AYRTON

User Manual

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KEEP THIS MANUAL FOR FUTURE NEEDS C E

CONTENTS

1. SAFETY INSTRUCTIONS

1.1. IMPORTANT SAFETY WARNING

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

In order to install，operate，and maintain the lighting fixture safely and correctly we suggest that the installation and operation be carried out by qualified technicians and these instructions be carefully followed.

⚡	**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

FC	**CAUTION!** **Warning**：Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. **NOTE**：This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

☞ *Important:*
Damage caused by the disregard of this user manual is not subject to warranty.The dealer and manufacturer 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 oower 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 smoke or smell may occur.This is caused by coating on metal parts when heated and is normal.If you are concerned，please contact your distributor.
- Do not focus the beam onto flammable surfaces.The minimum distance between the exiting lens of the device and the illuminated surface must be greater than 3 meter.

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

1.2. 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 applicable temperature for the device is between -10°C to 45°C.Do not use the device outside of this temperature range.
- The light source of this luminaire is not replaceable; when the light source reaches its end of life the whole luminaire shall be replaced.

For safety reasons，please be aware that all modifications to the device are forbidden.
If this device is operated in any way different to the ones described in this manual，the product may suffer damage and the warranty becomes void.Furthermore，any other operation may lead to short-circuits，burns，electric shocks etc.

2. FEATURES

POWER SUPPLY
- AC100-240V~，50/60Hz
- Power Consumption：900W

LIGHT SOURCE
- LED：White LED550W，8000±400K Color Temperature @ EURUS S
        White LED550W，7000±400K Color Temperature @ EURUS TC
- Extremely long Life：>20,000H

MOVEMENT
- Pan movement：540° /630° Optional (16 bit)
- Tilt movement：270° (16 bit)
- Advanced moving system：fast，stable and quite，auto x-y repositioning

COLORS
- CMY + CTO color mixing，uniform，linear and speed can be adjustable
- 1 Color wheel：7 dichroic filters + open，indexable，rainbow effect
- Additional 2 dichroic filters + open，for color correction

GOBOS
- 1 Rotating gobo wheel：7 interchangeable，rotating，and indexable，gobo+open
- "Slot in & out" gobo wheel system
- 1 Fixed gobo wheel：11 interchangeable，rotating，and indexable，gobo+open

FEATURES
- 3 Control channel modes：41/39/62 channels
- 2 Operation modes：DMX-512，Master / Slave mode
- Strobe effect with 1-25 flashes per second and pulse effect
- Rotating prism：5-Facet Prism and Linear Prism
- Animation wheel：can make special dynamic flame or water effect
- Focus：Motorized focus
- Stepless frost：0%~100% linear change frost
- Stepless iris：5%~100% linear change iris，pulse iris effect
- Dimmer：0%~100% full range dimming

DISPLAY
- Advanced and convenient full –color LCD
- Can be changed 180° reverse to fit for different installation position

SOFTWARE
Upgrades：fast and convenient through DMX cable with DMX-512 controller

Reset DMX address，remote lamp control，reset can all be done by the DMX controller

Running time of fixture on display for reference

OTHER SPEC

Input signal isolation：guarantees stable signal transmission without interference
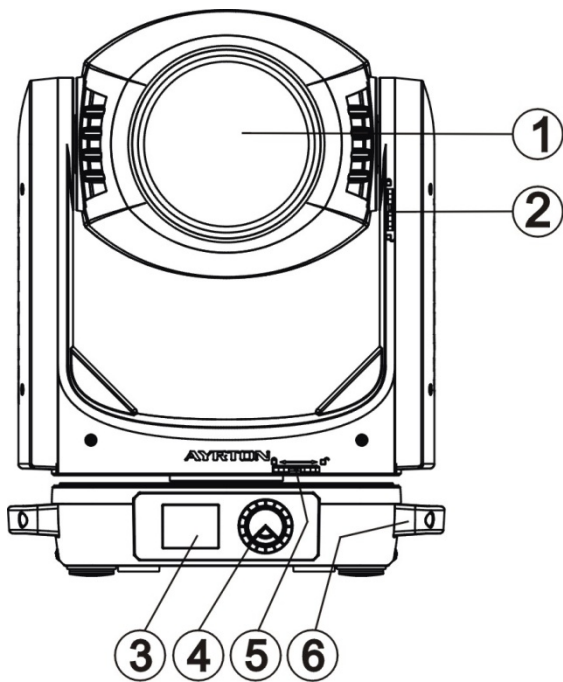
Advanced RDM function

WEIGHT
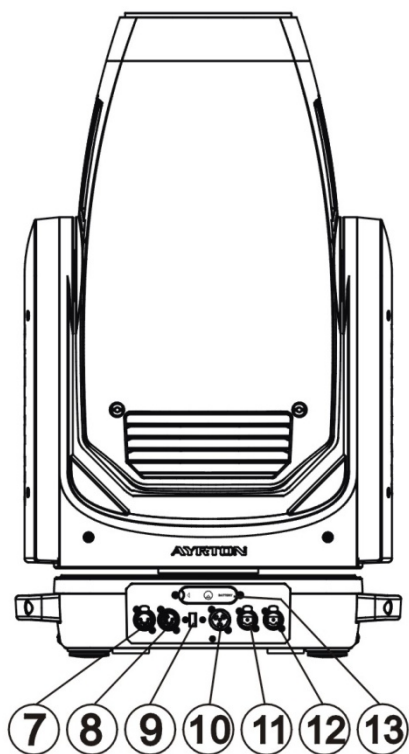
Net weight：32.8 kg

DMX CHANNEL CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
%	Pan	Pan Fine	Tilt	Tilt Fine	Speed Pan /Tilt movement	Strobe	Dimmer intensity	Chase Patterns	Chase Speed	Chase Fade	Zoom	Focus	Auto Focus	AutoFocus Fine	Color	Minus Green	C	M	Y	CTO	Rota. Gobo 1
100%		16bit Pan Fine		16bit Tilt Fine	No funtion				Slow to Fast Forward				15m			Minus Green 1 /4					
75%					Blackout by all wheel changing	RANDOM STROBE		Reserved	Chase 13				10m								
50%					Blackout by movement	Pulse-effec in sequence		Chase 6	Stop (Speed=0)	Fade Chase			7.5m			Minus Green 1 /2					
25%					Min			Chase 1	Fast to Slow Backward				5m								Gobo Shake
0%					Max			Open					Auto Focus Off			Open					

	22	23	24	25	26	27	28	29	30	31	32/34 36/38	33/35 37/39	40	41
%	Gobo Rotation 1	Rota. Gobo 2	Animation wheel 1	Iris	Prism 1	Prism Rotation1	Prism 2	Prism Rotation2	Frost 1	Frost 2	Blade1A/ 2A/3A/4A	Blade 1B/ 2B/3B/4B	All Blade Rotation	Auto programs
100%				Pulse opening slow to fast										Unused / CMY speed 2 / CMY speed 1 / Frost Progressive On
75%				Pulse closing fast to slow	5-Facet Prism		Linear Prism				Close			Frost Progressive Off / Other motor reset / Reset P/T Fade On / Reset P/T Fade Off / Unused
50%	Stop	Gobo Shake							Moving speed	Moving speed			All Blade Rotation	Gobo motor reset / Colors motor reset / Scan motor reset / All motor reset / Gobo correction On / Gobo correction Off / 8K / 16K / 4K / 1.2K
25%			Animation Wheel	Open	Open		Open					Open		Linear / Square Law / Theatre fan control mode / Silence fan control mode / Studio fan control mode / Stage fan control mode / Auto fan control mode / Display Invert On / Display Invert Off / Display On / Display Off / Unused
0%	GOBO INDEXING					Prism indexing		Prism indexing						

5

3. FIXTURE OVERVIEW

1) Lens

2) Tilt Lock

3) Display

4) Clicking Jog Wheel

5) Pan Lock

6) Handle

7) DMX Out

8) DMX In

9) USB

10) Power In

11) RJ45 Out

12) RJ45 In

13) Battery

4. DIMENSIONAL DRAWINGS

4.1. Fixture Dimension
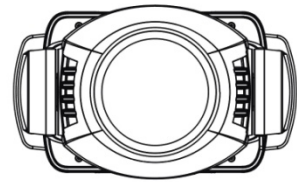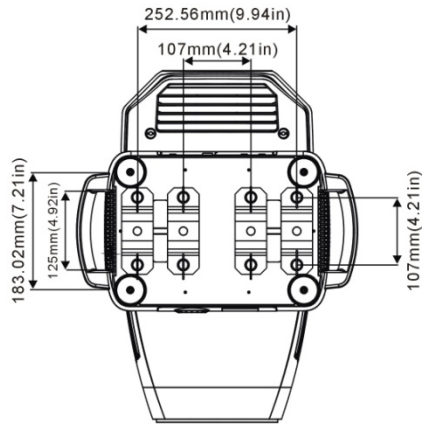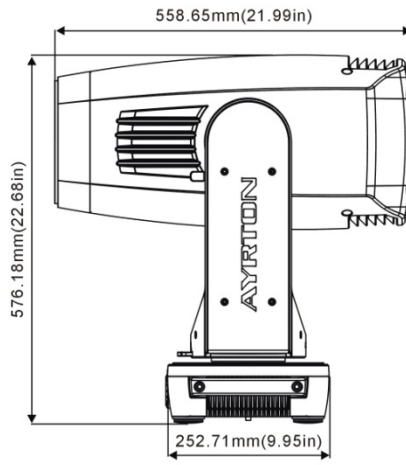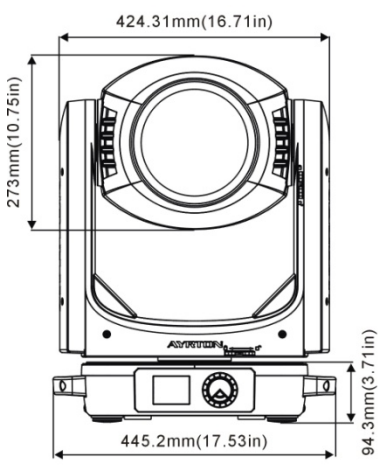
4.2. Gobo Filter Dimension

Rotating Gobo:

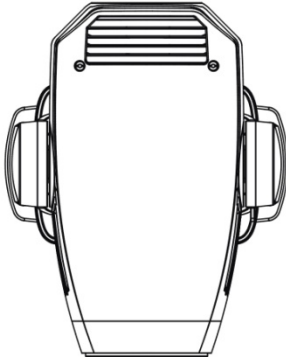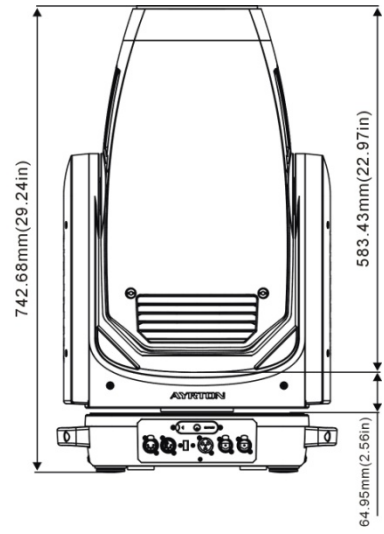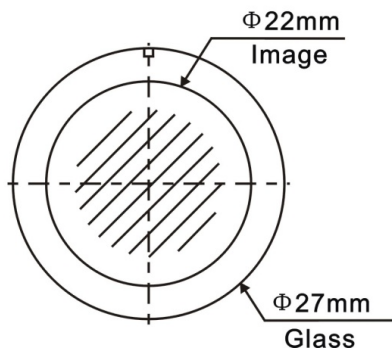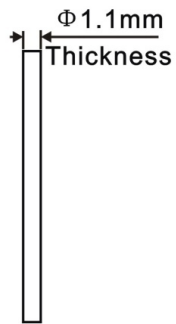

