RED LIGHTING

PROFESSIONAL MOVING HEAD USER MANUAL

CLASSE S 575

KEEP THIS MANUAL FOR FUTURE NEEDS

CE

Contents

Thank you for your patronage. 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.

In order to install , operate, and maintain the lighting safety and correctly. We suggest that the installation and operation should be done by the verified technician and follow the instruction strictly.

	CAUTION! Keep this device away from rain and moisture !
	CAUTION! Unplug mains lead before opening the housing.

Every 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.
You will see you have acquired a powerful and versatile device.

Unpack the device. Inside the box you should find:
1. One XLR connection cable
2. Two omega clamps
3. One safety rope
4. Manual

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

1. FEATURES

• Lamp: MSR 575/2 GX9.5
• 3 DMX Channels mode: 15/17/22 channels
• Stand alone operation with Master/Slave function, sound activated via built in microphone.
• Pan and tilt movement: 8 and 16 bit resolution
       For smooth and precise motion
       Movement: Pan: 540°/630°optional, Tilt: 265°
       Speed of pan/tilt movement adjustable
       Scan position memory, auto reposition after unexpected movement
• Colors: Basic color wheel with 8 dichroic mirrors, plus white, two direction rainbow effect.
• One rotation gobo wheel with 6 rotating gobos plus open each, One fixation gobo wheel with 7 gobos plus open，both 2 gobo wheels have different speed of gobo shaking and rainbow effect, and gobo indexing
• Prism : 3 –facet speed adjustable prism rotates in two directions with 16 prism macros effect
• Focus: motorized focus
• Dimmer intensity from 0%~100%
• Iris: motorized linear change from 5%~100%
• Step zoom function with 18°、21°、24° lens can be selected.

- Stepless frost, 0%~100% linear change frost
- Friendly blue LCD display
- Strobe/shutter: High speed shutter, 0-13 Hz or random strobe
- Rechargeable Back up Battery for Display, no need external power supply, enable users to enter display menu for address setting or access other functions setting.
- Auto-program: 7 pre-built programs can be selected.
- Software-upload by optional accessory via DMX line

2. FIXTURE OVERVIEW
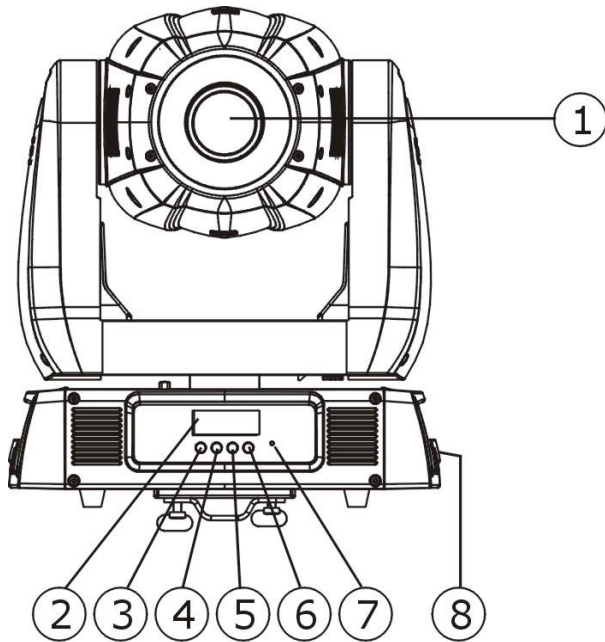
1) Lens

2) Display

3) Mode/esc-button

4) Up-button

5) Down-button

6) Enter-button

7) Microphone

8) Handle

9) 3-Pin DMX out

10) 3-Pin DMX in

11) 5-Pin DMX out

12) 5-Pin DMX in

13) Fuse

14) Power supply
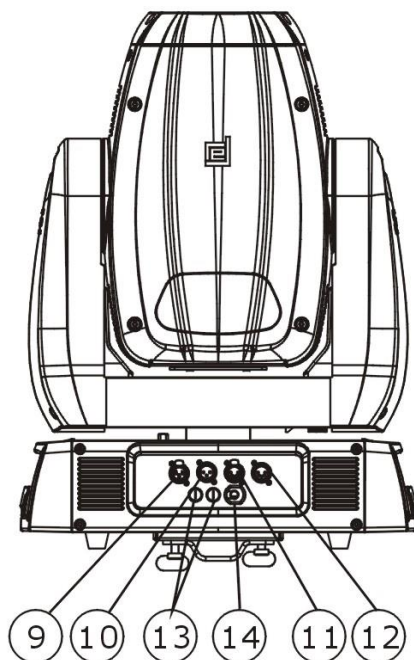
3. SAFETY INSTRUCTIONS

3.1) Important safety warns

> ### CAUTION!
> Be careful with your operations.With a dangerous voltage you can
> Suffer a dangerous electric shock when touching wires!

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 changes, do not switch it on immediately. The arising condensation could damage the device. Leave the device switched off until it has reached room temperature.

This device falls under protection-class I. Therefore it is essential that the device be earthed.

The electric connection must carry out by qualified person.

Make sure that the available voltage is not higher than stated at the end of this manual.

Make sure the power cord is never crimped or damaged by sharp edges. If this would be the case, replacement of the cable must be done by an authorized dealer.

Always disconnect from the mains, when the device is not in use or before cleaning it. Only handle the power cord by the plug. Never pull out the plug by tugging the power cord.

During initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective, it should decrease gradually.

Please don't project the beam onto combustible substances.

If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard.

> ### CAUTION!
> Never touch the device during operation!
> The housing may heat up

> ### CAUTION!
> Never look directly into the light source,
> as sensitive persons may suffer an epileptic shock.

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 with the max alternating current which stated in the technical specifications in the last page of this manual.

Lighting effects are not designed for permanent operation. Consistent operation breaks may ensure that the device will serve you for a long time without defects.

Do not shake the device.Avoid brute force when installing or operating the device.

While choosing the installation-spot, please make sure that the device is not exposed to extreme heat, moisture or dust. Please don't project the beam onto combustible substances.The minimum distance between light-output from the projector and the illuminated surface must be more than 2 meter.

If you use the quick lock cam in hanging up the fixture, please make sure the quick lock fasteners turned in the quick lock holes correctly.

Operate the device only after having familiarized with its functions. Do not permit operation by persons not qualified for operating the device. Most damages are the result of unprofessional operation.

Please use the original packaging if the device is to be transported.

For safety reasons, please be aware that all modifications on the device are forbidden.

If this device will be operated in any way different to the one described in this manual, the product may suffer damages and the guarantee becomes void. Furthermore, any other operation may lead to short-circuit, burns, electric shock, lamp explosion, crash, etc.

4. INSTALLATION INSTRUCTIONS

4.1) Installing or replacing the lamp

	CAUTION! Only install the lamp with the device unplugged from the mains.
	CAUTION! The lamp has to be replaced when it is damaged or deformed.

Before replacing the lamp let the lamp cool down, because during operation, the lamp can reach very high temperature.

During the installation of halogen lamps do not touch the glass bulbs bare handed. Always use a

cloth to handle the lamps during insertion and removal.

Do not install lamps with a higher wattage. They generate higher temperatures than which the device was designed for.

