AYRTON
Digital Lighting

VELOCE
PROFILE

User Manual

CONTENTS

CE UK CA RoHS

Keep This Manual For Future Needs

1. SAFETY INSTRUCTIONS

1.1 IMPORTANT SAFETY WARNINGS

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

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

⚡	**CAUTION!** HIGH VOLTAGE. RISK OF SEVERE OR FATAL ELECTRIC SHOCK.
🔌	**CAUTION!** ALWAYS DISCONNECT MAINS SUPPLY BEFORE REMOVING ANY FIXTURE COVERS.
⚠	**CAUTION!** NEVER LOOK DIRECTLY INTO THE LIGHT SOURCE. SENSITIVE PERSONS MAY SUFFER AN EPILEPTIC SHOCK.
☀	**CAUTION!** BLUE LIGHT HAZARD : RISK GROUP 2.
⚠	**CAUTION!** FIXTURE EXPOSED TO SALT WATER SHOULD NOT BE STORED IN ITS FOAM INSERT WITHOUT BEING CLEANED WITH FRESH WATER FIRST. IT IS BEST PRACTICE THAT FIXTURE BESTORED DRY.
♨	**CAUTION!** NEVER TOUCH THE DEVICE DURING OPERATION. COVERS MAY BE HOT.
FC	**CAUTION!** **WARNING:** CHANGES OR MODIFICATIONS TO THIS UNIT NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT. **NOTE:** THIS EQUIPMENT HAS BEEN TESTED AND FOUND TO COMPLY WITH THE LIMITS FOR A CLASS A DIGITAL DEVICE, PURSUANT TO PART 15 OF THE FCC RULES. THESE LIMITS ARE DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST HARMFUL INTERFERENCE WHEN THE EQUIPMENT IS OPERATED IN A COMMERCIAL ENVIRONMENT. THIS EQUIPMENT GENERATES, USES AND CAN RADIATE RADIO FREQUENCY ENERGY AND, IF NOT INSTALLED AND USED IN ACCORDANCE WITH THE INSTRUCTION MANUAL, MAY CAUSE HARMFUL INTERFERENCE TO RADIO COMMUNICATIONS. OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA IS LIKELY TO CAUSE HARMFUL INTERFERENCE IN WHICH CASE THE USER WILL BE REQUIRED TO CORRECT THE INTERFERENCE AT HIS OWN EXPENSE.

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 powerCON TrueOne 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 in 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.

Important: 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°C to 45°C.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.

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

2. FEATURES

POWER SUPPLY:
- AC100-240V~, 50/60Hz
- Power Consumption: 1000W

LIGHT SOURCE:

- LED: White LED 850W，8100±500K Color Temperature @ S
- Extremely long Life: >20,000H

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

COLORS:
- CMY+CTO color mixing, uniform, linear and speed can be adjustable
- CTP, with linear and adjustable CRI
- 1 Color wheel: 7 dichroic filters + open, indexable

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

FEATURES:
- 1 Control channel modes: 67 channels
- 2 Operation modes: DMX-512, Master / Slave mode
- Strobe effect with 1-25 flashes per second and pulse effect
- 2 Rotating Prisms: 5-facet circular and 4-facet linear
- 1 Animation effect: Black&White Animation, can make special dynamic effect
- Blades system
- Focus: Motorized focus
- Frost: 0%~100% linear change light frost and heavy frost
- Iris: 5%~100% linear change iris，pulse iris effect
- Dimmer: 0%~100% full range dimming

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

SOFTWARE:
- Upgrades: fast and convenient through DMX cable with DMX-512 controller
- Reset DMX address, 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: 39 kg

3. FIXTURE OVERVIEW

1) Front Lens	11) Pan Lock
2) Tilt Lock	12) Handle
3) Handle	13) Power In
4) NFC	14) Valve
5) Display	15) RJ45 In
6) Left-button	16) RJ45 Out
7) Down-button	17) DMX In
8) Center-button	18) DMX Out
9) Right-button	19) KLSTR
10) Up-button	
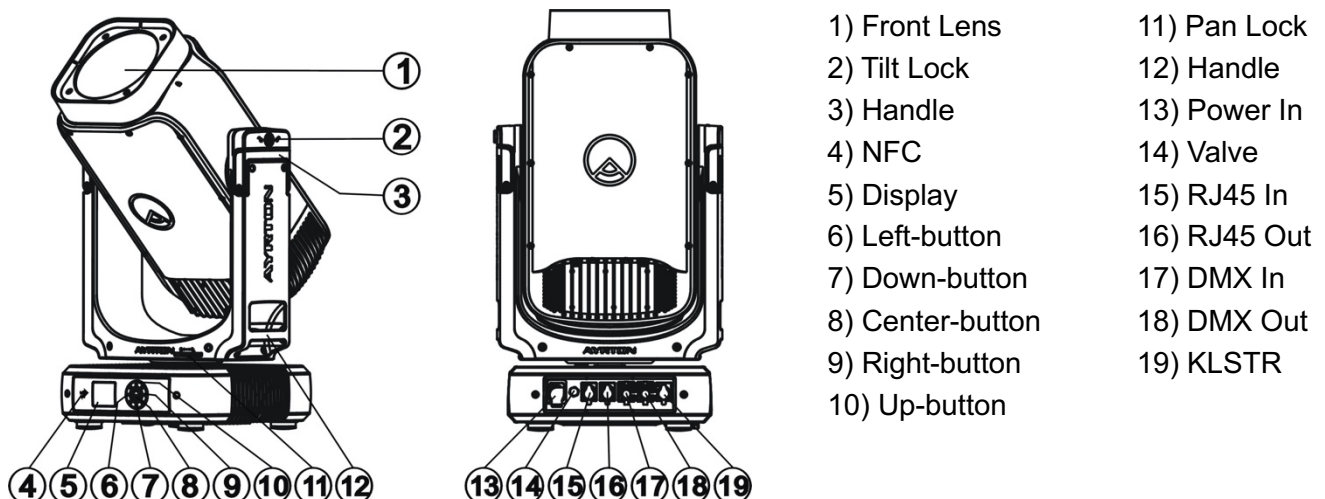
4. DRAWINGS

