or **Bright Calibration.**

Pan Inverse

To select **Pan Inverse**, press the **ENTER** button to confirm. Use the **UP**/**DOWN** button to select **No** (normal) or **Yes** (pan inverse), press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Tilt Inverse

To select **Tilt Inverse**, press the **ENTER** button to confirm. Use the **UP**/**DOWN** button to select **No** (normal) or **Yes** (tilt inverse), press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

P/T Feedback

To select **P/T Feedback**, press the **ENTER** button to confirm. Use the **UP**/**DOWN** button to select **No** (Pan or tilt's position will not feedback while out of step) or **Yes** (Feedback while pan/tilt out of step), press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

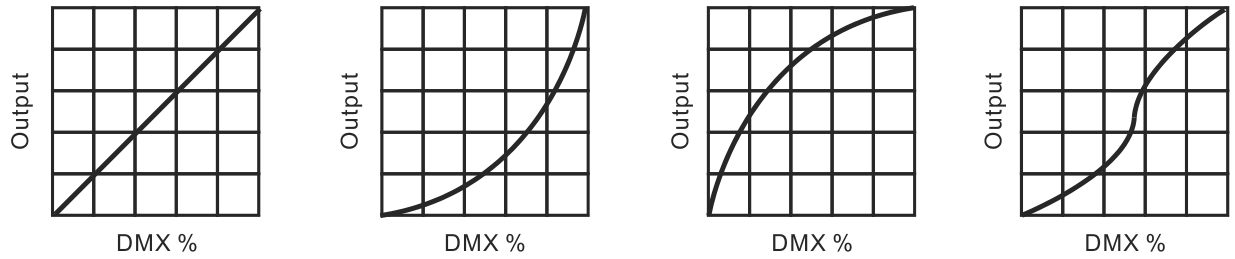
Dimmer Speed

To select **Dimmer Speed**, press the **ENTER** button to confirm. Use the **DOWN**/**UP** button to select **Fast** or **Smooth**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Dimmer Curve

To select **Dimmer Curve**, press the **ENTER** button to confirm. Use the **DOWN**/**UP** button to select **Square, Inverse Square, Linear** or **S Curve**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Dimmer Modes



Focus Compensate

To select **Focus Compensate**, press the **ENTER** button to confirm. Use the **UP**/**DOWN** button to select **Disable, Near, Medium** or **Far**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Power Mode

To select **Power Mode**, press the **ENTER** button to confirm. Use the **UP**/**DOWN** button to select **Standard**, **Quiet** or **Compatible**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Bright Calibration

Select **Bright Calibration**, press the **ENTER** button to confirm, present mode will blink on the display, use the **UP**/**DOWN** button to adjust value from **50** to **100**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Display Setting

Enter menu mode, select **Display Setting**, press the **ENTER** button to confirm, use the **UP**/**DOWN** button to select **Display Inverse, Backlight Intensity, Temperature Unit** or **Language.**

Display Inverse

Select **Display Inverse**, press the **ENTER** button to confirm, present mode will blink on the display, use the **UP**/**DOWN** button to select **No** (normal display) or **Yes** (inverse display), press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Backlight Intensity

Select **Backlight Intensity**, press the **ENTER** button to confirm, present mode will blink on the display, use the **UP**/**DOWN** button to adjust value from **1** to **10**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Temperature Unit

Select **Temperature Unit**, press the **ENTER** button to confirm, present mode will blink on the display, use the **UP**/**DOWN** button to select ℃ or ℉, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Language

Select **Language**, press the **ENTER** button to confirm, present mode will blink on the display, use the **UP**/**DOWN** button to select **English** or **Chinese**. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Fixture Test

Enter menu mode, select **Fixture Test**, press the **ENTER** button to confirm, use the **UP**/**DOWN** button to select **Auto Test** or **Manual Test**

Auto Test

Select **Auto Test**, press the **ENTER** button to confirm, the unit will run built-in programs to automatically test its functions. Press the **MENU** button back to the last menu or exit menu mode after auto test.

Manual Test

Select **Manual Test**, press the **ENTER** button to confirm, the present channel will show on the display, use the **UP/DOWN** button to select channel, press the **ENTER** button to confirm, then use the **UP/DOWN** button to adjust the value, press the **ENTER** button to store, the fixture will run as the channel value indicates. Press the **MENU** button back to the last menu or exit menu mode idling 30 seconds.

(All channels value will become 0 after exiting Manual Test menu)

Fixture Information

Enter menu mode, select **Fixture Information**, press the **ENTER** button to confirm, use the **UP**/**DOWN** button to select **Fixture Use Hour, Temperature, Fan Speed, Voltage, Upgrade Files** or **Firmware Version.**

Fixture Use Hour

Select **Fixture Use Hour**, press the **ENTER** button to confirm, fixture use time will show on the display, press the **MENU** button to exit.

Temperature

Select **Temperature**, press the **ENTER** button to confirm, fixture temperature will show on the display, press the **MENU** button to exit.

Fan Speed

Select **Fan Speed**, press the **ENTER** button to confirm, fan speed will show on the display, press the **MENU** button to exit.

Voltage

Select **Voltage**, press the **ENTER** button to confirm, fixture's voltage will show on the display, press the **MENU** button to exit.

Upgrade Files

Select **Upgrade Files**, press the **ENTER** button to confirm, upgrade files will show on the display, press the **MENU** button to exit.

Firmware Version

Select **Firmware Version**, press the **ENTER** button to confirm, firmware version will show on the display, press the **MENU** button back to exit.

Reset Function

Enter menu mode, select **Reset Function**, press the **ENTER** button to confirm, use the **UP**/**DOWN** button to select **Pan & Tilt, Effect** or **All.**

Pan & Tilt

Select **Pan & Tilt**, press the **ENTER** button to confirm, use the **UP**/**DOWN** button to select **No**(normal) or **Yes** (the unit will run built-in program to reset pan and tilt to their home positions), press the **ENTER** button to store. Press the **MENU** button to exit.

Effect

Select **Effect,** press the **ENTER** button to confirm, use the **UP**/**DOWN** button to select **No**(normal) or **Yes** (the unit will run built-in program to reset effect to their home positions), press the **ENTER** button to store. Press the **MENU** button to exit.

All

Select **All,** press the **ENTER** button to confirm, use the **UP**/**DOWN** button to select **No**(normal) or **Yes** (the unit will run built-in program to reset all motors to their home positions), press **ENTER** button to store. Press the **MENU** button to exit.

Special Function

Factory Settings

Select **Factory Settings,** press the **ENTER** button to confirm, use the **UP**/**DOWN** button to select **No** (normal) or **Yes** (the fixture will reset to factory settings), press **ENTER** button to store. Press the **MENU** button to exit.

RDM FUNCTIONS

Select the MANUFACTURER menu to display the manufacturer of the fixture.

Select the SOFTWARE VERSION menu and the program version number of the fixture will be displayed.

Select the DMX START ADDRESS menu to change the DMX 512 address (001-512).

Select the DEVICE MODEL DESCRIPTION menu to display the model of the fixture.

Select the DEVICE LABEL menu to change the model of the fixture.

Select the DMX PERSONALITY menu to set the channel mode of the fixture (34⁄29 channel).

Select the DMX PERSONALITY DESCRIPTION menu to display the current channel mode of the fixture.

Select the DEVICE HOURS menu to display the running time of the fixture.