For the installation, you need one: MSR 575/2 GX9.5

Procedures:
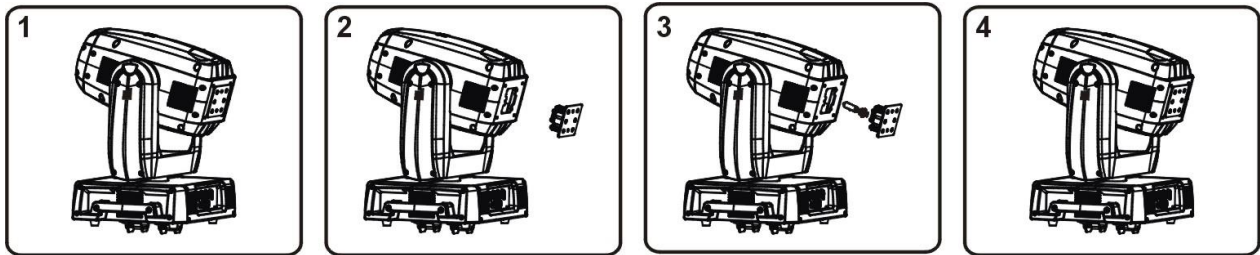
1) Unscrew the 3 screws (A, B, C) on the bottom of the housing, holding the plate where the lamp is underneath. Carefully remove the metal plate.
2) Carefully insert the lamp into the socket. Please remember there is only one way to insert the lamp. Gently slide the lamp and its lamp holder back into place.
3) On the access plate there are 3 screws marked 1,2and 3.which are used to adjust the lamp holder in the lamp housing. You can adjust the 3 screws to fine-turn the position of the lamp to get the maximum light output as shown below.
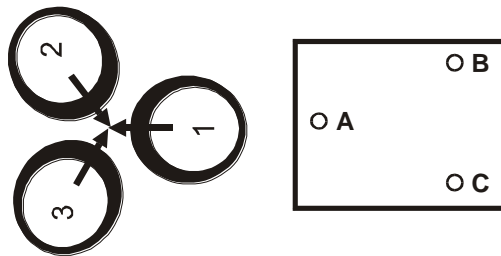
Please remember the lamp is not a hot-restrike type, you must wait for approximately 10 minutes after having turned off the lamp before you can turn it back on again.

CAUTION!
Do not operate this device with open cover

4.2) Mounting the device

CAUTION!
Please consider the GB7000.15/EN60598-2-17 and the other respective national norms during the installation. The installation must only be carried out by a qualified person.

The applicable temperature for the lighting is between -25°C to 45°C. Do not use the lighting under or above the temperature.
The installation of the effect has to be built and constructed 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 rope.

Never stand directly below the device when mounting, removing or servicing the fixture.

The operator has to make sure the safety relating and machine technical installations 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.

CAUTION!
The electric connection must only be carried out by a qualified electrician.

Before mounting make sure that the installation area can hold a minimum point load of 10 times the device's weight.
Connect the fixture to the mains with the power plug.

Installation via the Omega holders

(1)Omega–holders
(2)Clamp
(3)Safety–rope
(4)Quick–lock fastener
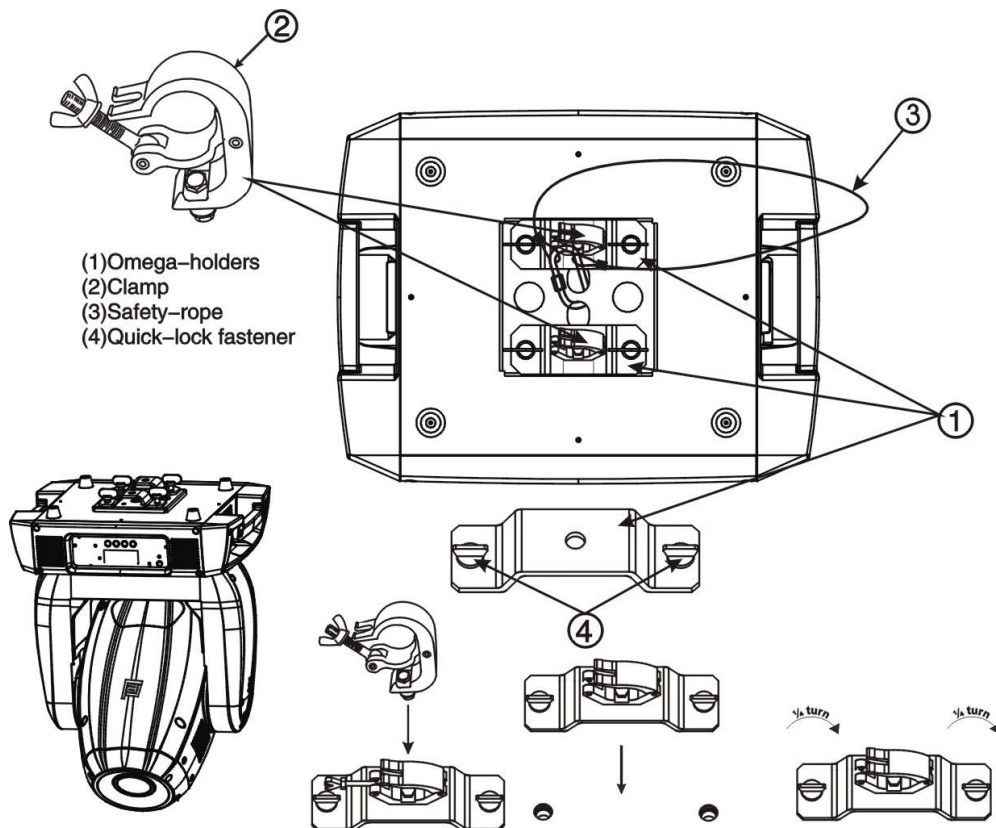
a) Fixed the clamp on the bracket by tighten up the M12 screw on the bracket to the Φ13 hole in the middle of the bracket.
b) Insert the quick-lock fasteners of the first Omega holder into the respective holes on the bottom of the device. Tighten the quick-lock fasteners fully clockwise.

c) Install the second Omega holder.
d) Pull the safety-rope through the holes on the bottom of the base and over the trussing system or a safe fixation spot. Insert the end in the carabine 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.

Dimensional Drawings:

Classe 575 S v1.0
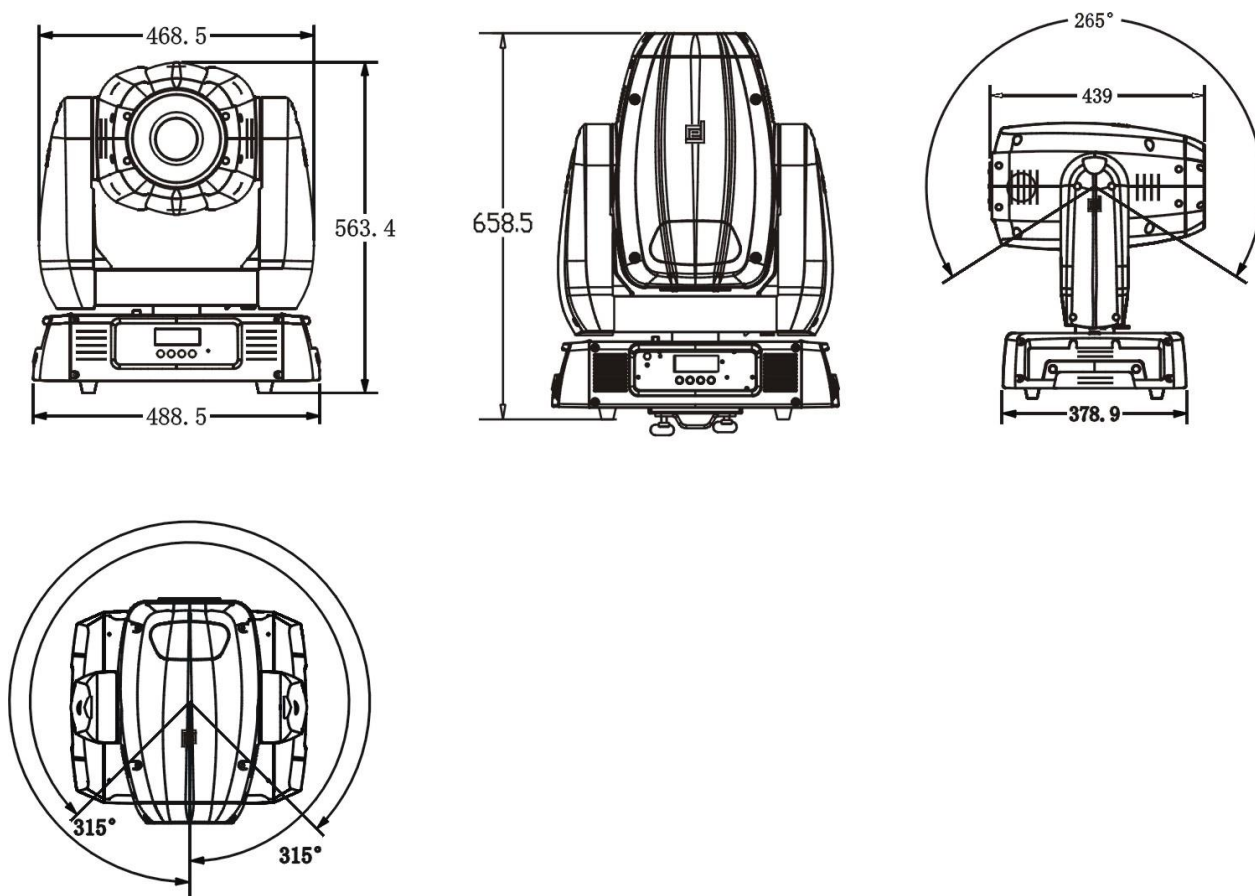
Layout Drawings:
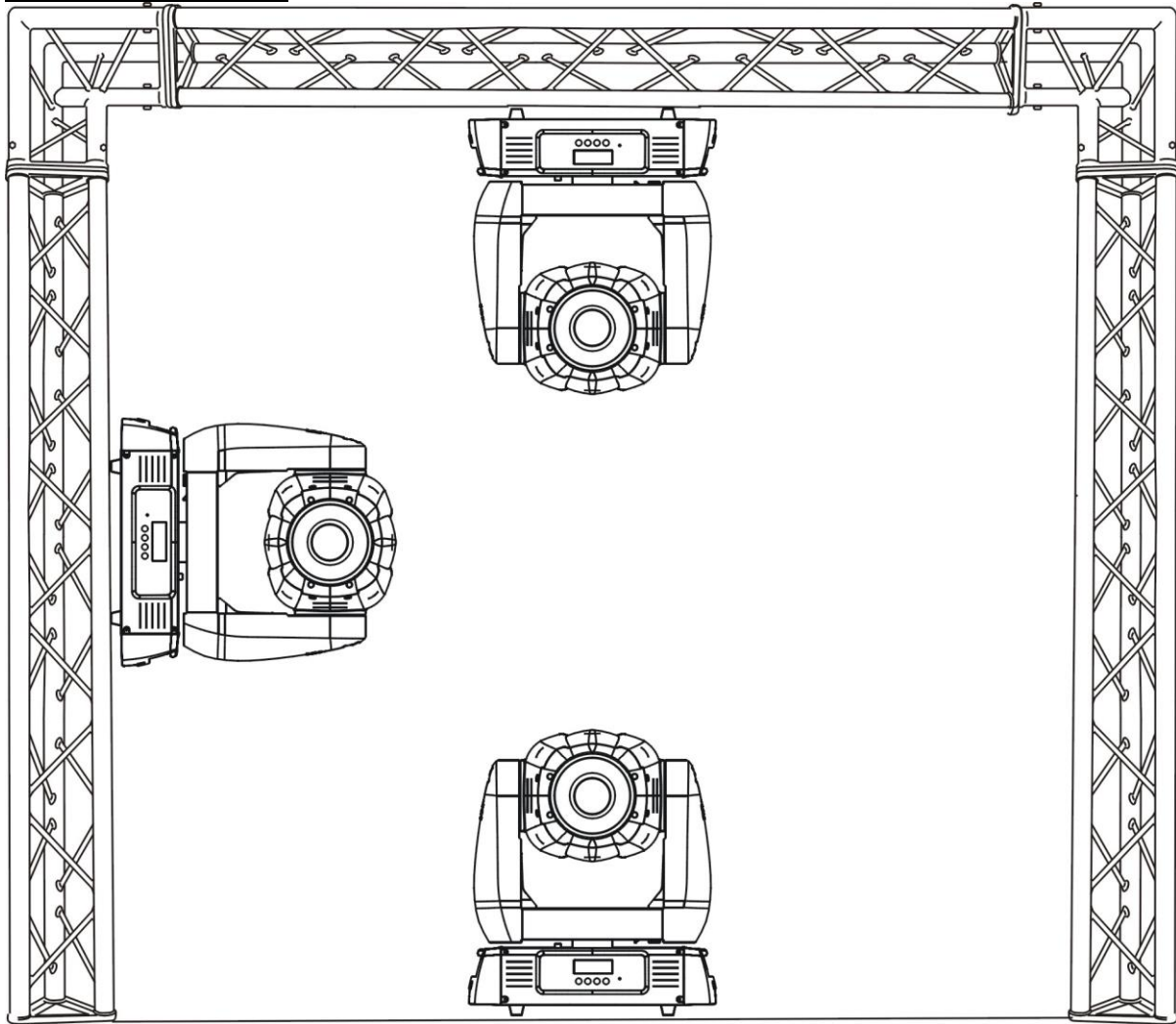
Mounting points

Be sure this fixture is kept at least 2m away from any flammable materials (decoration etc.). 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.

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 3-pin XLR output of your controller and the other side to the male 3-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.

DMX output
3-Pin XLR Socket

DMX Input
3-Pin XLR Socket

1: Ground
2: Signal (−)
3: Signal (+)

DMX Output
5-Pin XLR Socket

DMX Input
5-Pin XLR Socket

1: Ground
2: Signal (−)
3: Signal (+)
4: N.A.
5: N.A.