4.1. Fixture Dimension
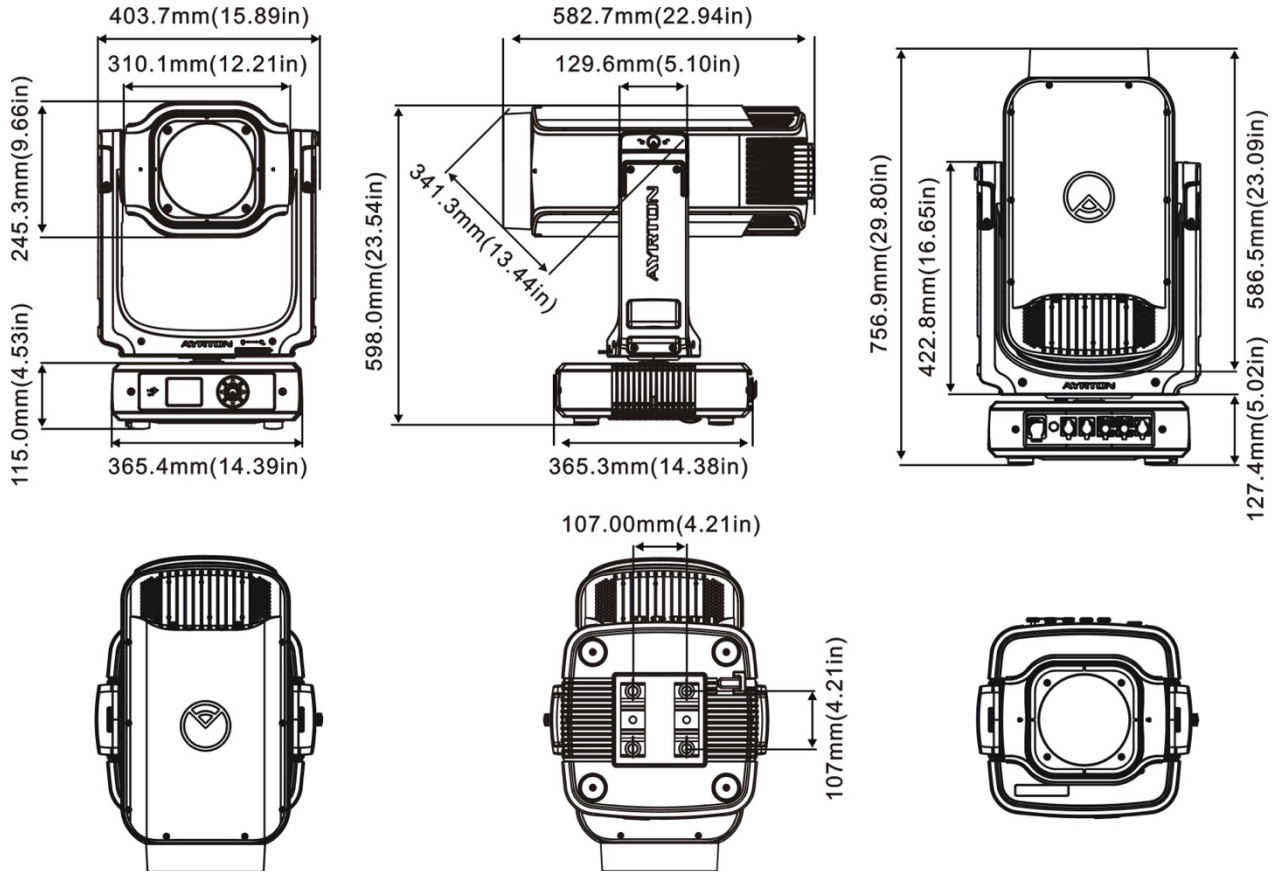
4.2. Color Wheel
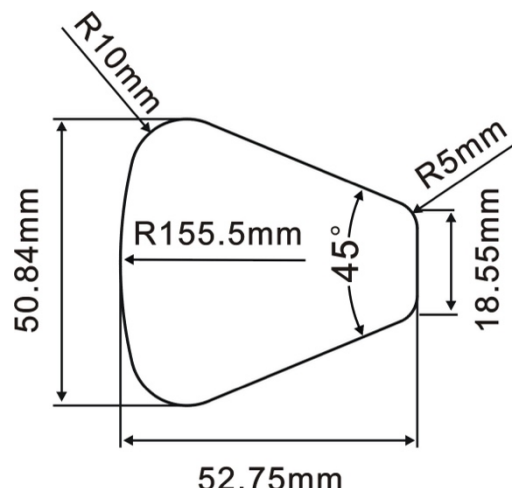
1. CTB1/4
   (6.03.05.03.2892)