Black & White Gobo: Color Gobo6 / 7:
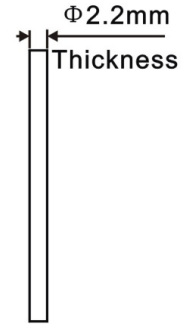
Rotating Gobo：

1. 130 - Dot Line 11
   (6.03.03.01.1206)

2. 074 - Star Dust
   (6.03.03.01.1209)

3. 018 - Nested Triangle
   (6.03.03.01.1208)

4. 134 – Vortex
   (6.03.03.01.1207)

5. 067 - Black & White Target
   (6.03.03.01.1210)

6. 112Y - Nested Rings Yellow
   (6.03.03.06.0064)

7. 042 - CMY Liquid Effect

Fixed Gobo:

24.75mm

Φ1.1mm
Thickness

2-R5mm

Φ22mm
Image

Φ25.5mm
Glass
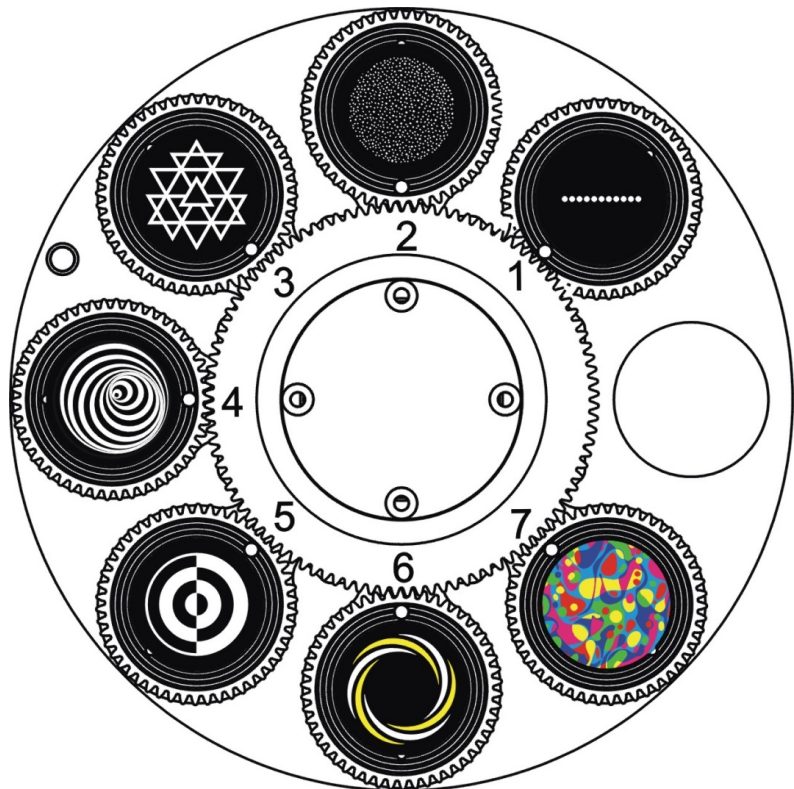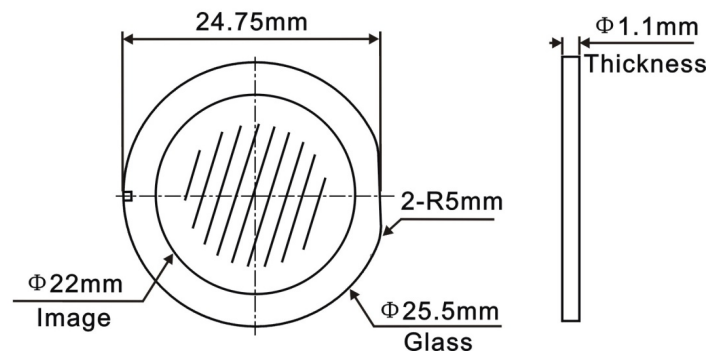
Fixed Gobo：

1. 410 – Conical Tunnel Effect
   (6.03.03.01.1393-A)

2. 049 - Smoke Rings
   (6.03.03.01.1752)

3. 047 - Fireworks
   (6.03.03.01.1753)

4. 066 - Abstract Square
   (6.03.03.01.1754)

5. 081 - Iron Filings
   (6.03.03.01.1755)

6. 041 - Lost In The Brain
   (6.03.03.01.1756)

7. 101 - Deep Forest
   (6.03.03.01.1757)

8. 105 - Tree Bark
   (6.03.03.01.1758)

9. 190 - Mirror Ball
   (6.03.03.01.1759)

10. 211 - Digital
    (6.03.03.01.1760)

11. 242 - Stained Glass
    (6.03.03.01.1761)
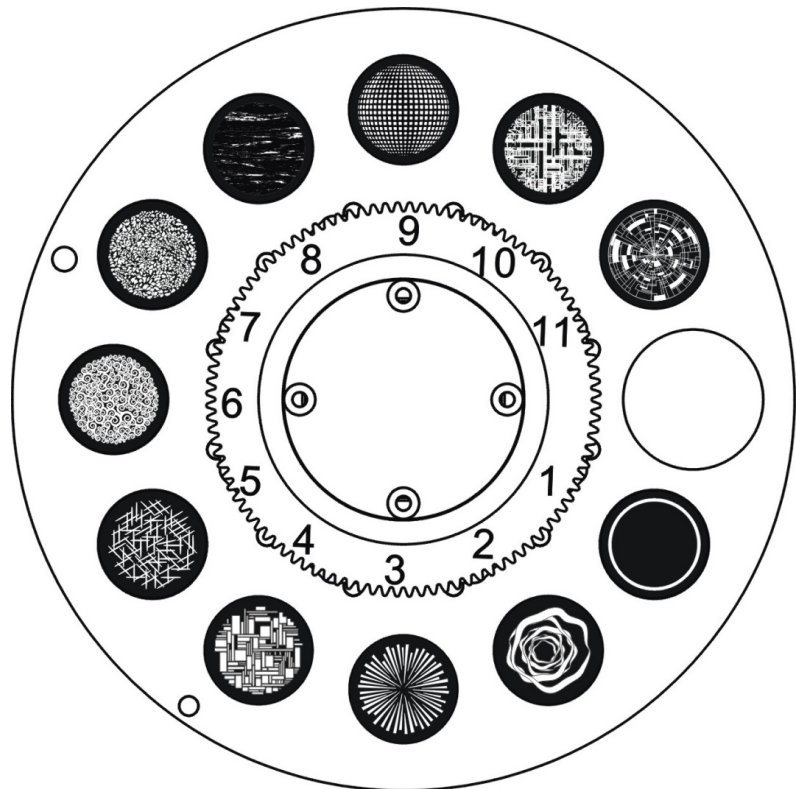
4.3. Color Filter Dimension
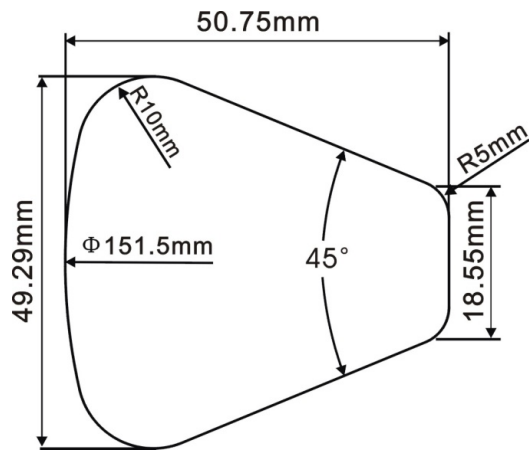
Color：

1. CTB 1/4
   (6.03.05.03.3162)

2. Magenta
   (6.03.05.03.3002)

3. Congo blue
   (6.03.05.03.3003)

4. Green
   (6.03.05.03.3004)

5. Orange
   (6.03.05.03.3005)

6. Blue
   (6.03.05.03.3006)

7. Red
   (6.03.05.03.3059-0)
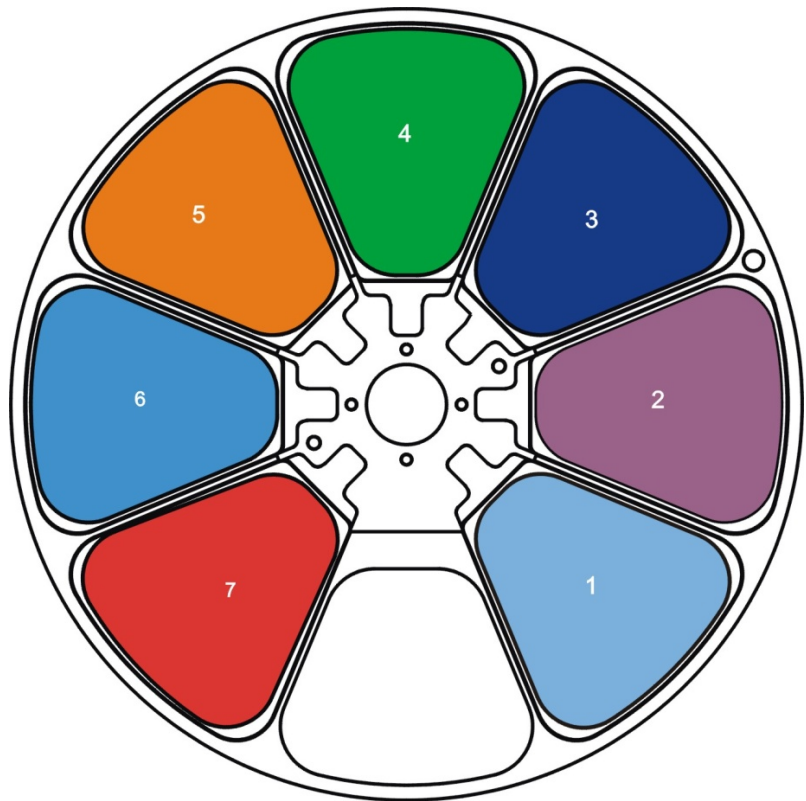
4.4. Animation Dimension

Φ114mm

4-Φ2.6mm

Φ2mm

Φ9mm
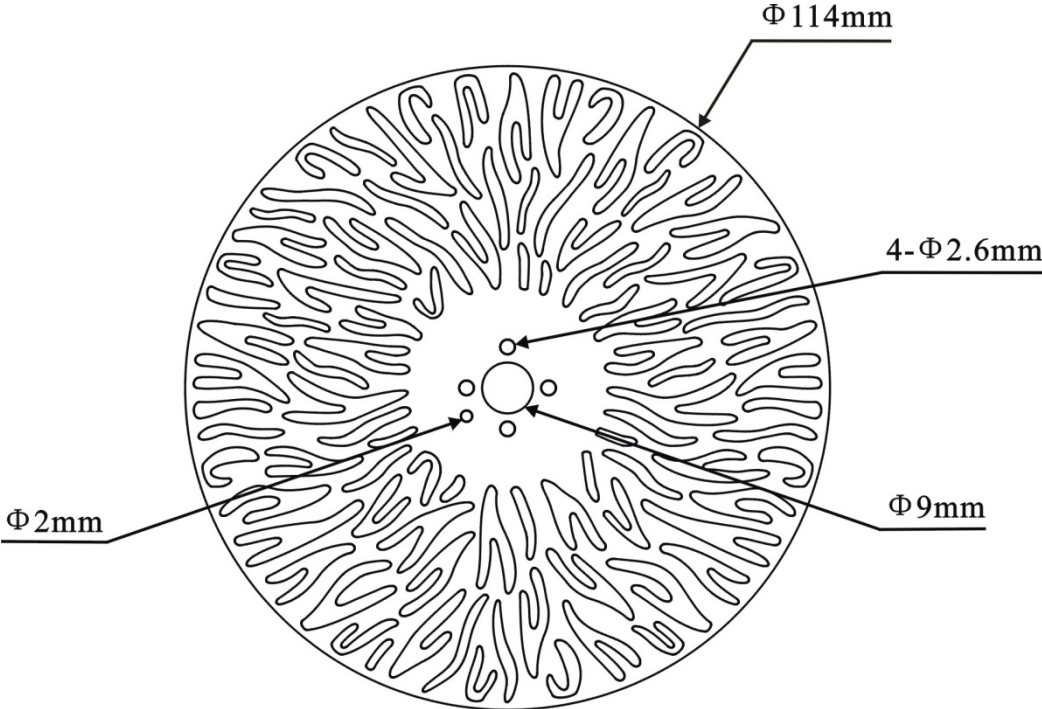
5. INSTALLATION INSTRUCTIONS

5.1. Rigging the device

	CAUTION!
⚠	PLEASE CONSIDER THE RESPECTIVE NATIONAL NORMS DURING INSTALLATION. THE 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.
- 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.