120 Ohms

⇦DMX512

DMX-controller

Address 35   Address 18   Address 1
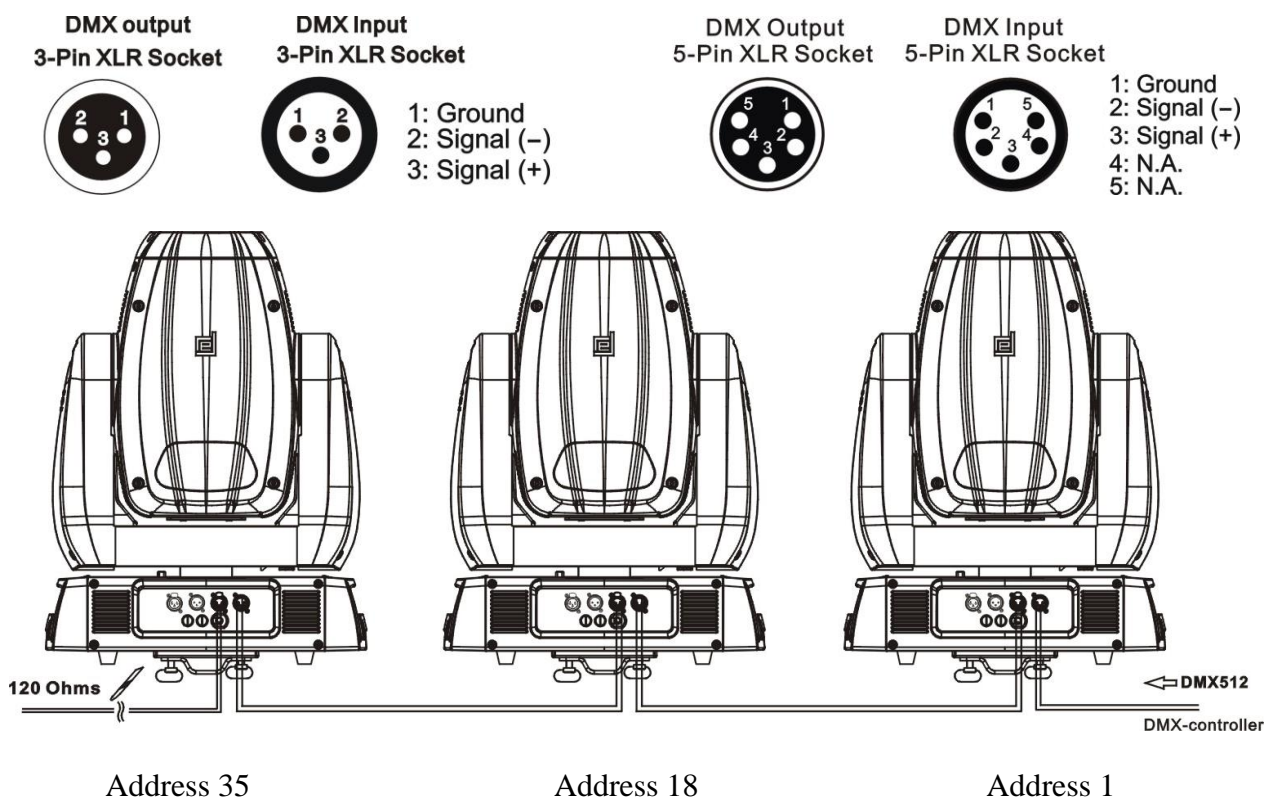
6. DMX-512 connection with DMX terminator

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.

120 Ω

PIN 3
PIN 2
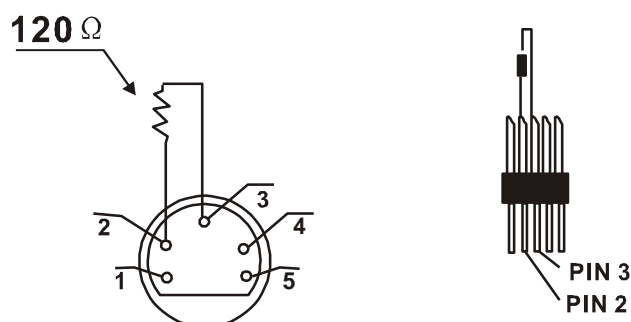
7. Projector DMX start address selection

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.

In the case of the move head, which is a 17 channel fixture, you should set the starting address of the first unit to 1, the second unit to 18 (17 + 1), the third to 35 (17 + 18), and so on.

8. Control Board

There are four keys on the control panel , which could be used to set the address, turn ON/OFF, operating the program and reset.

[Mode/Esc] press this key to enter into edit mode. Press this key under the edit mode if you want to return to previous menu. it will exit from edit mode 60 seconds after the last keypress

[UP] screen will flash when pressing this key in normal mode, the adress value will increasing. Keep pressing this key, the address value will increase rapidly. it will exit from flash 60 seconds after the last keypress. Press this key under edit mode, you can choose the function you want from the buttom up in the menu.

[DOWN] screen will flash when pressing this key in normal mode, the adress value will idecreasing. Keep pressing this key, the address value will decrease rapidly. it will exit from flash 60 seconds after the last keypress. Press this key under edit mode, you can choose the function you want from the top down in the menu.

[ENTER] this key is functionless when in normal mode. Press this key under the edit mode, it will enter into next menu.

To access the display menu via the internal battery, press the UP or DOWN button. The display will automatically switch off about 10 seconds after the last actuation of the buttons.

Function Mode	Set Dmx Address	A001~AXXX		DMX address setting
	Value Display	PAN……		DMX value display
	Set To Slave	Slave1,Slave2,Slave3		Slave setting
	Auto Program	Master / Alone		Auto program
	Music Control	Master / Alone		Music control
Information	Time Information	Current Time	XXXX(Hours)	Power on running time
		Total Life Hours	XXXX(Hours)	Fixture running time
		Last Run Hours	XXXX(Hours)	Fixture Last times clear
		Lamp Hours	XXXX(Hours)	Lamp running time
		Lamp Off Time	XXXX(Minute)	Lamp off time
		Timer Password	Password=XXX	Timer Password *038*
		Clear Last Run	ON/OFF	Clear Fixture Last time
		L-Timer Password	Password=XXX	Lamp Password Code="038"
		Clear Lamp Time	ON/OFF	Clear lamp time
	Temperature Info	Head Temperature	XXX℃/℉	Temperature in the head
	Software Version	Ver1.0……		Software version of each IC
Lamp Control	Lamp On or Off	ON/OFF		Lamp on/off
	Automatic La-On	ON/OFF		Lamp on/off when Power on
	Lamp On Via DMX	ON/OFF		Lamp on via DMX
	Lamp Off Via DMX	ON/OFF		Lamp off via DMX
	Lamp On at Temp.	20~79℃,45℃ /68~174℉ 113℉		Lamp restart at temp.
	Lamp Off at Temp.	80~139℃, 130℃ /176~282℉, 266℉		Lamp off at temp.
Personality	Status Settings	Address via DMX	ON/OFF	Add. via DMX
		No DMX Status	Close/Hold/Auto/Music	Auto run if no DMX
		Pan Reverse	ON/OFF	Pan Reverse movement
		Tilt Reverse	ON/OFF	Tilt Reverse movement
		Pan Degree	630/540	Pan Degree Select
		Feedback	ON/OFF	Movement Feedback switch
		Movement Speed	Speed 1~ 4	Movement Mode Select
		Mic Sensitivity	0~99%	Sensitivity of Mic.
		Hibernation	0FF/1~99M, 15M	Hibernation
	Service Setting	Service Password	Password=XXX	Service Code "=050"
		Fan Voltage	High/Low	Fan Voltage Select
		Gobo Speed	Quick/Slow	Gobo Change Speed
	Fans Control	Auto Fans Speed		Fans Speed Mode Select
		High Fans Speed		
		Low Fans Speed		
	Display Setting	Shutoff Time	02~59m 05m	Display shutoff time
		Key Lock	ON/OFF	Key Lock
	Temperature C/F	Celsius		Temperature switch
		Fahrenheit		between ℃/℉
	Initial Effect	PAN……	PAN =XXX	Initial effect position
	Reset Default	ON/OFF		Restore factory set.

