AYRTON

User Manual

DOMINO LT

C E

KEEP THIS MANUAL FOR FUTURE NEEDS

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

	BLUE LIGHT HAZARD RISK GROUP 2

	CAUTION! NEVER TOUCH THE DEVICE DURING OPERATION! COVERS MAY BE HOT

	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. CAN ICES-3 (A)/NMB-3(A)

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 power CON and XLR connectors are fitted properly when the device is not in use，to avoid water ingress.
- This device falls under protection-class I. Therefore，it is essential that the device be earthed.
- If either lenses or display are damaged (damage may include cracks or gashes in the material) they must be replaced.
- Electrical connections，such as replacing the power plug，must be performed by a qualified person.
- Make sure that the available voltage is not higher than that which is stated at the end of this manual.
- Make sure the power cord is never crushed or damaged by sharp edges. If this should be the case，replacement of the cable must be done by an authorized dealer.
- If the external flexible power cord of this device is damaged，it shall be exclusively replaced by the manufacturer or their service agent or a similar qualified person in order to avoid injury.
- When the device is not in use or before performing maintenance，always disconnect the device from the mains. Only handle the power cord from the plug. Never pull the plug out of a socket by tugging the power cord.
- When powered on for the first time，some 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 and outdoor use.
- 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 -20℃ to 45℃. Do not use the device outside of this temperature range.

- The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.

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
- AC120-240V~，50/60Hz
- Power Consumption：1470W

LIGHT SOURCE
- LED：White LED1050W，8200±400K Color Temperature
- 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+CTB+CTP color mixing，uniform，linear and speed can be adjustable
- 1 Color wheel：6 dichroic filters + open，indexable，rainbow effect

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

FEATURES
- 3 Control channel modes：46/44/70 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
- 2 Animation wheel
- Focus：Motorized focus
- Blade System
- 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
- Locked automatically after standby for 15 seconds to prevent error；hold the button for 10 seconds to activate
- Pan and Tilt homing bypass：long press the center button to lock pan / tilt homing
- 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
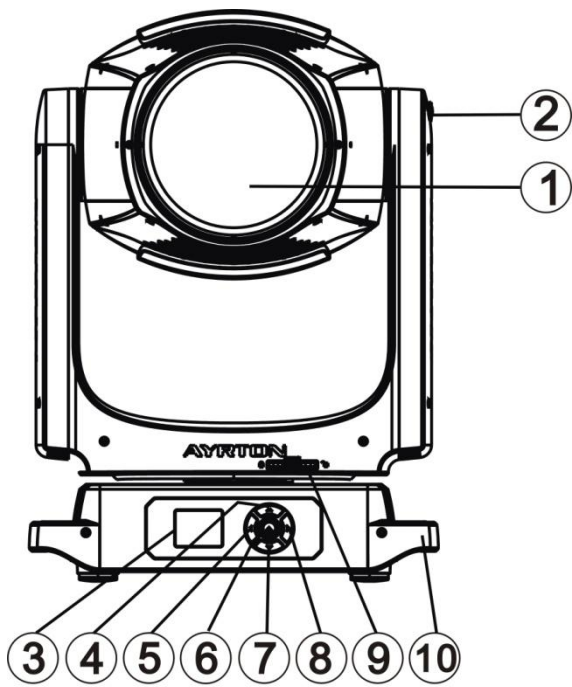
Advanced RDM function

WEIGHT

Net weight：60 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	22
	Pan	Pan Fine	Tilt	Tilt Fine	Speed Pan /Tilt movement	Strobe	Dimmer intensity	Zoom	Focus	Auto Focus	AutoFocus Fine	Color	C	M	Y	CTO	CTB	CTP	Color Presets	Reserved	Reserved	Reserved
100%		16bit Pan Fine		16bit Tilt Fine	No funtion					15m												
75%					Blackout by all wheel changing	RANDOM STROBE				10m									See Appendix	Reserved	Reserved	Reserved
50%					Blackout by movement / Min	Pulse-effec in sequence				7.5m												
25%					Moving speed					5m												
0%					Max					Auto Focus Off												

%	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37/39 41/43	38/40 42/44	45	46
	Rota. Gobo 1	Gobo Rotation 1	Rota. Gobo 2	Gobo Rotation 2	Animation wheel 1	Animation wheel 2	Rotating Animation	Iris	Prism 1	Prism Rotation1	Prism 2	Prism Rotation 2	Frost 1	Frost 2	Blade1A/ 2A/3A/4A	Blade 1B/2B /3B/4B Rotation	All Blade Rotation	Auto programs
100%							Pulse opening slow to fast								Close			Unused / CMY speed Slow / CMY speed Fast / Frost Progressive On / Frost Progressive Off / Other motor reset
75%		Stop		Stop			Backwards rotation from slow to fast / Pulse closing fast to slow	Linear Prism			5 Prism		Moving speed	Moving speed				Reset P/T Fade On / Reset P/T Fade Off / Unused / Gobo motor reset / Colors motor reset / All motor reset
50%	Gobo Shake		Gobo Shake				No rotation / Forwards rotation from fast to slow											Gobo correction On / Gobo correction Off / 25K / 16K / 2.4K / 1.2K / Linear
25%		GOBO INDEXING		GOBO INDEXING	Animation Wheel 1	Animation Wheel 2	No rotation	Open	Open	Prism indexing	Open	Prism indexing			Open	All Blade Rotation	All Blade Rotation	Square Law / Unused / Constant Fans On / Constant Fans Off / Super Silence fan control mode / Silence fan control mode
0%																		Stage fan control mode / Auto fan control mode / Display Invert On / Display Invert Off / Display On / Display Off / Unused

3. FIXTURE OVERVIEW

1) Lens

2) Tilt Lock

3) Display

4) Up-button

5) Left-button

6) Center-button

7) Down-button

8) Right-button

9) Pan Lock

10) Handle
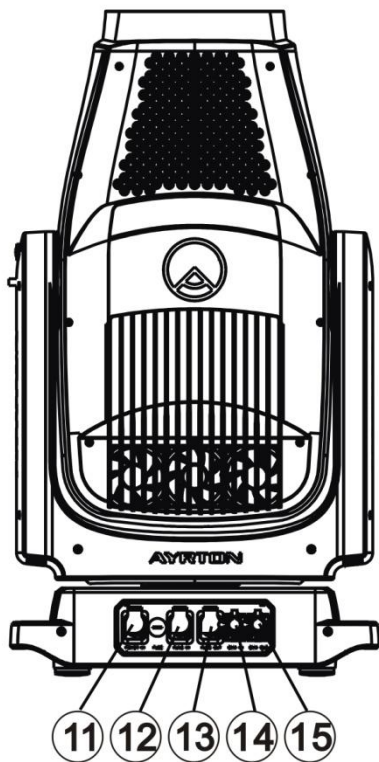
11) Power In

12) RJ45 In

13) RJ45 Out

14) DMX In

15) DMX Out

4. DIMENSIONAL DRAWINGS

4.1. Fixture Dimension
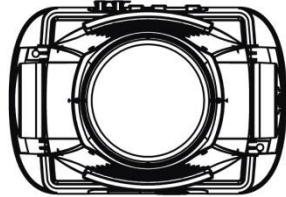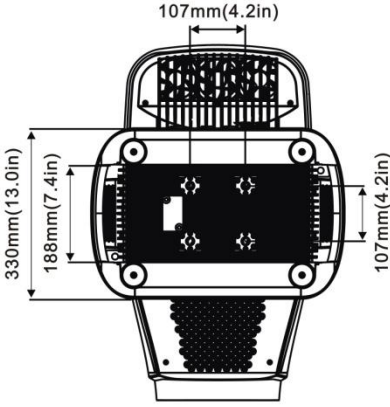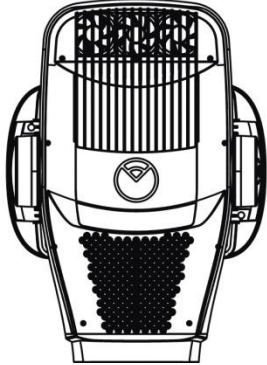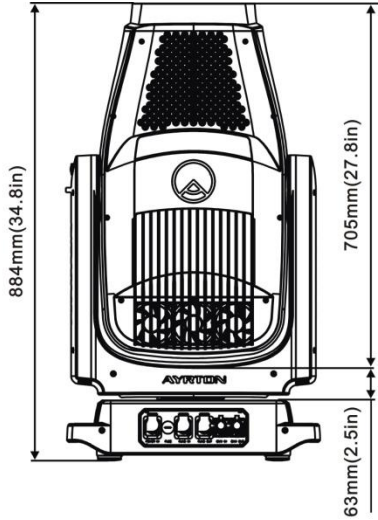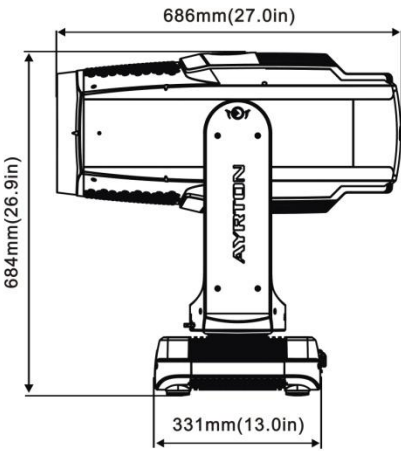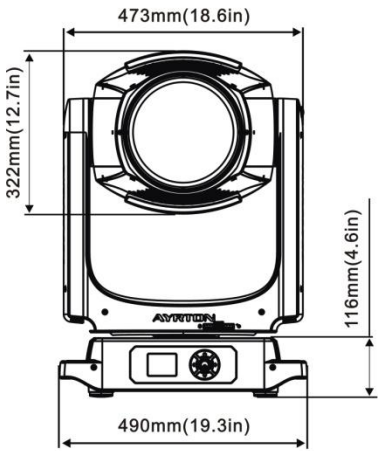
4.2. Color Filter Dimension
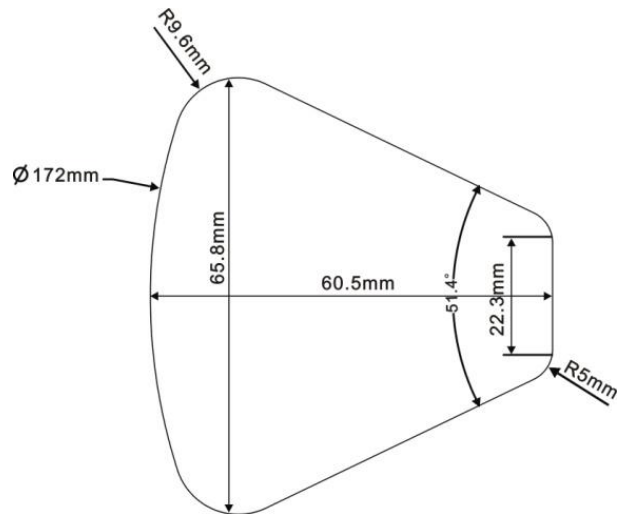
1. CTB1/4
   (6.03.05.03.2864)