5.2. Rigging using the omega brackets

(1) Omega–holders
(2) Clamp
(3) Safety–rope
(4) Quick–lock fastener
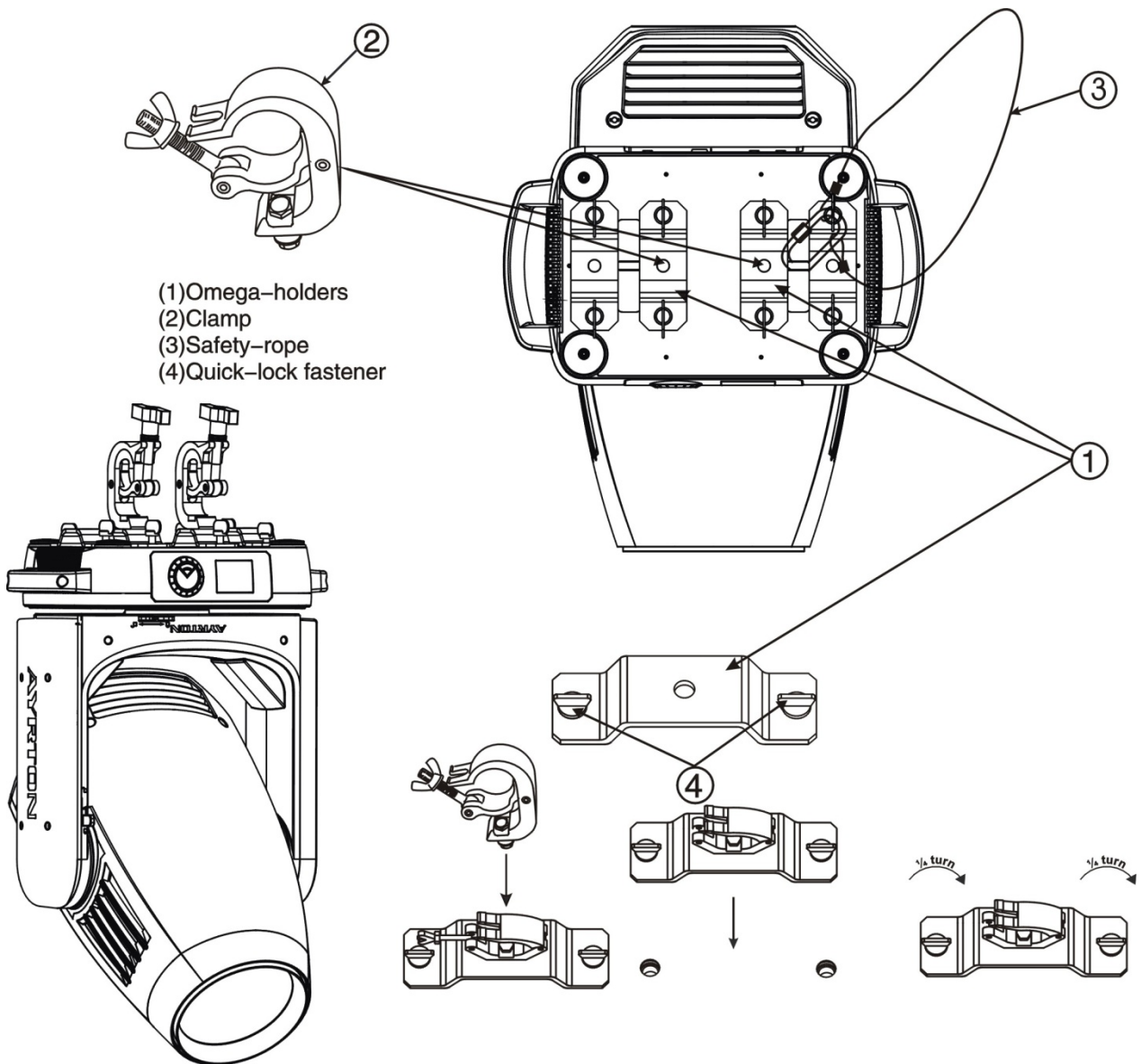
- Fix the clamp to the bracket by tightening the M12 nut and bolt to the bracket through the Φ13 hole in the middle of the bracket.
- Insert the quick-lock fasteners of the first Omega holder into the respective holes on the bottom of the device.Tighten the quick-lock fasteners fully clockwise.
- Install 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.

☞ **Important：**
This step is very important to ensure safe rigging of the fixture.

5.3. RIGGING DRAWINGS
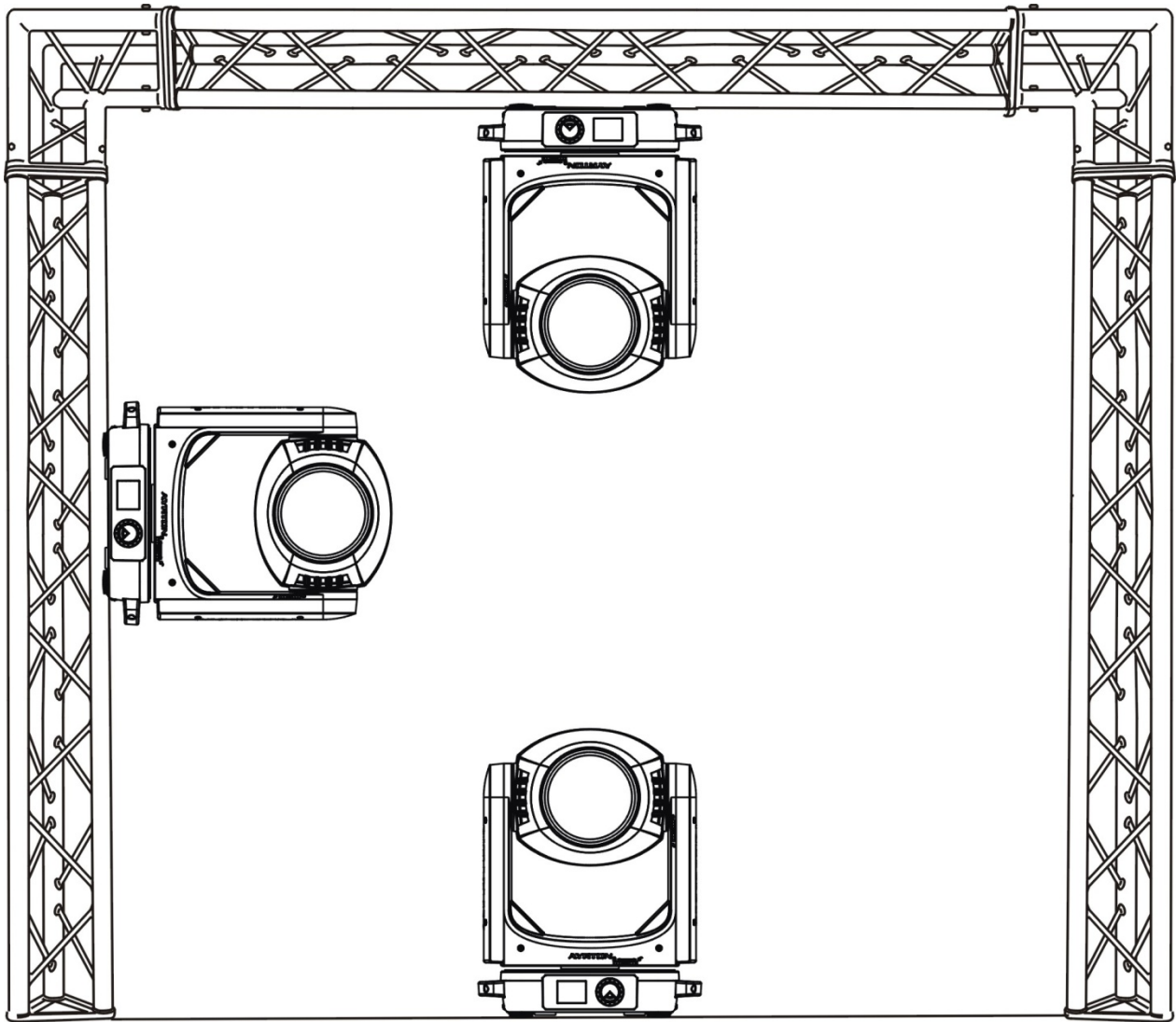
- Be sure this fixture is kept at least 0.1 m away from any flammable materials (decoration etc.).
- Always use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.

☞ **Important：**
Overhead rigging requires extensive experience，including (but not limited to) calculating working load limits，specifying installation/ rigging materials，and periodic safety inspection of all installation material as well as the device.If you lack these qualifications，do not attempt the rigging of this device yourself.Improper installation/ rigging can result in serious bodily injury.

6. DMX-512 CONTROL CONNECTION

Connect the provided male side of the XLR cable to the female XLR output of your controller and the female side of the XLR cable to the male XLR input of the device.You can connect multiple devices together in a serial fashion.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		DMX Output 5-Pin XLR Socket	DMX Input 5-Pin XLR Socket
	1: Ground 2: Signal (−) 3: Signal (+)	or		1: Ground 2: Signal (−) 3: Signal (+) 4: N.A. 5: N.A.

Address 83   Address 42   Address 1
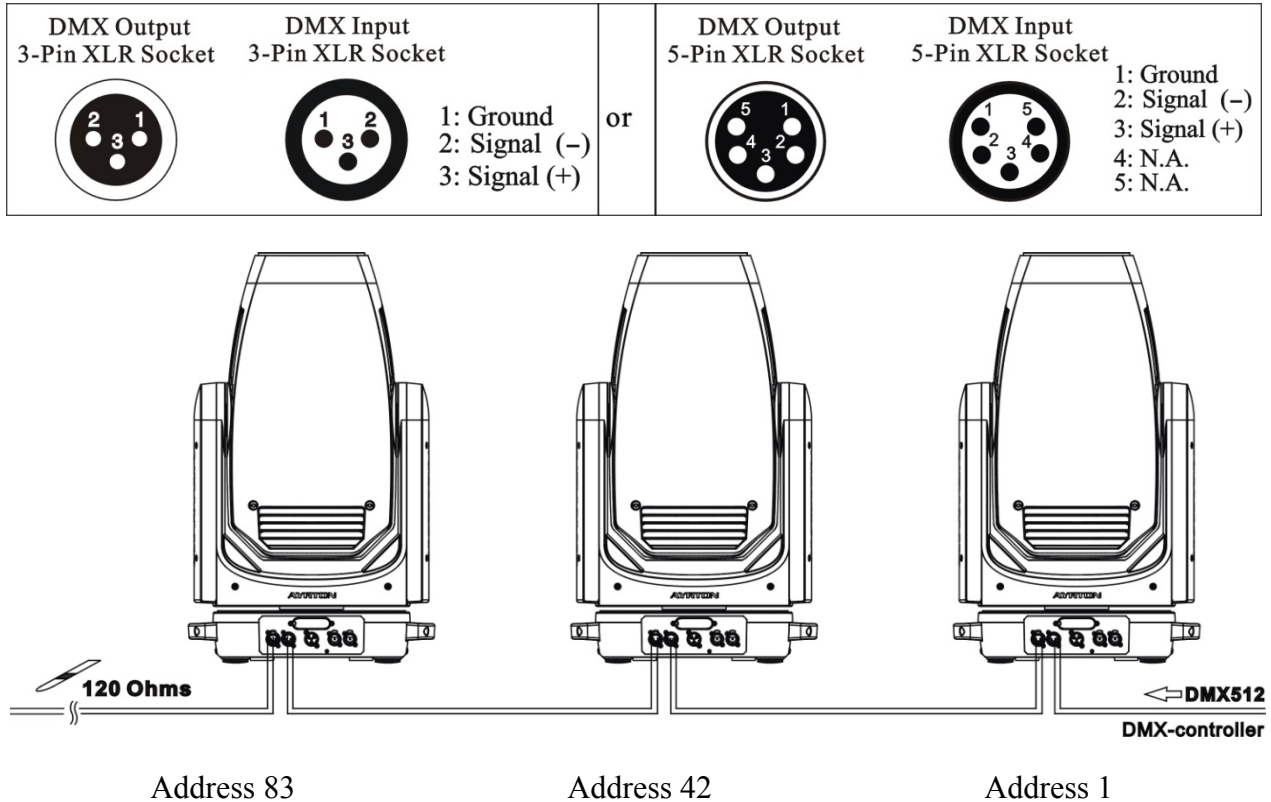
7. DMX-512 CONNECTION WITH DMX TERMINATOR