Reset Function	Reset All Reset Pan&Tilt Reset Colors Reset Gobos Reset Shutter Reset Others				Reset all motors Reset Pan/Tilt Reset color wheel Reset gobos Reset shutter and/or dimmer Reset other motors
Effect Adjust	Test Channel	PAN ……			Test function
	Manual Control	PAN :	PAN =XXX :		Fine adjustment of the lamp
	Calibrate Values	--Password-- Color wheel :	Password=XXX Color wheel=XXX :		Calbrate and adjust the effects to standard/right position Password "050"
Users Mode Set	User Mode	Standard Mode Basic Mode Extended Mode User Mode A User Mode B User Mode C			User's mode to change channel numbers
	Edit User Mode	Max Channel PAN :	Max Channel = XX PAN = CH01 :		Preset User modes
Edit Program	Select Programs	Auto Pro Part 1 Auto Pro Part 2 Auto Pro Part 3	Program 1 ~ 10 Program 1 Program 1 ~ 10 Program 2 Program 1 ~ 10 Program 3		Select programs to be run
	Edit Program	Program 1 : Program 10	Program Test Step 01=SCxxx Step 64=SCxxx	("STEP XX")	Testing program Program in loop Save and exit
	Edit Scenes	Edit Scene 001 ~ Edit Scene 250	Pan,Tilt,…… --Secne Time-- Input By Outside	Pan=xxx…… TIME=xx.xs	Save and automatically return manual scenes edit
	Rec. Controller	XX~XX			Automat. scenes rec

Default settings shaded

8.1 FUNCTION MODE

8.1.1 Set DMX Address
With this function, you can adjust the desired DMX-address via the Control Board.
1．Access the main menu.
2．Tap the <Up/Down>button until "Set DMX Address" is displayed.
3．Press ENTER, the display will show "Set DMX Address".
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.

8.1.2 Value Display
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 "Value Display" is displayed.

3．Press ENTER, the display will show "Value Display".

4．Tap the <Up/Down>button，choose each channel.

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

8.1.3 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.

8.1.4 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 "Master1", " Alone".

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

8.1.5 Music control

With this function, you can run the internal program sound-controlled.

1．Access the main menu.

2．Tap the <Up/Down>button until "Music control" is displayed.

3．Press <ENTER>, the display will show "Music control".

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.

8.2 Information
8.2.1 Time information

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．Tap <MODE/ESC>button，access the main menu，Tap the <Up/Down>button until "Information" is displayed. Press ENTER, the display will show "Information". Tap the <Up/Down>button until the display will show "Time Information". Press ENTER, the display will show "Time Information".

2．Press <Up/Down>, the display will show "Current Time".

3．Press< ENTER>, the display will show "Current Time".

4．The display will show "XXXX" (Hours) ；

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

Total Life Hours

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

1．Tap <MODE/ESC>button，access the main menu，Tap the <Up/Down>button until "Information"is displayed. Press ENTER, the display will show "Information". Tap the <Up/Down>button until the display will show "Time Information". Press ENTER, the display will show "Time Information".
2．Press <Up/Down>, the display will show "Total Life Hours".
3．Press< ENTER>, the display will show "Total Life Hours".
4．The display will show "XXXX"(Hours)；
5．Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

Last Run Hours

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．Tap <MODE/ESC>button，access the main menu，Tap the <Up/Down>button until "Information"is displayed. Press ENTER, the display will show "Information". Tap the <Up/Down>button until the display will show "Time Information". Press ENTER, the display will show "Time Information".
2．Press <Up/Down>, the display will show "Last Run Hours".
3．Press< ENTER>, the display will show "Last Run Hours".
4．The display will show "XXXX"(Hours)；
5．Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

Lamp Hours

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

1．Tap <MODE/ESC>button，access the main menu，Tap the <Up/Down>button until "Information"is displayed. Press ENTER, the display will show "Information". Tap the <Up/Down>button until the display will show "Time Information". Press ENTER, the display will show "Time Information".
2．Press <Up/Down>, the display will show "Lamp Hours".
3．Press< ENTER>, the display will show "Lamp Hours".
4．The display will show "XXXX"(Hours)；
5．Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

Lamp off time

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

1．Tap <MODE/ESC>button，access the main menu，Tap the <Up/Down>button until "Information"is displayed. Press ENTER, the display will show "Information". Tap the <Up/Down>button until the display will show "Time Information". Press ENTER, the display will show "Time Information".
2．Press <Up/Down>, the display will show "Lamp Off Time".
3．Press< ENTER>, the display will show "Lamp Off Time".
4．The display will show "XXXX"(Minute)；

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

Time Password

With this function, you can display the timer password. The time password is 038.
1．Tap <MODE/ESC>button，access the main menu，Tap the <Up/Down>button until "Information" is displayed. Press ENTER, the display will show "Information". Tap the <Up/Down>button until the display will show "Time Information". Press ENTER, the display will show "Time Information".
2．Press <Up/Down>, the display will show "Time Password".
3．Press< ENTER>, the display will show "Time Password", the time password is 038.
4．Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

Clear 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．Tap <MODE/ESC>button，access the main menu，Tap the <Up/Down>button until "Information" is displayed. Press ENTER, the display will show "Information". Tap the <Up/Down>button until the display will show "Time Information". Press ENTER, the display will show "Time Information".
2．Press <Up/Down>, the display will show "Clear Last Run".
3．At "Timer Password" menu input a correct password, press< ENTER>, the display will show "Clear Last Run",
4．The display will show "OFF" or "ON".
5．Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

L-Time Password

With this function, you can display the timer password. The time password is 038.
1．Tap <MODE/ESC>button，access the main menu，Tap the <Up/Down>button until "Information" is displayed. Press ENTER, the display will show "Information". Tap the <Up/Down>button until the display will show "Time Information". Press ENTER, the display will show "Time Information".
2．Press <Up/Down>, the display will show "L-Time Password".
3．Press< ENTER>, the display will show "L-Time Password", the time password is 038.
4．Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

Clear lamp time

With this function you can clear the running time of the lamp. Please clear the lamp time every time you replace the lamp.
1．Tap <MODE/ESC>button，access the main menu，Tap the <Up/Down>button until "Information" is displayed. Press ENTER, the display will show "Information". Tap the <Up/Down>button until the display will show "Time Information". Press ENTER, the display will show "Time Information".
2．Press <Up/Down>, the display will show "Clear Lamp Time".
3．At "Timer Password" menu input a correct password, press< ENTER>, the display will show "Clear Lamp Time",
4．The display will show "OFF" or "ON".
5．Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

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

1．Tap <MODE/ESC>button，access the main menu，Tap the <Up/Down>button until "Information"is displayed. Press ENTER, the display will show "Information". Tap the <Up/Down>button until "Temperature Info" is displayed. Press ENTER, the display will show "Temperature Info".
2．Press <Up/Down>, the display will show "Head Temperature".
3．Press< ENTER>, the display will show "Head Temperature".
4．The display show "XXX °C/ °F".
5．Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

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

1．Tap <MODE/ESC>button，access the main menu，Tap the <Up/Down>button until "Information" is displayed. Press ENTER, the display will show "Information".
2．Press <Up/Down>, the display will show "Software version".
3．Press< ENTER>, the display will show "Software version".
4．The display show "Ver 1.0……".
5．Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

8.3 LAMP CONTROL
When the real temperature around the lamp is higher than the preset value, the lamp will be shut down in 5 minutes automatically.

・When the LCD display shows "Off", it means the lamp must be turned on again manually;

・When the LCD display shows "Hot", it means the actual temperature around the lamp is still higher than the preset value, so even the lamp can not be striked even the menu Lamp is turned to ON, as the lamp switch is compelled to turned off.