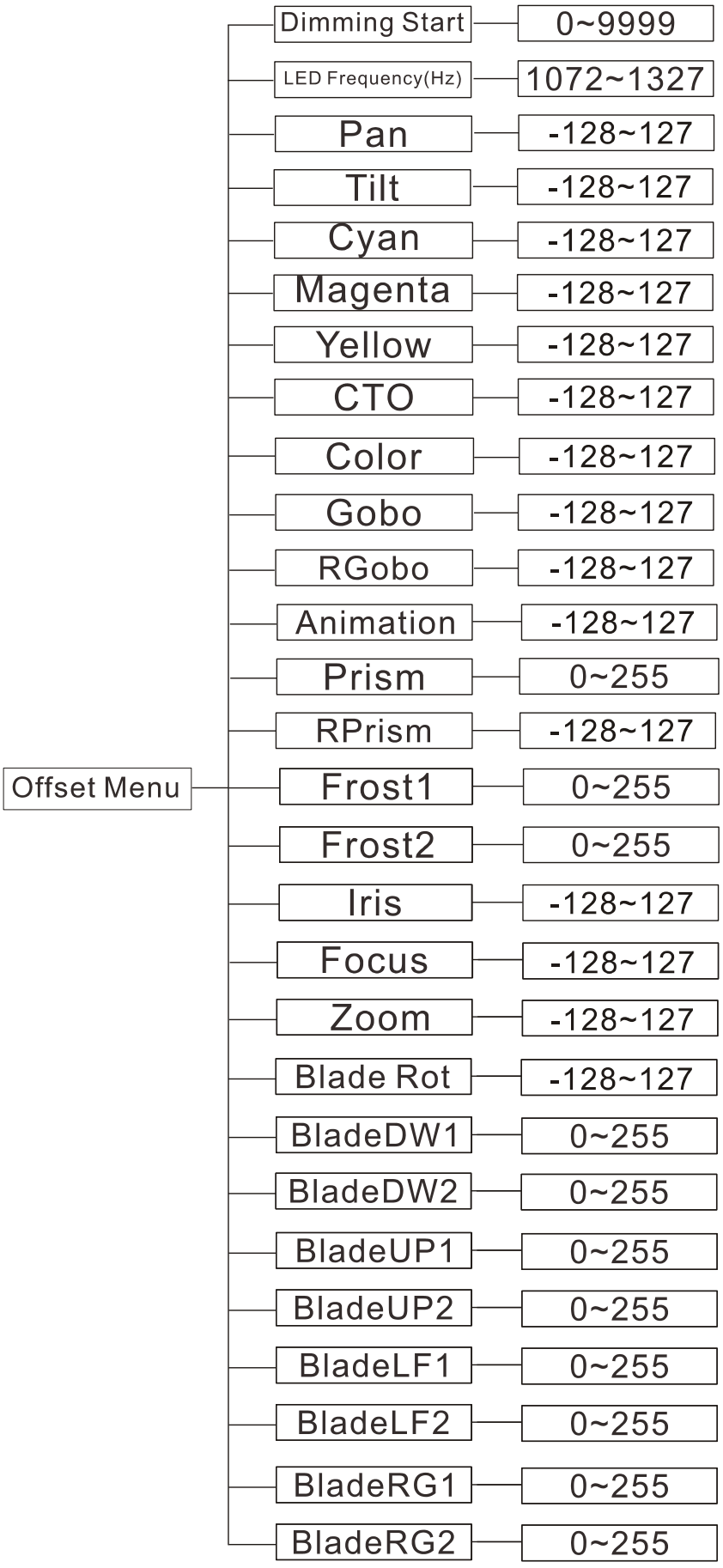
Select the PAN INVERT menu and the fixture will run the pan invert mode.

Select the TILT INVERT menu and the fixture will run the tilt invert mode.

Select the RESET DEVICE menu, the WARM RESET/COLD RESET option will be displayed. When WARM RESET is selected, the fixture will start a warm reset, and exit when COLD RESET is selected.

6.1.2 Animation Wheel Module Home Position Adjustment

Press the MENU button into menu mode, then press the ENTER button for about 3 seconds into offset mode to adjust the home position. Select the function by pressing the ENTER button. Use the UP/DOWN button to choose the submenu, press the ENTER button to store and automatically return to the last menu. Press MENU button to exit.


Offset Menu
Dimming Start
0~9999
LED Frequency(Hz)
1072~1327
Pan
-128~127
Tilt
-128~127
Cyan
-128~127
Magenta
-128~127
Yellow
-128~127
CTO
-128~127
Color
-128~127
Gobo
-128~127
RGobo
-128~127
Animation
-128~127
Prism
0~255
RPrism
-128~127
Frost1
0~255
Frost2
0~255
Iris
-128~127
Focus
-128~127
Zoom
-128~127
Blade Rot
-128~127
BladeDW1
0~255
BladeDW2
0~255
BladeUP1
0~255
BladeUP2
0~255
BladeLF1
0~255
BladeLF2
0~255
BladeRG1
0~255
BladeRG2
0~255

Dimming Start

Enter offset mode, Select **Dimming Start**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from 0 to 9999, press the **ENTER** button to store. Press the **MENU** button to exit.

LED Frequency(Hz)

Enter offset mode, Select **LED Frequency(Hz)**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from 1072 to 1327, press the **ENTER** button to store. Press the **MENU** button to exit.

Pan

Enter offset mode, Select **Pan**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Tilt

Enter offset mode, Select **Tilt**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Cyan

Enter offset mode, Select **Cyan**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Magenta

Enter offset mode, Select **Magenta**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Yellow

Enter offset mode, Select **Yellow**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Cto

Enter offset mode, Select **Cto**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Color

Enter offset mode, Select **Color**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Gobo

Enter offset mode, Select **Gobo**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

RGobo

Enter offset mode, Select **RGobo**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Animation

Enter offset mode, Select **Animation**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Prism

Enter offset mode, Select **Prism**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from 0 to 255, press the **ENTER** button to store. Press the **MENU** button to exit.

RPrism

Enter offset mode, Select **RPrism**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Frost1

Enter offset mode, Select **Frost1**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from 0 to 255, press the **ENTER** button to store. Press the **MENU** button to exit.

Frost2

Enter offset mode, Select **Frost2**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from 0 to 255, press the **ENTER** button to store. Press the **MENU** button to exit.

Iris

Enter offset mode, Select **Iris**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Focus

Enter offset mode, Select **Focus**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Zoom

Enter offset mode, Select **Zoom**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Blade Rot

Enter offset mode, Select **Blade Rot,** press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

BladeDW1

Enter offset mode, Select **BladeDW1**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from 000 to 255, press the **ENTER** button to store. Press the **MENU** button to exit.

BladeDW2

Enter offset mode, Select **BladeDW2**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from 000 to 255, press the **ENTER** button to store. Press the **MENU** button to exit.

BladeUP1

Enter offset mode, Select **BladeUP1**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from 000 to 255, press the **ENTER** button to store. Press the **MENU** button to exit.

BladeUP2

Enter offset mode, Select **BladeUP2**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from 000 to 255, press the **ENTER** button to store. Press the **MENU** button to exit.

BladeLF1

Enter offset mode, Select **BladeLF1**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from 000 to 255, press the **ENTER** button to store. Press the **MENU** button to exit.

BladeLF2

Enter offset mode, Select **BladeLF2**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from 000 to 255, press the **ENTER** button to store. Press the **MENU** button to exit.

BladeRG1

Enter offset mode, Select **BladeRG1**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from 000 to 255, press the **ENTER** button to store. Press the **MENU** button to exit.

BladeRG2

Enter offset mode, Select **BladeRG2**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from 000 to 255, press the **ENTER** button to store. Press the **MENU** button to exit.

6.1.3 Animation Wheel Module Address Setting

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

Press the MENU button to enter menu mode, select DMX Setting, press the ENTER button to confirm, use the UP/DOWN button to select Address, press the ENTER button to confirm, the present address will blinking the display, use the UP/DOWN button to adjust the address from 001 to 512, press the ENTER button to store. Press the MENU button back to the last menu or let the unit idle 30 seconds to exit menu mode.

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

Channel mode	Unit 1 Address	Unit 2 Address	Unit 3 Address	Unit 4 Address
34 channels	1	35	69	103
29 channels	1	30	59	88

6.1.4 Animation Wheel Module DMX512 Configuration

Please control the fixture by referring to the configurations below

Attentions:

1. The unit will maintain the last condition until reset if you cut-off the DMX signal.

2. For the channel Function, keep the value for about 3 seconds, then the corresponding function will take into effect.

34 Channels (Mode 1):

CHANNEL	VALUE	FUNCTION
1	000-255	**PAN** 0°→540°
2	000-255	**PAN FINE**
3	000-255	**TILT** 0°→270°
4	000-255	**TILT FINE**
5	000-255	**X/Y Time** Fast to Slow
6	000-255	**Cyan** 0%→100%
7	000-255	**Magenta** 0%→100%
8	000-255	**Yellow** 0%→100%
9	000-255	**CTO** 0%→100%
10	000-009 010-018 019-027 028-036 037-045 046-063 064-127 128-189 190-193 194-255	**Color** Open Color1 Color2 Color3 Color4 Color5 Color Index Fast to Slow Stop Slow to Fast
11	000-009 010-018 019-027 028-036	**Gobo** Open Gobo1 Gobo2 Gobo3

	037-045	Gobo4
	046-054	Gobo5
	055-063	Gobo6
	064-074	Gobo1 Shaking
	075-085	Gobo2 Shaking
	086-096	Gobo3 Shaking
	097-107	Gobo4 Shaking
	108-118	Gobo5 Shaking
	119-127	Gobo6 Shaking
	128-189	Fast to Slow
	190-193	Stop
	194-255	Slow to Fast
12		**R-Gobo**
	000-127	Index 0°→360°
	128-189	Fast to Slow
	190-193	Stop
	194-255	Slow to Fast
13		**Animation**
	000-007	Open
	008-129	Fast to Slow
	130-133	Stop
	134-255	Slow to Fast
14		**Iris**
	000-255	100%→0%
15		**Prism**
	000-007	Open
	008-255	Prism
16		**R-Prism**
	000-127	Index 0°→360°
	128-189	Fast to Slow
	190-193	Stop
	194-255	Slow to Fast
17		**CRI**
	000-007	Close
	008-255	Open
18		**Frost1(Light)**
	000-255	0%→100%
19		**Frost2(Heavy)**
	000-255	0%→100%
20		**Zoom**
	000-255	100%→0%
21		**Focus**
	000-255	0%→100%
22		**Strobe**
	000-007	Close

