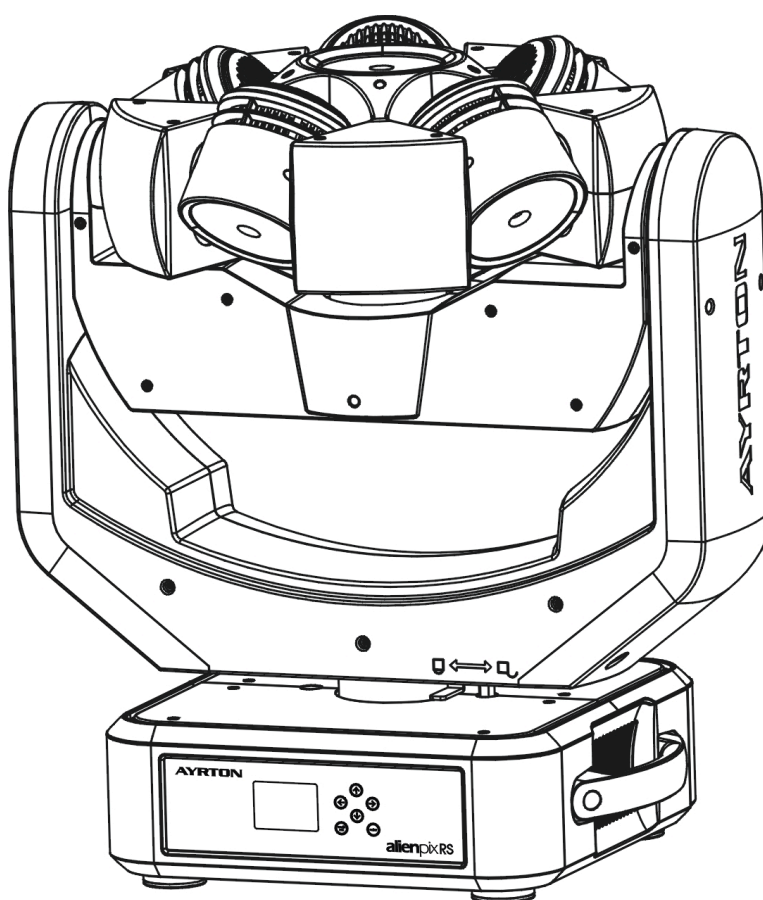




User Manual



alienpix RS

KEEP THIS MANUAL FOR FUTURE NEEDS



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Thank you for your confidence in our products. We are confident that our excellent products and service can satisfy you. For your own safety, please read this user manual carefully before installing the device.



CAUTION!

Keep this device away from rain and moisture !



CAUTION!

Unplug mains lead before opening the housing.

Any person involved with the installation, operation and maintenance of this device has to:

- be qualified
- follow carefully the instructions of this manual

INTRODUCTION:

Thank you for having chosen this professional moving head.

Unpack the device. Box includes :

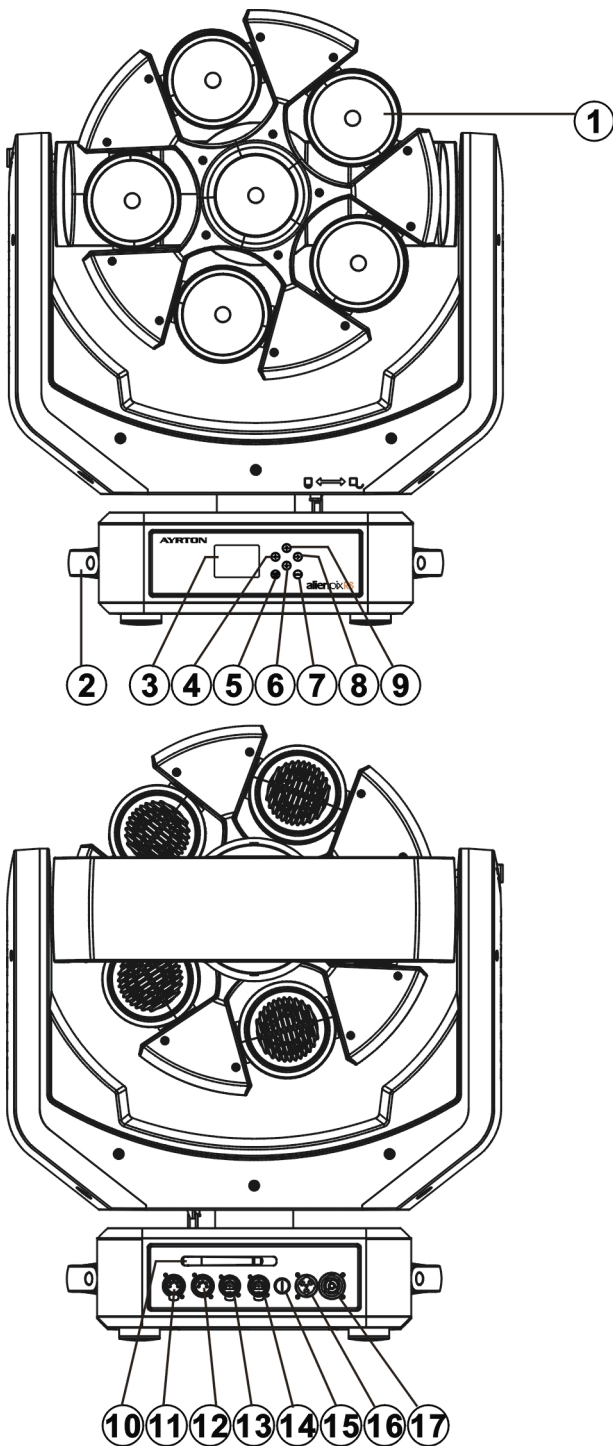
1. One AlinePix-RS
2. One safety cable
3. Manual
4. Two omega clamps

Please check carefully that there is no damage caused by transportation. Should there be any, please consult your dealer and don't install this device.

1. FEATURES

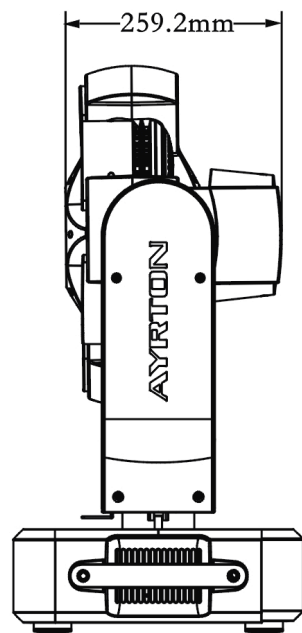
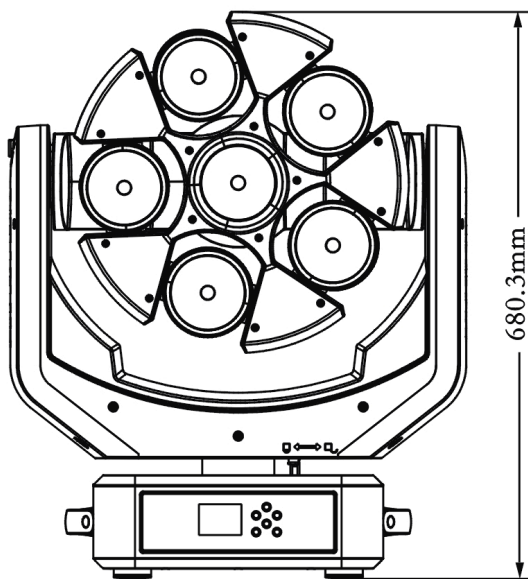
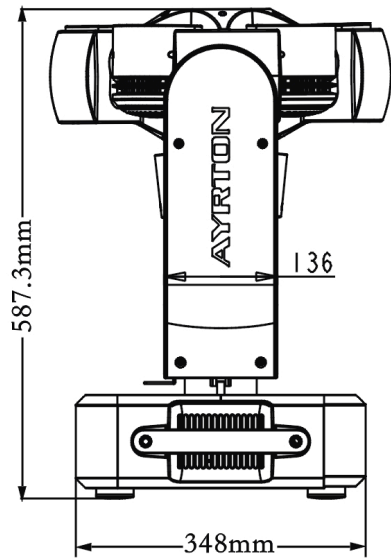
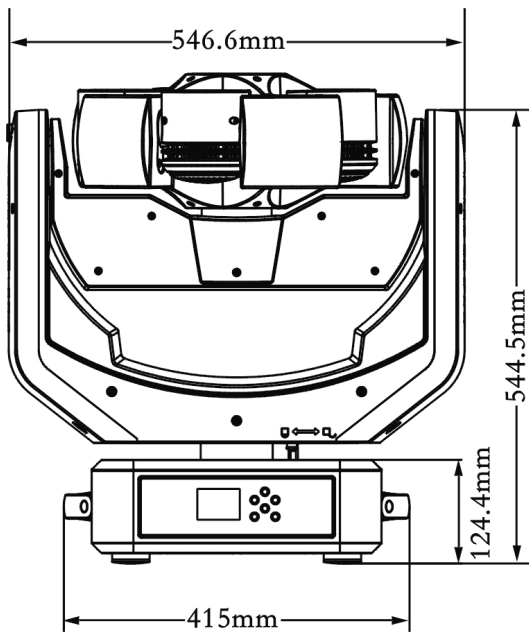
- Extremely Long Life:50,000 Hr and low power consumption
- 5 DMX channel mode: 16/27/32/47/52 channels
- Pan/tilt movement: 8 bit and 16 bit resolution
 - For smooth and precise resolution
 - Pan: 540°/630° optional, Tilt: 540°/270°movement
 - High speed of pan/tilt movement, speed of pan/tilt movement is adjustable
 - Scan position memory, auto reposition after unexpected movement
- Control board with full color LCD graphic display and touch-keyboard
- Display: Can be changed 180° reverse to fit for different installation position.
- Rechargeable Back up Battery for Display
 - Software-upload by optional accessory via DMX line