2. Congo Blue
   (6.03.05.03.2855)

3. Green
   (6.03.05.03.2856)

4. Orange
   (6.03.05.03.2857)

5. Blue
   (6.03.05.03.2858)

6. Red
   (6.03.05.03.2859)
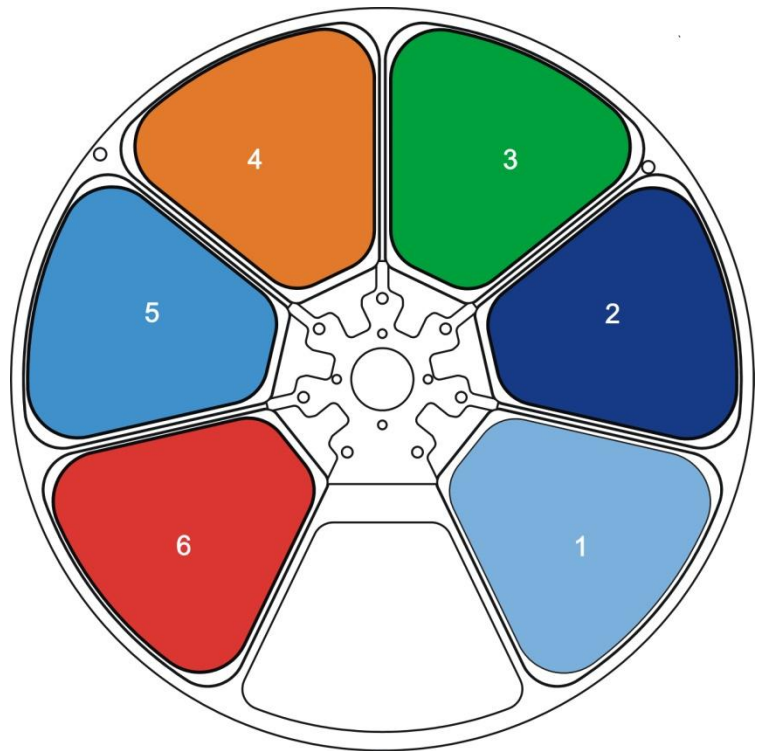
4.3. Gobo Filter Dimension

Metal Gobo:
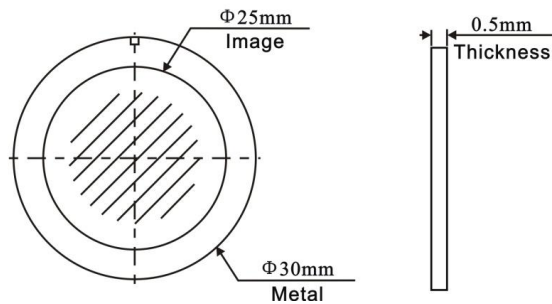
Rotating Gobo 1：
1. 314 – Dot Line 4
   (6.03.03.05.1968)

2. 322 – Dot Ring 8
   (6.03.03.05.1969)

3. 326 – Dot Triangle 3
   (6.03.03.05.2026)

4. 332 – Square Beam 4
   (6.03.03.05.1967)

5. 310 – Eccentric Dot
   (6.03.03.05.1970)

6. 342 – Five Spokes
   (6.03.03.05.2019)

7. 347 Beam Shaper
   (6.03.03.05.2020)

Black & White Gobo:

Φ25mm Image

Φ30mm Glass

1.1mm Thickness

Color Gobo:

Φ25mm Image

Φ30mm Glass

2.2mm Thickness
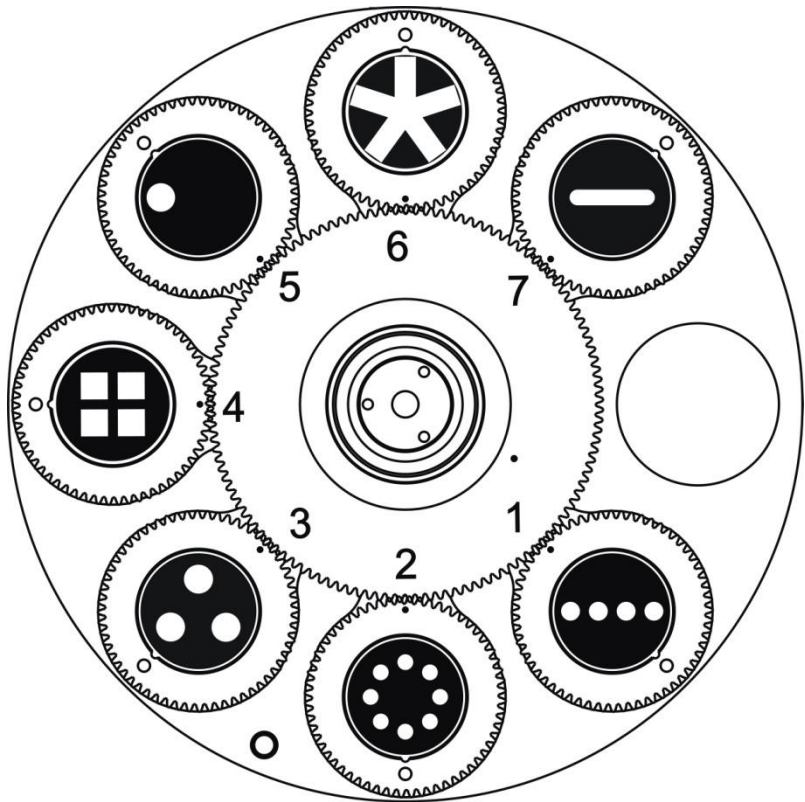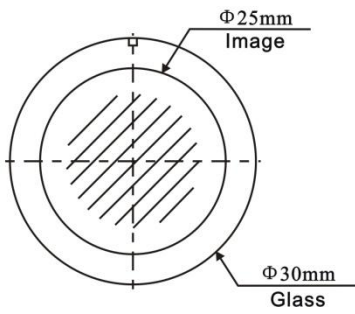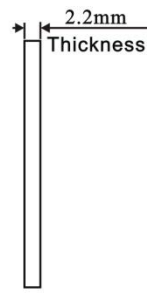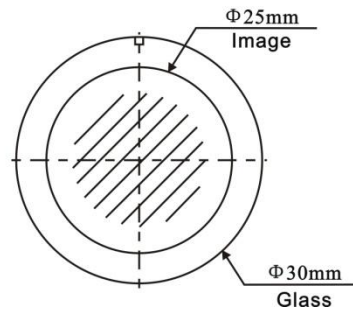
Rotating Gobo 2：

1. 074 – Star Dust
   (6.03.03.01.1172-A)

2. 077 - Water
   (6.03.03.01.1575-0)

3. 275 – Prison Bars
   (6.03.03.01.1576-0)

4. 049 – Smoke Rings
   (6.03.03.01.1177-A)

5. 101 – Deep Forest
   (6.03.03.01.1182-0)

6. 105 – Tree Bark
   (6.03.03.01.1183-A)

7. 112Y – Nested Ring Yellow
   (6.03.03.06.0124)
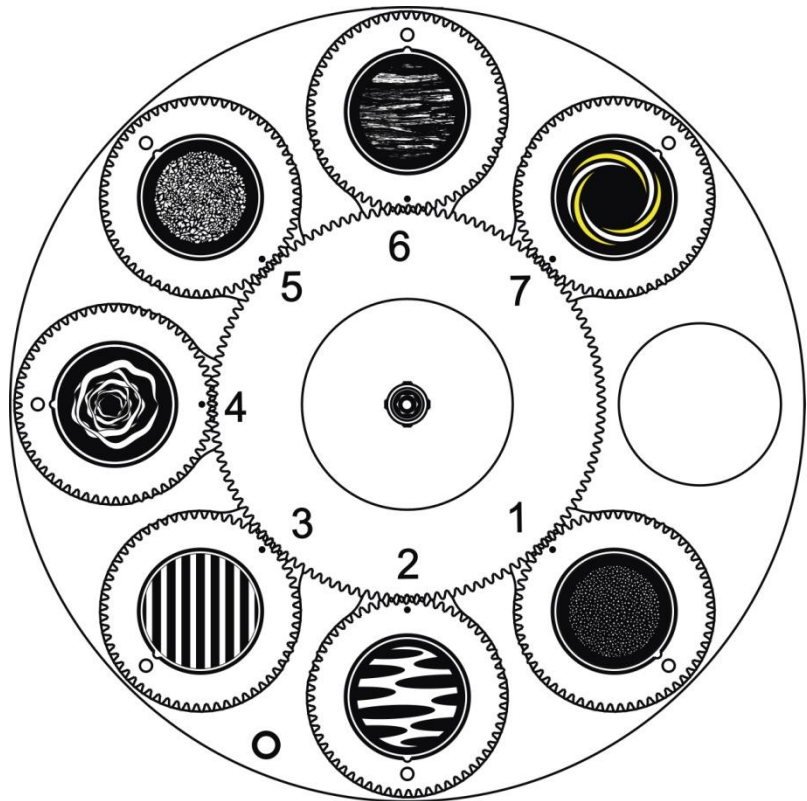
4.4. Animation Dimension

Black & White Animation:

Φ92mm

Color Animation:

Φ96mm
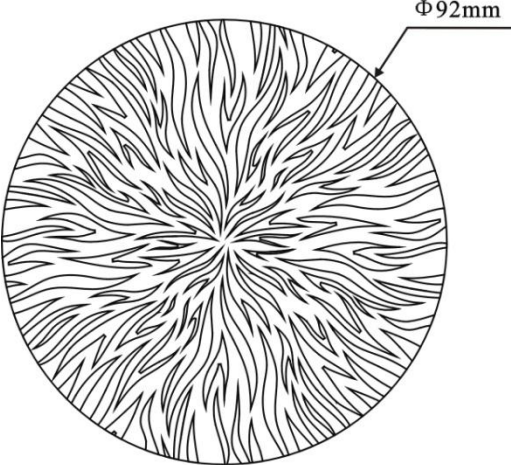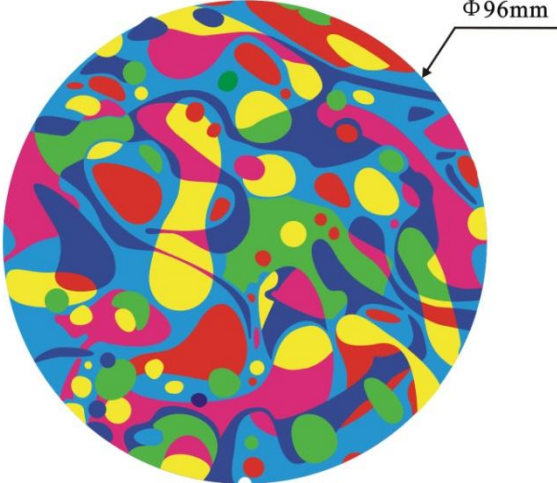
5. INSTALLATION INSTRUCTIONS

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 -20 ℃ to 45 ℃. Do not use the lighting under or above the temperature range.
- 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
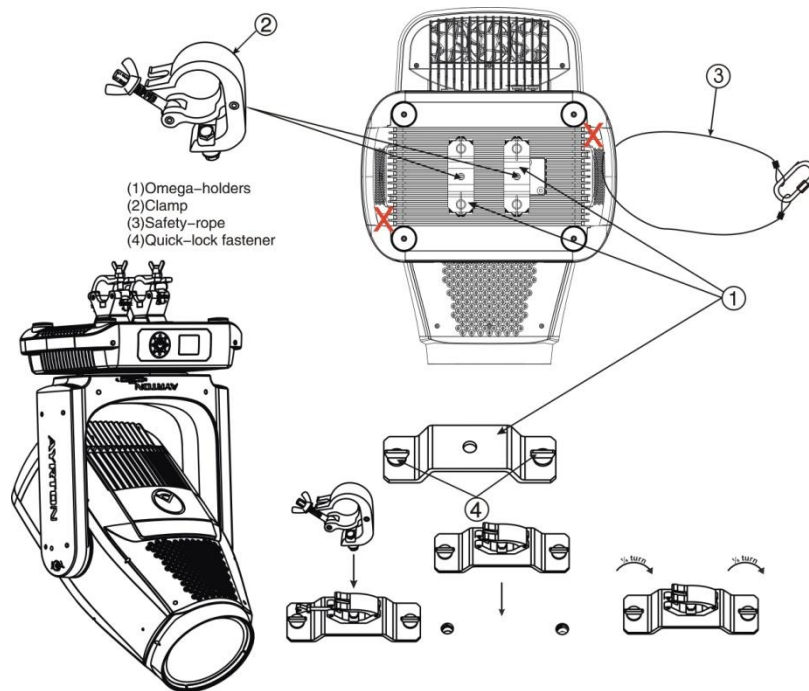
- Fix the clamp to the bracket by tightening the M12 nut and bolt to the bracket through the Φ13 hole in the middle of the bracket.
- Insert the quick-lock fasteners of the first Omega holder into the respective holes on the bottom of the device. Tighten the quick-lock fasteners fully clockwise.
- Install the second Omega holder.
- Pull the safety cable through the handle of the base and over the trussing system or another suitable rigging point. Insert the end into the carabiner and tighten the safety screw.
- Do NOT attach the safety cable to the holes marked "X" on the drawing.
- The safety cable can be attached to either the handle of the base or the hole on the bottom of the base (as shown below):
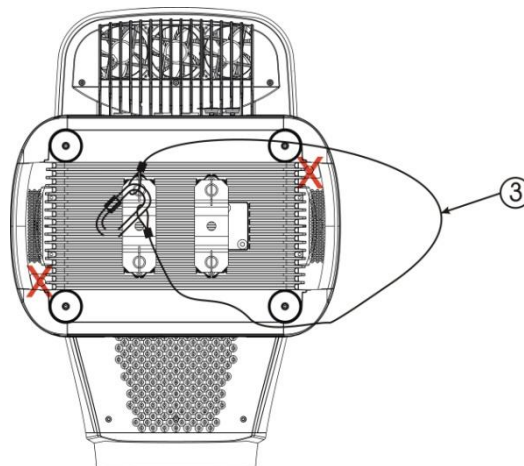
☞ **Important：**
This step is very important to ensure safe rigging of the fixture.

5.3. RIGGING DRAWINGS
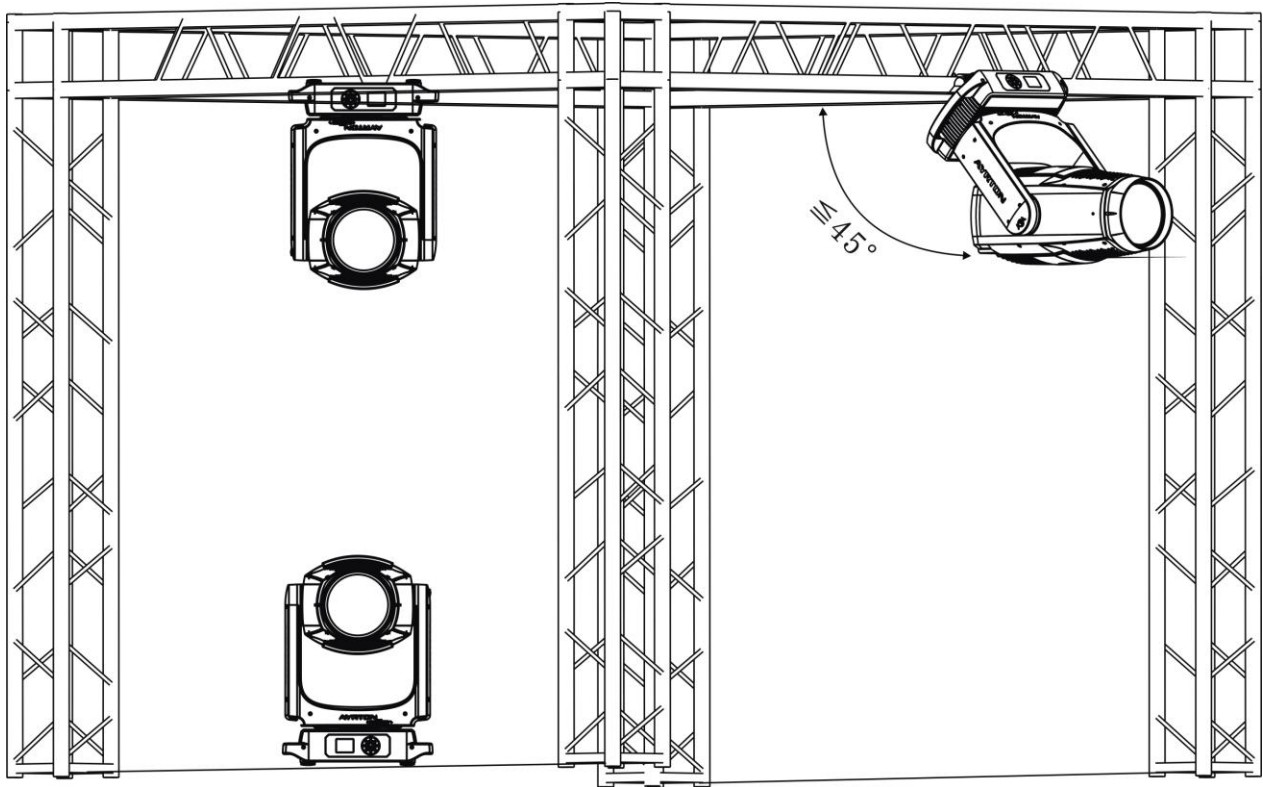
- Be sure this fixture is kept at least 0.2 m away from any flammable materials (decoration etc.).
- Always use and install a safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.

👉 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.

| Address 1 | Address 47 | Address 93 |
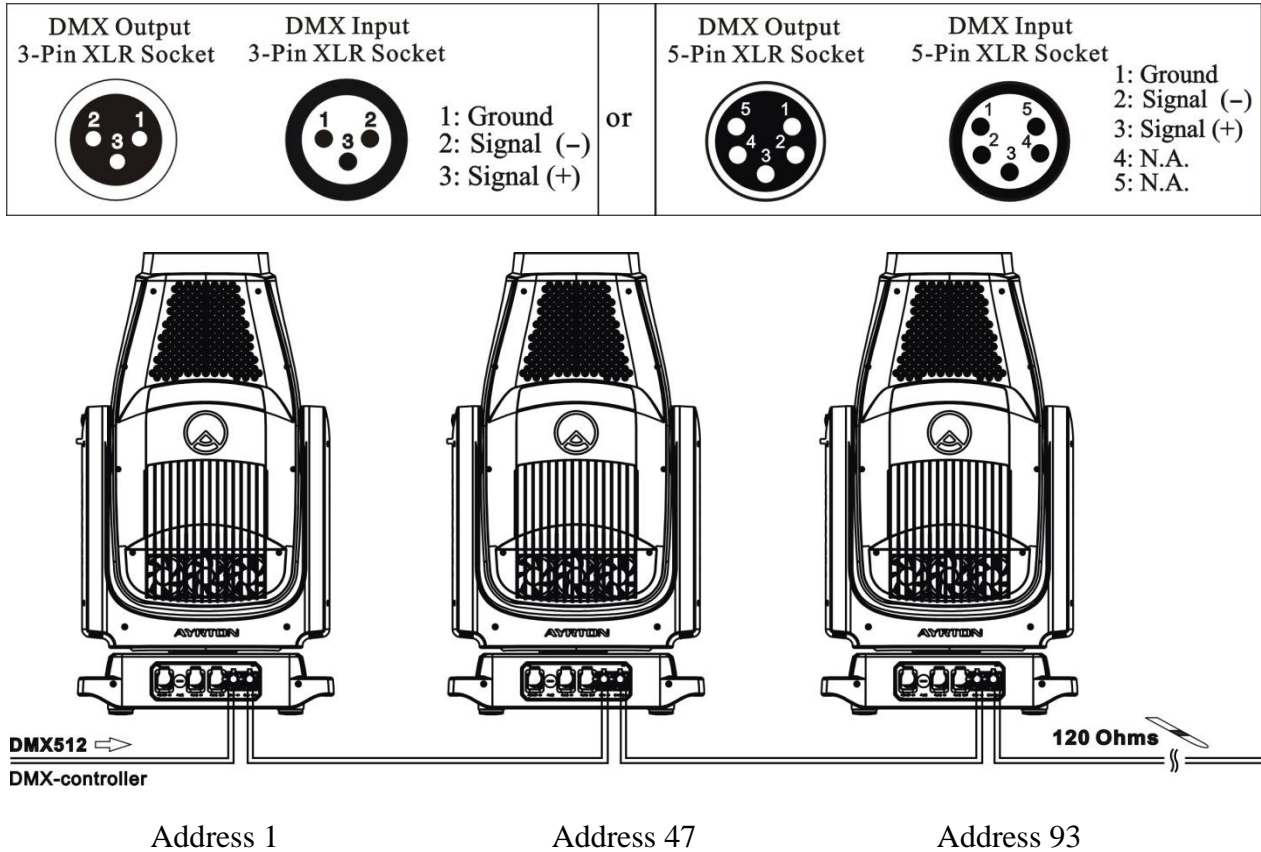
7. DMX-512 CONNECTION WITH DMX TERMINATOR