2. Magenta
   (6.03.05.03.2893)

3. Congo Blue
   (6.03.05.03.2894-0-02)

4. Green
   (6.03.05.03.2895-0-02)

5. Orange
   (6.03.05.03.2896-0-02)

6. Blue
   (6.03.05.03.2897-0-02)

7. Red
   (6.03.05.03.2898-0-02)
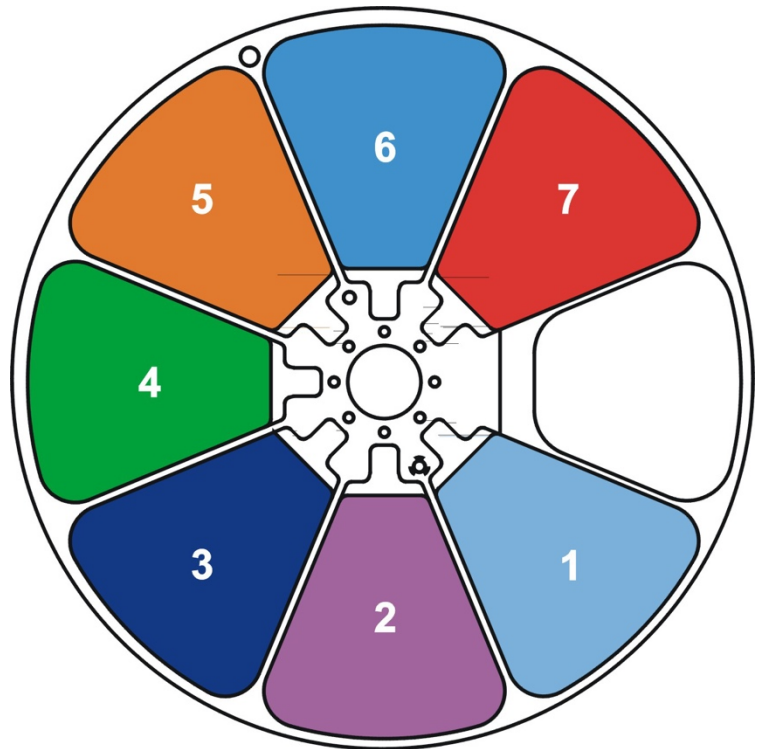
4.3. Rotating Gobo Wheel

Rotating Gobo:

Φ1.8mm $^{0}_{-0.15}$

Φ19mm
Image

Φ30mm $^{0}_{-0.15}$

Glass

Black & White Gobo:

1.1mm
Thickness
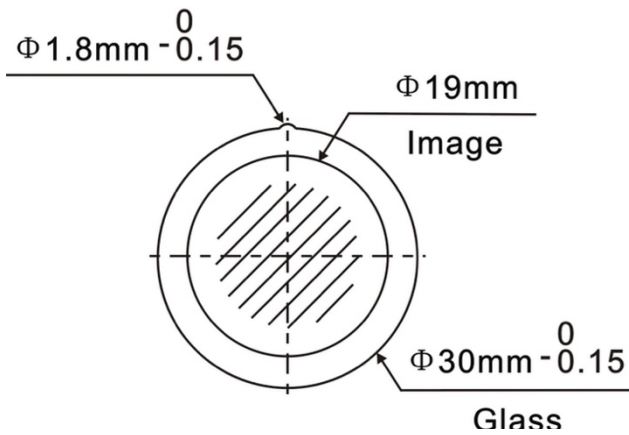
Rotating Gobo：

1. 130 – Dot Line 11
   (G0500190.A01-04)

2. 0745 – Star field
   (G0500194.A01-045)

3. 018 – Nested Triangle
   (G0500193.A01-04)

4. 039 – Infnite Stairs
   (G0500197.A01-04)

5. 278 – Bread Stix
   (G0500192.A01-04)

6. 070 – circle of sqare
   (G0500196.A01-04)

7. 112Y – Nested Rings Yellow
   (G0500195.A01-04)

$\Phi 1.8mm \, ^{0}_{-0.15}$

$\Phi 17mm$
Image

$\Phi 30mm \, ^{0}_{-0.15}$
Glass

Black & White Gobo:

1.1mm
Thickness
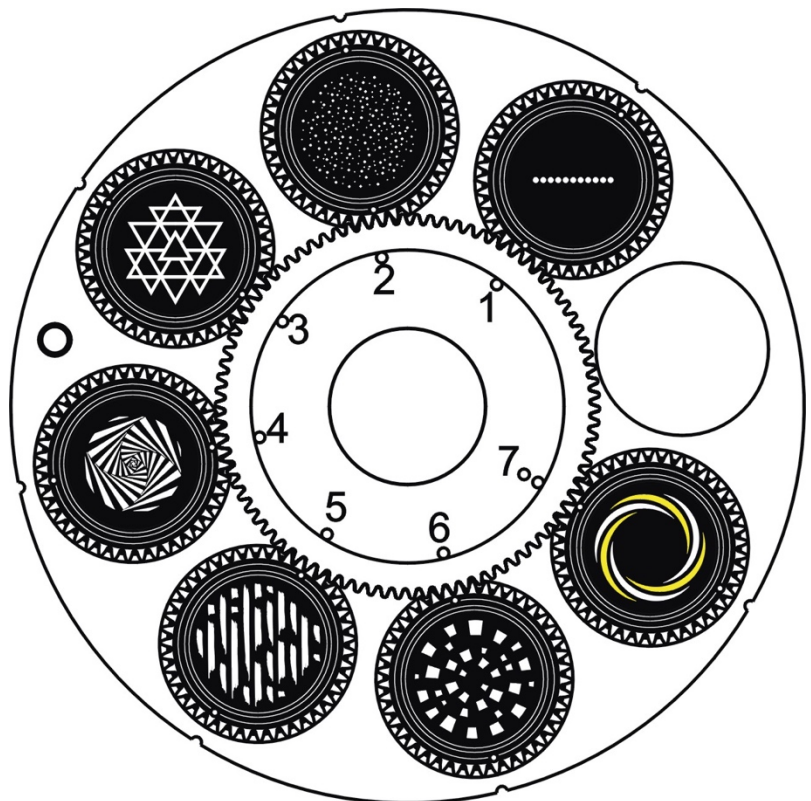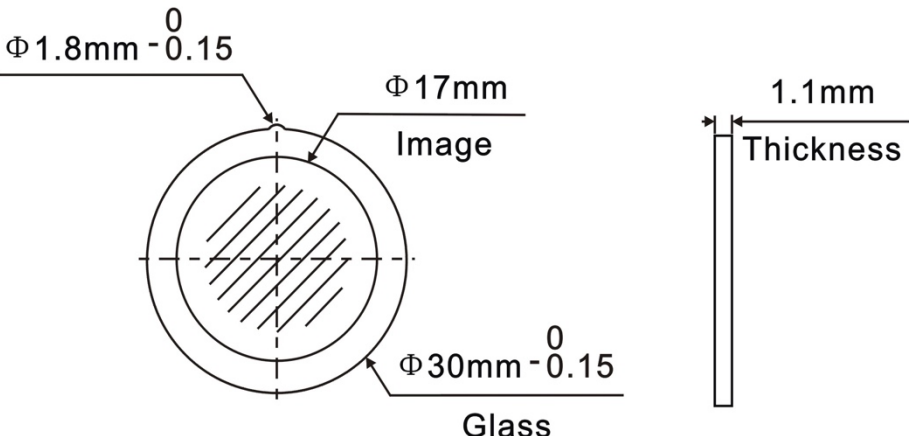
Fix Gobo：

1. 049 – Smoke Rings
    (G0500198.A01-04)

2. 047 – Fireworks
    (G0500199.A01-04)

3. 066 – Abstract Square
    (G0500200.A01-04)

4. 081 – Iron Filings
    (G0500201.A01-04)

5. 041 – Lost In The Brain
    (G0500202.A01-04)

6. 101 – Deep Forest
    (G0500203.A01-04)

7. 105 – Tree Bark
    (G0500204.A01-04)