2.FIXTURE OVERVIEW



- 1) Lens
- 2) Handle
- 3) Display
- 4) Left-button
- 5) Mode/Esc-button
- 6) Down-button
- 7) ENTER-button
- 8) Right-button
- 9) Up-button
- 10) Antenna – Wireless DMX
- 11) DMX out
- 12) DMX in
- 13) RJ45 out
- 14) RJ45 in
- 15) Fuse
- 16) Power in
- 17) Power out

Dimensional Drawings:



3. SAFETY INSTRUCTIONS

3.1) Important safety warnings



CAUTION!

HIGH VOLTAGE. RISK OF SEVERE OR FATAL ELECTRIC SHOCK



CAUTION!

ALWAYS DISCONNECT MAINS SUPPLY BEFORE REMOVING ANY FIXTURE COVERS



CAUTION!

NEVER LOOK DIRECTLY INTO THE LIGHT SOURCE. SENSITIVE PERSONS MAY SUFFER AN EPILEPTIC SHOCK



CAUTION!

NEVER TOUCH THE DEVICE DURING OPERATION! COVERS MAY BE HOT

This device has left the factory in perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this user 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.

- If the device has been exposed to temperature changes due to environmental conditions, do not power on immediately. The resulting condensation could damage the device. Leave the device powered off until it has reached room temperature.
- Ensure the sealing rubber covers of power CON and XLR connectors are fitted properly when the device is not in use, to avoid water ingress.
- This device falls under protection-class I. Therefore, it is essential that the device be earthed.
- If either lenses or display are damaged (damage may include cracks or gashes in the material) they must be replaced.
- Electrical connections, such as replacing the power plug, must be performed by a qualified person.
- Make sure that the available voltage is not higher than that which is stated at the end of this manual.
- Make sure the power cord is never crushed or damaged by sharp edges. If this should be the case, replacement of the cable must be done by an authorized dealer.
- If the external flexible power cord of this device is damaged, it shall be exclusively replaced by the manufacturer or their service agent or a similar qualified person in order to avoid injury.
- When the device is not in use or before performing maintenance, always disconnect the device from the mains. Only handle the power cord from the plug. Never pull the plug out

of a socket by tugging the power cord.

- When powered on for the first time, some smell may occur. This is normal. If you have any concerns, please contact your distributor.
- Do not focus the beam onto flammable surfaces. Minimum distance between the exiting lens of the device and the illuminated surface must be greater than 0,5 meter.

Please be aware that damages caused by manual modifications to the device are not subject to warranty. Keep away from children and non-professionals.

3.2) General Guidelines

- This device is a lighting effect for professional use on stages, in discotheques, theatres, etc. The device was designed for indoor use only.
- This fixture is only allowed to be operated within the maximum alternating current as stated in the technical specifications in section 2 of this manual.
- Handle the device with care, avoid shaking or using force when installing or maintaining the device.
- If you use the quick lock cam when rigging the device, make sure the quick lock fasteners are located in the quick lock holes correctly and securely.
- Operate the device only after having familiarized yourself with its functions. Do not permit operation by persons not qualified for operating the device. Most damage is the result of unprofessional operation.
- Please use the original packaging if the device is to be transported.
- The light source of this luminaire is not replaceable; when the light source reaches its end Please use the original packaging to ship this unit.

4. INSTALLATION INSTRUCTIONS

4.1) Setup



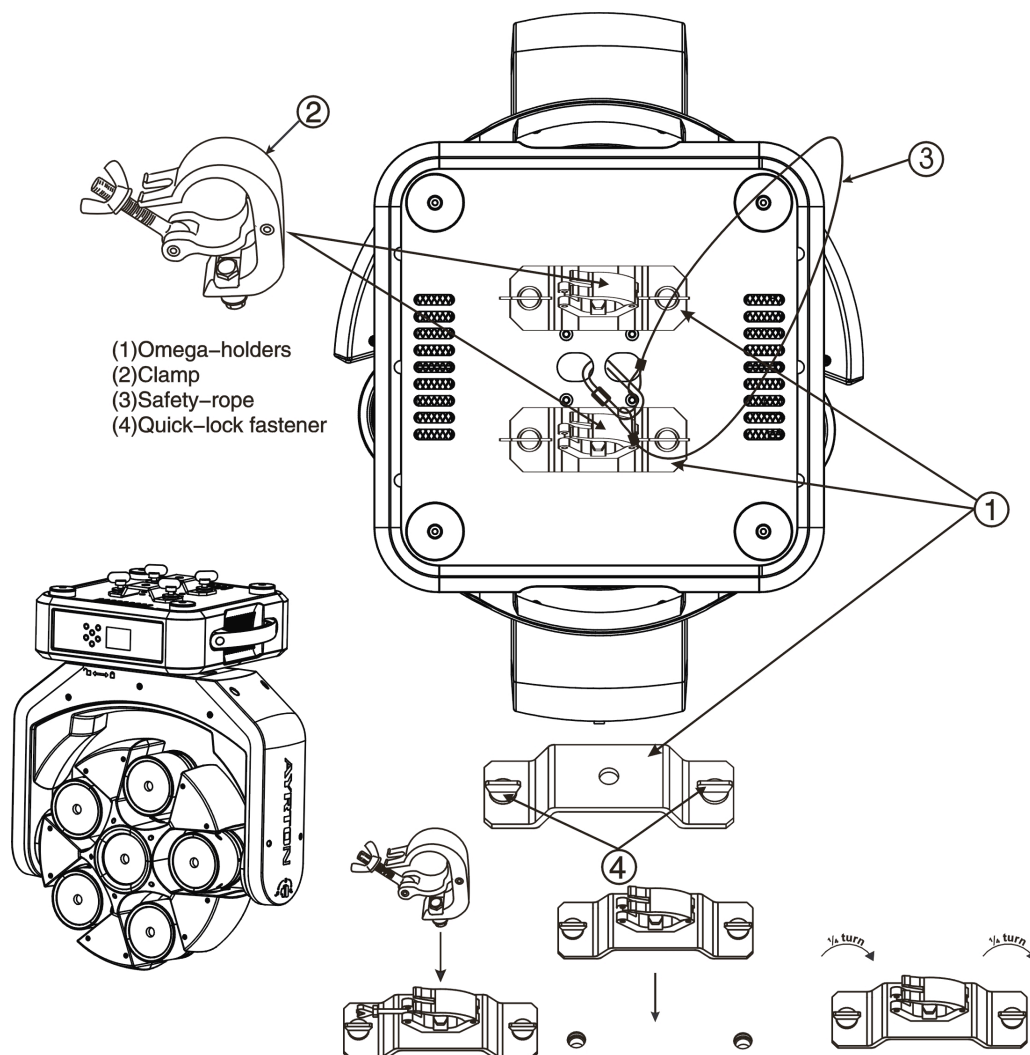
CAUTION!

PLEASE CONSIDER THE RESPECTIVE NATIONAL NORMS DURING INSTALLATION. INSTALLATION MUST ONLY BE CARRIED OUT BY A QUALIFIED PERSON.