	008-015 016-131 132-139 140-181 182-189 190-231 232-239 240-247 248-255	Open Strobe Slow to Fast Open Fast Open Slow Close Open Fast Close Slow Open Open Random Strobe Open
23	000-255	**Dimmer** 0%→100%
24	000-255	**Dimmer Fine**
25	000-255	**Blade** 0°→180°
26	000-255	**Blade DW 1** 0%→100%
27	000-255	**Blade DW 2** 0%→100%
28	000-255	**Blade UP 1** 0%→100%
29	000-255	**Blade UP 2** 0%→100%
30	000-255	**Blade LF 1** 0%→100%
31	000-255	**Blade LF 2** 0%→100%
32	000-255	**Blade RG 1** 0%→100%
33	000-255	**Blade RG 2** 0%→100%
34	000-029 030-039 040-049 050-059 060-069 070-079 080-089 090-099 100-109 110-119 120-129 130-139 140-149 150-159	**SPECIAL FUNCTION** Null Dimmer Curve Square Law Dimmer Curve INV Square Law Dimmer Curve Linear Dimmer Curve S Standard Quiet Compatible Led Frequency Setting Enable Led Frequency Setting Disable Null Focus Compensate Disable Focus Compensate Near Focus Compensate Medium

	160-169	Focus Compensate Far
	170-179	Null
	180-189	Dimmer Speed Fast
	190-199	Dimmer Speed Smooth
	200-209	Reset All
	210-219	Reset Effect
	220-229	Reset Pan/Tilt
	230-255	Null

29 Channels (Mode 2):

CHANNEL	VALUE	FUNCTION
1	000-255	**PAN** 0°→540°
2	000-255	**Pan Fine**
3	000-255	**TILT** 0 ° → 270°
4	000-255	**Tilt Fine**
5	000-255	**X/Y Time** Fast to Slow
6	000-255	**Cyan** 0%→100%
7	000-255	**Magenta** 0%→100%
8	000-255	**Yellow** 0%→100%
9	000-255	**CTO** 0%→100%
10	000-009 010-018 019-027 028-036 037-045 046-063 064-127 128-189 190-193 194-255	**Color** Open Color1 Color2 Color3 Color4 Color5 Color Index Fast to Slow Stop Slow to Fast
11	000-255	**Iris** 0%→100%
12		**CRI**

	000-007 008-255	Close Open
13	000-255	**Frost1(Light)** 0%→100%
14	000-255	**Frost2(Heavy)** 0%→100%
15	000-255	**Zoom** 100%→0%
16	000-255	**Focus** 0%→100%
17	000-007 008-015 016-131 132-139 140-181 182-189 190-231 232-239 240-247 248-255	**Strobe** Close Open Strobe Slow to Fast Open Fast Open Slow Close Open Fast Close Slow Open Open Random Strobe Open
18	000-255	**Dimmer** 0%→100%
19	000-255	**Dimmer Fine**
20	000-255	**Blade** 0°→180°
21	000-255	**Blade DW 1** 0%→100%
22	000-255	**Blade DW 2** 0%→100%
23	000-255	**Blade UP 1** 0%→100%
24	000-255	**Blade UP 2** 0%→100%
25	000-255	**Blade LF 1** 0%→100%
26	000-255	**Blade LF 2** 0%→100%
27	000-255	**Blade RG 1** 0%→100%
28	000-255	**Blade RG 2** 0%→100%
29	000-029	**SPECIAL FUNCTION** Null

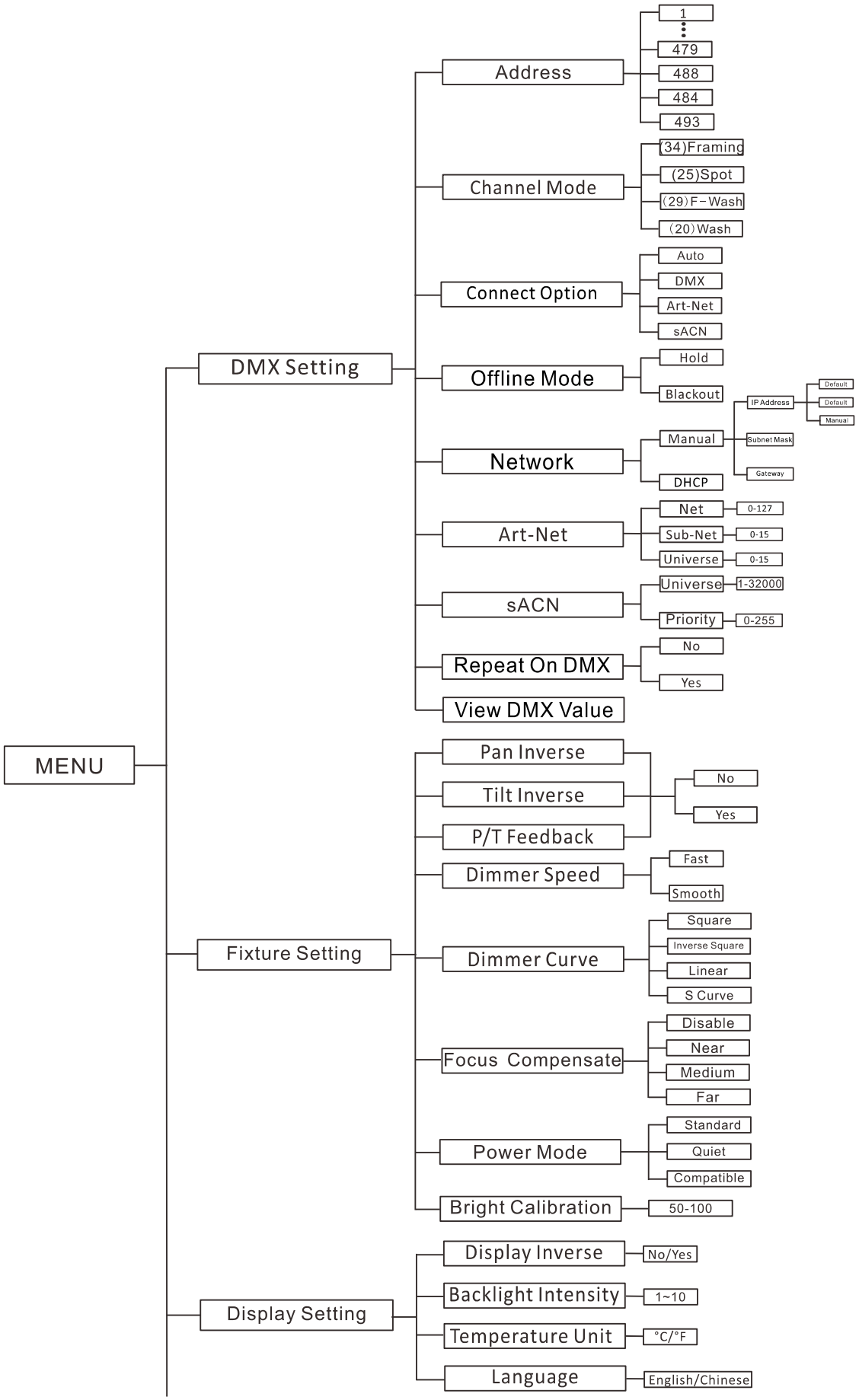
	030-039	Dimmer Curve Square Law
	040-049	Dimmer Curve INV Square Law
	050-059	Dimmer Curve Linear
	060-069	Dimmer Curve S
	070-079	Standard
	080-089	Quiet
	090-099	Compatible
	100-109	Led Frequency Setting Enable
	110-119	Led Frequency Setting Disable
	120-129	Null
	130-139	Focus Compensate Disable
	140-149	Focus Compensate Near
	150-159	Focus Compensate Medium
	160-169	Focus Compensate Far
	170-179	Null
	180-189	Dimmer Speed Fast
	190-199	Dimmer Speed Smooth
	200-209	Reset All
	210-219	Reset Effect
	220-229	Reset Pan/Tilt
	230-255	Null