4.4. Animation Dimension

Φ100mm

5. INSTALLATION INSTRUCTIONS

5.1. Rigging the device

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

- 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.
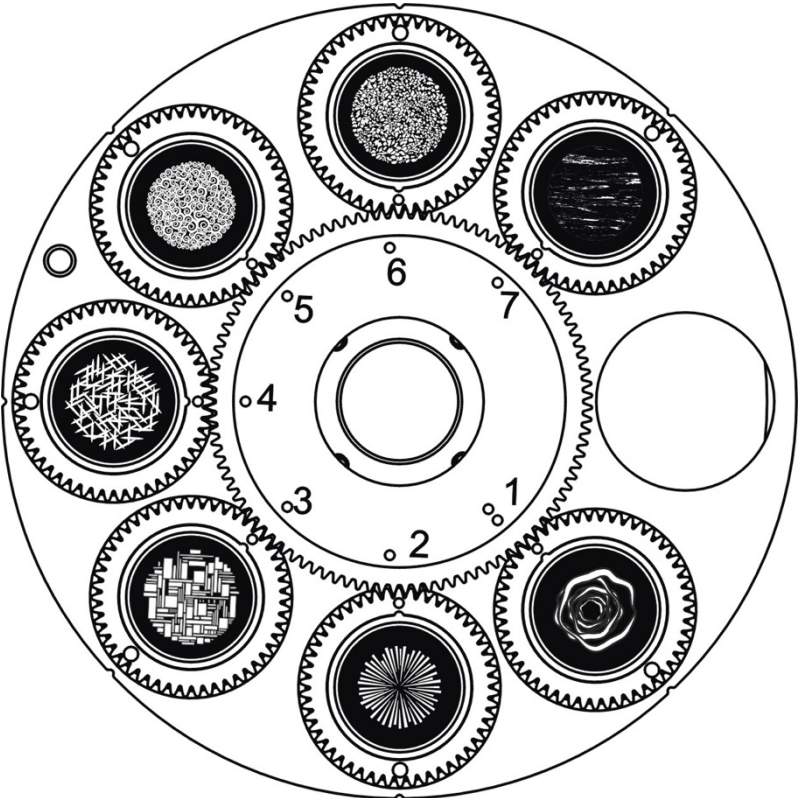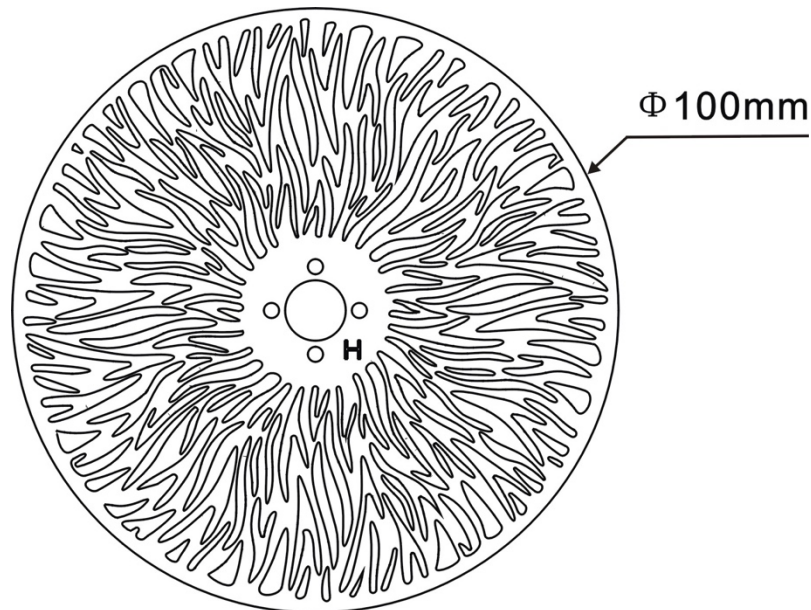- The installation must always be secured with a secondary safety attachment, e.g. an appropriate safety rope.
- Never stand directly below the device when mounting, removing or servicing the fixture.
- The operator has to make sure the safety relating and machine technical installations are approved 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

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

- Fix the clamp to the bracket by tightening the M12 nut and bolt to the bracket through the Φ13 hole in the middle of the bracket.
- Insert the quick-lock fasteners of the first Omega holder into the respective holes on the bottom of the device. Tighten the quick-lock fasteners fully clockwise.
- Install the second Omega holder.
- Pull the safety cable through the holes on the bottom of the base and over the trussing system or another suitable rigging point. Insert the end into the carabiner and tighten the