- The applicable temperature for the lighting is between -10°C to 45°C. Do not use the lighting under or above the temperature.
- Rigging equipment has to be setup in a way that it can hold 10 times the weight for 1 hour without any harming deformation.
- The installation must always be secured with a secondary safety attachment, e.g. an appropriate safety cable.
- Never stand directly below the device when mounting, removing or servicing the fixture.
- The operator has to make sure the safeties are approved by an expert before taking the device into operation for the first time.
- These installations have to be approved by a skilled person once a year.
- Overhead mounting requires extensive experience, including amongst others calculating

working load limits, installation material being used, and periodic safety inspection of all installation material and the device. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.

Installation via the Omega brackets

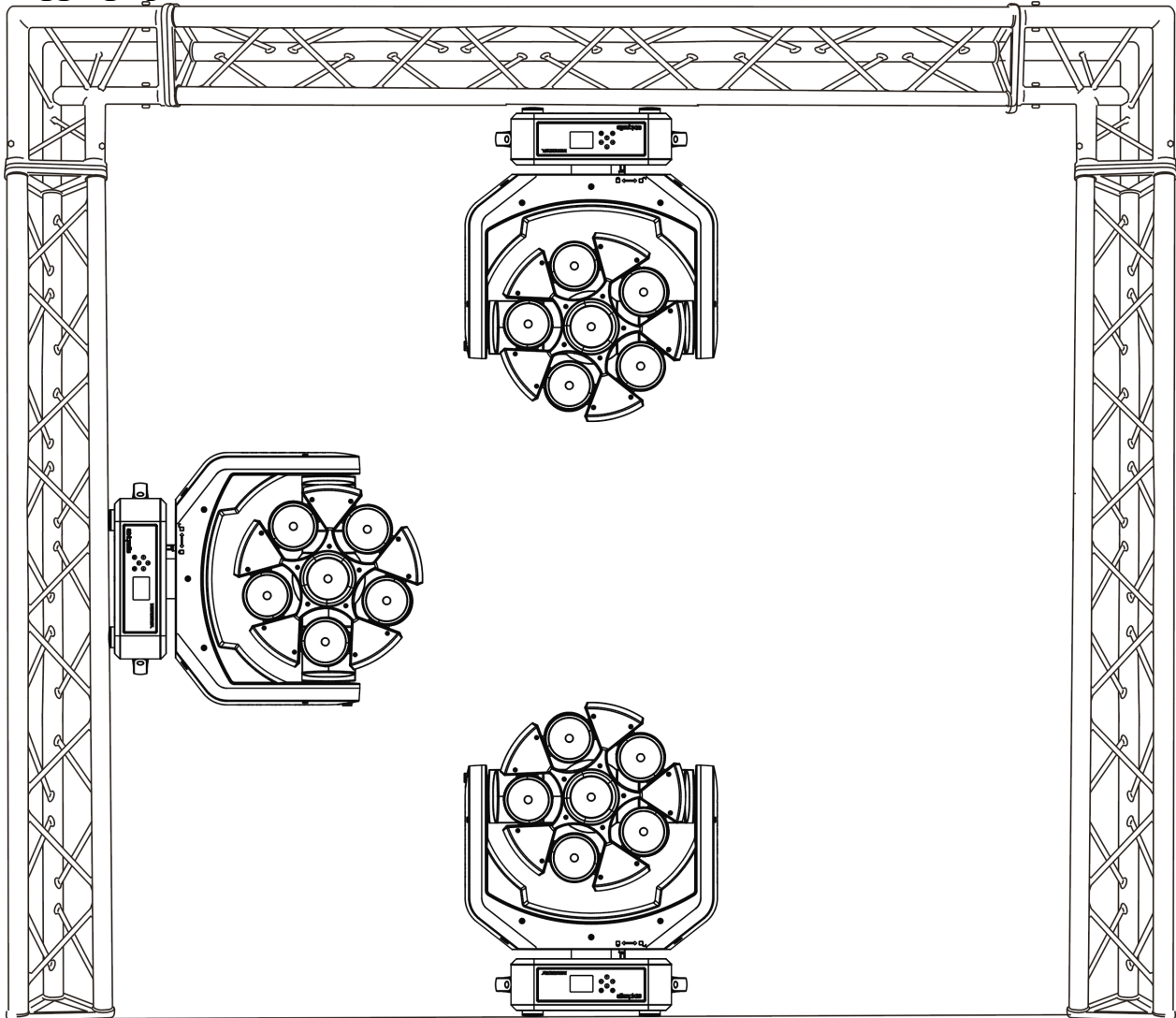


- Fix the clamp to the bracket by tightening the M12 nut and bolt to the bracket through the $\Phi 13$ hole in the middle of the bracket.
- Insert the quick-lock fasteners of the first Omega holder into the respective holes on the bottom of the device. Tighten the quick-lock fasteners fully clockwise.
- Install the second Omega holder.
- Pull the safety cable through the holes on the bottom of the base and over the trussing system or another suitable rigging point. Insert the end into the carabiner and tighten the

safety screw.

Notice: this step is quite important to ensure that the fixture will not drop out by the damage of the clamp.

Rigging options:



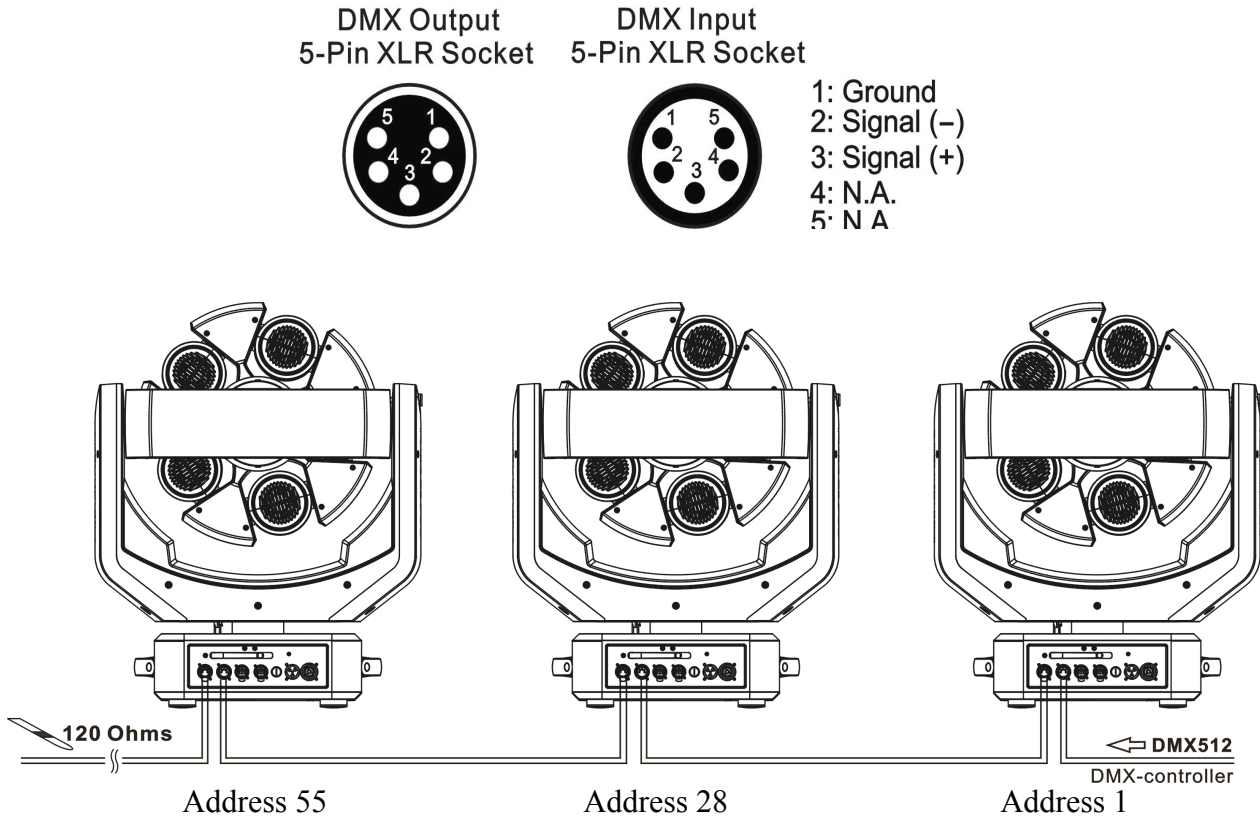
Mounting points

Always use and install a safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.