・When the temperature unit after the temperature value come to lowercase letter "c" or "f", it means menu Lamp is turned to ON, but the lamp is not full dimming up.

・When the temperature unit after the temperature value come to capital letter "C" or "F", it menu Lamp is turned to ON, and the lamp is full intensity.

8.3.1 Lamp on/off
With this function you can switch the lamp on or off via the Control Board.

1．Tap <MODE/ESC>button，access the main menu，Tap the <Up/Down>button until"Lamp Control" is displayed. Press ENTER, the display will show "Lamp Control". Tap the <Up/Down>button until the display will show "Lamp On ot Off". Press ENTER, the display will show "Lamp On ot Off".
2．Press <Up/Down>, the display will show "OFF" or "ON".
3．Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

Remark: The menu Lamp On/Off is the software command only, the lamp can be striked successfully only when the menu Lamp is set to ON and the actual temperature is lower than the limited value.

8.3.2 Lamp on/off when power on
With this function you can select if the lamp will be switched on when switching the power on.
Select **"ON"** by turning the encoder if you wish to enable this function or **"OFF"** if you don't.
1．Tap <MODE/ESC>button，access the main menu，Tap the <Up/Down>button until"Lamp Control" is displayed. Press ENTER, the display will show "Lamp Control". Tap the <Up/Down>button until the display will show "Automatic La-On". Press ENTER, the display will show "Automatic La-On".
2．Press <Up/Down>, the display will show "OFF" or "ON".
3．Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

8.3.3 Lamp on via external controller
With this function you can select if you can switch the lamp on via an external controller (DMX-channel of internal programs, value 64-79). Select **"ON"** by turning the encoder if you wish to enable this function or **"OFF"** if you don't.

1．Tap <MODE/ESC>button，access the main menu，Tap the <Up/Down>button until"Lamp Control" is displayed. Press ENTER, the display will show "Lamp Control". Tap the <Up/Down>button until the display will show "Lamp On Via DMX". Press ENTER, the display will show "Lamp On Via DMX".
2．Press <Up/Down>, the display will show "OFF" or "ON".
3．Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

8.3.4 Lamp off via external controller
With this function you can select if you can switch the lamp off via an external controller (DMX-channel of internal programs, value 224-239). Select **"ON"** by turning the encoder if you wish to enable this function or **"OFF"** if you don't.
1．Tap <MODE/ESC>button，access the main menu，Tap the <Up/Down>button until"Lamp Control" is displayed. Press ENTER, the display will show "Lamp Control". Tap the <Up/Down>button until the display will show "Lamp Off Via DMX". Press ENTER, the display will show "Lamp Off Via DMX".
2．Press <Up/Down>, the display will show "OFF" or "ON".
3．Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

8.3.5 Lamp on at temp.
With this function you can set the inside temperature from which the projector will restrike the lamp after automatic lamp shut off.
1．Tap <MODE/ESC>button，access the main menu，Tap the <Up/Down>button until"Lamp Control" is displayed. Press ENTER, the display will show "Lamp Control". Tap the <Up/Down>button until the display will show "Lamp On at Temp". Press ENTER, the display will show "Lamp On at Temp".
2．Press <Up/Down>, the display will show "45℃", Temperature generally in 20~79 ℃.
3．Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

8.3.6 Lamp off at temp.
With this function you can set the inside temperature at which the projector will automatically switch the lamp off.
1．Tap <MODE/ESC>button，access the main menu，Tap the <Up/Down>button until"Lamp Control" is displayed. Press ENTER, the display will show "Lamp Control". Tap the

<Up/Down>button until the display will show "Lamp Off at Temp". Press ENTER, the display will show "Lamp Off at Temp".

2．Press <Up/Down>, the display will show "130℃", Temperature generally in 80~139 ℃.

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

When the temperature around the lamp is higher than the preset value continuously up to 5 minutes, the lamp will be shut off automatically.

If the lamp be shut off automatically due to over heat, it can not be striked again automatically, it must be turned on again by manually.

8.4 PERSONALITY
8.4.1Status setting
Address via DMX

With this function, you can adjust the desired DMX-address via an external controller.

1．Tap <MODE/ESC>button，access the main menu，Tap the <Up/Down>button until "Personality" is displayed. Press ENTER, the display will show "Personality". Tap the <Up/Down>button until the display will show "Status setting". Press ENTER, the display will show "Status setting".

2．Press <Up/Down>, the display will show "Address via DMX".

3．Press< ENTER>, the display will show "Address via DMX".

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.

No DMX Status

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

1．Tap <MODE/ESC>button，access the main menu，Tap the <Up/Down>button until "Personality"is displayed. Press ENTER, the display will show "Personality". Tap the <Up/Down>button until the display will show "Status setting". Press ENTER, the display will show "Status setting".

2．Press <Up/Down>, the display will show "No DMX Status".

3．Press< ENTER>, the display will show "No DMX Status".

4．The display show "Hold",Press <Up/Down>, the display will show "Close", "Auto", "Music".

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．Tap <MODE/ESC>button，access the main menu，Tap the <Up/Down>button until "Personality" is displayed. Press ENTER, the display will show "Personality". Tap the <Up/Down>button until the display will show "Status setting". Press ENTER, the display will show "Status setting".

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．Tap <MODE/ESC>button，access the main menu，Tap the <Up/Down>button until "Personality" is displayed. Press ENTER, the display will show "Personality". Tap the <Up/Down>button until the display will show "Status setting". Press ENTER, the display will show "Status setting".

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．Tap <MODE/ESC>button，access the main menu，Tap the <Up/Down>button until "Personality" is displayed. Press ENTER, the display will show "Personality". Tap the <Up/Down>button until the display will show "Status setting". Press ENTER, the display will show "Status setting".

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．Tap <MODE/ESC>button，access the main menu，Tap the <Up/Down>button until "Personality" is displayed. Press ENTER, the display will show "Personality". Tap the <Up/Down>button until the display will show "Status setting". Press ENTER, the display will show "Status setting".

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.

Movement Speed

With this function, you can select scan mode from 1 to 4.

1．Tap <MODE/ESC>button，access the main menu，Tap the <Up/Down>button until "Personality" is displayed. Press ENTER, the display will show "Personality". Tap the <Up/Down>button until the display will show "Status setting". Press ENTER, the display will show "Status setting".

2．Press <Up/Down>, the display will show "Movement Speed".

3．Press< ENTER>, the display will show "Movement Speed".

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.

Mic Sensitivity

With this function, the default is 70%，you can select the desired microphone sensitivity from 0 % to 99 %.

1．Tap <MODE/ESC>button，access the main menu，Tap the <Up/Down>button until "Personality" is displayed. Press ENTER, the display will show "Personality". Tap the <Up/Down>button until the display will show "Status setting". Press ENTER, the display will show "Status setting".

2．Press <Up/Down>, the display will show "Mic Sensitivity".

3．Press< ENTER>, the display will show "Mic Sensitivity".

4．The display show "70%",Press <Up/Down>, the display will show "0~99%".

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．Tap <MODE/ESC>button，access the main menu，Tap the <Up/Down>button until "Personality" is displayed. Press ENTER, the display will show "Personality". Tap the <Up/Down>button until the display will show "Status setting". Press ENTER, the display will show "Status setting".

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.

8.4.2 Service setting

Service Password

With this function, you can set the service password.