For installations where the DMX cable has to run over 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 caused by electrical noise.The DMX terminator is an XLR plug with a 120 Ω resistor connected between pins 2 and 3，which is then plugged into the output (female) XLR socket of the last fixture in the chain.Please see illustrations below.

120 Ω

3 Pin Or 5 Pin

PIN 3
PIN 2
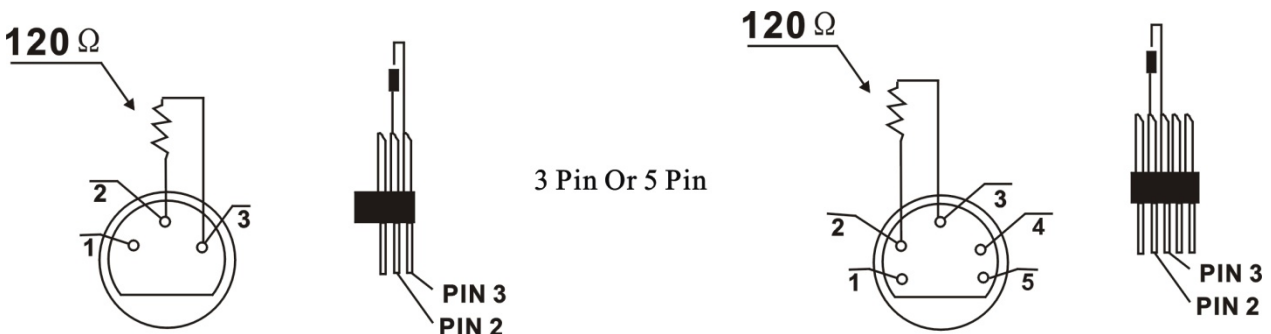
8. DEVICE DMX START ADDRESS SELECTION

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 address 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 set different addresses for each fixture individually.

If you set the same address on all devices，all the devices 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 device.

In the case of the LED moving head，in 41channel mode，you should set the starting address of the first unit to 1，the second unit to 42 (41 + 1)，the third unit to 83 (41+ 42)，and so on.

9. OPERTING INSTRUCTIONS OF THE INTERNAL DMX WIRELESS SYSTEM

9.1 Equipments：

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

9.2 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）.

9.3 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.

9.4 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

9.5 Remove the receivers from transmitter（T1）and to log in to another transmitter（T2）：
  Case 1：Remove a receiver：
  a) On the control board of the fixture，enter menu to activated the function of REST；
  b) The LED for wireless on the fixture should turn to Solid red; the receiver can log out from the transmitter（T1）；
  c) 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：
  a) Press and hold the configuration button on the T1 as least 5 seconds，can clear the connection with all the fixtures；
  b) 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）；
  c) 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.

10. DISPLAY
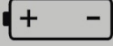
The Display offers Jog Wheel features：you can set the starting address，run the pre-programmed program or reset the device.

The main menu is accessed by Double click the Jog Wheel until the display starts flashing.Browse through the menu by turning Jog Wheel clockwise or counterclockwise.

Press the Jog Wheel for 2 seconds in order to exit menu, double click the Jog Wheel for confirm.After accessing the edit mode，the unit will automatically exit to the main menu after 15 seconds from the last button press.Clockwise is positive direction while counterclockwise is opposite direction.

When the unit is powered on，if no data signal is connected after 1 minute，then the display will switch off automatically.The Display does not need external power to operate in case there is battery，hold down the Jog Wheel for 6 seconds and the Display will turn on by using the unit's battery.

PS：No response when quick press the Jog Wheel.

CAUTION!
THE BATTERY MUST BE A LI-ION RECHARGEABLE BATTERY,
THE SPECIFICATION IS AS FOLLOWING:

+ −
Li-ion Rechargeable Battery
ICR 14500 3.7V

To install the battery for the first time，please make sure the unit is not connected to AC power.
Install the battery in the battery holder，then remove the battery and install it back .
This procedure must be done only for the first battery installation .

Default settings shaded

Address	Address :	DMX address:001-XXX	
Mode	User Mode	Stand Mode Basic Mode Extend Mode User Mode A User Mode B User Mode C	
	Edit User ModeA :	Max channel PAN :	
Options	Status	No DMX Mode	Close/Hold/Auto
		Pan Reverse	ON/OFF
		Tilt Reverse	ON/OFF
		Pan Degree	630/540
		Feedback	ON/OFF
		Init PAN	ON/OFF
		Init TILT	ON/OFF
		Reset Mode	Fast /All Rot Gobos
		Pan/Tilt Spd	Speed 1~ 4
		CMY Spd	Speed 1~2
		Zoom/Focus Spd	Speed 1~ 3
		Hibernation	OFF , 01M~99M
		DMX Output	ON/OFF
	Service PIN	Service PIN	Password=XXX
		Set Ip	xxx.xxx.xxx.xxx
		Set Mask Ip	xxx.xxx.xxx.xxx
		Cross Load SW	ON/OFF
		USB Update	ON/OFF
		Clr LED Timer	ON/OFF
	Fans Control	Fans Speed	Auto Stage Silence Super Silence
		Constant Fans	ON/OFF
	Disp.Setting	Shutoff Time	02~60m 05m
		Flip Display	ON/OFF
		Key Lock	ON/OFF
		DispFlash	ON/OFF
	Signal Select	DMX WDMX Art—Net sACN	
	Temp. C/F	Celsius Fahrenheit	

	Initial Pos.	PAN =XXX	
	Wireless DMX	Activate WDMX	
		Rest WDMX	
	Dim Curve	Square Law	
		Linear	
	Refresh Select	1.2K	
		2.4K	
		16K	
		25K	
	Gobo Correction	ON/OFF	
	Reset P/T Fade	ON/OFF	
	Frost (Progressive)	ON/OFF	
	Trigger	DMX Value Disp.	PAN……
		Set To Slave	Slave1,Slave2,Slave3
		Auto Program	Master / Alone
	ResetDefault	ON/OFF	
Info	Time Info.	Current Time	
		Ttl Life Hrs	
		Last Run Hrs	
		LED Hours	
		Timer PIN	
		Clr Last Run	
	Temp. Info	XXX℃/℉	
	Fan Info.	xxxxRPM	
	Software Ver	V1.0……	
	Network	IP,Mask,Mac	
Test	Home	All	
		Pan&Tilt	
		Color	
		Gobo	
		Other	
	Test Channel	PAN ……	
	Manual Ctrl.	PAN =XXX	
		:	
	Calibration	-Password-	
		PAN	
		:	
	Gobo Replace	Gobo Wheel 1	
		Gobo Wheel 2	
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
	Edit Prog.	Program 1	Program Test
		:	Step 01=SCxxx
		Program 10	Step 64=SCxxx
	Edit Scenes	Edit Scene 001	Pan,Tilt,……

		~ Edit Scene 250	--Fade Time-- --Scene Time-- Input By Outside
	Scenes Input	XX~XX	

10.1. Address
10.1.1. Set DMX Address
With this function，you can adjust the desired DMX-address via the Display.
1. Double click Jog Wheel to access main menu.
2. The display will show"ADDRESS".
3. Double click the Jog Wheel then display"Set DMX Address".
4. Turn the Jog Wheel clockwise then display"001~XXX".
5. Pressing the Jog Wheel 2 seconds to exit, and come back to last menu –"Set DMX Address"，then back to main menu by pressing the Jog Wheel 2 seconds again.

10.2. Mode
10.2.1. User Mode
With this function，you can create user defined channel orders.
1. Double click Jog Wheel to access main menu，turn the Jog Wheel clockwise to display"USERS MODE".
2. Double click the Jog Wheel to edit.
3. Turn the Jog Wheel clockwise to display"User mode"，Double click the Jog Wheel to edit.
4. When in"Extend Mode"，turn the Jog Wheel to select"Basic mode"，"Stand Mode"，"User Mode A"，"User Mode B"and"User Mode C".
5. Pressing the Jog Wheel 2 seconds to exit, and come back to last menu –"User Mode"，then back to main menu by pressing the Jog Wheel 2 seconds again.

10.2.2. Edit User Mode
With this function，you can adjust the rest user defined channel order.
1. Double click Jog Wheel to access"USERS MODE"menu，turn the Jog Wheel until display"Edit User".
2. Double click the Jog Wheel to access"Edit User"menu.
3. Set up"Max Channel=xxx"and select channel value.
4. Set up"Mode B"and"Mode C"by the same way.
5. Pressing the Jog Wheel 2 seconds to exit, and come back to last menu –"Edit User"，then back to main menu by pressing the Jog Wheel 2 seconds again.

10.3. Options
10.3.1. Status
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. Double click Jog Wheel to access main menu.

2. Turn the Jog Wheel clockwise then display "Options".
3. Double click the Jog Wheel to access"Options", turn the Jog Wheel to select "Status".
4. Double click the Jog Wheel to access "Status" menu, The display will show "No DMX Status".
5. Double click the Jog Wheel to access "No DMX Status", The display will show "Hold", Turn the Jog Wheel to select "Close", "Auto".
6. Pressing the Jog Wheel 2 seconds to exit, and come back to last menu – "Status", then back to main menu by pressing the Jog Wheel 2 seconds again.

Pan Reverse
With this function you can reverse the Pan-movement.
1. Double click Jog Wheel to access main menu.
2. Turn the Jog Wheel clockwise then display "Options".
3. Double click the Jog Wheel to access"Options", turn the Jog Wheel to select "Status".
4. Double click the Jog Wheel to access "Status" menu, The display will show "Pan Reverse".
5. Double click the Jog Wheel to access"Pan Reverse", The display will show "OFF", Turn the Jog Wheel to select "NO".
6. Pressing the Jog Wheel 2 seconds to exit, and come back to last menu – "Status", then back to main menu by pressing the Jog Wheel 2 seconds again.

Tilt Reverse
With this function you can reverse the Tilt-movement.
1. Double click Jog Wheel to access main menu.
2. Turn the Jog Wheel clockwise then display "Options".
3. Double click the Jog Wheel to access"Options", turn the Jog Wheel to select "Status".
4. Double click the Jog Wheel to access "Status" menu, The display will show "Tilt Reverse".
5. Double click the Jog Wheel to access"Tilt Reverse", The display will show "OFF", Turn the Jog Wheel to select "NO".
6. Pressing the Jog Wheel 2 seconds to exit, and come back to last menu – "Status", then back to main menu by pressing the Jog Wheel 2 seconds again.