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.
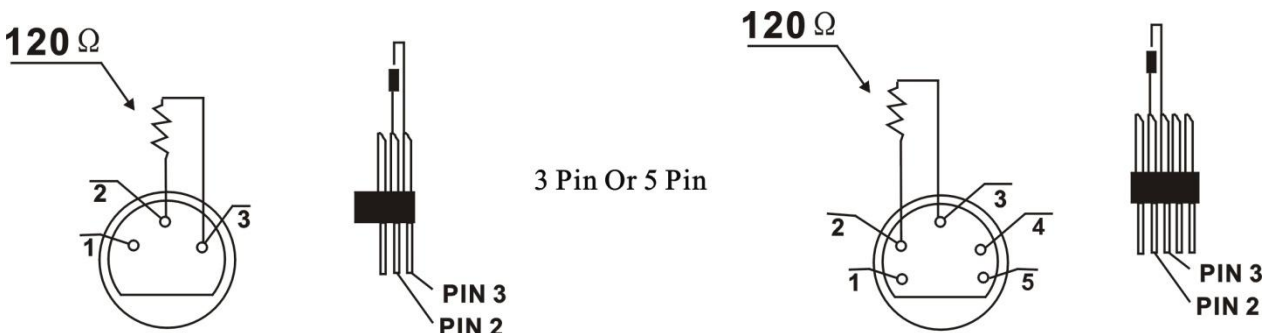
8. DEVICE DMX START ADDRESS SELECTION

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 46 channel mode，you should set the starting address of the first unit to 1，the second unit to 47 (46 + 1)，the third unit to 93 (46+ 47)，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 several features：you can set the starting address，run the pre-programmed program or reset the device.

The main menu is accessed by double clicking ⊚ -button until the display starts flashing. Browse through the menu by pressing the Ⓐ -button，Ⓥ -button，Ⓒ -button or Ⓓ - button .

Press ⊚ for 2 seconds in order to exit menu, double click ⊚ for confirm. After accessing the edit mode，the unit will automatically exit to the main menu after 15 seconds from the last button press.

When the unit is powered on，if no data signal is connected after 1 minute，then the display will switch off automatically.

Default settings shaded

Address	Address	DMX address:001-XXX ：		DMX address setting
Mode	User Mode	Stand Mode Basic Mode Extend Mode Domino Mode User Mode A User Mode B User Mode C		User's mode to change channel numbers
	Edit User ModeA ：	Max channel PAN ：		Preset User modes A,B,C ：
Options	Status	No DMX Mode	Close/Hold/Auto	Auto run if no DMX
		Sun Protection	ON/OFF	Sun Protection
		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
		Init PAN	ON/OFF	Init PAN
		Init TILT	ON/OFF	Init TILT
		Reset Mode	Fast /All Rot Gobos	Reset Mode
		Pan/Tilt Spd	Medium/Fast/Slow	Movement Speed
		CMY Spd	Fast/ Medium/Slow	CMY Spd
		Zoom/Focus Spd	Fast/Medium/Slow	Zoom/Focus Speed

		Hibernation	OFF , 01M~99M	Stand by Mode
		DMX Output	ON/OFF	DMX Output
	Service PIN	Service PIN	Password=XXX	Service Password"=050"
		Set Ip	xxx.xxx.xxx.xxx	Set Ip
		Set Mask Ip	xxx.xxx.xxx.xxx	Set Mask Ip
		DHCP	ON/OFF	DHCP
		Cross Load SW	ON/OFF	Cross Load SW
		Clr LED Time	ON/OFF	Clr LED Time
	Fans Control	Fans Dpeed	Auto Stage Silence Super Silence	Fans Speed select
		Constant Fans	ON/OFF	Constant Fans
	Disp.Setting	Shutoff Time	02~60m 05m	Display shutoff time
		Flip Display	ON/OFF	Reverse 180 degree
		Key Lock	ON/OFF	Key Lock
		DispFlash	ON/OFF	DispFlash
	Signal Select	DMX WDMX Art-Net sACN		DMX WDMX Art-Net sACN
	Temp. C/F	Celsius Fahrenheit		Temperature switch between °C/°F
	Initial Pos.	PAN =XXX		Initial effect position
	Wireless	Activate WDMX Rest WDMX		Activate WDMX Rest WDMX
	Dim Curve	Square Law Linear		Dim Curve
	Refresh Select	1.2K 2.4K 16K 25K		Refresh Select
	Gobo Correction	ON/OFF		Gobo Correction
	Reset P/T Fade	ON/OFF		Reset P/T Fade
	Frost (Progressive)	ON/OFF		Frost (Progressive)
	Trigger	DMX Value Disp. Set To Slave Auto Program	PAN…… Slave1,Slave2,Slave3 Master / Alone	DMX Value Disp. Set To Slave Auto Program
	ResetDefault	ON/OFF		Restore factory set.

Info	Time Info.	Current Time Ttl Life Hrs Last Run Hrs LED Hours Timer PIN Clr Last Run	XXXX(Hours) XXXX(Hours) XXXX(Hours) XXXX(Hours) Password=XXX ON/OFF
	Temp. Info	Head Temp.	XXX°C/°F
	Humidity	x%	Humidity
	Fan Info.	xxxxRPM	Fan information
	Software Ver	V1.0……	Software version
	Network	IP,Mask,Mac	Network
Test	Home	All Pan&Tilt Color Gobo Other	Reset All Reset Pan&Tilt Reset Color Reset Gobo Reset Others
	Test Channel	PAN ……	Test function
	Manual Ctrl.	PAN =XXX :	Fine adjustment of the lamp
	Calibration	-Password- PAN :	Password "050" Calbrate and adjust the effects to standard/right position
	Gobo Replace	Gobo Wheel 1	Gobo Wheel 1
		Gobo Wheel 2	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	Select programs to be run
	Edit Prog.	Program 1 : Program 10	Program Test Step 01=SCxxx Step 64=SCxxx Testing program Program in loop Save and exit
	Edit Scenes	Edit Scene 001 ~ Edit Scene 250	Pan,Tilt,…… --Fade Time-- --Secne Time-- Input By Outside Save and automatically return manual scenes edit
	Scenes Input	XX~XX	Scenes Input

10.1. Address
10.1.1. Set DMX Address
With this function，you can adjust the desired DMX-address via the Display.
1. Double clicking center button to access main menu.
2. Tap the <Up/Down> button until "Address" is displayed.
3. Double clicking center button，the display will show "Set DMX Address".
4. Tap the <Up/Down> button，the display will show "001~XXX".
5. Double click the center button to confirm or long press the center button to return to the main menu.

10.2.Mode
10.2.1. User Mode
With this function，you can create user defined channel orders.
1. Double clicking center button to access main menu；Tap the <Up/Down> button until "Mode" is displayed. Double clicking center button to enter.
2. Press <Up/Down>，the display will show "User Mode".
3. Double clicking center button to enter.
4. When in "Extend Mode"，Press <Up/Down> button to select "Basic Mode"，"Stand Mode"，"Domino Mode"，"User Mode A"，"User Mode B" and "User Mode C".
5. Double click the center button to confirm or long press the center button to return to the main menu.

10.2.2. Edit User Mode
With this function，you can adjust the rest user defined channel order.
1. Double clicking center button to access main menu；Tap the <Up/Down> button until "Mode" is displayed. Double clicking center button to enter.
2. Press <Up/Down>，the display will show "Edit User Mode".
3. Double clicking center button to enter.
4. Set up "Max Channel=xxx" and select channel value.
5. Set up "Mode B" and "Mode C" by the same way.
6. Double click the center button to confirm or long press the center button to return to the main menu.

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 clicking center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double clicking center button to access "Options"，Tap the <Up/Down> button to select "Status".
4. Double clicking center button to access "Status" menu，Tap the <Up/Down> button to select "No DMX Status".
5. Double clicking center button to access "No DMX Status"， The display will show

"Hold"，Tap the <Up/Down> button to select "Close"，"Auto".

6. Double click the center button to confirm or long press the center button to return to the main menu.

Sun Protection
1. Double clicking center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double clicking center button to access "Options"，Tap the <Up/Down> button to select "Status".
4. Double clicking center button to access "Status" menu，Tap the <Up/Down> button to select "Sun Protection".
5. Double clicking center button to access "Sun Protection"， The display will show "ON"，Tap the <Up/Down> button to select "OFF".
6. Double click the center button to confirm or long press the center button to return to the main menu.

Pan Reverse
With this function you can reverse the Pan-movement.
1. Double clicking center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double clicking center button to access "Options"，Tap the <Up/Down> button to select "Status".
4. Double clicking center button to access "Status" menu，Tap the <Up/Down> button to select "Pan Reverse".
5. Double clicking center button to access "Pan Reverse"， The display will show "OFF"，Tap the <Up/Down> button to select "NO".
6. Double click the center button to confirm or long press the center button to return to the main menu.