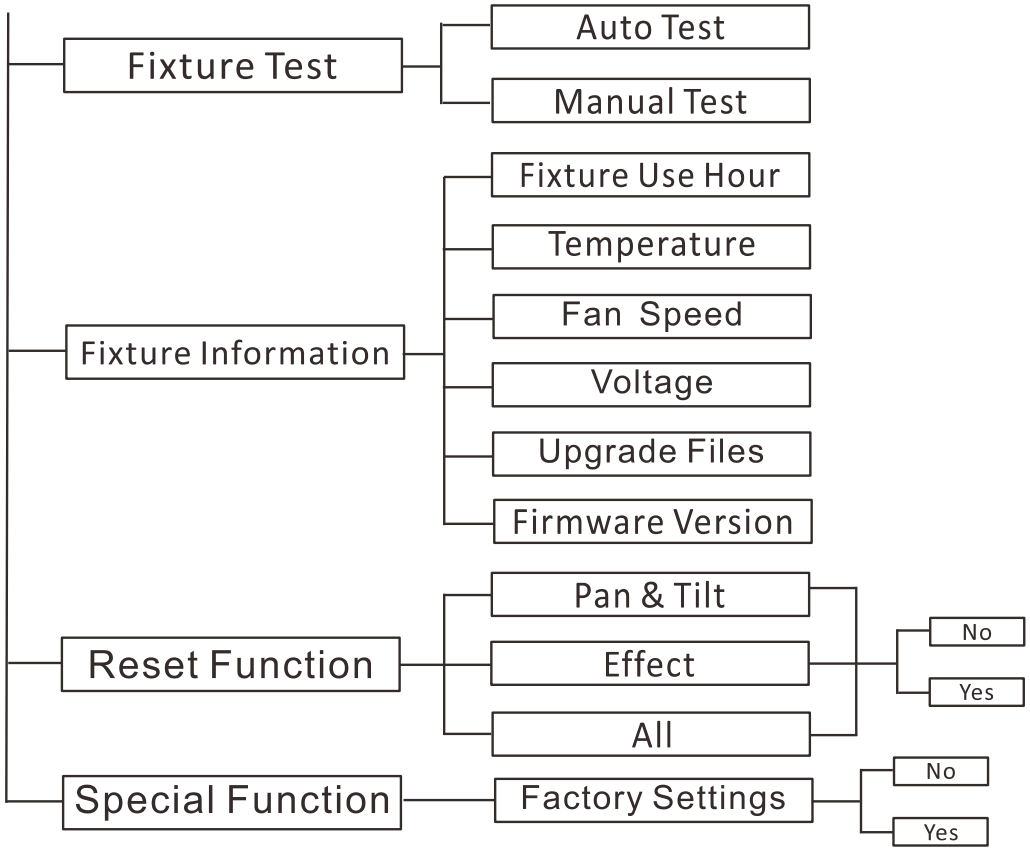
6.2 Static Gobo Wheel Module

6.2.1 Static Gobo Wheel Module Main Function

Turn on the unit, press the MENU button into menu mode, and press the UP/DOWN button until the required function is shown on the monitor. Select the function by pressing the ENTER button. Use the UP/DOWN button to choose the submenu, press the ENTER button to store and automatically return to the last menu. Press the MENU button or let the unit idle 30 seconds to exit menu mode.

The main functions are shown below:


MENU
DMX Setting
Address
1
479
488
484
493
Channel Mode
(34)Framing
(25)Spot
(29)F-Wash
(20)Wash
Connect Option
Auto
DMX
Art-Net
sACN
Offline Mode
Hold
Blackout
Network
Manual
IP Address
Default
Default
Manual
Subnet Mask
Gateway
DHCP
Art-Net
Net
0-127
Sub-Net
0-15
Universe
0-15
sACN
Universe
1-32000
Priority
0-255
Repeat On DMX
No
Yes
View DMX Value
Fixture Setting
Pan Inverse
Tilt Inverse
P/T Feedback
No
Yes
Dimmer Speed
Fast
Smooth
Dimmer Curve
Square
Inverse Square
Linear
S Curve
Focus Compensate
Disable
Near
Medium
Far
Power Mode
Standard
Quiet
Compatible
Bright Calibration
50-100
Display Setting
Display Inverse
No/Yes
Backlight Intensity
1~10
Temperature Unit
°C/°F
Language
English/Chinese



DMX Setting

To select **DMX Setting,** press the **ENTER** button to confirm, use the **UP**/**DOWN** button to select **Address**, **Channel Mode**, **Connect Option**, **Offline Mode**, **Network**, **Art-Net**, **sACN**, **Repeat On DMX** or **View DMX Value.**

Address

To select **Address**, press the **ENTER** button to confirm. Use the **UP**/**DOWN** button to adjust the address from **001** to **479/488/484/493**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Channel Mode

To select **Channel Mode**, press the **ENTER** button to confirm. Use the **UP**/**DOWN** button to select **(34)Framing, (25)Spot, (29)F-Wash** or **(20)Wash**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Connect Option

To select **Connect Option**, press the **ENTER** button to confirm. Use the **UP**/**DOWN** button to select **Auto**, **DMX, Art-Net** or **sACN**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Offline Mode

To select **Offline Mode**, press the **ENTER** button to confirm. Use the **UP**/**DOWN** button to select **Hold** or **Blackout**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Network

To select **Network**, press the **ENTER** button to confirm. Use the **UP**/**DOWN** button to select **Manual** or **DHCP**, press the **ENTER** button to store. To select **Manual**, press the **ENTER** button to confirm. Use the **UP**/**DOWN** button to select **IP Address, Subnet Mask** or **Gateway**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Art-Net

To select **Art-Net**, press the **ENTER** button to confirm. Use the **UP**/**DOWN** button to select **Net**, **Sub-Net** or **Universe**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

sACN

To select **sACN**, press the **ENTER** button to confirm. Use the **UP**/**DOWN** button to select **Universe** or **Priority**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Repeat On DMX

To select **Repeat On DMX**, press the **ENTER** button to confirm. Use the **UP**/**DOWN** button to select **No** or **Yes**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

View DMX Value

To select **View DMX Value**, press the **ENTER** button to confirm. Use the **UP**/**DOWN** button to view the DMX channel value. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Fixture Setting

To select **Fixture Setting**, press the **ENTER** button to confirm, use the **UP**/**DOWN** button to select **Pan Inverse, Tile Inverse, P/T Feedback**, **Dimmer Speed**, **Dimmer Curve, Focus Compensate, Power Mode** or **Bright Calibration.**

Pan Inverse

To select **Pan Inverse**, press the **ENTER** button to confirm. Use the **UP**/**DOWN** button to select **No** (normal) or **Yes** (pan inverse), press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Tilt Inverse

To select **Tilt Inverse**, press the **ENTER** button to confirm. Use the **UP**/**DOWN** button to select **No** (normal) or **Yes** (tilt inverse), press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

P/T Feedback

To select **P/T Feedback**, press the **ENTER** button to confirm. Use the **UP**/**DOWN** button to select **No** (Pan or tilt's position will not feedback while out of step) or **Yes** (Feedback while pan/tilt out of step), press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

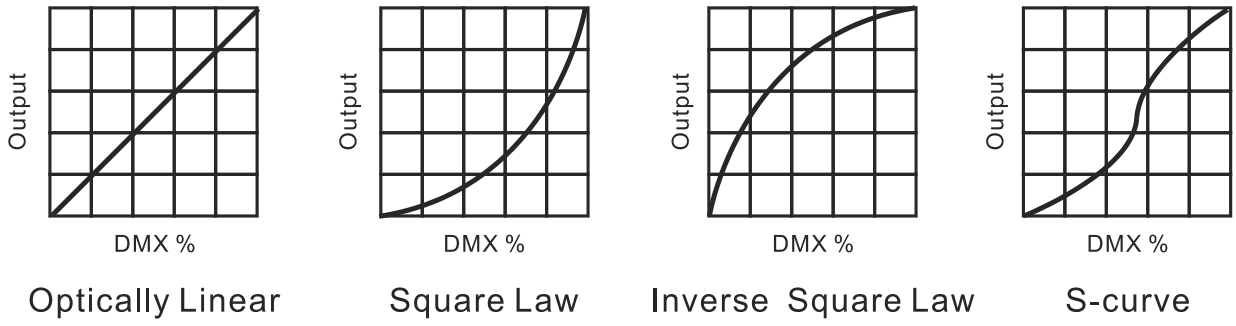
Dimmer Speed

To select **Dimmer Speed**, press the **ENTER** button to confirm. Use the **DOWN**/**UP** button to select **Fast** or **Smooth**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Dimmer Curve

To select **Dimmer Curve**, press the **ENTER** button to confirm. Use the **DOWN**/**UP** button to select **Square, Inverse Square, Linear** or **S Curve**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Dimmer Modes



Focus Compensate

To select **Focus Compensate**, press the **ENTER** button to confirm. Use the **UP**/**DOWN** button to select **Disable, Near, Medium** or **Far**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Power Mode

To select **Power Mode**, press the **ENTER** button to confirm. Use the **UP**/**DOWN** button to select **Standard**, **Quiet** or **Compatible**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Bright Calibration

Select **Bright Calibration**, press the **ENTER** button to confirm, present mode will blink on the display, use the **UP**/**DOWN** button to adjust value from **50** to **100**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Display Setting

Enter menu mode, select **Display Setting**, press the **ENTER** button to confirm, use the **UP**/**DOWN** button to select **Display Inverse, Backlight Intensity, Temperature Unit** or **Language.**

Display Inverse

Select **Display Inverse**, press the **ENTER** button to confirm, present mode will blink on the display, use the **UP**/**DOWN** button to select **No** (normal display) or **Yes** (inverse display), press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Backlight Intensity

Select **Backlight Intensity**, press the **ENTER** button to confirm, present mode will blink on the display, use the **UP**/**DOWN** button to adjust value from **1** to **10**, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Temperature Unit

Select **Temperature Unit**, press the **ENTER** button to confirm, present mode will blink on the display, use the **UP**/**DOWN** button to select ℃ or ℉, press the **ENTER** button to store. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Language

Select **Language**, press the **ENTER** button to confirm, present mode will blink on the display, use the **UP**/**DOWN** button to select **English** or **Chinese**. Press the **MENU** button back to the last menu or let the unit idle 30 seconds to exit menu mode.