Pan Degree
With this function, you can select pan degree for 630 or 540.
1. Double click Jog Wheel to access main menu.
2. Turn the Jog Wheel clockwise then display "Options".
3. Double click the Jog Wheel to access"Options", turn the Jog Wheel to select "Status".
4. Double click the Jog Wheel to access "Status" menu, The display will show "Pan Degree".
5. Double click the Jog Wheel to access "Pan Degree", The display will show "540", Turn the Jog Wheel to select "630".
6. Pressing the Jog Wheel 2 seconds to exit, and come back to last menu – "Status", then back to main menu by pressing the Jog Wheel 2 seconds again.

Feedback
With this function, you can feedback switch of pan movement or tilt movement.
1. Double click Jog Wheel to access main menu.

2. Turn the Jog Wheel clockwise then display "Options".
3. Double click the Jog Wheel to access"Options", turn the Jog Wheel to select "Status".
4. Double click the Jog Wheel to access"Status"menu，The display will show"Feedback".
5. Double click the Jog Wheel to access"Feedback"，The display will show "ON"，Turn the Jog Wheel to select"OFF".
6. Pressing the Jog Wheel 2 seconds to exit, and come back to last menu – "Status"，then back to main menu by pressing the Jog Wheel 2 seconds again.

Init PAN

With this function，you can feedback switch of pan movement or tilt movement.
1. Double click Jog Wheel to access main menu.
2. Turn the Jog Wheel clockwise then display "Options".
3. Double click the Jog Wheel to access"Options", turn the Jog Wheel to select "Status".
4. Double click the Jog Wheel to access"Status"menu，The display will show"Init PAN".
5. Double click the Jog Wheel to access"Init PAN"，The display will show "ON"，Turn the Jog Wheel to select"OFF".
6. Pressing the Jog Wheel 2 seconds to exit, and come back to last menu – "Status"，then back to main menu by pressing the Jog Wheel 2 seconds again.

Init TILT

With this function，you can feedback switch of pan movement or tilt movement.
1. Double click Jog Wheel to access main menu.
2. Turn the Jog Wheel clockwise then display "Options".
3. Double click the Jog Wheel to access"Options", turn the Jog Wheel to select "Status".
4. Double click the Jog Wheel to access"Status"menu，The display will show"Init TILT".
5. Double click the Jog Wheel to access"Init TILT"，The display will show "ON"，Turn the Jog Wheel to select"OFF".
6. Pressing the Jog Wheel 2 seconds to exit, and come back to last menu – "Status"，then back to main menu by pressing the Jog Wheel 2 seconds again.

Reset Mode

1. Double click Jog Wheel to access main menu.
2. Turn the Jog Wheel clockwise then display "Options".
3. Double click the Jog Wheel to access"Options", turn the Jog Wheel to select "Status".
4. Double click the Jog Wheel to access "Status" menu，The display will show "Reset Mode".
5. Double click the Jog Wheel to access "Reset Mode"，The display will show "Fast"，Turn the Jog Wheel to select "All Rot Gobos".
6. Pressing the Jog Wheel 2 seconds to exit, and come back to last menu – "Status"，then back to main menu by pressing the Jog Wheel 2 seconds again.

Pan/Tilt Spd

With this function，you can select scan mode from 1 to 4.
1. Double click Jog Wheel to access main menu.
2. Turn the Jog Wheel clockwise then display "Options".
3. Double click the Jog Wheel to access"Options", turn the Jog Wheel to select "Status".
4. Double click the Jog Wheel to access "Status" menu，The display will show "Pan/Tilt

Spd".

5. Double click the Jog Wheel to access"Pan/Tilt Spd", The display will show "Speed 1", Turn the Jog Wheel to select "Speed 1", "Speed 2", "Speed 3", "Speed 4".

6. Pressing the Jog Wheel 2 seconds to exit, and come back to last menu – "Status", then back to main menu by pressing the Jog Wheel 2 seconds again.

CMY Spd

With this function, you can select CMY speed from 1 to 2.

1. Double click Jog Wheel to access main menu.
2. Turn the Jog Wheel clockwise then display "Options".
3. Double click the Jog Wheel to access"Options", turn the Jog Wheel to select "Status".
4. Double click the Jog Wheel to access"Status"menu, The display will show"CMY Spd".
5. Double click the Jog Wheel to access"CMY Spd", The display will show "Speed 1", Turn the Jog Wheel to select "Speed 1", "Speed 2".
6. Pressing the Jog Wheel 2 seconds to exit, and come back to last menu – "Status", then back to main menu by pressing the Jog Wheel 2 seconds again.

Zoom/Focus Spd

With this function, you can select zoom/focus mode from 1 to 3.

1. Double click Jog Wheel to access main menu.
2. Turn the Jog Wheel clockwise then display "Options".
3. Double click the Jog Wheel to access"Options", turn the Jog Wheel to select "Status".
4. Double click the Jog Wheel to access "Status" menu, The display will show "Zoom/Focus Spd".
5. Double click the Jog Wheel to access "Zoom/Focus Spd", The display will show "Speed 1", Turn the Jog Wheel to select "Speed 1", "Speed 2", "Speed 3".
6. Pressing the Jog Wheel 2 seconds to exit, and come back to last menu – "Status", then back to main menu by pressing the Jog Wheel 2 seconds again.

Hibernation: Standby mode

The device 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. Double click Jog Wheel to access main menu.
2. Turn the Jog Wheel clockwise then display "Options".
3. Double click the Jog Wheel to access"Options", turn the Jog Wheel to select "Status".
4. Double click the Jog Wheel to access "Status" menu, The display will show "Hibernation".
5. Double click the Jog Wheel to access "Hibernation", The display will show "OFF", Turn the Jog Wheel to select "01M", "02M" ... "99M".
6. Pressing the Jog Wheel 2 seconds to exit, and come back to last menu – "Status", then back to main menu by pressing the Jog Wheel 2 seconds again.

Ethernet to DMX

With this function, you can select Ethernet to DMX.

1. Double click Jog Wheel to access main menu.
2. Turn the Jog Wheel clockwise then display "Options".
3. Double click the Jog Wheel to access"Options", turn the Jog Wheel to select "Status".

4. Double click the Jog Wheel to access "Status" menu, The display will show "Ethernet to DMX".

5. Double click the Jog Wheel to access "Ethernet to DMX", The display will show "OFF", Turn the Jog Wheel to select "ON".

6. Pressing the Jog Wheel 2 seconds to exit, and come back to last menu – "Status", then back to main menu by pressing the Jog Wheel 2 seconds again.

10.3.2. Service PIN
Password
The Password for this function is "050".

Set IP
1. Double click Jog Wheel to access main menu.
2. Turn the Jog Wheel clockwise then display "Options".
3. Double click the Jog Wheel to access "Options", turn the Jog Wheel to select "Service PIN".
4. Double click the Jog Wheel to access "Service PIN" menu, The display will show "Set IP".
5. Double click the Jog Wheel to access "Set IP", The display will show "XXX.XXX.XXX.XXX".
6. Pressing the Jog Wheel 2 seconds to exit, and come back to last menu – "Service PIN", then back to main menu by pressing the Jog Wheel 2 seconds again.

Set Mask IP
1. Double click Jog Wheel to access main menu.
2. Turn the Jog Wheel clockwise then display "Options".
3. Double click the Jog Wheel to access "Options", turn the Jog Wheel to select "Service PIN".
4. Double click the Jog Wheel to access "Service PIN" menu, The display will show "Set Mask IP".
5. Double click the Jog Wheel to access "Set Mask IP", The display will show "XXX.XXX.XXX.XXX".
6. Pressing the Jog Wheel 2 seconds to exit, and come back to last menu – "Service PIN", then back to main menu by pressing the Jog Wheel 2 seconds again.

Cross Load SW
1. Double click Jog Wheel to access main menu.
2. Turn the Jog Wheel clockwise then display "Options".
3. Double click the Jog Wheel to access "Options", turn the Jog Wheel to select "Service PIN".
4. Double click the Jog Wheel to access "Service PIN" menu, The display will show "Cross Load SW".
5. Double click the Jog Wheel to access "Cross Load SW", The display will show "OFF", Turn the Jog Wheel to select "ON".
6. Pressing the Jog Wheel 2 seconds to exit, and come back to last menu – "Service PIN", then back to main menu by pressing the Jog Wheel 2 seconds again.

USB Updtae
1. Double click Jog Wheel to access main menu.
2. Turn the Jog Wheel clockwise then display "Options".
3. Double click the Jog Wheel to access"Options", turn the Jog Wheel to select "Service PIN".
4. Double click the Jog Wheel to access"Service PIN"menu，The display will show"USB Update".
5. Double click the Jog Wheel to access"USB Update", Browse your USB stick and choose the EUR_XXX.ayr file.
6. Double click to confirm and wait for the complete update procedure
7. Pressing the Jog Wheel 2 seconds to exit, and come back to last menu –"Service PIN", then back to main menu by pressing the Jog Wheel 2 seconds again.

Clr LED Timer
1. Double click Jog Wheel to access main menu.
2. Turn the Jog Wheel clockwise then display "Options".
3. Double click the Jog Wheel to access"Options", turn the Jog Wheel to select "Service PIN".
4. Double click the Jog Wheel to access "Service PIN" menu，The display will show "Clr LED Timer".
5. Double click the Jog Wheel to access"Clr LED Timer", The display will show "OFF", Turn the Jog Wheel to select "ON".
6. Pressing the Jog Wheel 2 seconds to exit, and come back to last menu –"Service PIN", then back to main menu by pressing the Jog Wheel 2 seconds again.

10.3.3. Fans Control
With this function you can set the speed of the running fans.The selections have Auto、Stage and Studio.
1．Double click Jog Wheel to access main menu.
2．Turn the Jog Wheel clockwise then display "Options".
3．Double click the Jog Wheel to access "Options", turn the Jog Wheel to select "Fans Control".
4．Double click the Jog Wheel to access "Fans Control" menu，The display will show "Head Control".
5．Double click the Jog Wheel to access "Head Control", The display will show "Auto", Turn the Jog Wheel to select "Stage", "Studio", "Silence", "Theatre".
6．Pressing the Jog Wheel 2 seconds to exit, and come back to last menu –"Fans Control", then back to main menu by pressing the Jog Wheel 2 seconds again.

10.3.4. Disp. Setting
Shut off Time
With this function you can shut off the LCD display after 2 to 60 minutes.The default is 5 minutes.
1．Double click Jog Wheel to access main menu.
2．Turn the Jog Wheel clockwise then display "Options".
3．Double click the Jog Wheel to access"Options", turn the Jog Wheel to select "Display Setting".
4．Double click the Jog Wheel to access "Display Setting" menu，The display will show

"Shut off Time".
5．Double click the Jog Wheel to access"Shut off Time", The display will show"05m", Turn the Jog Wheel to select"02~60m".
6．Pressing the Jog Wheel 2 seconds to exit, and come back to last menu –"Display Setting", then back to main menu by pressing the Jog Wheel 2 seconds again.

Flip Display
With this function you can rotate the display by 180°.
1．Double click Jog Wheel to access main menu.
2．Turn the Jog Wheel clockwise then display"Options".
3．Double click the Jog Wheel to access"Options", turn the Jog Wheel to select"Display Setting".
4．Double click the Jog Wheel to access"Display Setting"menu, The display will show"Flip Display".
5．Double click the Jog Wheel to access"Flip Display", The display will show"OFF", Turn the Jog Wheel to select"ON".
6．Pressing the Jog Wheel 2 seconds to exit, and come back to last menu –"Display Setting", then back to main menu by pressing the Jog Wheel 2 seconds again.