Overhead mounting requires extensive experience, including amongst others calculating working load limits, a fine knowledge of the installation material being used, and periodic safety inspection of all installation material and the fixture. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.

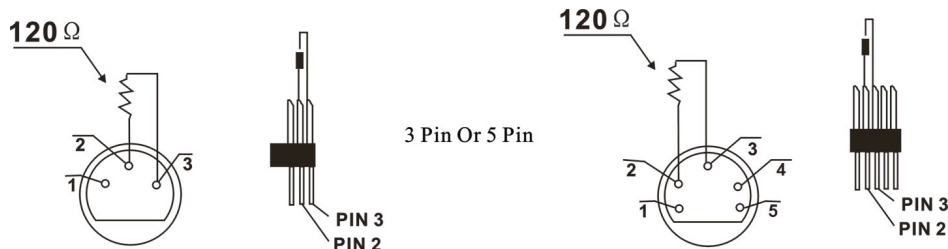
5. DMX-512 control connection

Connect the provided XLR cable to the female 5-pin XLR output of your controller and the other side to the male 5-pin XLR input of the moving head. You can chain multiple Moving head together through serial linking. The cable needed should be two core, screened cable with XLR input and output connectors. Please refer to the diagram below.



6. DMX-512 connection with DMX terminator

For installations where the DMX cable has to run a long distance or is in an electrically noisy environment, such as in a discotheque, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR plug with a 120 Ω resistor connected between pins 2 and 3, which is then plugged into the output XLR socket of the last fixture in the chain. Please see illustrations below.



7. Projector DMX start address selection

All fixtures should be given a DMX starting address when using a DMX signal, so that the correct fixture responds to the correct control signals. This digital starting address is the channel number from which the fixture starts to "listen" to the digital control information sent out from the DMX controller. The allocation of this starting address is achieved by setting the correct number on the display located on the base of the device.

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

If you set the same address, all the units will start to “listen” to the same control signal from the same channel number. In other words, changing the settings of one channel will affect all the fixtures simultaneously.

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

If User Mode is set to 27 channels, you should set the starting address of the first unit to 1, the second unit to 28 ($27 + 1$), the third unit to 55 ($27 + 28$), and so on.

8. Operating instructions of the internal DMX wireless system

1. Equipments:

DMX 512 controller, wireless transmitter, and the fixtures with wireless receiver.

2. Message from the LED indicator:

- 1) Rapid flashing red/Green: logging in to a transmitter
- 2) Slow flashing Red/Green: Logged on a transmitter and the DMX line is idle (No DMX is connected to transmitter).
- 3) Solid Green: Logged on to a transmitter and receiving DMX data.
- 4) Solid Red: Not logged on to a transmitter (free)

3. WDMX in the menu of the fixture:

On a fixture installed with wireless system, in order to switch between wireless control system and traditional DMX control (with cable), a new menu WDMX is added to the display board.

ON: (Activate WDMX)

1) When the fixture is on power, and the WDMX is activated to ON status, but did not connect to the controller and did not log in to the transmitter, the fixture will search for the DMX signal source. If the fixture is connected to the DMX controller it can be controlled by DMX controller; if it is log in to the wireless transmitter, it can be controlled by the Transmitter

2) When the fixture is power off, and the WDMX is in ON status, if the fixture is connected to DMX controller. After the fixture is power on, it can be controlled only by the DMX controller which connected. The fixture can log in the wireless transmitter, and receive only radio signal from transmitter, but not DMX from the transmitter.

OFF: (De-activate WDMX)

In this status, wireless system is not activated, so the fixture can not log in the transmitter.

REST: (reset WDMX memory);

Can remove the fixture from the connection with the transmitter, the fixture become free and ready to log in any transmitter.

4. Setup the wireless system:

- 1) Connect the transmitter with the DMX controller
- 2) To make the fixture installed with wireless receiver log in to the transmitter
 - a) Initially, the indicator on the receiver fixture should be in Solid red
 - b) Press and hold the configuration button on transmitter for less than 3 seconds the red/green LEDs on the transmitter and the receiver fixture will flash rapidly for about 5~10 seconds while the system goes through its setup procedure.
 - c) Once the receiver fixture is logged in to the transmitter (T1), the fixture with wireless

receiver will keep the memory, even if restart the power, this unit will log in the transmitter (T1) automatically.

3) Use the DMX 512 to control the fixture

5. Remove the receivers from transmitter (T1) and to log in to another transmitter (T2)

Case 1: Remove a receiver:

- On the control board of the fixture, enter menu to activated the function of REST;
- The LED for wireless on the fixture should turn to Solid red; the receiver can log out from the transmitter (T1);
- press the configuration button on transmitter(T2) for less than 3 second, then the fixture will start to connect with the transmitter(T2)

Case 2: Remove all receivers from a transmitter (T1) to log in to T2;

- Press and hold the configuration button on the T1 as least 5 seconds, can clear the connection with all the fixtures.
- All the red/green LEDs on the receiver fixtures will turn to Solid red to indicate that the receivers are unassigned and removed from the transmitter (T1);
- Press and hold the configuration button on the T2 less then less than 3 second , the fixtures will connect with the T2

PS: 1. Please log the receivers out from the transmitter after every job, so that the receivers are in free un assigned state and ready to be assigned to a transmitter.


2. Do not connect the fixture which is under the communication of wireless system to the DMX controller, otherwise it will cause interference from the DMX controller.

9. Display Board


The Display Board offers several features: you can simply set the starting address , run the pre-programmed program or make a reset.


The main menu is accessed by pressing the  -button until the display starts flashing.

Browse through the menu by pressing the  -button ,  -button ,  -button or

 -button. Press the Enter-button in order to select the desired menu. You can change the

selection by pressing the the  -button ,  -button ,  -button or  -button.

Confirm every selection by pressing the  -button. You can leave every mode or access the

display menu via the internal battery by pressing the  -button for 5 minute; The functions provided are described in the following sections. it will exit from flash 10 seconds after the last keypress. Press this key under edit mode, . The functions provided are described in the following sections.

| | | | |
|---------|--------------|-----------|---------------------|
| Address | Set Dmx Addr | A001~AXXX | DMX address setting |
|---------|--------------|-----------|---------------------|

| | | | | |
|------------|---------------|---|--|--|
| Users Mode | User Mode | Stand 8 Bit Mode Stand 16 Bit Mode Basic Mode Extend 8 Bit Mode Extend 16 Bit Mode User Mode A User Mode B User Mode C | | User's mode to change channel numbers |
| | Edit User | Max channel PAN : | | Preset User modes : |
| Options | Status | No DMX Mode Pan Reverse Tilt Reverse Pan Degree Feedback Pan/Tilt Spd Hibernation | Close/Hold/Auto ON/OFF ON/OFF 630/540 ON/OFF Speed 1~ 4 OFF, 01M~99M | Auto run if no DMX Pan Reverse movement Tilt Reverse movement Pan Degree Select Movement Feedback Reset Pan/Tilt Stand by Mode |
| | Service PIN | Service PIN RDM PID Set IP | Password=XXX xxxxxx xxx.xxx.xxx.xxx | Service Password“=050” RDM PID Code Set IP |
| | Fans Control | Auto Stage Studio | | Head Fans Speed Mode Select |
| | Disp.Setting | Shutoff Time Flip Display Key Lock DispFlash | 02~60m 05m ON/OFF ON/OFF ON/OFF | Display shutoff time Reverse 180 degree Key Lock No Signal Rash |
| | Signal Select | DMX WDMX Art—Net sACN | | DMX Wireless DMX Art-Net sACN |
| | Set Universe | xx | | Art-Net Universe NO. |
| | Temp. C/F | Celsius Fahrenheit | | Temperature switch between □/□ |
| | Initial Pos. | PAN =XXX | | Initial effect position |
| | Wireless DMX | Activate WDMX Act&Data Out Rest WDMX | | Activate WDMX Act & Data Out Reset Wireless DMX Mem |
| | Trigger | DMX Value Disp. Set To Slave Auto Program | PAN..... Slave1,Slave2,Slave3 Master / Alone | DMX value display Slave setting Auto program |
| | ResetDefault | ON/OFF | | Restore factory set. |
| Info | Time Info. | Current Time Ttl Life Hrs | | XXXX(Hours) XXXX(Hours) |

| | | | |
|--------|--------------|--|--|
| | | Last Run Hrs Timer PIN Clr Last Run | XXXX(Hours) Password=XXX ON/OFF |
| | Temp. Info | Head Temp. | XXX□/□ |
| | Software Ver | V1.0..... | Software version |
| | Network | IP,Mask,Mac | Network setting |
| Test | Home | All Pan&Tilt Other | Reset all motors Reset Pan/Tilt Reset Other |
| | Test Channel | PAN | Test function |
| | Manual Ctrl. | PAN =XXX : | Fine adjustment of the lamp |
| | Calibration | -Password- PAN : | Password "050" Calbrate and adjust the effects to standard/right position |
| Preset | Select Prog. | Prog. Part 1 = Program 1 ~ 10 Program 1 Prog. Part 2 = Program 1 ~ 10 Program 2 Prog. Part 3 = Program 1 ~ 10 Program 3 | Select programs to be run |
| | Edit Prog. | Program 1 : Program 10 | Program Test Step 01=SCxxx Step 64=SCxxx |
| | Edit Scenes | Edit Scene 001 ~ Edit Scene 250 | Pan,Tilt,..... --Fade Time-- --Secne Time-- Input By Outside |
| | Scenes Input | XX~XX | Automat. scenes rec |