safety screw.
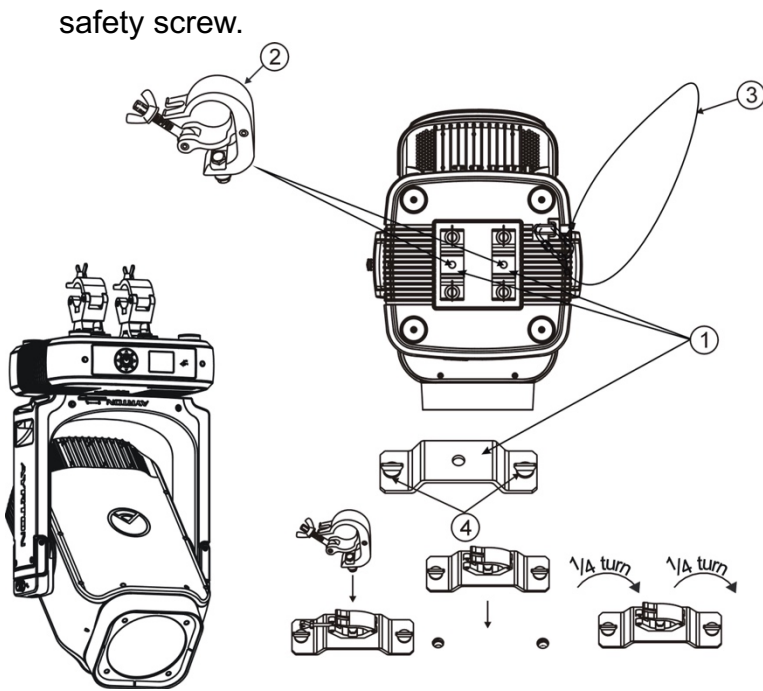
1) Omega bracket

2) Clamp

3) Safety rope

4) Quick-lock fastener

5.3. RIGGING DRAWINGS

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.
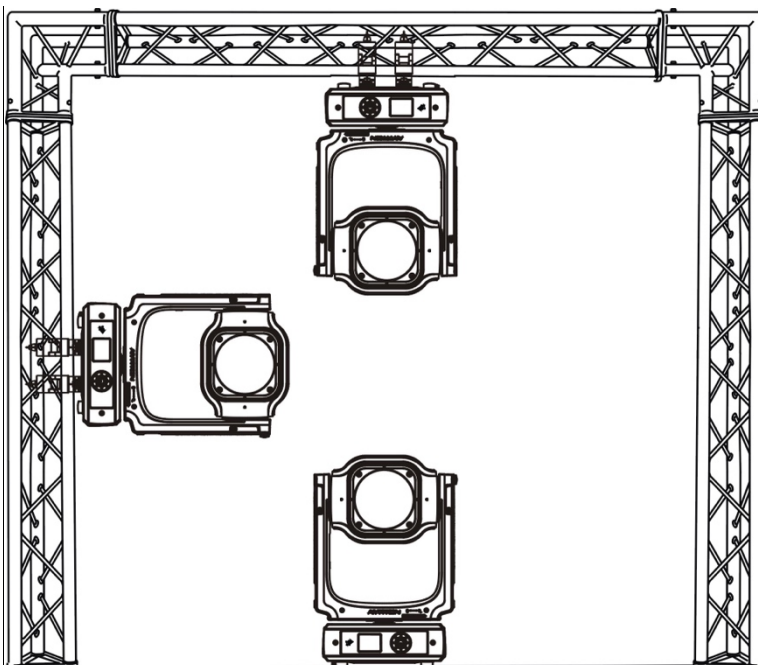
- Be sure this fixture is kept at least 0.1m away from any flammable materials (decoration etc.).
- Always use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.
- Rig the projector high enough to provide clearance for people who may walk beneath the beam path or establishing a restricted access area that extends beyond the beam hazard distance.

- Warnings! Please DO NOT let other external intense lights to shine through the fixture front lens, it may cause significant internal damages!
- When install fixture outdoor at day time (with power off), please make sure that the fixture front lens is NOT facing the sun.
- When use fixture outdoor at day time (with power on), please avoid fixture front lens facing the sun.
- When fixture is on standby outdoor at day time (with power on), please make sure the "sun

protection" mode is ON (default).

6. DMX-512 CONTROL CONNECTION

Connect the provided male side of the XLR cable to the female XLR output of your controller and the female side of the XLR cable to the male XLR input of the device. You can connect multiple devices together in a serial fashion. The cable needed should be two core, screened cable with XLR input and output connectors. Please refer to the diagram below.

DMX Output
5-Pin XLR Socket

DMX Input
5-Pin XLR Socket

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

DMX512 ⇒
DMX-controller

120 Ohms

Address 1   Address 68   Address 135
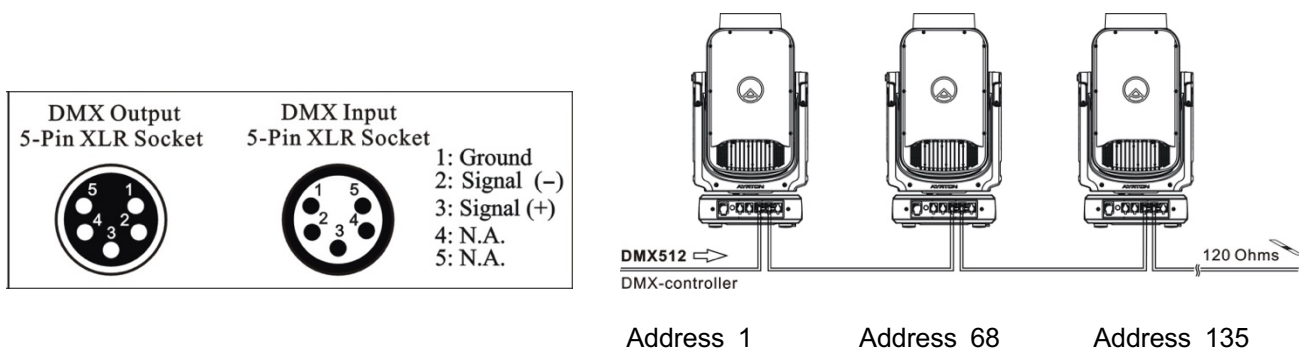
7. DMX-512 CONNECTION WITH DMX TERMINATOR

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.
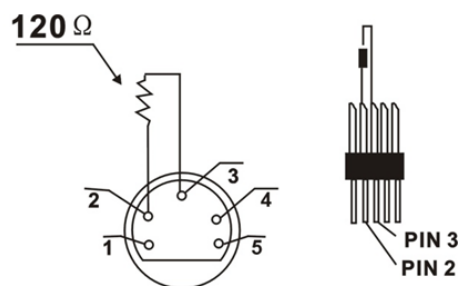
8. DEVICE DMX START ADDRESS SELECTION

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 67 channel mode, you should set the starting address of the first unit to 1, the second unit to 68 (67 + 1), the third unit to 135 (67+ 68), and so on.