Key Lock
With this function you can activate the automatic key lock function.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．Double click Jog Wheel to access main menu.
2．Turn the Jog Wheel clockwise then display"Options".
3．Double click the Jog Wheel to access"Options", turn the Jog Wheel to select"Display Setting".
4．Double click the Jog Wheel to access"Display Setting"menu, The display will show"Key Lock".
5．Double click the Jog Wheel to access "Key Lock", The display will show"OFF", Turn the Jog Wheel to select"ON".
6．Pressing the Jog Wheel 2 seconds to exit, and come back to last menu –"Display Setting", then back to main menu by pressing the Jog Wheel 2 seconds again.

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．Double click Jog Wheel to access main menu.
2．Turn the Jog Wheel clockwise then display"Options".
3．Double click the Jog Wheel to access"Options", turn the Jog Wheel to select"Display Setting".
4．Double click the Jog Wheel to access"Display Setting"menu, The display will show"DispFlash".
5．Double click the Jog Wheel to access"DispFlash", The display will show "OFF", Turn the Jog Wheel to select"ON".
6．Pressing the Jog Wheel 2 seconds to exit, and come back to last menu –"Display Setting", then back to main menu by pressing the Jog Wheel 2 seconds again.

10.3.5. Signal Select

1．Double click Jog Wheel to access main menu.
2．Turn the Jog Wheel clockwise then display"Options".
3．Double click the Jog Wheel to access"Options"，turn the Jog Wheel to select "Signal Select".
4．Double click the Jog Wheel to access"Signal Select"，The display will show "DMX"，Turn the Jog Wheel to select"DMX"，"WDMX"，"Art--Net"，"sACN".
5．Pressing the Jog Wheel 2 seconds to exit, and come back to last menu –"Signal Select"，then back to main menu by pressing the Jog Wheel 2 seconds again.

10.3.6. Temperature C/F

With this function you can display the temperature in Celsius or Fahrenheit.
1．Double click Jog Wheel to access main menu.
2．Turn the Jog Wheel clockwise then display"Options".
3．Double click the Jog Wheel to access"Options"，turn the Jog Wheel to select "Temperature C/ F".
4．Double click the Jog Wheel to access"Temperature C/ F"，The display will show "Fahrenheit"，Turn the Jog Wheel to select"Celsius".
5．Pressing the Jog Wheel 2 seconds to exit, and come back to last menu – "Temperature C/ F"，then back to main menu by pressing the Jog Wheel 2 seconds again.

10.3.7. Initial Pos.

With this function you can display initial effect position.
1．Double click Jog Wheel to access main menu.
2．Turn the Jog Wheel clockwise then display"Options".
3．Double click the Jog Wheel to access"Options"，turn the Jog Wheel to select "Initial Pos.".
4．Double click the Jog Wheel to access"Initial Pos."，The display will show "PAN=XXX".
5．Pressing the Jog Wheel 2 seconds to exit, and come back to last menu –"Initial Pos."，then back to main menu by pressing the Jog Wheel 2 seconds again.

10.3.8. 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. Double click Jog Wheel to access main menu.
2. Turn the Jog Wheel clockwise then display"Options".
3. Double click the Jog Wheel to access"Options"，turn the Jog Wheel to select "Wireless DMX".
4. Double click the Jog Wheel to access"Wireless DMX"，The display will show "Activate WDMX"，Turn the Jog Wheel to select"Act&Data Out"，"Rest WDMX".
5. Pressing the Jog Wheel 2 seconds to exit, and come back to last menu –"Wireless DMX"，then back to main menu by pressing the Jog Wheel 2 seconds again.

10.3.9. Dim Curve

1. Double click Jog Wheel to access main menu.

2. Turn the Jog Wheel clockwise then display "Options".
3. Double click the Jog Wheel to access "Options", turn the Jog Wheel to select "Dim Curve".
4. Double click the Jog Wheel to access "Dim Curve", The display will show "Square Law", Turn the Jog Wheel to select "Linear".
5. Pressing the Jog Wheel 2 seconds to exit, and come back to last menu – "Dim Curve", then back to main menu by pressing the Jog Wheel 2 seconds again.

10.3.10. Refresh Select
With this function you can select the refresh.
1. Double click Jog Wheel to access main menu.
2. Turn the Jog Wheel clockwise then display "Options".
3. Double click the Jog Wheel to access "Options", turn the Jog Wheel to select "Refresh Select".
4. Double click the Jog Wheel to access "Refresh Select", The display will show "1.2K", Turn the Jog Wheel to select "2.4K", "16K", "25K".
5. Pressing the Jog Wheel 2 seconds to exit, and come back to last menu – "Refresh Select", then back to main menu by pressing the Jog Wheel 2 seconds again.

10.3.11. Gobo Correction
With this function you can select the CTB.
1. Double click Jog Wheel to access main menu.
2. Turn the Jog Wheel clockwise then display "Options".
3. Double click the Jog Wheel to access "Options", turn the Jog Wheel to select "Gobo Correction".
4. Double click the Jog Wheel to access "Gobo Correction", The display will show "ON", Turn the Jog Wheel to select "OFF".
5. Pressing the Jog Wheel 2 seconds to exit, and come back to last menu – "Gobo Correction", then back to main menu by pressing the Jog Wheel 2 seconds again.

10.3.12. Reset P/T Fade
1. Double click Jog Wheel to access main menu.
2. Turn the Jog Wheel clockwise then display "Options".
3. Double click the Jog Wheel to access "Options", turn the Jog Wheel to select "Reset P/T Fade".
4. Double click the Jog Wheel to access "Reset P/T Fade", The display will show "OFF", Turn the Jog Wheel to select "ON".
5. Pressing the Jog Wheel 2 seconds to exit, and come back to last menu – "Gobo Correction", then back to main menu by pressing the Jog Wheel 2 seconds again.

10.3.13. Frost (Progressive)
1. Double click Jog Wheel to access main menu.
2. Turn the Jog Wheel clockwise then display "Options".
3. Double click the Jog Wheel to access "Options", turn the Jog Wheel to select "Frost (Progressive)".
4. Double click the Jog Wheel to access "Frost (Progressive)", The display will show "OFF", Turn the Jog Wheel to select "ON".

5. Pressing the Jog Wheel 2 seconds to exit, and come back to last menu －"Gobo Correction"， then back to main menu by pressing the Jog Wheel 2 seconds again.

10.3.14. 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．Double click Jog Wheel to access main menu.
2．Turn the Jog Wheel clockwise then display "Options" .
3．Double click the Jog Wheel to access "Options"， turn the Jog Wheel to select "Trigger" .
4．Double click the Jog Wheel to access "Trigger" menu，The display will show "DMX Value Disp" .
5．Double click the Jog Wheel to access "DMX Value Disp"， The display will show "PAN=……..." .
6．Pressing the Jog Wheel 2 seconds to exit, and come back to last menu －"Trigger"， then back to main menu by pressing the Jog Wheel 2 seconds again.

Set To Slave
With this function, you can define the device as slave.
1．Double click Jog Wheel to access main menu.
2．Turn the Jog Wheel clockwise then display "Options" .
3．Double click the Jog Wheel to access "Options"， turn the Jog Wheel to select "Trigger" .
4．Double click the Jog Wheel to access "Trigger" menu，The display will show "Set To Slave" .
5．Double click the Jog Wheel to access"Set To Slave"，The display will show "Slave1"， "Slave2"， "Slave3" .
6．Pressing the Jog Wheel 2 seconds to exit, and come back to last menu －"Trigger"， then back to main menu by pressing the Jog Wheel 2 seconds again.

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．Double click Jog Wheel to access main menu.
2．Turn the Jog Wheel clockwise then display "Options" .
3．Double click the Jog Wheel to access "Options"， turn the Jog Wheel to select "Trigger" .
4．Double click the Jog Wheel to access "Trigger" menu，The display will show "Auto Program" .
5．Double click the Jog Wheel to access "Auto Program"， The display will show "Master"， "Alone" .
6．Pressing the Jog Wheel 2 seconds to exit, and come back to last menu －"Trigger"， then back to main menu by pressing the Jog Wheel 2 seconds again.

10.3.15. Reset Default

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

1．Double click Jog Wheel to access main menu.
2．Turn the Jog Wheel clockwise then display"Options".
3．Double click the Jog Wheel to access"Options"，turn the Jog Wheel to select "Reset Default".
4．Double click the Jog Wheel to access"Reset Default"menu，The display will show "OFF"，Turn the Jog Wheel to select"ON".
5．Pressing the Jog Wheel 2 seconds to exit, and come back to last menu –"Reset Default"，then back to main menu by pressing the Jog Wheel 2 seconds again.

10.4. Info
10.4.1. 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 reset after turning the device off.

1. Double click Jog Wheel to access main menu.
2. Turn the Jog Wheel clockwise then display"Info".
3. Double click the Jog Wheel to access"Info"，turn the Jog Wheel to select"Time Info.".
4. Double click the Jog Wheel to access"Time Info."，The display will show "Current Time".
5. Double click the Jog Wheel to access"Current Time"，The display will show "XXXX (Hours)".
6. Pressing the Jog Wheel 2 seconds to exit, and come back to last menu –"Time Info"，then back to main menu by pressing the Jog Wheel 2 seconds again.

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. Double click Jog Wheel to access main menu.
2. Turn the Jog Wheel clockwise then display"Info".
3. Double click the Jog Wheel to access"Info"，turn the Jog Wheel to select"Time Info.".
4. Double click the Jog Wheel to access"Time Info."，The display will show "Ttl Life Hrs".
5. Double click the Jog Wheel to access"Ttl Life Hrs"，The display will show "XXXX (Hours)".
6. Pressing the Jog Wheel 2 seconds to exit, and come back to last menu –"Time Info"，then back to main menu by pressing the Jog Wheel 2 seconds again.

Last Run Hrs

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

1. Double click Jog Wheel to access main menu.
2. Turn the Jog Wheel clockwise then display"Info".
3. Double click the Jog Wheel to access"Info"，turn the Jog Wheel to select"Time Info.".

4. Double click the Jog Wheel to access"Time Info.", The display will show "Last Run Hrs".
5. Double click the Jog Wheel to access"Last Run Hrs", The display will show "XXXX (Hours)".
6. Pressing the Jog Wheel 2 seconds to exit, and come back to last menu –"Time Info", then back to main menu by pressing the Jog Wheel 2 seconds again.

LED Hours
With this function，you can display the time of LED.The display shows "XXXX"，"XXXX" stands for the time of LED.
1. Double click Jog Wheel to access main menu.
2. Turn the Jog Wheel clockwise then display "Info".
3. Double click the Jog Wheel to access"Info"，turn the Jog Wheel to select "Time Info.".
4. Double click the Jog Wheel to access "Time Info.", The display will show "LED Hours".
5. Double click the Jog Wheel to access "LED Hours", The display will show "XXXX (Hours)".
6. Pressing the Jog Wheel 2 seconds to exit, and come back to last menu –"Time Info", then back to main menu by pressing the Jog Wheel 2 seconds again.

Timer PIN
With this function，you can display the timer password.
1．Double click Jog Wheel to access main menu.
2．Turn the Jog Wheel clockwise then display "Info".
3．Double click the Jog Wheel to access"Info"，turn the Jog Wheel to select "Time Info.".
4．Double click the Jog Wheel to access "Time Info.", The display will show "Timer PIN".
5．Double click the Jog Wheel to access "Timer PIN", The display will show "Password=038".
6．Pressing the Jog Wheel 2 seconds to exit, and come back to last menu –"Time Info", then back to main menu by pressing the Jog Wheel 2 seconds again.

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. Double click Jog Wheel to access main menu.
2. Turn the Jog Wheel clockwise then display "Info".
3. Double click the Jog Wheel to access"Info"，turn the Jog Wheel to select "Time Info.".
4. Double click the Jog Wheel to access"Time Info.", The display will show "Clear Last Run".
5. Double click the Jog Wheel to access"Clear Last Run", The display will show"OFF"，turn the Jog Wheel to select"ON".
6. Pressing the Jog Wheel 2 seconds to exit, and come back to last menu –"Time Info", then back to main menu by pressing the Jog Wheel 2 seconds again.