Default settings shaded

9.1 Address

9.1.1 Set Dmx Addr

With this function, you can adjust the DMX start address via the Control Board.

1. Access the main menu.
2. Tap the <Up/Down>button until "Set Dmx Addr" is displayed.
3. Press ENTER, the display will show "Set Dmx Addr" .
4. Tap the <Up/Down>button, the display will show "A001~AXXX"
5. Press ENTER to confirm or press <MODE/ESC> to return to the main menu.

9.2 Users mode

In this menu, user can select different control modes:

9.2.1 User mode

With this function, you can create user defined channel orders.

9.2.2 Edit User

With this function, you can adjust the rest user defined channel order.

1. Access the main menu.
2. The display show "Edit User" frist channel, Press <Up/Down> the display will show

“Edit User” .

3. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

9.3 Options

9.3.1 Status

No DMX Mode

With this function, when the drive is not DMX signal, it runs automatism, close, hold and music, the default is hold.

1. Access the main menu.
2. Press <Up/Down>, the display will show “No DMX Mode” .
3. Press< ENTER>, the display will show “No DMX Mode” .
4. The display show “Hold”,Press <Up/Down>, the display will show “Close”, “Auto”.
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

Pan Reverse

With this function you can reverse the Pan-movement.

1. Access the main menu.
2. Press <Up/Down>, the display will show “Pan Reverse” .
3. Press< ENTER>, the display will show “Pan Reverse” .
4. The display show “OFF” ,Press <Up/Down>, the display will show “ON” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

Tilt Reverse

With this function you can reverse the Tilt-movement.

1. Access the main menu.
2. Press <Up/Down>, the display will show “Tilt Reverse” .
3. Press< ENTER>, the display will show “Tilt Reverse” .
4. The display show “OFF” ,Press <Up/Down>, the display will show “ON” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

Pan Degree

With this function, you can select pan degree for 630 or 540.

1. Access the main menu.
2. Press <Up/Down>, the display will show “Pan Degree” .
3. Press< ENTER>, the display will show “Pan Degree” .
4. The display show “540” ,Press <Up/Down>, the display will show “630” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

Feedback

With this function, you can feedback switch of pan movement or tilt movement.

1. Access the main menu.
2. Press <Up/Down>, the display will show “Feedback” .
3. Press< ENTER>, the display will show “Feedback” .
4. The display show “ON” ,Press <Up/Down>, the display will show “OFF” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

Pan/Tilt Spd

With this function, you can select Pan & Tilt speed from 1 to 4.

1. Access the main menu.
2. Press <Up/Down>, the display will show “Pan/Tilt Spd” .
3. Press< ENTER>, the display will show “Pan/Tilt Spd” .
4. The display show “Speed 1” , Press <Up/Down>, the display will show “Speed 2”, “Speed 3”, “Speed 4”.
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

Hibernation ——Standby mode

The lamp and step motors will be power off if the fixture stay without DMX signal for 15 mins (Factory default).And the fixture will be reset before working once it receive DMX signal again.

1. Access the main menu.
2. Press <Up/Down>, the display will show “Hibernation” .
3. Press< ENTER>, the display will show “Hibernation” .
4. The display show “15M” ,Press <Up/Down>, the display will show “01M”, “02M” “99M” or “OFF” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

9.3.2 Service PIN

Service PIN——The Password for this function is “50”.

RDM PID—— With this function you can call up various submenus via RDM.

This device is RDM ready. RDM stands for "remote device management" and makes remote control of devices connected to the DMX-bus. ANSI E1.20-2006 by ESTA specifies the RDM standard as an extension of the DMX512 protocol.

Manual settings like adjusting the DMX starting address are no longer needed. This is especially useful when the device is installed in a remote area.

RDM ready and conventional DMX devices can be operated in one DMX line. The RDM protocol sends own packages in the DMX512 data feed and does not influence conventional devices.

Set IP

1. Access the main menu.
2. Press <Up/Down>, the display will show “Set IP.” .
3. Press< ENTER>, the display will show “Set IP” .
4. The display show “xxx.xxx.xxx.xxx” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

9.3.3 Fans Control

With this function, you can set the speed of the running fans. The selections have Auto, Stage and Studio.

1. Access the main menu.
2. The display show “Auto” , Press <Up/Down>, the display will show “Stage”, “Studio”.
3. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

9.3.4 Disp.Setting

Shutoff Time

With this function you can shut off the color LCD display after 2 to 60 minutes. Turn the encoder in order to select the desired shut off time. The default is 5 minute.

Flip Display

With this function you can the entire display to be flipped by 180° to allow for better view when the fixture is hung from truss or a ceiling. This function is disabled as default.

1. Access the main menu.
2. Press <Up/Down>, the display will show “Flip Display” .
3. Press< ENTER>, the display will show “Flip Display” .
4. The display show “OFF” ,Press <Up/Down>, the display will show “ON” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

Key Lock

With this function you can activate the automatic keylock status. If this function is activated, the keys will be locked automatically after exiting the edit mode for 15 seconds. keeping press the [MENU] key for 3seconds if you do not need this function.

1. Access the main menu.
2. Press <Up/Down>, the display will show “Key Lock” .
3. Press< ENTER>, the display will show “Key Lock” .
4. The display show “OFF” ,Press <Up/Down>, the display will show “ON” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

DispFlash

With this function you can the entire display to be flipped by 180° to allow for better view when the fixture is hung from truss or a ceiling. This function is disabled as default.

1. Access the main menu.
2. Press <Up/Down>, the display will show “DispFlash” .
3. Press< ENTER>, the display will show “DispFlash” .
4. The display show “OFF” ,Press <Up/Down>, the display will show “ON” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

9.3.5 Signal Select

1. Access the main menu.
2. Press <Up/Down>, the display will show “Signal Select” .
3. Press< ENTER>, the display will show “Signal Select” .
4. The display show “DMX” ,Press <Up/Down>, the display will show “WDMX” , “Art--Net” , “sACN” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

9.3.6 Set Universe

1. Access the main menu.
2. Press <Up/Down>, the display will show “Set Universe” .
3. Press< ENTER>, the display will show “Set Universe” .
4. The display show “xx” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

9.3.7 Temp. C/F

With this function, Display the temperature for Celsius or Fahrenheit.

1. Access the main menu.
2. Press <Up/Down>, the display will show “Temp. C/F” .

3. Press< ENTER>, the display will show “Temp. C/F” .
4. The display show “Celsius” ,Press <Up/Down>, the display will show “Fahrenheit”.
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

9.3.8 Initial Pos.

With this function, Display initial effect position.

1. Access the main menu.
2. Press <Up/Down>, the display will show “Initial Pos.” .
3. Press< ENTER>, the display will show “Initial Pos.” .
4. The display show “PAN=XXX” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

9.3.9 Wireless DMX

From factory, this projector is prepared for wireless data transmission (W-DMX). If you wish to de-activate W-DMX control, you can select the function “De-activate WDMX” by turning the encoder. With the function “rest”, you can log out the projector from the wireless sender.

1. Access the main menu.
2. Press <Up/Down>, the display will show “Wireless DMX” .
3. Press< ENTER>, the display will show “Wireless DMX” .
4. The display show “Activate WDMX” , Press <Up/Down>, the display will show “Act&Data Out” ,“Rest WDMX”.
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

9.3.10 Trigger

DMX Value Disp.