Fixture Test

Enter menu mode, select **Fixture Test**, press the **ENTER** button to confirm, use the **UP**/**DOWN** button to select **Auto Test** or **Manual Test**

Auto Test

Select **Auto Test**, press the **ENTER** button to confirm, the unit will run built-in programs to automatically test its functions. Press the **MENU** button back to the last menu or exit menu mode after auto test.

Manual Test

Select **Manual Test**, press the **ENTER** button to confirm, the present channel will show on the display, use the **UP/DOWN** button to select channel, press the **ENTER** button to confirm, then use the **UP/DOWN** button to adjust the value, press the **ENTER** button to store, the fixture will run as the channel value indicates. Press the **MENU** button back to the last menu or exit menu mode idling 30 seconds.

(All channels value will become 0 after exiting Manual Test menu)

Fixture Information

Enter menu mode, select **Fixture Information**, press the **ENTER** button to confirm, use the **UP**/**DOWN** button to select **Fixture Use Hour, Temperature, Fan Speed, Voltage, Upgrade Files** or **Firmware Version.**

Fixture Use Hour

Select **Fixture Use Hour**, press the **ENTER** button to confirm, fixture use time will show on the display, press the **MENU** button to exit.

Temperature

Select **Temperature**, press the **ENTER** button to confirm, fixture temperature will show on the display, press the **MENU** button to exit.

Fan Speed

Select **Fan Speed**, press the **ENTER** button to confirm, fan speed will show on the display, press the **MENU** button to exit.

Voltage

Select **Voltage**, press the **ENTER** button to confirm, fixture's voltage will show on the display, press the **MENU** button to exit.

Upgrade Files

Select **Upgrade Files**, press the **ENTER** button to confirm, upgrade files will show on the display, press the **MENU** button to exit.

Firmware Version

Select **Firmware Version**, press the **ENTER** button to confirm, firmware version will show on the display, press the **MENU** button back to exit.

Reset Function

Enter menu mode, select **Reset Function**, press the **ENTER** button to confirm, use the **UP**/**DOWN** button to select **Pan & Tilt, Effect** or **All.**

Pan & Tilt

Select **Pan & Tilt**, press the **ENTER** button to confirm, use the **UP**/**DOWN** button to select **No**(normal) or **Yes** (the unit will run built-in program to reset pan and tilt to their home positions), press the **ENTER** button to store. Press the **MENU** button to exit.

Effect

Select **Effect,** press the **ENTER** button to confirm, use the **UP**/**DOWN** button to select **No**(normal) or **Yes** (the unit will run built-in program to reset effect to their home positions), press the **ENTER** button to store. Press the **MENU** button to exit.

All

Select **All,** press the **ENTER** button to confirm, use the **UP**/**DOWN** button to select **No**(normal) or **Yes** (the unit will run built-in program to reset all motors to their home positions), press **ENTER** button to store. Press the **MENU** button to exit.

Special Function

Factory Settings

Select **Factory Settings,** press the **ENTER** button to confirm, use the **UP**/**DOWN** button to select **No** (normal) or **Yes** (the fixture will reset to factory settings), press **ENTER** button to store. Press the **MENU** button to exit.

RDM FUNCTIONS

Select the MANUFACTURER menu to display the manufacturer of the fixture.

Select the SOFTWARE VERSION menu and the program version number of the fixture will be displayed.

Select the DMX START ADDRESS menu to change the DMX 512 address (001-512).

Select the DEVICE MODEL DESCRIPTION menu to display the model of the fixture.

Select the DEVICE LABEL menu to change the model of the fixture.

Select the DMX PERSONALITY menu to set the channel mode of the fixture (34/25/29/20 channel).

Select the DMX PERSONALITY DESCRIPTION menu to display the current channel mode of the fixture.

Select the DEVICE HOURS menu to display the running time of the fixture.

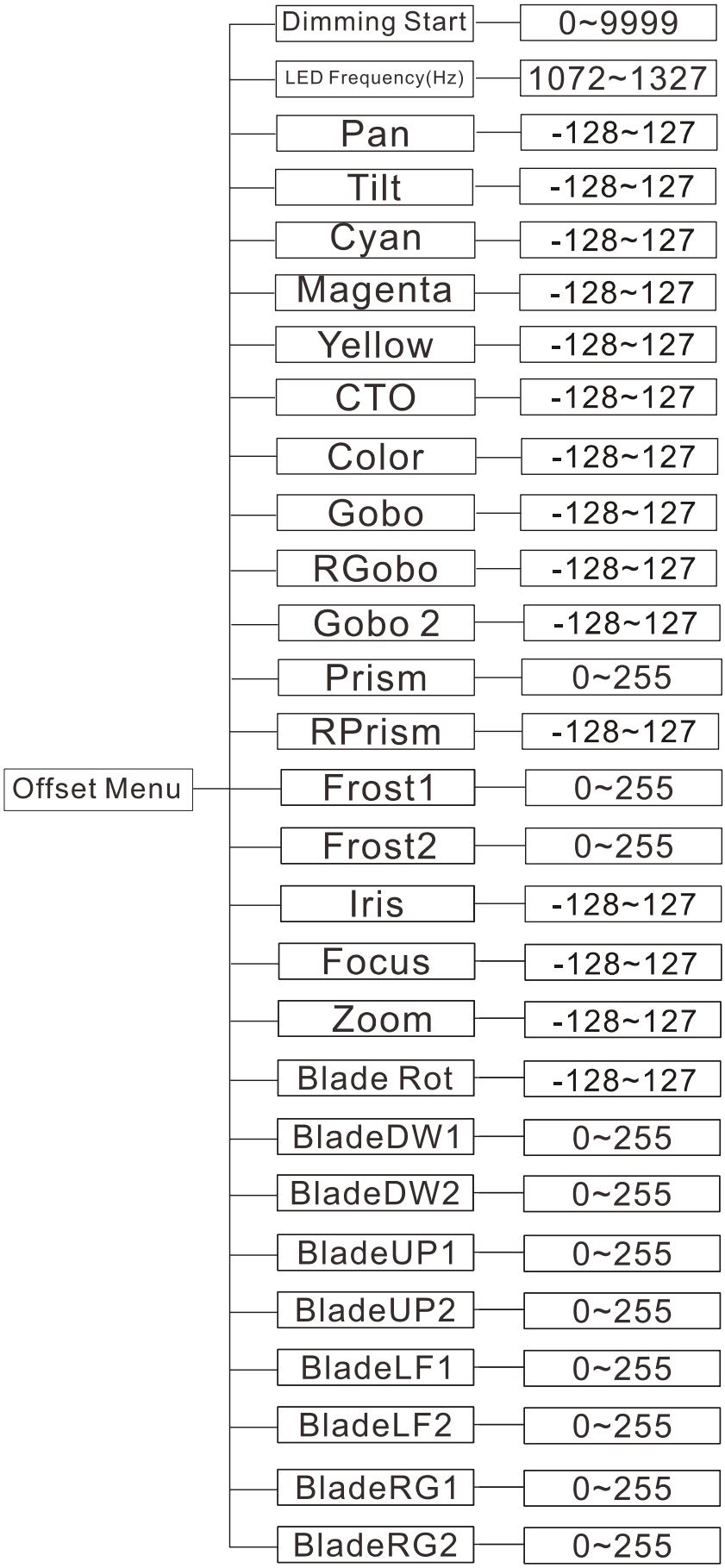
Select the PAN INVERT menu and the fixture will run the pan invert mode.

Select the TILT INVERT menu and the fixture will run the tilt invert mode.

Select the RESET DEVICE menu, the WARM RESET/COLD RESET option will be displayed. When WARM RESET is selected, the fixture will start a warm reset, and exit when COLD RESET is selected.

6.2.2 Static Gobo Wheel Module Home Position Adjustment

Press the MENU button into menu mode, then press the ENTER button for about 3 seconds into offset mode to adjust the home position. Select the function by pressing the ENTER button. Use the UP/DOWN button to choose the submenu, press the ENTER button to store and automatically return to the last menu. Press MENU button to exit.


Offset Menu
Dimming Start
0~9999
LED Frequency(Hz)
1072~1327
Pan
-128~127
Tilt
-128~127
Cyan
-128~127
Magenta
-128~127
Yellow
-128~127
CTO
-128~127
Color
-128~127
Gobo
-128~127
RGobo
-128~127
Gobo 2
-128~127
Prism
0~255
RPrism
-128~127
Frost1
0~255
Frost2
0~255
Iris
-128~127
Focus
-128~127
Zoom
-128~127
Blade Rot
-128~127
BladeDW1
0~255
BladeDW2
0~255
BladeUP1
0~255
BladeUP2
0~255
BladeLF1
0~255
BladeLF2
0~255
BladeRG1
0~255
BladeRG2
0~255

Dimming Start

Enter offset mode, Select **Dimming Start**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from 0 to 9999, press the **ENTER** button to store. Press the **MENU** button to exit.