10.4.2. 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. Double click Jog Wheel to access main menu.
2. Turn the Jog Wheel clockwise then display "Info".
3. Double click the Jog Wheel to access"Info", turn the Jog Wheel to select "Temp Info".
4. Double click the Jog Wheel to access "Temp Info", The display will show "Head Temp.".
5. Double click the Jog Wheel to access "Head Temp.", The display will show "XXX °C/ °F".
6. Pressing the Jog Wheel 2 seconds to exit, and come back to last menu – "Temp Info", then back to main menu by pressing the Jog Wheel 2 seconds again.

10.4.3. Fan Info.

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

1. Double click Jog Wheel to access main menu.
2. Turn the Jog Wheel clockwise then display "Info".
3. Double click the Jog Wheel to access"Info", turn the Jog Wheel to select "Fan Info.".
4. Double click the Jog Wheel to access"Fan Info.", The display will show "xxxxRPM".
5. Pressing the Jog Wheel 2 seconds to exit, and come back to last menu – "Fan Info.", then back to main menu by pressing the Jog Wheel 2 seconds again.

10.4.4. Software Ver

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

1. Double click Jog Wheel to access main menu.
2. Turn the Jog Wheel clockwise then display "Info".
3. Double click the Jog Wheel to access "Info", turn the Jog Wheel to select "Software Ver".
4. Double click the Jog Wheel to access "Software Ver", The display will show "V1.0......".
5. Pressing the Jog Wheel 2 seconds to exit, and come back to last menu – "Software Ver", then back to main menu by pressing the Jog Wheel 2 seconds again.

10.4.5. Network

1. Double click Jog Wheel to access main menu.
2. Turn the Jog Wheel clockwise then display "Info".
3. Double click the Jog Wheel to access"Info", turn the Jog Wheel to select "Network".
4. Double click the Jog Wheel to access "Network", The display will show "IP" , Turn the Jog Wheel to select "Mask", "Mac".
5. Pressing the Jog Wheel 2 seconds to exit, and come back to last menu – "Network", then back to main menu by pressing the Jog Wheel 2 seconds again.

10.5. Test
10.5.1. 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．Double click Jog Wheel to access main menu.
2．Turn the Jog Wheel clockwise then display "Test".

3．Double click the Jog Wheel to access "Test"，turn the Jog Wheel to select "Home".

4．Double click the Jog Wheel to access "Home"，The display will show "All"，Turn the Jog Wheel to select "All"，"Pan&Tilt"，"Color"，"Gobo"，"Other".

5．Pressing the Jog Wheel 2 seconds to exit, and come back to last menu – "Test"，then back to main menu by pressing the Jog Wheel 2 seconds again.

10.5.2. Test Channel
With this function you can test each channel's function to ensure correct operation.

1．Double click Jog Wheel to access main menu.

2．Turn the Jog Wheel clockwise then display "Test".

3．Double click the Jog Wheel to access "Test"，turn the Jog Wheel to select "Test Channel".

4．Double click the Jog Wheel to access "Test Channel"，The display will show "Pan"，Turn the Jog Wheel to select other channel.

5．Pressing the Jog Wheel 2 seconds to exit, and come back to last menu – "Test"，then back to main menu by pressing the Jog Wheel 2 seconds again.

10.5.3. Manual Control
When set to Manual Mode，fixture will be back to factory settings.If want to adjust brightness，can adjust by shutter and dimming channel，channel value is 0-255.Other functions can be set according to user's real need.

1．Double click Jog Wheel to access main menu.

2．Turn the Jog Wheel clockwise then display "Test".

3．Double click the Jog Wheel to access "Test"，turn the Jog Wheel to select "Manual control".

4．Double click the Jog Wheel to access "Manual control"，The display will show "PAN=XXX".

5．Pressing the Jog Wheel 2 seconds to exit, and come back to last menu – "Test"，then back to main menu by pressing the Jog Wheel 2 seconds again.

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

1．Double click Jog Wheel to access main menu.

2．Turn the Jog Wheel clockwise then display "Test".

3．Double click the Jog Wheel to access "Test"，turn the Jog Wheel to select "Calibration".

4．Double click the Jog Wheel to access "Calibration"，The display will show "Password=050".

5．Pressing the Jog Wheel 2 seconds to exit, and come back to last menu – "Test"，then back to main menu by pressing the Jog Wheel 2 seconds again.

10.5.5. Gobo Replace
1．Double click Jog Wheel to access main menu.

2．Turn the Jog Wheel clockwise then display "Test".

3．Double click the Jog Wheel to access "Test"，turn the Jog Wheel to select "Gobo Replace".

4．Double click the Jog Wheel to access "Gobo Replace"，The display will show "Gobo

Wheel 1", "Gobo Wheel 2".

5．Pressing the Jog Wheel 2 seconds to exit, and come back to last menu – "Test", then back to main menu by pressing the Jog Wheel 2 seconds again.

10.6. Preset

1．Double click Jog Wheel to access main menu.
2．Turn the Jog Wheel clockwise then display "Preset".
3．Double click the Jog Wheel to access "Preset", turn the Jog Wheel to select "Select prog.", "Edit prog.", "Edit Scenes", "Scenes Input".
4．Pressing the Jog Wheel 2 seconds to exit, and come back to last menu – "Preset".

Run the auto program：A master fixture can output to three different program signals to the slave fixture to operate.It means the host will send cyclically in the following orders (The host will keep operating the program of Part 1) Then the slave fixture will make the selectively receiving according to its own set.

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
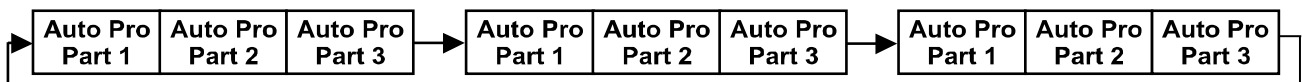
1．If the slave fixture chooses Run For Slave 1 from the menu of 1-3,then it will receive the part 1's automatic program from link，in the same way，when the slave fixture chooses Run For Slave 2，then it will receive the part 2's automatic program from link.
2．Enter the menu of 1-3 Function Mode---Set To Slave，Here to set machine operate which part of the program during the host-slave connection
3．Enter the menu of 1-4，1-5 Function Mode---Set To Master
4．Enter the menu of 8-1 Edit Program---Auto Program Part1.The host outputs three groups driven program---Part1，Part2，Part3(Part1 program runs the same effect as the host)
5．Enter the menu of 8-2 Edit Program---Edit Program.Edit the program's connection，connect the scene in order
6．The editor of the scene，there are as many as 250 scenario editors，and every scene can have a program connection of 10.
Note:
Part 2，Part 3 repeat in accordance with the Part1's repeat.For example：When Part 1 uses Program 2，Part 2 uses Program 4，Part 3 uses Program 6，Assume：Program 2 includes scene of 10，11，12，13；Program 4 includes scene of 8，9，10；Program 6 includes scene of 12，13，14，15；Then it will run as below.
Example：

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
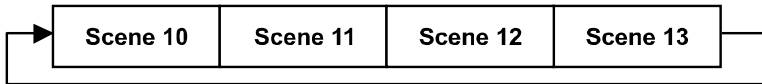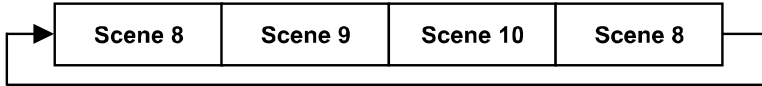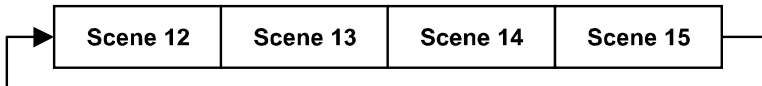
11. DMX PROTOCOL

DMX channel´s functions and their values (62DMX channels):				
Mode/Channel			**Value**	**Function**
St	**Ba**	**Ex**		
1	1	1		**PAN Movement 8bit :**
			0-255	Pan Movement
2		2		**Pan Fine 16bit**
			0-255	Fine control of Pan movement
3	2	3		**TILT Movement 8bit :**
			0-255	Tilt Movement
4		4		**Tilt Fine 16bit**
			0-255	Fine control of Tilt movement
5	3	5		**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
6	4	6		**Shutter, strobe:**
			0-10	Shutter closed
			11-20	No function (shutter open)
			21-117	Strobe effect slow to fast
			118-126	No function (shutter open)
			127-180	Pulse-effect in sequences
			181-191	No function (shutter open)
			192-245	Random strobe effect slow to fast
			246-255	No function (shutter open)
7	5	7		**Dimmer intensity:**
			0-255	Intensity 0 to 100%
		8		**Fine Dimmer intensity:**
			0-255	Dimmer intensity fine
8	6	9		**Not Used**
9	7	10		**Not Used**
10	8	11		**Not Used**
11	9	12		**Zoom :**
			0-255	Zoom adjustment from small to big
		13		**Zoom Fine:**
			0-255	Zoom adjustment Fine
12	10	14		**Focus :**
			0-255	Continuous adjustment from near to far
		15		**Focus Fine:**
			0-255	Continuous adjustment Fine
13	11	16		**Auto Focus:**
			0-50	Auto Focus Off
			51-100	5m
			101-150	7.5m
			151-200	10m
			201-255	15m
14	12	17		**AutoFocus Fine:**
			0-255	Continuous adjustment Fine
15	13	18		**Color Wheel:**
			0-3	Open / white
			4-7	Color 1: CTB 1/4
			8-11	Color 2: Magenta
			12-15	Color 3: Congo blue
			16-19	Color 4: Green
			20-23	Color 5: Orange
			24-27	Color 6: Blue
			28-31	Color 7: Red

			32-127	Color indexing
			128-189	Forwards rainbow effect from fast to slow
			190-193	No rotation
			194-255	Backwards rainbow effect from slow to fast
		19		**Color Wheel Fine:**
			0-255	Color Wheel colour change to any position Fine
16	14	20		**Minus Green:**
			0-63	Open
			64-127	Color 1: Minus Green 1/2
			128-255	Color 2: Minus Green 1/4
17	15	21		**Cyan Color :**
			0-255	Cyan (0-white, 255-100% Cyan)
		22		**Cyan Color Fine :**
			0-255	Cyan Fine
18	16	23		**Magenta Color :**
			0-255	Magenta (0-white, 255-100% magenta)
		24		**Magenta Color Fine :**
			0-255	Magenta Fine
19	17	25		**Yellow Color :**
			0-255	Yellow (0-white, 255-100% Yellow)
		26		**Yellow Color Fine :**
			0-255	Yellow Fine
20	18	27		**CTO Color :**
			0-255	CTO (0-white, 255-100% CTO)
		28		**CTO Color Fine :**
			0-255	CTO Fine
21	19	29		**Rotating gobos, cont. rotation 1:**
			0-9	Open
			10-19	Rot. gobo 1: Dot Line 11
			20-29	Rot. gobo 2: Star Dust
			30-39	Rot. gobo 3: Nested Triangle
			40-49	Rot. gobo 4: Vortex
			50-59	Rot. gobo 5: Black & White Target
			60-69	Rot. gobo 6: Nested Rings Yellow
			70-77	Rot. Gobo 7: CMY Liquid Effect
			78-93	Gobo 1 shake slow to fast
			94-109	Gobo 2 shake slow to fast
			110-125	Gobo 3 shake slow to fast
			126-141	Gobo 4 shake slow to fast
			142-157	Gobo 5 shake slow to fast
			158-173	Gobo 6 shake slow to fast
			174-189	Gobo 7 shake slow to fast
			190-221	Gobo wheel rotation forwards from fast to slow