With this function you can display the DMX 512 value of each channel. The display automatically shows the channel with a value changing.

1. Access the main menu.
2. Tap the <Up/Down>button until “DMX Value Disp.” is displayed.
3. Press ENTER, the display will show “DMX Value Disp.” .
4. Tap the <Up/Down>button, choose each channel.
5. Press ENTER to confirm or press <MODE/ESC> to return to the main menu.

Set To Slave

With this function, you can define the device as slave.

1. Access the main menu.
2. Tap the <Up/Down>button until “Set To Slave” is displayed.
3. Press ENTER, the display will show “Set To Slave” .
4. Tap the <Up/Down>button, the display will show “Slave1”, ”Slave2”, ”Slave3”.
5. Press ENTER to confirm or press <MODE/ESC> to return to the main menu.

Auto Program

With this function, you can run the internal program. You can select the desired program under “**Select program**”. You can set the number of steps under “**Edit program**”. You can edit the individual scenes under “**Edit scenes**”. With this function, you can run the individual scenes either automatically, i.e. with the adjusted Step-Time.

1. Access the main menu.
2. Tap the <Up/Down>button until “Auto Program” is displayed.
3. Press ENTER, the display will show “Auto Program” .

4. Tap the <Up/Down>button, the display will show “Master”, ” Alone”.
5. Press ENTER to confirm or press <MODE/ESC> to return to the main menu.

9.3.11 ResetDefault

With this function, you can select restore factory set for ON or OFF, the default is OFF.

1. Access the main menu.
2. Press <Up/Down>, the display will show “ResetDefault” .
3. Press< ENTER>, the display will show “ResetDefault” .
4. The display show “OFF” ,Press <Up/Down>, the display will show “ON”.
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

9.4 Info

9.4.1 Time info.

Current Time

With this function, you can display the temporary running time of the device from the last power on. The display shows “XXXX”, “XXXX” stands for the number of hours. The counter is resetted after turning the device off.

1. Access the main menu.
2. the display will show “Time Information” .
3. Press <Up/Down>, the display will show “Current Time” .
4. Press< ENTER>, the display will show “Current Time” .
5. The display will show “XXXX” (Hours) ;
6. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

Ttl Life Hrs

With this function, you can display the running time of the device. The display shows “XXXX”, “XXXX” stands for the number of hours.

1. Access the main menu.
2. Press <Up/Down>, the display will show “Ttl Life Hrs” .
3. Press< ENTER>, the display will show “Ttl Life Hrs” .
4. The display will show “XXXX” (Hours) ;
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

Last Run Hrs

With this function, you can display last the running time of the lamp. The display shows “XXXX”, “XXXX” stands for the number of hours

1. Access the main menu.
2. Press <Up/Down>, the display will show “Last Run Hrs” .
3. Press< ENTER>, the display will show “Last Run Hrs” .
4. The display will show “XXXX” (Hours) ;
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

Timer PIN

With this function, you can display the timer password.

1. Access the main menu.
2. Press <Up/Down>, the display will show “Timer PIN” .
3. Press< ENTER>, the display will show “Timer PIN” . The time password is 038.
4. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

Clr Last Run

With this function, you can clear last run time of the fixture. The display shows “ON” or “OFF”, Press “Enter” to confirm.

1. Access the main menu.
2. Press <Up/Down>, the display will show “Clr Last Run” .
3. At “Timer PIN” menu input right password, Press< ENTER>, the display will show “Clr Last Run” .
4. The display show “OFF” ,Press <Up/Down>, the display will show “ON” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

9.4.2 Temp. Info

Head Temp.

With this function you can display the temperature on the display board of the base (near CMY-filter) in Celsius.

1. Access the main menu.
2. Press <Up/Down>, the display will show “Head Temp.” .
3. Press< ENTER>, the display will show “Head Temp.” .
4. The display show “XXX ° C/ ° F”.
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

9.4.3 Software ver

With this function, you can display the software version of the device.

1. Access the main menu.
2. Press <Up/Down>, the display will show “Software ver” .
3. Press< ENTER>, the display will show “Software ver” .
4. The display show “Ver x.x”.
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

9.4.4 Network

1. Access the main menu.
2. Press <Up/Down>, the display will show “Network” .
3. At “Timer PIN” menu input right password, Press< ENTER>, the display will show “Network” .
4. The display show “IP”, Press <Up/Down>, the display will show “Mask”, “Mac”.
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

9.5 Test

9.5.1 Home

With this function you can reset the device via the Control Board. You can select the different reset functions by turning the encoder.

1. Access the main menu.
2. The display show “All” , Press <Up/Down>, the display will show “All”, “Pan&Tilt” , “Other” .
3. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

9.5.2 Test Channel

With this function you can test each channel on its (correct) function.

1. Access the main menu.
2. Press <Up/Down>, the display will show “Test Channel” .

3. Press< ENTER>, the display will show “Test Channel” .
4. The display show “Pan Moving” first channel, Press <Up/Down>, can choose other channel.
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

9.5.3 Manual Ctrl.

With this function, you can adjust the lamp more easily. All effects will be canceled, the shutter opens and the dimmer intensity will be set to 100 %. With the individual functions, you can focus the light on a flat surface (wall) and perform the fine lamp adjustment.

1. Access the main menu.
2. Press <Up/Down>, the display will show “Manual Ctrl.” .
3. Press< ENTER>, the display will show “Manual Ctrl.” .
4. The display show “PAN=XXX” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

9.5.4 Calibration

With this function, you can calibrate and adjust the effect wheels to their correct positions. The password of calibrate values is 050.

1. Access the main menu.
2. Press <Up/Down>, the display will show “Calibration” .
3. Press< ENTER>, the display will show “Calibration” .
4. The display show “Password=XXXX” .
5. Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

9.6 Preset

9.6.1 Select Prog.

With this function, you can select the program for the Program Run.

9.6.2 Edit Prog.

With this function, you can edit the internal programs.

9.6.3 Edit Scenes

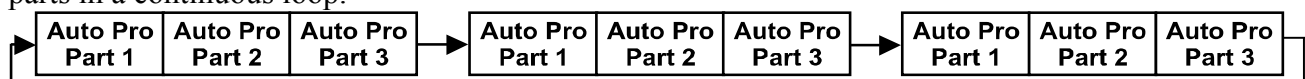
With this function, you can edit the scenes of the internal programs.

9.6.4 Scenes Input

The moving head features an integrated DMX-recorder by which you can transmit the programmed scenes from your DMX-controller to the moving head. Adjust the desired scene numbers via the encoder (from – to). When you call up the scenes at your controller, they will automatically be transmitted to the moving head.

Excursion:

A Master unit can send up to 3 different data groups to the Slave units, i.e. a Master unit can start 3 different Slave units, which run 3 different programs. The Master unit sends the 3 program parts in a continuous loop.



The Slave unit receives data from the Master unit according to the group which the Slave unit was assigned to. If e.g. a Slave unit is set to “Slave 1” in the menu “Set to Slave”, the Master unit sends “Auto Program Part 1” to the Slave unit. If set to “Slave 2”, the Slave unit receives “Auto

Program Part 2”.

To start a Auto Program please proceed as follows:

1. Slave-Setting

- Select “Function Mode” by turning the encoder.
- Press the Enter button to confirm.
- Select “Set to slave” by turning the encoder.
- Press the Enter button to confirm.
- Turn the encoder to select “Slave 1”, “Slave 2” or “Slave 3”.
- Press the Enter button to confirm.
- Press the MODE/ESC button in order to return to the main menu.

2. Automatic Program Run

- Select “Function Mode” by turning the encoder.
- Press the Enter button to confirm.
- Select “Auto Program” by turning the encoder.
- Press the Enter button to confirm.
- Turn the encoder to select “Master” or “Alone”. The selection "Alone" means Stand Alone-mode and "Master" that the device is defined as master.
- Press the Enter button to confirm.
- Press the MODE/ESC button in order to return to the main menu.

3. Program selection for Auto Pro Part

- Select “Edit program” by turning the encoder.
- Press the Enter button to confirm.
- Select “Select programs” by turning the encoder.
- Press the Enter button to confirm.
- Turn the encoder to select “Auto Pro Part 1”, “Auto Pro Part 2” or “Auto Pro Part 3”, and thus select which Slave program is to be sent. Selection “Part 1” means, that the Slave unit runs the same program as the master units.
- Press the Enter button to confirm.
- Press the MODE/ESC button in order to return to the main menu.