LED Frequency(Hz)

Enter offset mode, Select **LED Frequency(Hz)**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from 1072 to 1327, press the **ENTER** button to store. Press the **MENU** button to exit.

Pan

Enter offset mode, Select **Pan**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Tilt

Enter offset mode, Select **Tilt**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Cyan

Enter offset mode, Select **Cyan**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Magenta

Enter offset mode, Select **Magenta**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Yellow

Enter offset mode, Select **Yellow**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Cto

Enter offset mode, Select **Cto**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Color

Enter offset mode, Select **Color**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Gobo

Enter offset mode, Select **Gobo**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

RGobo

Enter offset mode, Select **RGobo**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Gobo2

Enter offset mode, Select **Gobo2**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Prism

Enter offset mode, Select **Prism**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from 0 to 255, press the **ENTER** button to store. Press the **MENU** button to exit.

RPrism

Enter offset mode, Select **RPrism**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Frost1

Enter offset mode, Select **Frost1**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from 0 to 255, press the **ENTER** button to store. Press the **MENU** button to exit.

Frost2

Enter offset mode, Select **Frost2**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from 0 to 255, press the **ENTER** button to store. Press the **MENU** button to exit.

Iris

Enter offset mode, Select **Iris**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Focus

Enter offset mode, Select **Focus**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Zoom

Enter offset mode, Select **Zoom**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

Blade Rot

Enter offset mode, Select **Blade Rot,** press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from -128 to 127, press the **ENTER** button to store. Press the **MENU** button to exit.

BladeDW1

Enter offset mode, Select **BladeDW1**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from 000 to 255, press the **ENTER** button to store. Press the **MENU** button to exit.

BladeDW2

Enter offset mode, Select **BladeDW2**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from 000 to 255, press the **ENTER** button to store. Press the **MENU** button to exit.

BladeUP1

Enter offset mode, Select **BladeUP1**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from 000 to 255, press the **ENTER** button to store. Press the **MENU** button to exit.

BladeUP2

Enter offset mode, Select **BladeUP2**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from 000 to 255, press the **ENTER** button to store. Press the **MENU** button to exit.

BladeLF1

Enter offset mode, Select **BladeLF1**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from 000 to 255, press the **ENTER** button to store. Press the **MENU** button to exit.

BladeLF2

Enter offset mode, Select **BladeLF2**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from 000 to 255, press the **ENTER** button to store. Press the **MENU** button to exit.

BladeRG1

Enter offset mode, Select **BladeRG1**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from 000 to 255, press the **ENTER** button to store. Press the **MENU** button to exit.

BladeRG2

Enter offset mode, Select **BladeRG2**, press the **ENTER** button to confirm, the present position will blink on the display, use the **UP**/**DOWN** button to offset the value from 000 to 255, press the **ENTER** button to store. Press the **MENU** button to exit.

6.2.3 Static Gobo Wheel Module Address Setting

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

Press the MENU button to enter menu mode, select DMX Setting, press the ENTER button to confirm, use the UP/DOWN button to select Address, press the ENTER button to confirm, the present address will blinking the display, use the UP/DOWN button to adjust the address from 001 to 512, press the ENTER button to store. Press the MENU button back to the last menu or let the unit idle 30 seconds to exit menu mode.

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

Channel mode	Unit 1 Address	Unit 2 Address	Unit 3 Address	Unit 4 Address
34 channels	1	35	69	103
25 channels	1	26	51	76
29 channels	1	30	59	88
20 channels	1	21	41	61

6.2.4 Static Gobo Wheel Module DMX512 Configuration

Please control the fixture by referring to the configurations below

Attentions:

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

34 Channels (Mode 1):

CHANNEL	VALUE	FUNCTION
1	000-255	**PAN** 0°→540°
2	000-255	**Pan Fine**
3	000-255	**TILT** 0°→270°
4	000-255	**Tilt Fine**
5	000-255	**X/Y Time** Fast to Slow
6	000-255	**Cyan** 0%→100%
7	000-255	**Magenta** 0%→100%
8	000-255	**Yellow** 0%→100%
9	000-255	**CTO** 0%→100%
10	000-009	**Color** Open

	010-018	Color1
	019-027	Color2
	028-036	Color3
	037-045	Color4
	046-063	Color5
	064-127	Color Index
	128-189	Fast to Slow
	190-193	Stop
	194-255	Slow to Fast
		Gobo1
	000-009	Open
	010-018	Gobo1
	019-027	Gobo2
	028-036	Gobo3
	037-045	Gobo4
	046-054	Gobo5
	055-063	Gobo6
11	064-074	Gobo1 Shaking
	075-085	Gobo2 Shaking
	086-096	Gobo3 Shaking
	097-107	Gobo4 Shaking
	108-118	Gobo5 Shaking
	119-127	Gobo6 Shaking
	128-189	Fast to Slow
	190-193	Stop
	194-255	Slow to Fast
		RGobo1
	000-127	Index 0°→360°
12	128-189	Fast to Slow
	190-193	Stop
	194-255	Slow to Fast
		Gobo2
	000-007	Open
	008-014	Gobo1
	015-021	Gobo2
	022-028	Gobo3
	029-035	Gobo4
	036-042	Gobo5
13	043-049	Gobo6
	050-056	Gobo7
	057-063	Gobo8
	064-071	Gobo1 Shaking
	072-079	Gobo2 Shaking
	080-087	Gobo3 Shaking
	088-095	Gobo4 Shaking
	096-103	Gobo5 Shaking

	104-111 112-119 120-127 128-189 190-193 194-255	Gobo6 Shaking Gobo7 Shaking Gobo8 Shaking Fast to Slow Stop Slow to Fast
14	000-255	**Iris** 100%→0%
15	000-007 008-255	**Prism** Open Prism
16	000-127 128-189 190-193 194-255	**R-Prism** Index 0°→360° Fast to Slow Stop Slow to Fast
17	000-007 008-255	**CRI** Close Open
18	000-255	**Frost1(Light)** 0%→100%
19	000-255	**Frost2(Heavy)** 0%→100%
20	000-255	**Zoom** 100%→0%
21	000-255	**Focus** 0%→100%
22	000-007 008-015 016-131 132-139 140-181 182-189 190-231 232-239 240-247 248-255	**Strobe** Close Open Strobe Slow to Fast Open Fast Open Slow Close Open Fast Close Slow Open Open Random Strobe Open
23	000-255	**Dimmer** 0%→100%
24	000-255	**Dimmer Fine**
25	000-255	**Blade** 0°→180°
26		**Blade DW 1**

	000-255	0%→100%
27	000-255	**Blade DW 2** 0%→100%
28	000-255	**Blade UP 1** 0%→100%
29	000-255	**Blade UP 2** 0%→100%
30	000-255	**Blade LF 1** 0%→100%
31	000-255	**Blade LF 2** 0%→100%
32	000-255	**Blade RG 1** 0%→100%
33	000-255	**Blade RG 2** 0%→100%
34		**SPECIAL FUNCTION**
	000-029	Null
	030-039	Dimmer Curve Square Law
	040-049	Dimmer Curve INV Square Law
	050-059	Dimmer Curve Linear
	060-069	Dimmer Curve S
	070-079	Standard
	080-089	Quiet
	090-099	Compatible
	100-109	Led Frequency Setting Enable
	110-119	Led Frequency Setting Disable
	120-129	Null
	130-139	Focus Compensate Disable
	140-149	Focus Compensate Near
	150-159	Focus Compensate Medium
	160-169	Focus Compensate Far
	170-179	Null
	180-189	Dimmer Speed Fast
	190-199	Dimmer Speed Smooth
	200-209	Reset All
	210-219	Reset Effect
	220-229	Reset Pan/Tilt
	230-255	Null

25 Channels (Mode 2):

CHANNEL	VALUE	FUNCTION
1	000-255	**PAN** 0°→540°
2	000-255	**Pan Fine**
3	000-255	**TILT** 0 ° → 270°
4	000-255	**Tilt Fine**
5	000-255	**X/Y Time** Fast to Slow
6	000-255	**Cyan** 0%→100%
7	000-255	**Magenta** 0%→100%
8	000-255	**Yellow** 0%→100%
9	000-255	**CTO** 0%→100%
10	000-009 010-018 019-027 028-036 037-045 046-063 064-127 128-189 190-193 194-255	**Color** Open Color1 Color2 Color3 Color4 Color5 Color Index Fast to Slow Stop Slow to Fast
11	000-009 010-018 019-027 028-036 037-045 046-054 055-063 064-074 075-085 086-096 097-107 108-118 119-127	**Gobo1** Open Gobo1 Gobo2 Gobo3 Gobo4 Gobo5 Gobo6 Gobo1 Shaking Gobo2 Shaking Gobo3 Shaking Gobo4 Shaking Gobo5 Shaking Gobo6 Shaking