Tilt Reverse
With this function you can reverse the Tilt-movement.
1. Double clicking center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double clicking center button to access "Options"，Tap the <Up/Down> button to select "Status".
4. Double clicking center button to access "Status" menu，Tap the <Up/Down> button to select "Tilt Reverse".
5. Double clicking center button to access "Tilt Reverse"， The display will show "OFF"，Tap the <Up/Down> button to select "NO".
6. Double click the center button to confirm or long press the center button to return to the main menu.

Pan Degree
With this function，you can select pan degree for 630 or 540.
1. Double clicking center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double clicking center button to access "Options"，Tap the <Up/Down> button to select

"Status".

4. Double clicking center button to access "Status" menu，Tap the <Up/Down> button to select "Pan Degree".

5. Double clicking center button to access "Pan Degree"，The display will show "540"，Tap the <Up/Down> button to select "630".

6. Double click the center button to confirm or long press the center button to return to the main menu.

Feedback

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

1. Double clicking center button to access main menu.

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

3. Double clicking center button to access "Options"，Tap the <Up/Down> button to select "Status".

4. Double clicking center button to access "Status" menu，Tap the <Up/Down> button to select "Feedback".

5. Double clicking center button to access "Feedback"，The display will show "ON"，Tap the <Up/Down> button to select "OFF".

6. Double click the center button to confirm or long press the center button to return to the main menu.

Init PAN

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

1. Double clicking center button to access main menu.

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

3. Double clicking center button to access "Options"，Tap the <Up/Down> button to select "Status".

4. Double clicking center button to access "Status" menu，Tap the <Up/Down> button to select "Init PAN".

5. Double clicking center button to access "Init PAN"，The display will show "ON"，Tap the <Up/Down> button to select "OFF".

6. Double click the center button to confirm or long press the center button to return to the main menu.

Init TILT

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

1. Double clicking center button to access main menu.

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

3. Double clicking center button to access "Options"，Tap the <Up/Down> button to select "Status".

4. Double clicking center button to access "Status" menu，Tap the <Up/Down> button to select "Init TILT".

5. Double clicking center button to access "Init TILT"，The display will show "ON"，Tap the <Up/Down> button to select "OFF".

6. Double click the center button to confirm or long press the center button to return to the main menu.

Reset Mode
1. Double clicking center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double clicking center button to access "Options", Tap the <Up/Down> button to select "Status".
4. Double clicking center button to access "Status" menu, Tap the <Up/Down> button to select "Reset Mode".
5. Double clicking center button to access "Reset Mode", The display will show "Fast", Tap the <Up/Down> button to select "All Rot Gobos".
6. Double click the center button to confirm or long press the center button to return to the main menu.

Pan/Tilt Spd
With this function, you can select scan mode from 1 to 4.
1. Double clicking center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double clicking center button to access "Options", Tap the <Up/Down> button to select "Status".
4. Double clicking center button to access "Status" menu, Tap the <Up/Down> button to select "Pan/Tilt Spd".
5. Double clicking center button to access "Pan/Tilt Spd", The display will show "Medium", Tap the <Up/Down> button to select "Medium", "Fast", "Slow".
6. Double click the center button to confirm or long press the center button to return to the main menu.

CMY Spd
1. Double clicking center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double clicking center button to access "Options", Tap the <Up/Down> button to select "Status".
4. Double clicking center button to access "Status" menu, Tap the <Up/Down> button to select "CMY Spd".
5. Double clicking center button to access "CMY Spd", The display will show "Slow", Tap the <Up/Down> button to select "Fast", "Medium", "Slow".
6. Double click the center button to confirm or long press the center button to return to the main menu.

Zoom/Focus Spd
With this function, you can select Zoom/Focus from 1 to 3.
1. Double clicking center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double clicking center button to access "Options", Tap the <Up/Down> button to select "Status".
4. Double clicking center button to access "Status" menu, Tap the <Up/Down> button to select "Zoom/Focus Spd".

5. Double clicking center button to access "Zoom/Focus Spd", The display will show "Fast", Tap the <Up/Down> button to select "Fast", "Medium", "Slow".
6. Double click the center button to confirm or long press the center button to return to the main menu.

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 clicking center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double clicking center button to access "Options", Tap the <Up/Down> button to select "Status".
4. Double clicking center button to access "Status" menu, Tap the <Up/Down> button to select "Hibernation".
5. Double clicking center button to access "Hibernation", The display will show "OFF", Tap the <Up/Down> button to select "01M", "02M" . . . "99M".
6. Double click the center button to confirm or long press the center button to return to the main menu.

DMX Output
With this function, you can select Art-Net to DMX.
1. Double clicking center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double clicking center button to access "Options", Tap the <Up/Down> button to select "Status".
4. Double clicking center button to access "Status" menu, Tap the <Up/Down> button to select "DMX Output".
5. Double clicking center button to access "DMX Output", The display will show "OFF", Tap the <Up/Down> button to select "ON".
6. Double click the center button to confirm or long press the center button to return to the main menu.

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

Set IP
1. Double clicking center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double clicking center button to access "Options", Tap the <Up/Down> button to select "Service PIN".
4. Double clicking center button to access "Service PIN" menu, Tap the <Up/Down> button to select "Set IP".
5. Double clicking center button to access "Set IP", The display will show "XXX. XXX. XXX. XXX".
6. Double click the center button to confirm or long press the center button to return to the

main menu.

Set Mask IP
1. Double clicking center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double clicking center button to access "Options", Tap the <Up/Down> button to select "Service PIN".
4. Double clicking center button to access "Service PIN" menu, Tap the <Up/Down> button to select "Set Mask IP".
5. Double clicking center button to access "Set Mask IP", The display will show "XXX. XXX. XXX. XXX".
6. Double click the center button to confirm or long press the center button to return to the main menu.

DHCP
1. Double clicking center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double clicking center button to access "Options", Tap the <Up/Down> button to select "Service PIN".
4. Double clicking center button to access "Service PIN" menu, Tap the <Up/Down> button to select "DHCP".
5. Double clicking center button to access "DHCP", The display will show "ON", Tap the <Up/Down> button to select "OFF".
6. Double click the center button to confirm or long press the center button to return to the main menu.

Cross Load SW
1. Double clicking center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double clicking center button to access "Options", Tap the <Up/Down> button to select "Service PIN".
4. Double clicking center button to access "Service PIN" menu, Tap the <Up/Down> button to select "Cross Load SW".
5. Double clicking center button to access "Cross Load SW", The display will show "OFF", Tap the <Up/Down> button to select "ON".
6. Double click the center button to confirm or long press the center button to return to the main menu.

Clr LED Timer
1. Double clicking center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double clicking center button to access "Options", Tap the <Up/Down> button to select "Service PIN".
4. Double clicking center button to access "Service PIN" menu, Tap the <Up/Down> button to select "Clr LED Timer".
5. Double clicking center button to access "Clr LED Timer", The display will show "OFF", Tap the <Up/Down> button to select "ON".

6. Double click the center button to confirm or long press the center button to return to the main menu.

10.3.3. Fans Control

Fans Speed

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

1．Double clicking center button to access main menu.
2．Tap the <Up/Down> button until "Options" is displayed.
3．Double clicking center button to access"Options", Tap the <Up/Down> button to select "Fans Control".
4．Double clicking center button to access "Fans Control" menu，Tap the <Up/Down> button to select "Fans Speed".
5．Double clicking center button to access"Fans Speed", The display will show "Auto", Tap the <Up/Down> button to select "Stage"，"Silence"，"Super Silence".
6．Double click the center button to confirm or long press the center button to return to the main menu.

Constant Fans

1．Double clicking center button to access main menu.
2．Tap the <Up/Down> button until "Options" is displayed.
3．Double clicking center button to access"Options", Tap the <Up/Down> button to select "Fans Control".
4．Double clicking center button to access "Fans Control" menu，Tap the <Up/Down> button to select "Constant Fans".
5．Double clicking center button to access"Constant Fans", The display will show "OFF", Tap the <Up/Down> button to select "ON".
6．Double click the center button to confirm or long press the center button to return to the main menu.

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 clicking center button to access main menu.
2．Tap the <Up/Down> button until "Options" is displayed.
3．Double clicking center button to access"Options", Tap the <Up/Down> button to select "Display Setting".
4．Double clicking center button to access "Display Setting" menu，Tap the <Up/Down> button to select "Shut off Time".
5．Double clicking center button to access"Shut off Time", The display will show "05m", Tap the <Up/Down> button to select "02~60m".
6．Double click the center button to confirm or long press the center button to return to the main menu.

Flip Display

With this function you can rotate the display by 180°.

1．Double clicking center button to access main menu.
2．Tap the <Up/Down> button until"Options"is displayed.
3．Double clicking center button to access"Options", Tap the <Up/Down> button to select
"Display Setting".
4．Double clicking center button to access"Display Setting"menu，Tap the <Up/Down>
button to select"Flip Display".
5．Double clicking center button to access"Flip Display", The display will show "OFF",
Tap the <Up/Down> button to select"ON".
6．Double click the center button to confirm or long press the center button to return to the
main menu.

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 clicking center button to access main menu.
2．Tap the <Up/Down> button until"Options"is displayed.
3．Double clicking center button to access"Options", Tap the <Up/Down> button to select
"Display Setting".
4．Double clicking center button to access"Display Setting"menu，Tap the <Up/Down>
button to select"Key Lock".
5．Double clicking center button to access "Key Lock"， The display will show "OFF",
Tap the <Up/Down> button to select"ON".
6．Double click the center button to confirm or long press the center button to return to the
main menu.

DispFlash

With this function you can the entire display to be flipped by 180°to allow for better view
when the fixture is hung from truss or a ceiling. This function is disabled as default.
1．Double clicking center button to access main menu.
2．Tap the <Up/Down> button until"Options"is displayed.
3．Double clicking center button to access"Options", Tap the <Up/Down> button to select
"Display Setting".
4．Double clicking center button to access"Display Setting"menu，Tap the <Up/Down>
button to select"DispFlash".
5．Double clicking center button to access"DispFlash"，The display will show "OFF",
Tap the <Up/Down> button to select"ON".
6．Double click the center button to confirm or long press the center button to return to the
main menu.