4. Program selection for Edit Program

- Select “Edit program” by turning the encoder.
- Press the Enter button to confirm.
- Select “Edit program” by turning the encoder.
- Press the Enter button to confirm.
- Turn the encoder to select the desired program. With this function you can edit specific scenes into a specific program.
- Press the Enter button to confirm.
- Press the MODE/ESC button in order to return to the main menu.

5. Automatic Scene Recording

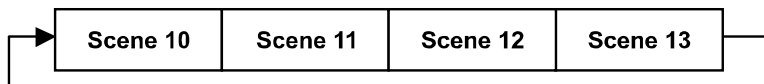
- Select “Edit program” by turning the encoder.
- Press the Enter button to confirm.
- Select “Edit scenes” by turning the encoder.
- Turn the encoder to select the desired scene numbers. You can program a maximum number of 250
- Press the Enter button to confirm.
- Press the MODE/ESC button in order to return to the main menu.

Example:

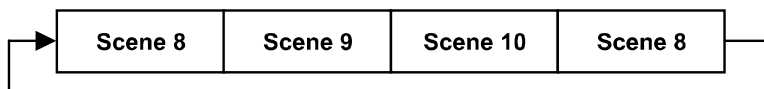
Program 2 includes scenes: 10, 11, 12, 13
 Program 4 includes scenes: 8, 9, 10
 Program 6 includes scenes: 12, 13, 14, 15
 Auto Pro Part 1 is Program 2;
 Auto Pro Part 2 is Program 3;
 Auto Pro Part 3 is Program 6

The 3 Slave groups run the Auto Program in certain time segments, as shown in the following picture:

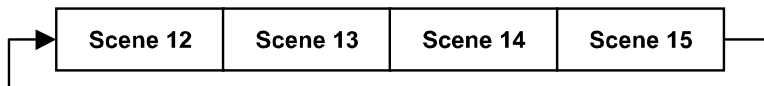
Part 1:



Part 2:



Part 3:



10. INSTRUCTIONS ON USE:

| DMX channel's functions and their values | | | | | |
|--|----------|-----------|----------|-----------|--------------------------------------|
| Mode/Channel | | | | | Function |
| Ba | St 8 Bit | St 16 Bit | Ex 8 bit | Ex 16 Bit | |
| 1 | 1 | 1 | 1 | 1 | PAN1Movement 8bit : |
| | | | | | 0-255 Pan Movement |
| | 2 | 2 | 2 | 2 | Pan1 Fine 16bit |
| | | | | | 0-255 Fine control of Pan movement |
| 2 | 3 | 3 | 3 | 3 | TILT Movement 8bit : |
| | | | | | 0-255 Tilt Movement |
| | 4 | 4 | 4 | 4 | Tilt Fine 16bit |
| | | | | | 0-255 Fine control of Tilt movement |
| 3 | 5 | 5 | 5 | 5 | PAN2Movement 8bit : |
| | | | | | 0-255 Pan Movement |
| | 6 | 6 | 6 | 6 | Pan2 Fine 16bit |
| | | | | | 0-255 Fine control of Pan movement |
| 4 | 7 | 7 | 7 | 7 | Speed Pan/Tilt movement: |
| | | | | | 0-225 max to min speed |
| | | | | | 226-235 blackout by movement |
| | | | | | 236-255 no function |
| 5 | 8 | 8 | 8 | 8 | Pan Motor continuous rotation |

| | | | | | | |
|----|----|----|----|----|---------|---|
| | | | | | 0-127 | no function |
| | | | | | 128-189 | Forwards Pan rotation from fast to slow |
| | | | | | 190-193 | No rotation |
| | | | | | 194-255 | Backwards Pan rotation from slow to fast |
| 6 | 9 | 9 | 9 | 9 | | Tilt Motor continuous rotation |
| | | | | | 0-127 | no function |
| | | | | | 128-189 | Forwards Tilt rotation from fast to slow |
| | | | | | 190-193 | No rotation |
| | | | | | 194-255 | Backwards Tilt rotation from slow to fast |
| 7 | 10 | 10 | 10 | 10 | | Pan2 Motor continuous rotation |
| | | | | | 0-127 | no function |
| | | | | | 128-189 | Forwards Pan rotation from fast to slow |
| | | | | | 190-193 | No rotation |
| | | | | | 194-255 | Backwards Pan rotation from slow to fast |
| 8 | 11 | 11 | | | | Red LED -all arrays : |
| | | | | | 0-255 | Red (0-Black , 255-100% Red) |
| 9 | 12 | 12 | | | | Green LED-all arrays : |
| | | | | | 0-255 | Green (0-Black , 255-100% Green) |
| 10 | 13 | 13 | | | | Blue LED -all arrays : |
| | | | | | 0-255 | Blue (0-Black , 255-100% Blue) |
| 11 | 14 | 14 | | | | White LED -all arrays : |
| | | | | | 0-255 | White (0-Black , 255-100% White) |
| 12 | 15 | 15 | 11 | 11 | | Shutter, strobe: |
| | | | | | 0-31 | Led trun off |
| | | | | | 32-63 | Led turn on |
| | | | | | 64-95 | Strobe effect slow to fast |
| | | | | | 96-127 | Led turn on |
| | | | | | 128-159 | Pulse-effect in sequences |
| | | | | | 160-191 | Led turn on |
| | | | | | 192-223 | Random strobe effect slow to fast |
| | | | | | 224-255 | Led turn on |
| 13 | 16 | 16 | 12 | 12 | | Dimmer intensity: |
| | | | | | 0-255 | Intensity 0 to 100% |
| | | | 13 | 13 | | Red LED -array 1 : |
| | | | | | 0-255 | Red (0-Black , 255-100% Red) |
| | | | 14 | 14 | | Green LED-array 1 : |
| | | | | | 0-255 | Green (0-Black , 255-100% Green) |
| | | | 15 | 15 | | Blue LED -array 1 : |
| | | | | | 0-255 | Blue (0-Black , 255-100% Blue) |
| | | | 16 | 16 | | White LED -array 1 : |
| | | | | | 0-255 | White (0-Black , 255-100% White) |
| 14 | | | | | | All LED MOTOR MOVING |

| | | | | | | |
|----|----|----|----|----|---------|---|
| | | | | | 0-255 | |
| 15 | | | | | | Tilt Motor continuous rotation All LED MOTOR |
| | | | | | 0-127 | no function |
| | | | | | 128-189 | Forwards Pan rotation from fast to slow |
| | | | | | 190-193 | No rotation |
| | | | | | 194-255 | Backwards Pan rotation from slow to fast |
| | 17 | 17 | 17 | 17 | | LED1 TILT Movement 8bit : |
| | | | | | 0-255 | Tilt Movement |
| | | 18 | | 18 | | LED1 TILT Movement 16bit : |
| | | | | | 0-255 | Tilt Movement |
| | 18 | 19 | 18 | 19 | | Tilt Motor continuous rotation LED -array 1 |
| | | | | | 0-127 | no function |
| | | | | | 128-189 | Forwards Tilt rotation from fast to slow |
| | | | | | 190-193 | No rotation |
| | | | | | 194-255 | Backwards Tilt rotation from slow to fast |
| | | | 19 | 20 | | Red LED -array 2 : |
| | | | | | 0-255 | Red (0-Black , 255-100% Red) |
| | | | 20 | 21 | | Green LED-array 2 : |
| | | | | | 0-255 | Green (0-Black , 255-100% Green) |
| | | | 21 | 22 | | Blue LED -array 2 : |
| | | | | | 0-255 | Blue (0-Black , 255-100% Blue) |
| | | | 22 | 23 | | White LED -array 2 : |
| | | | | | 0-255 | White (0-Black , 255-100% White) |
| | 19 | 20 | 23 | 24 | | LED2 TILT Movement 8bit : |
| | | | | | 0-255 | Tilt Movement |
| | | 21 | | 25 | | LED2 TILT Movement 16bit : |
| | | | | | 0-255 | Tilt Movement |
| | 20 | 22 | 24 | 26 | | Tilt Motor continuous rotation LED -array 2 |
| | | | | | 0-127 | no function |
| | | | | | 128-189 | Forwards Tilt rotation from fast to slow |
| | | | | | 190-193 | No rotation |
| | | | | | 194-255 | Backwards Tilt rotation from slow to fast |
| | | | 25 | 27 | | Red LED -array 3 : |
| | | | | | 0-255 | Red (0-Black , 255-100% Red) |
| | | | 26 | 28 | | Green LED-array 3 : |
| | | | | | 0-255 | Green (0-Black , 255-100% Green) |
| | | | 27 | 29 | | Blue LED -array 3 : |
| | | | | | 0-255 | Blue (0-Black , 255-100% Blue) |
| | | | 28 | 30 | | White LED -array 3: |
| | | | | | 0-255 | White (0-Black , 255-100% White) |
| | 21 | 23 | 29 | 31 | | LED3 TILT Movement 8bit : |