	128-189	Fast to Slow
	190-193	Stop
	194-255	Slow to Fast
12		**RGobo1**
	000-127	Index 0°→360°
	128-189	Fast to Slow
	190-193	Stop
	194-255	Slow to Fast
13		**Gobo2**
	000-007	Open
	008-014	Gobo1
	015-021	Gobo2
	022-028	Gobo3
	029-035	Gobo4
	036-042	Gobo5
	043-049	Gobo6
	050-056	Gobo7
	057-063	Gobo8
	064-071	Gobo1 Shaking
	072-079	Gobo2 Shaking
	080-087	Gobo3 Shaking
	088-095	Gobo4 Shaking
	096-103	Gobo5 Shaking
	104-111	Gobo6 Shaking
	112-119	Gobo7 Shaking
	120-127	Gobo8 Shaking
	128-189	Fast to Slow
	190-193	Stop
	194-255	Slow to Fast
14		**Iris**
	000-255	100%→0%
15		**Prism**
	000-007	Open
	008-255	Prism
16		**R-Prism**
	000-127	Index 0°→360°
	128-189	Fast to Slow
	190-193	Stop
	194-255	Slow to Fast
17		**CRI**
	000-007	Close
	008-255	Open
18		**Frost1(Light)**
	000-255	0%→100%
19		**Frost2(Heavy)**
	000-255	0%→100%

20	000-255	**Zoom** 100%→0%
21	000-255	**Focus** 0%→100%
22	000-007 008-015 016-131 132-139 140-181 182-189 190-231 232-239 240-247 248-255	**Strobe** Close Open Strobe Slow to Fast Open Fast Open Slow Close Open Fast Close Slow Open Open Random Strobe Open
23	000-255	**Dimmer** 0%→100%
24	000-255	**Dimmer Fine**
25	000-029 030-039 040-049 050-059 060-069 070-079 080-089 090-099 100-109 110-119 120-129 130-139 140-149 150-159 160-169 170-179 180-189 190-199 200-209 210-219 220-229 230-255	**SPECIAL FUNCTION** Null Dimmer Curve Square Law Dimmer Curve INV Square Law Dimmer Curve Linear Dimmer Curve S Standard Quiet Compatible Led Frequency Setting Enable Led Frequency Setting Disable Null Focus Compensate Disable Focus Compensate Near Focus Compensate Medium Focus Compensate Far Null Dimmer Speed Fast Dimmer Speed Smooth Reset All Reset Effect Reset Pan/Tilt Null

29 Channels (Mode 3):

CHANNEL	VALUE	FUNCTION
1	000-255	**PAN** 0°→540°
2	000-255	**Pan Fine**
3	000-255	**TILT** 0°→270°
4	000-255	**Tilt Fine**
5	000-255	**X/Y Time** Fast to Slow
6	000-255	**Cyan** 0%→100%
7	000-255	**Magenta** 0%→100%
8	000-255	**Yellow** 0%→100%
9	000-255	**CTO** 0%→100%
10	000-009 010-018 019-027 028-036 037-045 046-063 064-127 128-189 190-193 194-255	**Color** Open Color1 Color2 Color3 Color4 Color5 Color Index Fast to Slow Stop Slow to Fast
11	000-255	**Iris** 100%→0%
12	000-007 008-255	**CRI** Close Open
13	000-255	**Frost1(Light)** 0%→100%
14	000-255	**Frost2(Heavy)** 0%→100%
15	000-255	**Zoom** 100%→0%
16	000-255	**Focus** 0%→100%

17		**Strobe**
	000-007	Close
	008-015	Open
	016-131	Strobe Slow to Fast
	132-139	Open
	140-181	Fast Open Slow Close
	182-189	Open
	190-231	Fast Close Slow Open
	232-239	Open
	240-247	Random Strobe
	248-255	Open
18		**Dimmer**
	000-255	0%→100%
19	000-255	**Dimmer Fine**
20		**Blade**
	000-255	0°→180°
21		**Blade DW 1**
	000-255	0%→100%
22		**Blade DW 2**
	000-255	0%→100%
23		**Blade UP 1**
	000-255	0%→100%
24		**Blade UP 2**
	000-255	0%→100%
25		**Blade LF 1**
	000-255	0%→100%
26		**Blade LF 2**
	000-255	0%→100%
27		**Blade RG 1**
	000-255	0%→100%
28		**Blade RG 2**
	000-255	0%→100%
29		**SPECIAL FUNCTION**
	000-029	Null
	030-039	Dimmer Curve Square Law
	040-049	Dimmer Curve INV Square Law
	050-059	Dimmer Curve Linear
	060-069	Dimmer Curve S
	070-079	Standard
	080-089	Quiet
	090-099	Compatible
	100-109	Led Frequency Setting Enable
	110-119	Led Frequency Setting Disable
	120-129	Null
	130-139	Focus Compensate Disable

	140-149	Focus Compensate Near
	150-159	Focus Compensate Medium
	160-169	Focus Compensate Far
	170-179	Null
	180-189	Dimmer Speed Fast
	190-199	Dimmer Speed Smooth
	200-209	Reset All
	210-219	Reset Effect
	220-229	Reset Pan/Tilt
	230-255	Null

20 Channels (Mode 4):

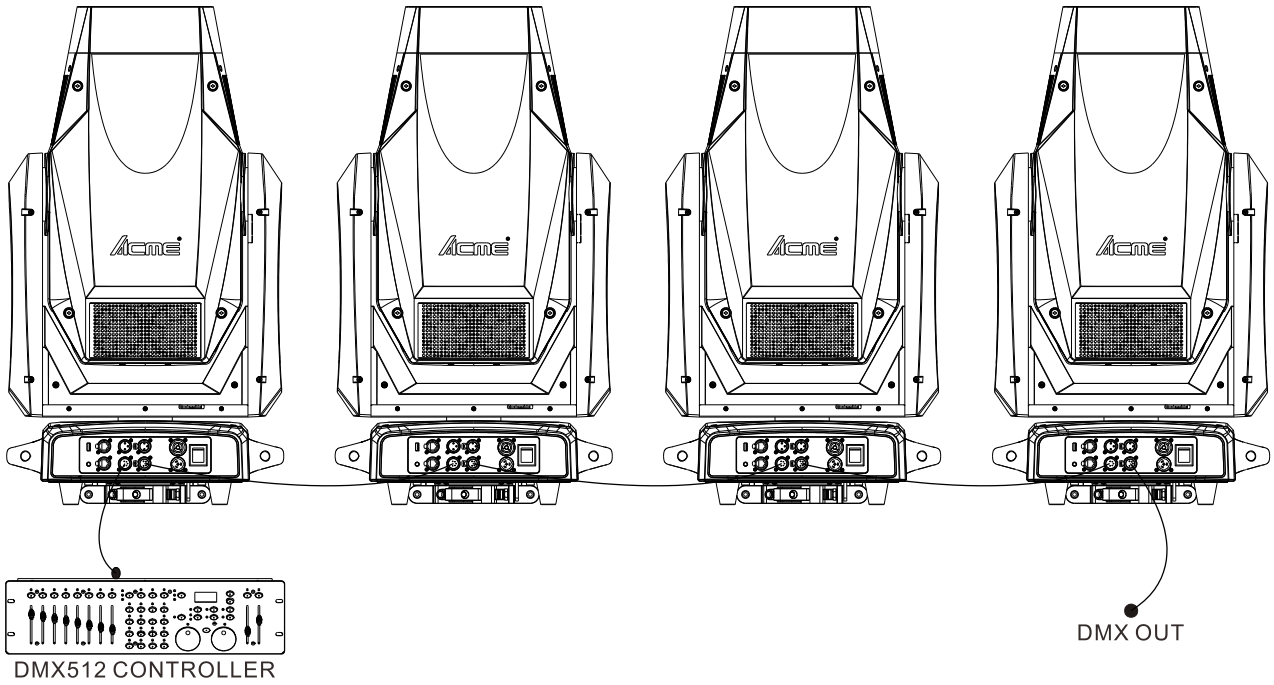
CHANNEL	VALUE	FUNCTION
1	000-255	**PAN** 0°→540°
2	000-255	**Pan Fine**
3	000-255	**TILT** 0 °→270°
4	000-255	**Tilt Fine**
5	000-255	**X/Y Time** Fast to Slow
6	000-255	**Cyan** 0%→100%
7	000-255	**Magenta** 0%→100%
8	000-255	**Yellow** 0%→100%
9	000-255	**CTO** 0%→100%
10	000-009 010-018 019-027 028-036 037-045 046-063 064-127 128-189 190-193 194-255	**Color** Open Color1 Color2 Color3 Color4 Color5 Color Index Fast to Slow Stop Slow to Fast
11		**Iris**