1．Tap <MODE/ESC>button，access the main menu，Tap the <Up/Down>button until "Personality" is displayed. Press ENTER, the display will show "Personality". Tap the <Up/Down>button until the display will show "Service setting". Press ENTER, the display will show "Service setting".

2．Press <Up/Down>, the display will show "Service Password".

3．Press< ENTER>, the display show "Password=050".

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

Fan Voltage

With this function, you can select fan voltage for high or low, the default is low

1．Tap <MODE/ESC>button，access the main menu，Tap the <Up/Down>button until "Personality" is displayed. Press ENTER, the display will show "Personality". Tap the <Up/Down>button until the display will show "Service setting". Press ENTER, the display will show "Service setting".

2．Press <Up/Down>, the display will show "Fan Voltage".

3．Press< ENTER>, the display show "LOW" , Press <Up/Down>, the display will show "High",

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

Gobo Speed
With this function, you can select GOBO speed for quick or slow, the default is quick.
1．Tap <MODE/ESC>button，access the main menu，Tap the <Up/Down>button until "Personality" is displayed. Press ENTER, the display will show "Personality". Tap the <Up/Down>button until the display will show "Service setting". Press ENTER, the display will show "Service setting".
2．Press <Up/Down>, the display will show "Gobo Speed".
3．Press< ENTER>, the display show "Quick", Press <Up/Down>, the display will show "Slow",
4．Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

8.4.3 Fans Control
With this function, you can set the speed of the running fans. The selections have Auto、high and low.
1．Tap <MODE/ESC>button，access the main menu，Tap the <Up/Down>button until "Personality" is displayed. Press ENTER, the display will show "Personality".
2．Press <Up/Down>, the display will show "Fans Control".
3．Press< ENTER>, the display will show "Fans Control".
4．The display show "Auto Fans Speed",Press <Up/Down>, the display will show "High Fans Speed", "Low Fans Speed".
5．Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

8.4.4 Display settings
Shut off time
With this function you can shut off the color LCD display after 2 to 59 minutes. Turn the encoder in order to select the desired shut off time. The default is 5 minute.

Display Reverse
With this function you can rotate the display by 180°.
1．Tap <MODE/ESC>button，access the main menu，Tap the <Up/Down>button until "Personality" is displayed. Press ENTER, the display will show "Personality". Tap the <Up/Down>button until the display will show "Display Setting". Press ENTER, the display will show "Display Setting".
2．Press <Up/Down>, the display will show "Display Reverse".
3．Press< ENTER>, the display will show "Display 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.

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<MODE/ESC> key for 3seconds if you do not need this function.
1．Tap <MODE/ESC>button，access the main menu，Tap the <Up/Down>button until "Personality"is displayed. Press ENTER, the display will show "Personality". Tap the <Up/Down>button until the display will show "Display Setting". Press ENTER, the display will show "Display Setting".
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.

8.4.5 Temperature C/F
With this function, Display the temperature for Celsius or Fahrenheit.
1．Tap <MODE/ESC>button，access the main menu，Tap the <Up/Down>button until "Personality" is displayed. Press ENTER, the display will show "Personality".
2．Press <Up/Down>, the display will show "Temperature C/F".
3．Press< ENTER>, the display will show "Temperature 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.

8.4.6 Initial effect
With this function, Display initial effect position.
1．Tap <MODE/ESC>button，access the main menu，Tap the <Up/Down>button until "Personality" is displayed. Press ENTER, the display will show "Personality".
2．Press <Up/Down>, the display will show "Initial effect".
3．Press< ENTER>, the display will show "Initial effect".
4．The display show "XXX".
5．Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

8.4.7 Restore Default
With this function, you can select restore factory set for ON or OFF, the default is OFF.
1．Tap <MODE/ESC>button，access the main menu，Tap the <Up/Down>button until "Personality" is displayed. Press ENTER, the display will show "Personality".
2．Press <Up/Down>, the display will show "Restore Default".
3．Press< ENTER>, the display will show "Restore Default".
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.

8.5 Reset-functions
With this function you can reset the device via the Control Board. You can select the different reset functions by turning the encoder.
1．Tap <MODE/ESC>button，access the main menu，Tap the <Up/Down>button until "Reset-functions"is displayed. Press ENTER, the display will show "Reset-functions".
2．The display show "Reset All" , Press <Up/Down>, the display will show "Reset Pan/Tilt"，"Reset Colors", "Reset Gobos", "Reset Shutter", Reset Other ".
3．Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

8.6 Effect Adjust
8.6.1 Test channel
With this function you can test each channel on its (correct) function.
1．Tap <MODE/ESC>button，access the main menu，Tap the <Up/Down>button until "Effect Adjust" is displayed. Press ENTER, the display will show "Effect Adjust".
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" frist channel, Press <Up/Down>, can choose other channel.
5．Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

8.6.2 Manual control
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 erform the fine lamp adjustment.
1．Tap <MODE/ESC>button，access the main menu，Tap the <Up/Down>button until "Effect Adjust" is displayed. Press ENTER, the display will show "Effect Adjust".
2．Press <Up/Down>, the display will show "Manual control".
3．Press< ENTER>, the display will show "Manual control".
4．The display show "PAN=XXX".
5．Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

8.6.3 Calibrate values
With this function, you can calibrate and adjust the effect wheels to their correct positions. The password of calibrate values is 050.
1．Tap <MODE/ESC>button，access the main menu，Tap the <Up/Down>button until "Effect Adjust" is displayed. Press ENTER, the display will show "Effect Adjust".
2．Press <Up/Down>, the display will show "Calibrate values".
3．Press< ENTER>, the display will show "Calibrate values".
4．The display show "Password=XXXX".
5．Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

8.7 Users mode set
In this menu, user can select different channels list by different sequence:
For example, after the user enter this manual, if select Auto Program = CH 22, means in this User's mode, the "Dimmer" is in Channel 16.

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

8.7.2 Preset User mode
With this function, you can adjust the rest user defined channel order.
1．Tap <MODE/ESC>button，access the main menu，Tap the <Up/Down>button until"Users mode set" is displayed. Press ENTER, the display will show "Users mode set".
2．The display show "User Mode" frist channel, Press <Up/Down> the display will show "Edit User Mode".
3．Press <ENTER> to confirm or press <MODE/ESC> to return to the main menu.

8.8 Edit program

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

8.8.2 Edit program

With this function, you can edit the internal programs.

8.8.3 Edit scenes

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

8.8.4 Auto scenes rec.

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.