9. OPERATING 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 Decimal Universe：XXXXX Net：XX Sub-Net：X Universe：X Signal：DMX/WDMX/Art-Net/sACN	DMX Address Decimal Universe Net Sub-Net Universe Signal
Mode	User Mode	Extend Mode	User's mode

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
		Tilt Degree	270/540	Tilt Degree Select
		Feedback	ON/OFF	Movement Feedback
		Encoder Select	Photoelectric/Magnet	Encoder Select
		Init PAN	ON/OFF	Init PAN
		Init TILT	ON/OFF	Init TILT
		Prerig INIT	ON/OFF	Prerig INIT
		Reset Mode	Fast/All Rot Gobos	Reset Mode
		Pan/Tilt Spd	Fast/Medium/Slow/FS Mode	Movement Speed
		CMY Spd	Fast/Medium/Slow	CMY Spd
		Zoom/Focus Spd	Fast/Medium/Slow	Zoom/Focus Spd
		Reset LED Fade	ON/OFF	Reset LED Fade
		Hibernation	OFF , 01M~99M	Stand by Mode
		DMX Output	ON/OFF	DMX Output
		Data Collect	Agree/Disagree	Data Collect
	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
		Reset From Mac	ON/OFF	Reset From Mac
		DHCP	ON/OFF	DHCP
		Iot Lock Enable	ON/OFF	Iot Lock Enable
		Cross Load SW	ON/OFF	Cross Load SW
		Clr Error Info	ON/OFF	Clr LED Timer
	Fans Control	Fans Speed	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
	Temp. C/F	Celsius Fahrenheit		Temperature switch between ℃/℉
	Initial Pos.	PAN =XXX		Initial effect position
	Wireless DMX	Activate WDMX Rest WDMX		Activate WDMX Rest WDMX
	Dim Curve	Square Law Linear		
	Refresh Select	1.2K 2.4K 16K 25K		Refresh Select

	Defog	OFF Auto ON		Defog off Defog auto Defog oon
	Gobo Correction	OFF Cyan CTB		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…… Slave 1, Slave 2, Slave 3 Master/Alone	DMX Value Disp. Set to Slave Auto Program
	Reset Default	ON/OFF		Restore factory set.
	Reset User	Address	DMX address:001-XXX Decimal Universe:XXXXX Net:XX Sub-Net:X Universe:X Signal :DMX/WDMX/Art-Net/ sACN	DMX Address Decimal Universe Net Sub-Net Universe Signal
		Mode	Extend Mode	User's mode
		Fans Speed	Auto Stage Silence Super Silence	Fans Speed select
		Constant Fans	ON/OFF	Constant Fans
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℃/℉
	Humidity	x%		Humidity
	Encoder Info	xxx		Encoder Info
	Fan Info.	xxxx RPM		Fan information
	LED Type	xxx		LED Type
	Software Ver	V1.0……		Software version
	Signal Quality	xxx		Signal Quality Information
	Network	IP,Mask,Mac		Network
	Error Info.	Error Record 1 :		Error Info.
	SN	Product:xxxxx…		SN

		LED:xxxxx…	
	RDM UID	UID: xxxx-xxxxxxxx	RDM UID
Test	Home	All Pan&Tilt Color Gobo Other	All Pan&Tilt Color Gobo Othe
	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
	Cmy Comp	Service PIN C M :	Cmy Comp
	Magn Auto Cal	-Password- Calibration	Magn Auto Cal
	Magn P/T 50%	-Password- PAN TILT Calibration	Magn P/T 50%
	Gobo Replace	Gobo Wheel 1 Gobo Wheel 2	Gobo Replace
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. Address
With this function, you can adjust the DMX address.
1. Double-click the center button to access the main menu.
2. Tap the <Up/Down> button until "Address" is displayed.
3. Double-click the center button to access "Address", Tap the <Up/Down> button to select "Main".
4. Double-click the center button to access "Address" menu, The display will show "DMX Address：001-XXX"、"Decimal Universe：XXXXX"、"Net：XX"、"Sub-Net：X"、"Universe：X"、"Signal： 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.