10.3.5. Signal Select

1．Double clicking center button to access main menu.
2．Tap the <Up/Down> button until"Options"is displayed.
3．Double clicking center button to access"Options", Tap the <Up/Down> button to select
"Signal Select".

4．Double clicking center button to access"Signal Select", The display will show "DMX", Tap the <Up/Down> button to select "DMX", "WDMX", "Art--Net", "sACN".

5．Double click the center button to confirm or long press the center button to return to the main menu.

10.3.6. Temperature C/F

With this function you can display the temperature in Celsius or Fahrenheit.

1．Double clicking center button to access main menu.

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

3．Double clicking center button to access"Options", Tap the <Up/Down> button to select "Temperature C/ F".

4．Double clicking center button to access "Temperature C/ F", The display will show "Fahrenheit", Tap the <Up/Down> button to select "Celsius".

5．Double click the center button to confirm or long press the center button to return to the main menu.

10.3.7. Initial Pos.

With this function you can display initial effect position.

1．Double clicking center button to access main menu.

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

3．Double clicking center button to access"Options", Tap the <Up/Down> button to select "Initial Pos. ".

4．Double clicking center button to access "Initial Pos. ", The display will show "PAN=XXX".

5．Double click the center button to confirm or long press the center button to return to the main menu.

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 clicking center button to access main menu.

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

3. Double clicking center button to access"Options", Tap the <Up/Down> button to select "Wireless DMX".

4. Double clicking center button to access "Wireless DMX", The display will show "Activate WDMX", Tap the <Up/Down> button to select "Rest WDMX".

5. Double click the center button to confirm or long press the center button to return to the main menu.

10.3.9. Dim Curve

1. Double clicking center button to access main menu.

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

3. Double clicking center button to access"Options", Tap the <Up/Down> button to select "Dim Curve".

4. Double clicking center button to access "Dim Curve", The display will show "Square Law", Tap the <Up/Down> button to select "Linear".

5. Double click the center button to confirm or long press the center button to return to the main menu.

10.3.10. Refresh Select
With this function you can select the refresh.
1. Double clicking center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double clicking center button to access "Options", Tap the <Up/Down> button to select "Refresh Select".
4. Double clicking center button to access "Refresh Select", The display will show "1.2K", Tap the <Up/Down> button to select "2.4K", "16K", "25K".
5. Double click the center button to confirm or long press the center button to return to the main menu.

10.3.11. Gobo Correction
With this function you can select the CTB.
1. Double clicking center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double clicking center button to access "Options", Tap the <Up/Down> button to select "Gobo Correction".
4. Double clicking center button to access "Gobo Correction", The display will show "ON", Tap the <Up/Down> button to select "OFF".
5. Double click the center button to confirm or long press the center button to return to the main menu.

10.3.12. Reset P/T Fade
1. Double clicking center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double clicking center button to access "Options", Tap the <Up/Down> button to select "Reset P/T Fade".
4. Double clicking center button to access "Reset P/T Fade", The display will show "OFF", Tap the <Up/Down> button to select "ON".
5. Double click the center button to confirm or long press the center button to return to the main menu.

10.3.13. Frost (Progressive)
1. Double clicking center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double clicking center button to access "Options", Tap the <Up/Down> button to select "Frost (Progressive)".
4. Double clicking center button to access "Frost (Progressive)", The display will show "ON", Tap the <Up/Down> button to select "OFF".
5. Double click the center button to confirm or long press the center button to return to the main menu.

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 clicking center button to access main menu.
2．Tap the <Up/Down> button until "Options" is displayed.
3．Double clicking center button to access"Options", Tap the <Up/Down> button to select "Trigger".
4．Double clicking center button to access"Trigger"menu，Tap the <Up/Down> button to select "DMX Value Disp".
5．Double clicking center button to access "DMX Value Disp"，The display will show "PAN=……..".
6．Double click the center button to confirm or long press the center button to return to the main menu.

Set To Slave

With this function, you can define the device as slave.
1．Double clicking center button to access main menu.
2．Tap the <Up/Down> button until "Options" is displayed.
3．Double clicking center button to access"Options", Tap the <Up/Down> button to select "Trigger".
4．Double clicking center button to access"Trigger"menu，Tap the <Up/Down> button to select "Set To Slave".
5．Double clicking center button to access "Set To Slave"，The display will show "Slave1"，"Slave2"，"Slave3".
6．Double click the center button to confirm or long press the center button to return to the main menu.

Auto Program

With this function，you can run the internal program. You can select the desired program under"**Select program**". You can set the number of steps under"**Edit program**"．You can edit the individual scenes under"**Edit scenes**". With this function，you can run the individual scenes either automatically，i. e. with the adjusted Step-Time.
1．Double clicking center button to access main menu.
2．Tap the <Up/Down> button until "Options" is displayed.
3．Double clicking center button to access"Options", Tap the <Up/Down> button to select "Trigger".
4．Double clicking center button to access"Trigger"menu，Tap the <Up/Down> button to select "Auto Program".
5．Double clicking center button to access "Auto Program"，The display will show "Master"，"Alone".
6．Double click the center button to confirm or long press the center button to return to the main menu.

10.3.15. Reset Default

With this function，you can select restore factory set for ON or OFF，the default is OFF.
1．Double clicking center button to access main menu.
2．Tap the <Up/Down> button until "Options" is displayed.
3．Double clicking center button to access"Options"，Tap the <Up/Down> button to select

"Reset Default".
4. Double clicking center button to access "Reset Default" menu，The display will show
"OFF"，Tap the <Up/Down> button to select "ON".
5. Double click the center button to confirm or long press the center button to return to the
main menu.

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 clicking center button to access main menu.
2. Tap the <Up/Down> button until "Info" is displayed.
3. Double clicking center button to access "Info"，Tap the <Up/Down> button to select
"Time Info.".
4. Double clicking center button to access "Time Info."，Tap the <Up/Down> button to
select "Current Time".
5. Double clicking center button to access "Current Time"，The display will show
"XXXX (Hours)".
6. Double click the center button to confirm or long press the center button to return to the
main menu.

Ttl Life Hrs
With this function，you can display the running time of the device. The display shows
"XXXX"，"XXXX" stands for the number of hours.
1. Double clicking center button to access main menu.
2. Tap the <Up/Down> button until "Info" is displayed.
3. Double clicking center button to access "Info"，Tap the <Up/Down> button to select
"Time Info.".
4. Double clicking center button to access "Time Info."，Tap the <Up/Down> button to
select "Ttl Life Hrs".
5. Double clicking center button to access "Ttl Life Hrs"，The display will show "XXXX
(Hours)".
6. Double click the center button to confirm or long press the center button to return to the
main menu.

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 clicking center button to access main menu.
2. Tap the <Up/Down> button until "Info" is displayed.
3. Double clicking center button to access "Info"，Tap the <Up/Down> button to select
"Time Info.".
4. Double clicking center button to access "Time Info."，Tap the <Up/Down> button to
select "Last Run Hrs".

5. Double clicking center button to access"Last Run Hrs", The display will show "XXXX (Hours)".
6. Double click the center button to confirm or long press the center button to return to the main menu.

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 clicking center button to access main menu.
2. Tap the <Up/Down> button until "Info" is displayed.
3. Double clicking center button to access "Info"，Tap the <Up/Down> button to select "Time Info.".
4. Double clicking center button to access "Time Info."，Tap the <Up/Down> button to select "LED Hours".
5. Double clicking center button to access"LED Hours", The display will show "XXXX (Hours)".
6. Double click the center button to confirm or long press the center button to return to the main menu.

Timer PIN

With this function，you can display the timer password.
1．Double clicking center button to access main menu.
2．Tap the <Up/Down> button until "Info" is displayed.
3．Double clicking center button to access "Info"，Tap the <Up/Down> button to select "Time Info.".
4．Double clicking center button to access "Time Info."，Tap the <Up/Down> button to select "Timer PIN".
5．Double clicking center button to access "Timer PIN"，The display will show "Password=038".
6．Double click the center button to confirm or long press the center button to return to the main menu.

Clr Last Run

With this function，you can clear last run time of the fixture. The display shows "ON" or "OFF"，Press "Enter" to confirm.
1. Double clicking center button to access main menu.
2. Tap the <Up/Down> button until "Info" is displayed.
3. Double clicking center button to access "Info"，Tap the <Up/Down> button to select "Time Info.".
4. Double clicking center button to access "Time Info."，Tap the <Up/Down> button to select "Clear Last Run".
5. Double clicking center button to access "Clear Last Run"，The display will show "OFF"，Tap the <Up/Down> button to select "ON".
6. Double click the center button to confirm or long press the center button to return to the main menu.

10.4.2. Temp. Info

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

1. Double clicking center button to access main menu.
2. Tap the <Up/Down> button until "Info" is displayed.
3. Double clicking center button to access "Info", Tap the <Up/Down> button to select "Temp Info".
4. Double clicking center button to access "Time Info.", The display will show "XXX ℃/ ℉".
5. Double click the center button to confirm or long press the center button to return to the main menu.

10.4.3. Humidity

1. Double clicking center button to access main menu.
2. Tap the <Up/Down> button until "Info" is displayed.
3. Double clicking center button to access "Info", Tap the <Up/Down> button to select "Humidity".
4. Double clicking center button to access "Humidity", The display will show "x%".
5. Double click the center button to confirm or long press the center button to return to the main menu.

10.4.4. Fan Info.

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

1. Double clicking center button to access main menu.
2. Tap the <Up/Down> button until "Info" is displayed.
3. Double clicking center button to access "Info", Tap the <Up/Down> button to select "Fan Info.".
4. Double clicking center button to access "Fan Info.", The display will show "xxxxRPM".
5. Double click the center button to confirm or long press the center button to return to the main menu.

10.4.5. Software Ver

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

1. Double clicking center button to access main menu.
2. Tap the <Up/Down> button until "Info" is displayed.
3. Double clicking center button to access "Info", Tap the <Up/Down> button to select "Software Ver".
4. Double clicking center button to access "Software Ver", The display will show "V1.0.......".
5. Double click the center button to confirm or long press the center button to return to the main menu.

10.4.6. Network

1. Double clicking center button to access main menu.
2. Tap the <Up/Down> button until "Info" is displayed.
3. Double clicking center button to access "Info", Tap the <Up/Down> button to select "Network".