Auto Pro Part 1	Auto Pro Part 2	Auto Pro Part 3	→	Auto Pro Part 1	Auto Pro Part 2	Auto Pro Part 3	→	Auto Pro Part 1	Auto Pro Part 2	Auto Pro Part 3

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 • Turn the encoder to select the desired scene numbers. You can program a maximum number of 250 scenes.
- 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
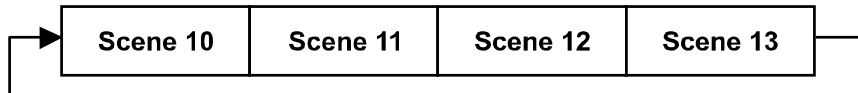Program 4 includes scenes: 8, 9, 10
Program 6 includes scenes: 12, 13, 14, 15
Auto Pro Part 1 is Program 2;
Auto Pro Part 2 is Program 3;
Auto Pro Part 3 is Program 6

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

Part 1:

Scene 10	Scene 11	Scene 12	Scene 13

Part 2:

Scene 8	Scene 9	Scene 10	Scene 8

Part 3:

Scene 12	Scene 13	Scene 14	Scene 15
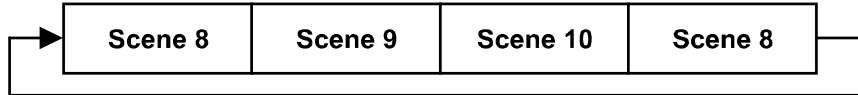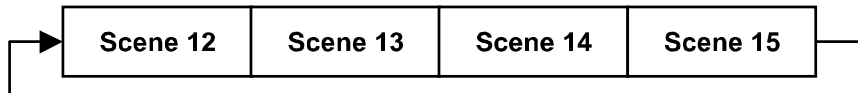
9. INSTRUCTIONS ON USE:

DMX channel´s functions and their values (22 DMX channels):				
Mode/Channel			**Value**	**Function**
St	**Ba**	**Ex**		
1	1	1		**Color Wheel:**
			0-13	Open / white
			14-27	Color 1
			28-41	Color 2
			42-55	Color 3
			56-69	Color 4
			70-83	Color 5
			84-97	Color 6
			98-111	Color 7
			112-127	Color 8
			128-189	Forwards rainbow effect from fast to slow
			190-193	No rotation
			194-255	Backwards rainbow effect from slow to fast
		2		**Color Wheel Fine :**
			0-255	Color Wheel colour change to any position Fine
2	2	3		**Rotating gobos, cont. rotation:**
			0-9	Open
			10-19	Rot. gobo 1
			20-29	Rot. gobo 2
			30-39	Rot. gobo 3
			40-49	Rot. gobo 4
			50-59	Rot. gobo 5
			60-69	Rot. gobo 6
			70-89	Gobo 1 shake slow to fast

			90-109	Gobo 2 shake slow to fast
			110-129	Gobo 3 shake slow to fast
			130-149	Gobo 4 shake slow to fast
			150-169	Gobo 5 shake slow to fast
			170-189	Gobo 6 shake slow to fast
			190-255	Rot. gobo wheel cont. rotation slow to fast
3	3	4		**Rotating gobo index, rotating gobo rotation :**
			0-127	Gobo indexing
			128-189	Forwards gobo rotation from fast to slow
			190-193	No rotation
			194-255	Backwards gobo rotation from slow to fast
5	5	5		**PAN Movement 8bit :**
			0-255	Pan Movement
6	6	6		**TILT Movement 8bit :**
			0-255	Tilt Movement
7	7	7		**Speed Pan/Tilt movement:**
			0-225	Max to min speed
			226-235	Blackout by movement
			236-245	Blackout by all wheel changing
			246-255	No function
		8		**Rotating gobo indexing Fine**
			0-255	Fine indexing
4	4	9		**Fixed Gobos :**
			0-13	Open/hole
			14-27	Gobo 1
			28-41	Gobo 2
			42-55	Gobo 3
			56-69	Gobo 4
			70-83	Gobo 5
			84-97	Gobo 6
			98-111	Gobo 7
			112-127	Gobo 1 shake slow to fast
			128-143	Gobo 2 shake slow to fast
			144-159	Gobo 3 shake slow to fast
			160-175	Gobo 4 shake slow to fast
			176-191	Gobo 5 shake slow to fast
			192-207	Gobo 6 shake slow to fast
			208-223	Gobo 7 shake slow to fast
			224-255	Gobo wheel rotation from slow to fast
		10		**Fixed gobo indexing Fine**
			0-255	Fixed gobo Fine indexing
8	8	11		**3 facet rotating prism, Prism / Gobo macros:**
			0-3	Open

			4-63	Forwards rotation from fast to slow
			64-67	No rotation
			68-127	Backwards rotation from slow to fast
			128-135	Macro 1
			136-143	Macro 2
			144-151	Macro 3
			152-159	Macro 4
			160-167	Macro 5
			168-175	Macro 6
			176-183	Macro 7
			184-191	Macro 8
			192-199	Macro 9
			200-207	Macro 10
			208-215	Macro 11
			216-223	Macro 12
			224-231	Macro 13
			232-239	Macro 14
			240-247	Macro 15
			248-255	Macro 16
9	9	12		**Focus :**
			0-255	Continuous adjustment from near to far
		13		**Focus Fine:**
			0-255	Continuous adjustment Fine
10	10	14		**Step Zoom:**
			0-85	Zoom1
			86-171	Zoom2
			172-255	Zoom3
11	11	15		**Shutter, strobe:**
			0-31	Shutter closed
			32-63	No function (shutter open)
			64-95	Strobe effect slow to fast
			96-127	No function (shutter open)
			128-159	Pulse-effect in sequences
			160-191	No function (shutter open)
			192-223	Random strobe effect slow to fast
			224-255	No function (shutter open)
12	12	16		**Dimmer intensity:**
			0-255	Intensity 0 to 100%
		17		**Fine Dimmer intensity:**
			0-255	Dimmer intensity fine
13	13	18		**Iris:**
			0-191	Max. diameter to Min.diameter
			192-223	Pulse opening fast to slow

			224-255	Pulse closing slow to fast
14	14	19		**Frost:**
			0-191	Frost 0~100%
			192-223	Pulse opening fast to slow
			224-254	Pulse closing slow to fast
			255	Max. Frost
15	15	20		**Lamp on/off, reset, internal programs:**
			0-19	colour & gobo change normal
			20-29	colour change to any position
			30-39	colour & gobo change to any position
			40-59	Lamp on
			60-79	Lamp switch off
			80-84	All motor reset
			85-87	Scan motor reset
			88-90	Colors motor reset
			91-93	Gobo motor reset
			94-96	Shutter & Dimmer motor reset
			97-99	Other motor reset
			100-119	Internal program 1 (secne1~8 of EEPROM)
			120-139	Internal program 2 (secne9~16 of EEPROM)
			140-159	Internal program 3 (secne17~24 of EEPROM)
			160-179	Internal program 4 (secne25~32 of EEPROM)
			180-199	Internal program 5 (secne33~40 of EEPROM)
			200-219	Internal program 6 (secne41~48 of EEPROM)
			220-239	Internal program 7 (secne49~56 of EEPROM)
			240-255	Music Control (secne of Program 1)
16		21		**Pan Fine 16bit**
			0-255	Fine control of Pan movement
17		22		**Tilt Fine 16bit**
			0-255	Fine control of Tilt movement

10. 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 "Err channel is Color wheel", it means there is some error in channel 1. If there are some errors on channel 1, channel 5, channel 6 at the same time, you may see the error message "Err channel is Color wheel", "Err channel is Pan movement", "Err channel is Tilt movement" flash repeated for 2 times, and then the fixture will generate a second reset. If the fixture remain 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- movement Er
(PAN-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.

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

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

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

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

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

Focus Er

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

Zoom Er

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

11. 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) To make sure the smooth gobo rotation, we suggest adding proper lube to the wheel each three month, avoiding the excessive lube splashes during the gobo rotating.

4) 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.

12. TECHNICAL SPECIFICATIONS

Power supply:
☐AC220V~,50Hz; ☐AC230V~,50Hz; ☐AC240V~,50Hz;
☐AC220V~,60Hz; ☐AC230V~,60Hz; ☐AC240V~,60Hz;
Power consumption*:* 780W
Lamp: MSR 575/2 GX9.5
Lamp power: 575W
Flight case dimensions: 99 x 61 x 93 cm (2Pcs)
Net weight:36 KGS
Gross weight: 125.5 KGS

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