| | | | | | | |
|--|----|----|----|----|---------|--|
| | | | | | 0-255 | Tilt Movement |
| | | 24 | | 32 | | LED3 TILT Movement 16bit : |
| | | | | | 0-255 | Tilt Movement |
| | 22 | 25 | 30 | 33 | | Tilt Motor continuous rotation LED -array 3 |
| | | | | | 0-127 | no function |
| | | | | | 128-189 | Forwards Tilt rotation from fast to slow |
| | | | | | 190-193 | No rotation |
| | | | | | 194-255 | Backwards Tilt rotation from slow to fast |
| | | | 31 | 34 | | Red LED -array 4 : |
| | | | | | 0-255 | Red (0-Black , 255-100% Red) |
| | | | 32 | 35 | | Green LED-array 4 : |
| | | | | | 0-255 | Green (0-Black , 255-100% Green) |
| | | | 33 | 36 | | Blue LED -array 4 : |
| | | | | | 0-255 | Blue (0-Black , 255-100% Blue) |
| | | | 34 | 37 | | White LED -array 4: |
| | | | | | 0-255 | White (0-Black , 255-100% White) |
| | 23 | 26 | 35 | 38 | | LED4 TILT Movement 8bit : |
| | | | | | 0-255 | Tilt Movement |
| | | 27 | | 39 | | LED4 TILT Movement 16bit : |
| | | | | | 0-255 | Tilt Movement |
| | 24 | 28 | 36 | 40 | | Tilt Motor continuous rotation LED -array 4 |
| | | | | | 0-127 | no function |
| | | | | | 128-189 | Forwards Tilt rotation from fast to slow |
| | | | | | 190-193 | No rotation |
| | | | | | 194-255 | Backwards Tilt rotation from slow to fast |
| | | | 37 | 41 | | Red LED -array 5 : |
| | | | | | 0-255 | Red (0-Black , 255-100% Red) |
| | | | 38 | 42 | | Green LED-array 5 : |
| | | | | | 0-255 | Green (0-Black , 255-100% Green) |
| | | | 39 | 43 | | Blue LED -array 5 : |
| | | | | | 0-255 | Blue (0-Black , 255-100% Blue) |
| | | | 40 | 44 | | White LED -array 5: |
| | | | | | 0-255 | White (0-Black , 255-100% White) |
| | 25 | 29 | 41 | 45 | | LED5 TILT Movement 8bit : |
| | | | | | 0-255 | Tilt Movement |
| | | 30 | | 46 | | LED5 TILT Movement 16bit : |
| | | | | | 0-255 | Tilt Movement |
| | 26 | 31 | 42 | 47 | | Tilt Motor continuous rotation LED -array 5 |
| | | | | | 0-127 | no function |
| | | | | | 128-189 | Forwards Tilt rotation from fast to slow |
| | | | | | 190-193 | No rotation |
| | | | | | 194-255 | Backwards Tilt rotation from slow to fast |

| | | | | | | |
|----|----|----|----|----|---------|---|
| | | | 43 | 48 | | Red LED -array 6 : |
| | | | | | 0-255 | Red (0-Black , 255-100% Red) |
| | | | 44 | 49 | | Green LED-array 6 : |
| | | | | | 0-255 | Green (0-Black , 255-100% Green) |
| | | | 45 | 50 | | Blue LED -array 6 : |
| | | | | | 0-255 | Blue (0-Black , 255-100% Blue) |
| | | | 46 | 51 | | White LED -array 6: |
| | | | | | 0-255 | White (0-Black , 255-100% White) |
| 16 | 27 | 32 | 47 | 52 | | Reset, internal programs: |
| | | | | | 0-79 | Normal |
| | | | | | 80-85 | All motor reset |
| | | | | | 86-90 | Scan motor reset |
| | | | | | 91-99 | Tilt LED motor reset |
| | | | | | 100-119 | Internal program 1 (scene1~8 of EEPROM) |
| | | | | | 120-139 | Internal program 2 (scene9~16 of EEPROM) |
| | | | | | 140-159 | Internal program 3 (scene17~24 of EEPROM) |
| | | | | | 160-179 | Internal program 4 (scene25~32 of EEPROM) |
| | | | | | 180-199 | Internal program 5 (scene33~40 of EEPROM) |
| | | | | | 200-219 | Internal program 6 (scene41~48 of EEPROM) |
| | | | | | 220-239 | Internal program 7 (scene49~56 of EEPROM) |
| | | | | | 240-255 | no function |

11. ERROR MESSAGE

When you turn on the fixture, it will make a reset at first. The display may show “Err channel is XX” while there are problems with one or more channels. “XX” stands for channel 1, 2, 3, 4, 5, 6 who has the testing sensor for positioning. For example, when the display shows “Pan Error”, it means there is some error in channel 1. If there are some errors on channel 1, channel 3 at the same time, you may see the error message, “Err channel is Pan movement”, “Err channel is Tilt movement”, flash repeated for 2 times, and then the fixture will run a second reset. If the fixture is still showing error message after performing reset more than 2 times, only the channels which have errors can not work properly, others can work as usual. Please contact with dealer or manufacturer for service, self repair is not allowed.

PAN 1- movement Er

(PAN 1-yoke movement error) This message will appear after the reset of the fixture if the yoke’s magnetic-indexing circuit malfunction (sensor failed or magnet missing) or the stepping-motor is defective (or its driving IC on the main PCB). The PAN- movement is not located in the default position after the reset.

TILT- movement Er

(TILT-head movement error) This message will appear after the reset of the fixture if the head’s magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the stepping-motor is defective (or its driving IC on the main PCB). The TILT- movement is not located in the

default position after the reset.

PAN 2- movement Er

(PAN 2-yoke movement error) This message will appear after the reset of the fixture if the yoke's magnetic-indexing circuit malfunction (sensor failed or magnet missing) or the stepping-motor is defective (or its driving IC on the main PCB). The PAN- movement is not located in the default position after the reset.

CHN_LED_MOTOR - Er

(CHN_LED_MOTOR error) This message will appear after the reset of the fixture if the yoke's magnetic-indexing circuit malfunction (sensor failed or magnet missing) or the stepping-motor is defective (or its driving IC on the main PCB). The PAN- movement is not located in the default position after the reset.

12. CLEANING AND MAINTENANCE

The following points have to be considered during the inspection:

- 1) All screws for installing the devices or parts of the device have to be tightly connected and must not be corroded.
 - 2) There must not be any deformations on the housing, color lenses, fixations and installation spots (ceiling, suspension, trussing).
 - 3) Mechanically moved parts must not show any traces of wearing and must not rotate with unbalances.
 - 4) The electric power supply cables must not show any damage, material fatigue or sediments.
- Further instructions depending on the installation spot and usage have to be adhered by a skilled installer and any safety problems have to be removed.



CAUTION!

Disconnect from mains before starting maintenance operation.

In order to make the lights in good condition and extend the life time, we suggest a regular cleaning to the lights.

- 1) Clean the inside and outside lens each week to avoid the weakness of the lights due to accumulation of dust.
- 2) Clean the fan each week.
- 3) A detailed electric check by approved electrical engineer each three month, make sure that the circuit contacts are in good condition, prevent the poor contact of circuit from overheating.

We recommend a frequent cleaning of the device. Please use a moist, lint- free cloth.

Never use alcohol or solvents.

There are no serviceable parts inside the device except for the lamp. Please refer to the instructions under "Installation instructions".

Should you need any spare parts, please order genuine parts from your local dealer.

13. TECHNICAL SPECIFICATIONS

Power supply: AC 100-240V~, 50/60Hz

Power consumption: 450W

Packing dimensions: 78.5x65x46.5 cm

Net weight: 29.7 KGS

Gross weight: 36.5 KGS

Remark: errors and omissions for every information given in this manual excepted. All information is subject to change without prior notice.