			222-223	No rotation
			224-255	Gobo wheel rotation f backwards from slow to fast
22	20	30		**Rotating gobo index,rotating gobo rotation 1:**
			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
		31		**Rotating gobo indexing Fine 1:**
			0-255	Fine indexing
23	21	32		**Fixed Gobo2 :**
			0-13	open
			14-18	Gobo 1: Conical Tunnel Effect
			19-23	Gobo 2: Smoke Rings
			24-28	Gobo 3: Fireworks
			29-33	Gobo 4: Abstract Square
			34-38	Gobo 5: Iron Filings
			39-43	Gobo 6: Lost In The Brain
			44-48	Gobo 7: Deep Forest
			49-53	Gobo 8: Tree Bark
			54-58	Gobo 9: Mirror Ball
			59-63	Gobo 10: Digital
			64-68	Gobo 11: Stained Glass
			69-79	Gobo 1 shake slow to fast
			80-90	Gobo 2 shake slow to fast
			91-101	Gobo 3 shake slow to fast
			102-112	Gobo 4 shake slow to fast
			113-123	Gobo 5 shake slow to fast
			124-134	Gobo 6 shake slow to fast
			135-145	Gobo 7 shake slow to fast
			146-156	Gobo 8 shake slow to fast
			157-167	Gobo 9 shake slow to fast
			168-178	Gobo 10 shake slow to fast
			179-189	Gobo 11 shake slow to fast
			190-221	Clock-wise scroll from fast to slow
			222-223	Reserved
			224-255	Counter clock-wise scroll from slow to fast
24	22	33		**Animation wheel:**
			0-7	open
			8-127	Forwards rotation from fast to slow
			128-135	No rotation
			136-255	Backwards rotation from slow to fast
25	23	34		**Iris:**
			0-191	Max. diameter to Min.diameter
			192-223	Pulse closing fast to slow

			224-255	Pulse opening slow to fast
		35		**Iris Fine:**
			0-255	Iris Fine
26	24	36		**Prism 1:**
			0-127	Open
			128-255	5-Facet Circular Prism
27	25	37		**Rotating prism index, rotating prism rotation 1**
			0-127	Prism indexing
			128-189	Forwards prism rotation from fast to slow
			190-193	No rotation
			194-255	Backwards prism rotation from slow to fast
		38		**Rotating prism indexing Fine 1:**
			0-255	Fine indexing
28	26	39		**Prism 2:**
			0-127	Open
			128-255	4-Facet Linear Prism
29	27	40		**Rotating prism index, rotating prism rotation 2：**
			0-127	Prism indexing
			128-189	Forwards prism rotation from fast to slow
			190-193	No rotation
			194-255	Backwards prism rotation from slow to fast
		41		**Rotating prism indexing Fine 2:**
			0-255	Fine indexing
30	28	42		**Frost 1 (light):**
			0-255	0-100%
31	29	43		**Frost 2 (heavy):**
			0-255	0-100%
32	30	44		**Blade 1A:**
			0-255	Open to Close
		45		**Blade 1A Fine:**
			0-255	Open to Close Fine
33	31	46		**Blade 1B:**
			0-255	Open to Close
		47		**Blade 1B Fine:**
			0-255	Open to Close Fine
34	32	48		**Blade 2A:**
			0-255	Open to Close
		49		**Blade 2A Fine:**
			0-255	Open to Close Fine
35	33	50		**Blade 2B:**
			0-255	Open to Close
		51		**Blade 2B Fine:**
			0-255	Open to Close Fine

36	34	52		**Blade 3A:**
			0-255	Open to Close
		53		**Blade 3A Fine:**
			0-255	Open to Close Fine
37	35	54		**Blade 3B:**
			0-255	Open to Close
		55		**Blade 3B Fine:**
			0-255	Open to Close Fine
38	36	56		**Blade 4A :**
			0-255	Open to Close
		57		**Blade 4A Fine:**
			0-255	Open to Close Fine
39	37	58		**Blade 4B:**
			0-255	Open to Close
		59		**Blade 4B Fine:**
			0-255	Open to Close Fine
40	38	60		**All Blade Rotation:**
			0-255	All Blade Rotation
		61		**All Blade Rotation Fine:**
			0-255	All Blade Rotation Fine
41	39	62		**Control, reset, internal programs:**
			0-4	Not used
			5-9	Display Off
			10-14	Display On
			15-19	Display Invert Off
			20-24	Display Invert On
			25-26	Auto fan control mode
			27-28	Stage fan control mode
			29-30	Silent fan control mode
			31-32	Super Silent fan control mode
			33-34	Constant fans Off
			35-36	Constant fans On
			37-44	Not used
			45-49	Square Law
			50-54	Linear
			55-59	1.2K
			60-64	2.4K
			61-63	16K
			64-69	25K
			70-74	Gobo correction Off
			75-79	Gobo correction On
			80-84	All motor reset
			85-87	Pan & Tilt motor reset
			88-90	Color motor reset
			91-93	Gobo motor reset

			94	Not used
			95	Reset P/T Fade Off
			96	Reset P/T Fade On
			97-99	Other motor reset
			100-102	Frost Progressive Off
			103-105	Frost Progressive On
			106-108	CMY speed 1
			109-111	CMY speed 2
			112-255	unused

12. ERROR MESSAGES

When you turn on the device, it will first perform a reset.The display may show "Err channel is XX" should there be problems with one or more functions. "XX" stands for channel 1，2，3，4，5，6 etc whose sensor has encountered a problem.For example，when the display shows "Err channel is Pan movement", it means there is an error on channel 1.If there are errors on channel 1，channel 3，channel 6 at the same time，you may see the error message，"Err channel is Pan movement"，"Err channel is Tilt movement""Err channel is Shutter"，flash twice，and then the device will generate a second reset.If the error messages persist after performing a reset more than twice，the channels which have errors may not work properly however，all other functions can work as usual.Please contact your 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 (Optical Sensor or Magnetic Sensor fails) or the stepper 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 ((Optical Sensor or Magnetic Sensor fails)) or the stepper motor is defective (or its driving IC on the main PCB).The TILT- movement is not located in the default position after the reset.

Zoom wheel Er
(Zoom wheel error) This message will appear after the reset of the fixture if the head's magnetic-indexing circuit malfunctions (Optical Sensor or Magnetic Sensor fails) or the stepper motor is defective (or its driving IC on the main PCB).The Zoom - movement is not located in the default position after the reset.

Focus wheel Er
(Focus wheel error) This message will appear after the reset of the fixture if the head's magnetic-indexing circuit malfunctions (Optical Sensor or Magnetic Sensor fails) or the stepper motor is defective (or its driving IC on the main PCB).The Focus - 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 head's magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the stepper motor is defective (or its driving IC on the main PCB).The Color - movement is not located in the default position after the reset.

Cyan Color wheel Er
(Cyan Color wheel- 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 stepper motor is defective (or its driving IC on the main PCB).The CMY - movement is not located in the default position after the reset.

Magenta Color wheel Er

(Magenta Color wheel- 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 stepper motor is defective (or its driving IC on the main PCB).The CMY - movement is not located in the default position after the reset.

Yellow Color wheel Er

(Yellow Color wheel- 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 stepper motor is defective (or its driving IC on the main PCB).The CMY - movement is not located in the default position after the reset.

CTO wheel Er

(CTO wheel- 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 stepper motor is defective (or its driving IC on the main PCB).The CTO - movement is not located in the default position after the reset.

Rot_Gobo1 wheel Er

(Rot_Gobo1 wheel - 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 stepper motor is defective (or its driving IC on the main PCB).The Rot_Gobo1 - movement is not located in the default position after the reset.

Rot_Gobo2 wheel Er

(Rot_Gobo2 wheel - 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 stepper motor is defective (or its driving IC on the main PCB).The Rot_Gobo2 - movement is not located in the default position after the reset.

Animation wheel Er

(Animation wheel - 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 stepper motor is defective (or its driving IC on the main PCB).The Animation - movement is not located in the default position after the reset.

Iris wheel Er

(Iris wheel - 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 stepper motor is defective (or its driving IC on the main PCB).The Iris - movement is not located in the default position after the reset.

Prism_5 wheel Er

(Prism_5 wheel- 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 stepper motor is defective (or its driving IC on the main PCB).The Prism_5 - movement is not located in the default position after the reset.

Linear Prism wheel Er

(Linear Prism wheel- 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 stepper motor is defective (or its driving IC on the main PCB).The Linear Prism - movement is not located in the

default position after the reset.

Frost 1 wheel Er
(Frost 1 wheel - 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 stepper motor is defective (or its driving IC on the main PCB).The Frost 1 - movement is not located in the default position after the reset.

Frost 2 wheel Er
(Frost 2 wheel - 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 stepper motor is defective (or its driving IC on the main PCB).The Frost 2 - movement is not located in the default position after the reset.

Blade 1 wheel Er
(Blade 1 wheel - 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 stepper motor is defective (or its driving IC on the main PCB).The Blade 1 - movement is not located in the default position after the reset.

Blade 1_Rot wheel Er
(Blade 1_Rot wheel - 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 stepper motor is defective (or its driving IC on the main PCB).The Blade 1_Rot - movement is not located in the default position after the reset.

Blade 2 wheel Er
(Blade 2 wheel - 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 stepper motor is defective (or its driving IC on the main PCB).The Blade 2 - movement is not located in the default position after the reset.

Blade 2_Rot wheel Er
(Blade 2_Rot wheel - 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 stepper motor is defective (or its driving IC on the main PCB).The Blade 2_Rot - movement is not located in the default position after the reset.

Blade 3 wheel Er
(Blade 3 wheel - 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 stepper motor is defective (or its driving IC on the main PCB).The Blade 3 - movement is not located in the default position after the reset.

Blade 3_Rot wheel Er
(Blade 3_Rot wheel - 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 stepper motor is defective (or its driving IC on the main PCB).The Blade 3_Rot - movement is not located in the default position after the reset.

Blade 4 wheel Er

(Blade 4 wheel - 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 stepper motor is defective (or its driving IC on the main PCB).The Blade 4 - movement is not located in the default position after the reset.

Blade 4_Rot wheel Er
(Blade 4_Rot wheel - 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 stepper motor is defective (or its driving IC on the main PCB).The Blade 4_Rot - movement is not located in the default position after the reset.

All_Blade _Rot wheel Er
(All_Blade _Rot wheel - 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 stepper motor is defective (or its driving IC on the main PCB).The All_Blade _Rot - movement is not located in the default position after the reset.

Animation_Rot wheel Er
(Animation_Rot wheel - 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 stepper motor is defective (or its driving IC on the main PCB).The Animation_Rot - movement is not located in the default position after the reset.

13. CLEANING AND MAINTENANCE

The following points have to be considered during 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 to the housing，lenses，rigging and installation points (ceiling，suspension，trussing).
3) Motorized parts must not show any signs of wear and must move smoothly without issue.
4) The power supply cables must not show any damage，material fatigue or sediment.
Further instructions depending on the installation location and usage have to be adhered to by a qualified installer and any safety concerns have to be removed.

> # CAUTION!
> Disconnect from mains before starting maintenance operation.

In order to ensure the device remains in good condition and does not fail prematurely，we suggest regular maintenance.
1) Clean the inside and outside lens each week to avoid loss of output due to accumulation of dust/ dirt on the lens.
2) Clean the fans each week to ensure maximum airflow and efficient thermal cooling.This will ensure the light source is operated in the best possible condition.
3) A detailed electrical check by an approved electrician every quarter to make sure that the circuit contacts are in good condition.This will prevent poor circuit contacts and the resultant overheating.

We recommend frequent cleaning of the device.Please use a moist，lint- free cloth.Never use alcohol or solvents.

Please refer to the instructions under"Installation instructions".

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

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