4. Double clicking center button to access "Network", The display will show "IP" , Turn the center button to select "Mask", "Mac".
5. Double click the center button to confirm or long press the center button to return to the main menu.

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 clicking center button to access main menu.
2. Tap the <Up/Down> button until "Test" is displayed.
3. Double clicking center button to access "Test", Tap the <Up/Down> button to select "Home".
4. Double clicking center button to access "Home", The display will show "All" , Tap the <Up/Down> button to select "All", "Pan&Tilt", "Color", "Gobo", "Other".
5. Double click the center button to confirm or long press the center button to return to the main menu.

10.5.2. Test Channel
With this function you can test each channel's function to ensure correct operation.
1. Double clicking center button to access main menu.
2. Tap the <Up/Down> button until "Test" is displayed.
3. Double clicking center button to access "Test", Tap the <Up/Down> button to select "Test Channel".
4. Double clicking center button to access "Test Channel", The display will show "Pan", Tap the <Up/Down> button to select other channel.
5. Double click the center button to confirm or long press the center button to return to the main menu.

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 clicking center button to access main menu.
2. Tap the <Up/Down> button until "Test" is displayed.
3. Double clicking center button to access "Test", Tap the <Up/Down> button to select "Manual control".
4. Double clicking center button to access "Manual control", The display will show "PAN=XXX".
5. Double click the center button to confirm or long press the center button to return to the main menu.

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 clicking center button to access main menu.

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

3．Double clicking center button to access "Test", Tap the <Up/Down> button to select "Calibration".

4．Double clicking center button to access "Calibration", The display will show "Password=050".

5．Double click the center button to confirm or long press the center button to return to the main menu.

10.5.5. Gobo Replace

1．Double clicking center button to access main menu.

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

3．Double clicking center button to access "Test", Tap the <Up/Down> button to select "Gobo Replace".

4．Double clicking center button to access "Gobo Replace", The display will show "Gobo Wheel 1", "Gobo Wheel 2".

5．Double click the center button to confirm or long press the center button to return to the main menu.

10.6. Preset

1．Double clicking center button to access main menu.

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

3．Double clicking center button to access "Preset", Tap the <Up/Down> button to select "Select prog. ", "Edit prog. ", "Edit Scenes", "Scenes Input".

4．Double click the center button to confirm or long press the center button to return to the main menu.

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:
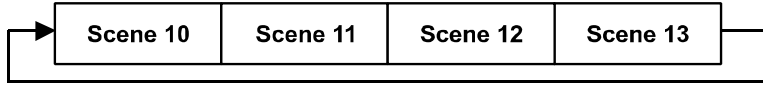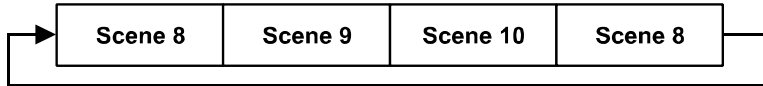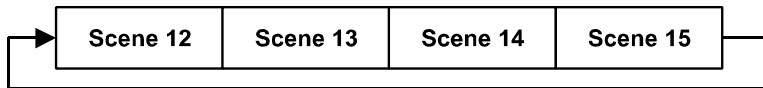
Scene 10	Scene 11	Scene 12	Scene 13

Part 2:

Scene 8	Scene 9	Scene 10	Scene 8

Part 3:

Scene 12	Scene 13	Scene 14	Scene 15

11. DMX PROTOCOL

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		**Zoom :**
			0-255	Zoom adjustment from small to big
		10		**Zoom Fine:**
			0-255	Zoom adjustment Fine
9	7	11		**Focus :**
			0-255	Continuous adjustment from near to far
		12		**Focus Fine:**
			0-255	Continuous adjustment Fine
10	8	13		**Auto Focus :**
			0-50	Auto Focus Off
			51-100	5m
			101-150	7.5m
			151-200	10m

			201-255	15m
11	9	14		**AutoFocus Fine:**
			0-255	Continuous adjustment Fine
12	10	15		**Color Wheel:**
			0-3	Open / white
			4-7	Color 1
			8-11	Color 2
			12-15	Color 3
			16-19	Color 4
			20-23	Color 5
			24-27	Color 6
			28-127	Color indexing
			128-189	Forwards rainbow effect from fast to slow
			190-193	No rotation
			194-255	Backwards rainbow effect from slow to fast
		16		**Color Wheel Fine:**
			0-255	Color Wheel colour change to any position　Fine
13	11	17		**Cyan Color :**
			0-255	Cyan (0-white, 255-100% Cyan)
		18		**Cyan Color Fine :**
			0-255	Cyan Fine
14	12	19		**Magenta Color :**
			0-255	Magenta (0-white, 255-100% magenta)
		20		**Magenta Color Fine :**
			0-255	Magenta Fine
15	13	21		**Yellow Color :**
			0-255	Yellow (0-white, 255-100% Yellow)
		22		**Yellow Color Fine :**
			0-255	Yellow Fine
16	14	23		**CTO Color :**
			0-255	CTO (0-white, 255-100% CTO)
		24		**CTO Color Fine :**
			0-255	CTO Fine
17	15	25		**CTB Color :**
			0-255	CTB (0-white, 255-100% CTO)
		26		**CTB Color Fine :**
			0-255	CTB Fine
18	16	27		**CTP Color :**
			0-255	CTP (0-white, 255-100% CTO)
		28		**CTP Color Fine :**
			0-255	CTP Fine
19	17	29		**Color Presets:**
			0-255	See Appendix

20	18	30		Reserved
21	19	31		Reserved
22	20	32		Reserved
23	21	33		Rotating gobos, cont. rotation 1:
			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
			70-77	Rot. Gobo 7
			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
24	22	34		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
		35		Rotating gobo indexing Fine 1:
			0-255	Fine indexing
25	23	36		Rotating gobos, cont. rotation 2:
			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
			70-77	Rot. Gobo 7
			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
26	24	37		**Rotating gobo index,rotating gobo rotation 2:**
			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
		38		**Rotating gobo indexing Fine 2:**
			0-255	Fine indexing
27	25	39		**Animation wheel 1:**
			0-7	No rotation
			8-127	Forwards rotation from fast to slow
			128-135	No rotation
			136-255	Backwards rotation from slow to fast
28	26	40		**Animation wheel 2:**
			0-255	Animation indexing
29	27	41		**Rotating Animation wheel 2:**
			0-7	No rotation
			8-127	Forwards rotation from fast to slow
			128-135	No rotation
			136-255	Backwards rotation from slow to fast
30	28	42		**Iris:**
			0-191	Max. diameter to Min.diameter
			192-223	Pulse closing fast to slow
			224-255	Pulse opening slow to fast
		43		**Iris Fine:**
			0-255	Iris Fine
31	29	44		**Prism 1:**
			0-127	Open
			128-255	Prism 1
32	30	45		**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
		46		**Rotating prism indexing Fine 1:**
			0-255	Fine indexing
33	31	47		**Prism 2:**
			0-127	Open
			128-255	Prism 2

				Rotating prism index, rotating prism rotation 2
34	32	48	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
		49		**Rotating prism indexing Fine 2:**
			0-255	Fine indexing
35	33	50		**Frost 1:**
			0-255	0-100%
36	34	51		**Frost 2:**
			0-255	0-100%
37	35	52		**Blade 1A :**
			0-255	Open to Close
		53		**Blade 1A Fine :**
			0-255	Open to Close Fine
38	36	54		**Blade 1B :**
			0-255	Open to Close
		55		**Blade 1B Fine :**
			0-255	Open to Close Fine
39	37	56		**Blade 2A :**
			0-255	Open to Close
		57		**Blade 2A Fine :**
			0-255	Open to Close Fine
40	38	58		**Blade 2B :**
			0-255	Open to Close
		59		**Blade 2B Fine :**
			0-255	Open to Close Fine
41	39	60		**Blade 3A :**
			0-255	Open to Close
		61		**Blade 3A Fine :**
			0-255	Open to Close Fine
42	40	62		**Blade 3B :**
			0-255	Open to Close
		63		**Blade 3B Fine :**
			0-255	Open to Close Fine
43	41	64		**Blade 4A :**
			0-255	Open to Close
		65		**Blade 4A Fine :**
			0-255	Open to Close Fine
44	42	66		**Blade 4B :**
			0-255	Open to Close
		67		**Blade 4B Fine :**
			0-255	Open to Close Fine

45	43	68		All Blade Rotation :	
			0-255	All Blade Rotation	
		69		All Blade Rotation Fine :	
			0-255	All Blade Rotation Fine	
46	44	70		Control, reset, internal programs:	
			0-4	unused	
			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	Silence fan control mode	
			31-32	Super Silence fan control mode	
			33-34	Constant Fans Off	
			35-36	Constant Fans On	
			37-44	unused	
			45-49	Square Law	
			50-54	Linear	
			55-58	1.2K	
			59-62	2.4K	
			63-66	16K	
			67-69	25K	
			70-74	Gobo correction Off	
			75-79	Gobo correction On	
			80-84	All motor reset	
			85-87	Scan motor reset	
			88-90	Colors motor reset	
			91-93	Gobo motor reset	
			94	unused	
			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 Fast	
			109-111	CMY speed Medium	
			112-114	CMY speed Slow	
			115-255	unused	

Mode/Channel	Value	Function
Domino Mode		
1		**PAN Movement 8bit :**
	0-255	Pan Movement
2		**Pan Fine 16bit**
	0-255	Fine control of Pan movement
3		**TILT Movement 8bit :**
	0-255	Tilt Movement
4		**Tilt Fine 16bit**
	0-255	Fine control of Tilt movement
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		**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		**Dimmer intensity:**
	0-255	Intensity 0 to 100%
8		**Fine Dimmer intensity:**
	0-255	Dimmer intensity fine
12		**Zoom :**
	0-255	Zoom adjustment from small to big
13		**Zoom Fine:**
	0-255	Zoom adjustment Fine
14		**Focus :**
	0-255	Continuous adjustment from near to far
15		**Focus Fine:**
	0-255	Continuous adjustment Fine
16		**Auto Focus :**
	0-50	Auto Focus Off
	51-100	5m
	101-150	7.5m
	151-200	10m
	201-255	15m