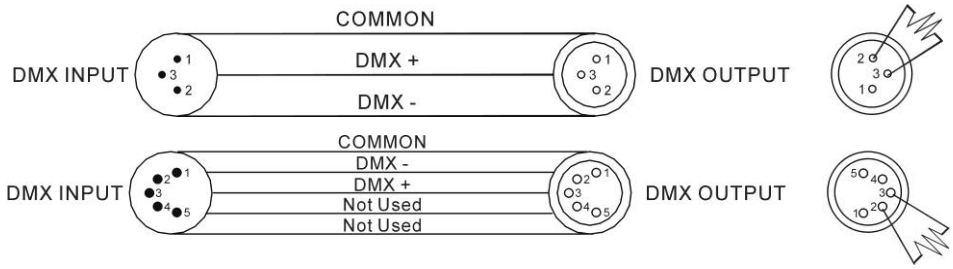
	000-255	100%→0%
12		**CRI**
	000-007	Close
	008-255	Open
13		**Frost1(Light)**
	000-255	0%→100%
14		**Frost2(Heavy)**
	000-255	0%→100%
15		**Zoom**
	000-255	100%→0%
16		**Focus**
	000-255	0%→100%
17		**Strobe**
	000-007	Close
	008-015	Open
	016-131	Strobe Slow to Fast
	132-139	Open
	140-181	Fast Open Slow Close
	182-189	Open
	190-231	Fast Close Slow Open
	232-239	Open
	240-247	Random Strobe
	248-255	Open
18		**Dimmer**
	000-255	0%→100%
19	000-255	**Dimmer Fine**
20		**SPECIAL FUNCTION**
	000-029	Null
	030-039	Dimmer Curve Square Law
	040-049	Dimmer Curve INV Square Law
	050-059	Dimmer Curve Linear
	060-069	Dimmer Curve S
	070-079	Standard
	080-089	Quiet
	090-099	Compatible
	100-109	Led Frequency Setting Enable
	110-119	Led Frequency Setting Disable
	120-129	Null
	130-139	Focus Compensate Disable
	140-149	Focus Compensate Near
	150-159	Focus Compensate Medium
	160-169	Focus Compensate Far
	170-179	Null
	180-189	Dimmer Speed Fast
	190-199	Dimmer Speed Smooth

	200-209	Reset All
	210-219	Reset Effect
	220-229	Reset Pan/Tilt
	230-255	Null

7. Control by Universal DMX Controller

7.1 DMX512 Connection





1. At last unit, the DMX cable has to be terminated with a terminator. Solder a 120-ohm 1⁄4W resistor between pin 2(DMX-) and pin 3(DMX+) into a 3-pin XLR-plug and plug it in the DMX-output of the last unit.

2. Connect the unit together in a “daisy chain” by XLR plug cable from the output of the unit to the input of the next unit. The cable can only be used in series and cannot be connected in parallel. DMX 512 is a very high-speed signal. Inadequate or damaged cables, soldered joints or corroded connectors can easily distort the signal and shut down the system.

3. The DMX output and input connectors are pass-through to maintain the DMX circuit, when one of the units' power is disconnected.

4. Each lighting unit needs to have a DMX address to receive the data by the controller. The address number is between 1-512.

5. The end of the DMX 512 system should be terminated to reduce signal errors.

6. 3 pin XLR connectors are more popular than 5 pins XLR.

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

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

8. Error Information

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

1. 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.

2. Pan Encoder 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.

3. 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.

4. Tilt Encoder 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.

5. CPU-B/C/D/E/F/G/H 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.

6. Cyan Reset Error

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

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

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

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

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

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

7. Magenta Reset Error

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

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

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

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

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

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

8. Yellow Reset Error

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

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

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

Check whether the lead connecting the Hall element on the yellow color wheel and the PCB board

is in poor contact or disconnected.

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

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

9. CTO Reset Error

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

Check whether there are obstacles in the cto operating range.

Check whether the Hall element on the cto is damaged.

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

Check whether the motor on the cto is damaged.

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

10. Gobo1/2 Reset Error

Check whether the position of the gobo wheel1/2 where the magnet is installed falls off or is damaged.

Check whether there are obstacles in the gobo wheel1/2 operating range.

Check whether the Hall element on the gobo wheel1/2 is damaged.

Check whether the lead connecting the Hall element on the gobo wheel1/2 and the PCB board is in poor contact or disconnected.

Check whether the motor on the gobo wheel1/2 is damaged.

Check whether the related circuit of the motor drive board on the gobo wheel1/2 is damage.

11. RGobo1 Reset Error

Check whether the position of the gobo wheel1 where the magnet is installed falls off or is damaged.

Check whether there are obstacles in the gobo wheel1 operating range.

Check whether the Hall element on the gobo wheel1 is damaged.

Check whether the lead connecting the Hall element on the gobo wheel1 and the PCB board is in poor contact or disconnected.

Check whether the motor on the gobo wheel1 is damaged.

Check whether the related circuit of the motor drive board on the gobo wheel1 is damage.

12. Prism1/RPrism1 Reset Error

Check whether the position of the prism1 where the magnet is installed falls off or is damaged.

Check whether there are obstacles in the prism1 operating range.

Check whether the Hall element on the prism1 is damaged.

Check whether the lead connecting the Hall element on the prism1 and the PCB board is in poor contact or disconnected.

Check whether the motor on the prism1 is damaged.

Check whether the related circuit of the motor drive board on the prism1 is damage.

13. 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.

14. 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.

15. Blade Reset Error

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

Check whether there are obstacles in the blade operating range.

Check whether the Hall element on the blade is damaged.

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

Check whether the motor on the blade is damaged.

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

16. Led Fan1/2/3/4 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.

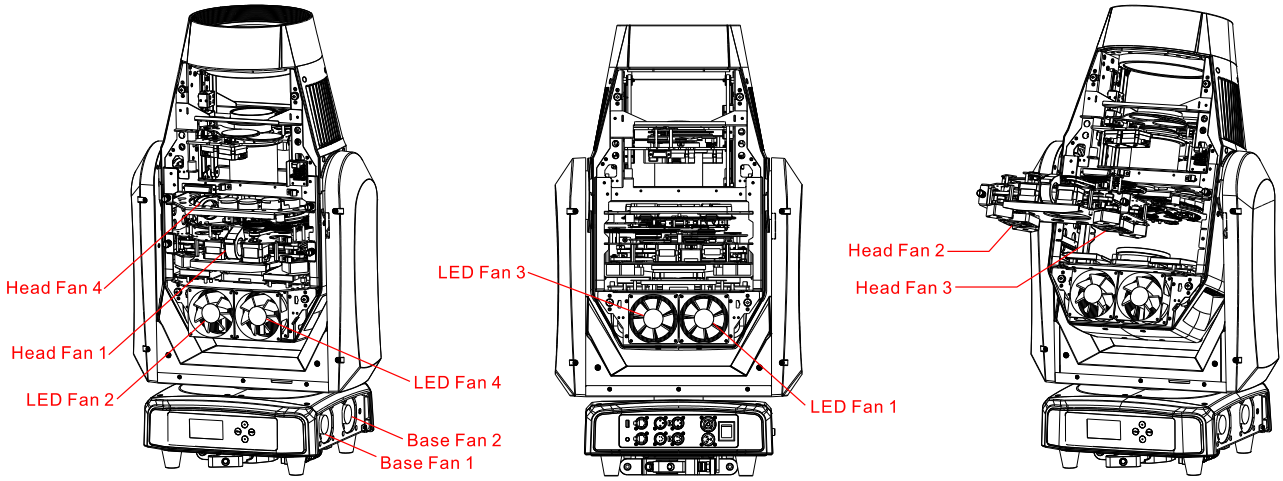
Check whether there are obstacles in the fan operating range.

Check whether the fan circuit on the motherboard breaks down.

Check whether the component is damaged.

Check whether the fan is out of order.

The position of each fan of the fixture:



9. Troubleshooting

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

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

1. Check the connected power.
2. Measure the voltage.
3. Check the power indicator to see whether it can be lit up or not.

B. Not responding to the DMX controller

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

C. One of the channels is not working well

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

10. Fixture Cleaning

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

- A soft lint-free cloth moistened with any good glass cleaning fluid is recommended, under no circumstances should solvents be used.
- Always dry the parts carefully.
- Clean the external optical lens at least every 20 days and the internal optical lens every 30 days.

Declaration of Conformity

We declare that our products (lighting equipments) comply with the following specification and bears CE mark in accordance with the provision of the Electromagnetic Compatibility (EMC) Directive 89/336/EEC.

EN55103-1: 2009+A1:2012; EN55103-2: 2009;
EN61000-3-2: 2014; EN61000-3-3: 2013.

&

Harmonized Standard

EN 60598-1:2015; EN 60598-2-17:1989 + A2:1991;
EN 62471:2008; EN 62493: 2010
Safety of household and similar electrical appliances
Part 1: General requirements

Certifications

cETLus Approved (Control #5000057)

Innovation, Quality, Performance