17		**AutoFocus Fine:**
	0-255	Continuous adjustment Fine
18		**Color Wheel:**
	0-3	Open / white
	4-7	Color 1
	8-11	Color 2
	12-15	Color 3
	16-19	Color 4
	20-23	Color 5
	24-27	Color 6
	28-127	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
20		**CTB/CRI:**
	0-63	Open
	64-127	CTB
	128-255	unused
21		**Cyan Color :**
	0-255	Cyan (0-white, 255-100% Cyan)
22		**Cyan Color Fine :**
	0-255	Cyan Fine
23		**Magenta Color :**
	0-255	Magenta (0-white, 255-100% magenta)
24		**Magenta Color Fine :**
	0-255	Magenta Fine
25		**Yellow Color :**
	0-255	Yellow (0-white, 255-100% Yellow)
26		**Yellow Color Fine :**
	0-255	Yellow Fine
27		**CTO Color :**
	0-255	CTO (0-white, 255-100% CTO)
28		**CTO Color Fine :**
	0-255	CTO Fine
9		Reserved
10		Reserved
11		Reserved
29		**Rotating gobos, cont. rotation 1:**
	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
	70-77	Rot. Gobo 7
	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
		Rotating gobo index,rotating gobo rotation 1:
	0-127	Gobo indexing
30	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
		Rotating gobos, cont. rotation 2:
	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
	70-77	Rot. Gobo 7
32	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

		Rotating gobo index,rotating gobo rotation 2:
33	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
34		Rotating gobo indexing Fine 2:
	0-255	Fine indexing
35		Animation wheel 1:
	0	open
	1-239	Animation indexing
	240-255	shake slow to fast
36		Animation wheel 1:
	0-7	No rotation
	8-127	Forwards rotation from fast to slow
	128-135	No rotation
	136-255	Backwards rotation from slow to fast
37		Animation wheel 2:
	0-7	open
	8-127	Forwards rotation from fast to slow
	128-135	No rotation
	136-255	Backwards rotation from slow to fast
38		Iris:
	0-191	Max. diameter to Min.diameter
	192-223	Pulse closing fast to slow
	224-255	Pulse opening slow to fast
39		Iris Fine:
	0-255	Iris Fine
40		Prism 1:
	0-127	Open
	128-255	5-Facet Prism
41		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
42		Rotating prism indexing Fine 1:
	0-255	Fine indexing
43		Prism 2:
	0-127	Open
	128-255	Linear Prism
44		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
45		**Rotating prism indexing Fine 2:**
	0-255	Fine indexing
46		**Frost 1:**
	0-255	0-100%
47		**Frost 2:**
	0-255	0-100%
48		**Blade 1A :**
	0-255	Open to Close
49		**Blade 1A Fine :**
	0-255	Open to Close Fine
50		**Blade 1B :**
	0-255	Open to Close
51		**Blade 1B Fine :**
	0-255	Open to Close Fine
52		**Blade 2A :**
	0-255	Open to Close
53		**Blade 2A Fine :**
	0-255	Open to Close Fine
54		**Blade 2B :**
	0-255	Open to Close
55		**Blade 2B Fine :**
	0-255	Open to Close Fine
56		**Blade 3A :**
	0-255	Open to Close
57		**Blade 3A Fine :**
	0-255	Open to Close Fine
58		**Blade 3B :**
	0-255	Open to Close
59		**Blade 3B Fine :**
	0-255	Open to Close Fine
60		**Blade 4A :**
	0-255	Open to Close
61		**Blade 4A Fine :**
	0-255	Open to Close Fine
62		**Blade 4B :**
	0-255	Open to Close
63		**Blade 4B Fine :**
	0-255	Open to Close Fine
64		**All Blade Rotation :**

	0-255	All Blade Rotation
65		**All Blade Rotation Fine :**
	0-255	All Blade Rotation Fine
66		**Control, reset, internal programs:**
	0-4	unused
	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	Silence fan control mode
	31-32	Super Silence fan control mode
	33-34	Constant Fans Off
	35-36	Constant Fans On
	37-44	unused
	45-49	Square Law
	50-54	Linear
	55-57	1.2K
	58-60	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	Scan motor reset
	88-90	Colors motor reset
	91-93	Gobo motor reset
	94	unused
	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 Fast
	109-111	CMY speed Medium
	112-114	CMY speed Slow
	115-255	unused

name (=DMX value)	color name
	Appendix:
EC003	LAVENDER TINT
EC004	MEDIUM BASTARD AMBER
EC007	PALE YELLOW
EC008	DARK SALMON
EC009	PALE AMBER GOLD
EC010	MEDIUM YELLOW
EC013	STRAW TINT
EC015	DEEP STRAW
EC017	SURPRISE PEACH
EC020	MEDIUM AMBER
EC021	GOLD AMBER
EC022	DARK AMBER
EC024	SCARLET
EC025	SUNSET RED
EC026	BRIGHT RED
EC029	PALSA RED
EC035	LIGHT PINK
EC036	MEDIUM PINK
EC046	DARK MAGENTA
EC048	DARK PURPLE
EC052	LIGHT LAVENDER
EC053	PALE LAVENDER
EC058	LAVENDER
EC063	PALE BLUE
EC068	SKY BLUE
EC071	TOKIO BLUE
EC075	EVENING BLUE
EC079	JUST BLUE
EC085	DEEPER BLUE
EC088	LIME GREEN
EC089	MOSS GREEN
EC090	DARKYELLOW GREEN
EC100	SPRING YELLOW
EC101	YELLOW
EC102	LIGHT AMBER
EC103	STRAW
EC104	DEEP AMBER
EC105	ORANGE
EC106	PRIMAY RED
EC107	LIGHT ROSE
EC108	ENGLISH ROSE
EC109	LIGHT SALMON
EC110	MIDDLE ROSE
EC111	DARK PINK
EC113	MAGENTA
EC116	MEDIUM BLUE GREEN

EC118	LIGHT BLUE
EC119	DARK BLUE
EC120	DEEP BLUE
EC124	DARK GREEN
EC126	MAUVE
EC127	SMOKEY PINK
EC128	BRIGHT PINK
EC132	MEDIUM BLUE
EC134	GOLDEN AMBER
EC136	PALE LAVENDER
EC137	SPECIAL LAVENDER
EC138	PALE GREEN
EC139	PRIMARY GREEN
EC140	SUMMER BLUE
EC141	BRIGHT BLUE
EC142	PALE VIOLET
EC143	PALE NAVY BLUE
EC147	APRICOT
EC148	BRIGHT ROSE
EC151	GOLD TINT
EC152	PALE GOLD
EC153	PALE SALMON
EC154	PALE ROSE
EC156	CHOCOLATE
EC158	DEEP ORANGE
EC159	NO COLOR STRAW
EC161	SLATE BLUE
EC162	BASTARD AMBER
EC164	FLAME RED
EC165	DAYLIGHT BLUE
EC169	LILAC TINT
EC170	DEEP LAVENDER
EC172	LAGOON BLUE
EC174	DARK STEEL BLUE
EC176	LOVING AMBER
EC179	CHROME ORANGE
EC180	DARK LAVENDER
EC181	CONGO BLUE
EC182	LIGHT RED
EC183	MOONLIGHT BLUE
EC192	FLESH PINK
EC193	ROSY AMBER
EC194	SURPRISE PINK
EC195	ZENITH BLUE
EC196	TRUE BLUE
EC197	ALICE BLUE
EC198	PALACE BLUE

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 1 wheel Er
(Focus 1 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 1 - movement is not located in the default position after the reset.

Focus 2 wheel Er
(Focus 2 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 2 - 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 1 wheel Er

(Animation 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 Animation 1 - movement is not located in the default position after the reset.

Animation 2 wheel Er

(Animation 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 Animation 2 - 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.

Prism_ Linear wheel Er

(Prism_ Linear 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_ Linear - 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.

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.

Animation_Rot 1 wheel Er
(Animation_Rot 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 Animation_Rot 1 - movement is not located in the default position after the reset.

Animation_Rot 2 wheel Er
(Animation_Rot 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 Animation_Rot 2 - movement is not located in the default position after the reset.

13. CLEANING AND MAINTENANCE

> ⚠️ **CAUTION!**
> **ALWAYS RUN AN IP TEST USING THE AYRTON IP TEST KIT FOLLOWING ANY MAINTENANCE OPERATION!**
> **FAILURE TO COMPLY WITH THIS CLAUSE WILL VOID THE WARRANTY !**

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 outside lens each week to avoid loss of output due to accumulation of dust/ dirt on the lens.
2) Clean the fans outside 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.

Head covers opening and closing procedure
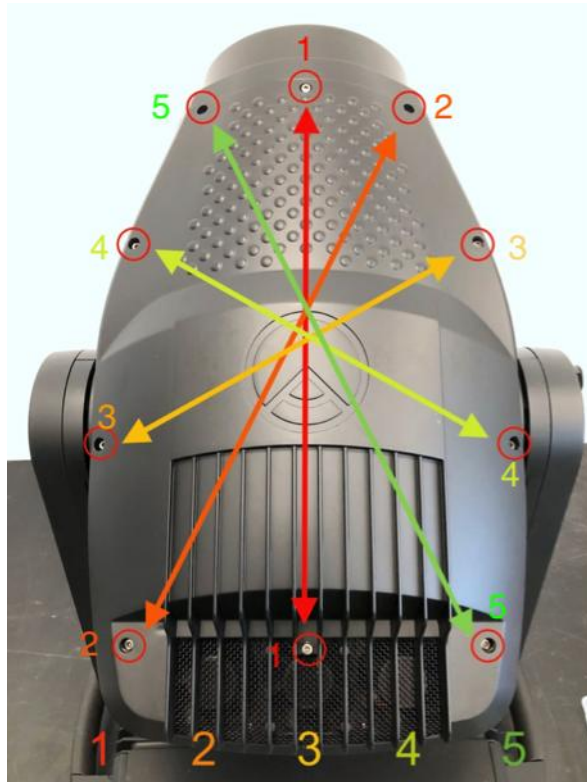
Check the cover gasket to avoid any leak due to a crack
Please, follow the order (1-5) to cross tightening the HEX screws at the right torque value.

Use a **Torque Screwdriver** set at **1,2Nm** (10,6in/lbf) to fasten correctly the (10) HEX head screws for each cover

Use the Ayrton IP TEST KIT to control the IP rating of the fixture.