10.2 Mode
10.2.1. User Mode
With this function，you can create user defined channel orders.
1．Double-click the center button to access main menu；Tap the <Up/Down> button until "Mode" is displayed. Double-click the center button to enter.
2．Press <Up/Down>，the display will show "User Mode".
3．Double-click the center button to enter.
4．When in "Extend Mode"，Press <Up/Down> button to select "Extend Mode"，"Rivale 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 user defined channel order.
1．Double-click the center button to access main menu；Tap the <Up/Down> button until "Mode" is displayed. Double-click the center button to enter.
2．Press <Up/Down>，the display will show "Edit User Mode".
3．Double-click the 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, you can choose the unit behavior in case no signal is detected between close，hold, and Auto.
1. Double-click the center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options"，Tap the <Up/Down> button to select "Status".
4. Double-click the center button to access "Status" menu，Tap the <Up/Down> button to select "No DMX Status".
5. Double-click the 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
When this function is activated, the unit will automatically tilt down its head toward the ground when no signal is detected.
1. Double-click the center button to access the main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options"，Tap the <Up/Down> button to select "Status".
4. Double-click the center button to access the "Status" menu，Tap the <Up/Down> button to select "Sun Protection".
5. Double-click the 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-click the center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options"，Tap the <Up/Down> button to select "Status".
4. Double-click the center button to access "Status" menu，Tap the <Up/Down> button to select "Pan Reverse".
5. Double-click the center button to access "Pan Reverse"， 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.

Tilt Reverse

With this function, you can reverse the Tilt-movement.
1. Double-click the center button to access the main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options"，Tap the <Up/Down> button to select "Status".
4. Double-click the center button to access "Status" menu，Tap the <Up/Down> button to select "Tilt Reverse".
5. Double-click the center button to access "Tilt Reverse"， 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.

Pan Degree

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

Tilt Degree

With this function, you can select Tilt degree for 270 or 540.
1. Double-click the center button to access the main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options"，Tap the <Up/Down> button to select "Status".
4. Double-click the center button to access "Status" menu，Tap the <Up/Down> button to select "Tilt Degree".
5. Double-click the center button to access "Tilt Degree"，The display will show "270"，Tap the <Up/Down> button to select"540".

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

Feedback

This function allows you to activate or deactivate the automatic repositioning of the Pan & Tilt in case of an accidental/manual move of the yoke.

1. Double-click the center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options", Tap the <Up/Down> button to select "Status".
4. Double-click the center button to access "Status" menu, Tap the <Up/Down> button to select "Feedback".
5. Double-click the 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.

Encoder Select

1. Double-click the center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options", Tap the <Up/Down> button to select "Status".
4. Double-click the center button to access "Status" menu, Tap the <Up/Down> button to select "Encoder Select".
5. Double-click the center button to access "Encoder Select", The display will show "Magnet", Tap the <Up/Down> button to select "Photoelectric".
6. Double-click the center button to confirm or long press the center button to return to the main menu.

Init PAN

This function allows you to deactivate the Pan movement.

1. Double-click the center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options", Tap the <Up/Down> button to select "Status".
4. Double-click the center button to access "Status" menu, Tap the <Up/Down> button to select "Init PAN".
5. Double-click the 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

This function allows you to deactivate the Tilt movement.

1. Double-click the center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options", Tap the <Up/Down> button to select "Status".
4. Double-click the center button to access "Status" menu, Tap the <Up/Down> button to select "Init TILT".
5. Double-click the 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.

Prerig INIT

Allows you to activate a special init process: Pan init then Tilt init process when unit is used in prerig trusses
1. Double-click the center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options"，Tap the <Up/Down> button to select "Status".
4. Double-click the center button to access "Status" menu，Tap the <Up/Down> button to select "Prerig INIT".
5. Double-click the center button to access "Prerig INIT"，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.

Reset Mode

Allows you to choose between fast reset on complete gobo index reset (longer)
1. Double-click the center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options"，Tap the <Up/Down> button to select "Status".
4. Double-click the center button to access "Status" menu，Tap the <Up/Down> button to select "Reset Mode".
5. Double-click the 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 Pan & Tilt speed from "Fast"，"Medium"，"Slow".
1. Double-click the center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options"，Tap the <Up/Down> button to select "Status".
4. Double-click the center button to access "Status" menu，Tap the <Up/Down> button to select "Pan/Tilt Spd".
5. Double-click the center button to access "Pan/Tilt Spd"，The display will show "Fast"，Tap the <Up/Down> button to select "Fast"，"Medium"，"Slow"，"FS Mode".
6. Double-click the center button to confirm or long press the center button to return to the main menu.

CMY Spd
1. Double-click the center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options"，Tap the <Up/Down> button to select "Status".
4. Double-click the center button to access "Status" menu，Tap the <Up/Down> button to select "CMY Spd".
5. Double-click the center button to access "CMY 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.

Zoom/Focus Spd
1. Double-click the center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options", Tap the <Up/Down> button to select "Status".
4. Double-click the center button to access "Status" menu, Tap the <Up/Down> button to select "Zoom/Focus Spd".
5. Double-click the 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.

Reset LED Fade
Allows the Light output to fade out and in during the reset process
1. Double-click the center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options", Tap the <Up/Down> button to select "Status".
4. Double-click the center button to access "Status" menu, Tap the <Up/Down> button to select "Reset LED Fade".
5. Double-click the center button to access "Reset LED Fade", 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.

Hibernation
The device and stepper motors will be powered off if the unit stays without DMX signal for 15 mins (Factory default). The fixture will perform a reset sequence once DMX is back.
1. Double-click the center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options", Tap the <Up/Down> button to select "Status".
4. Double-click the center button to access "Status" menu, Tap the <Up/Down> button to select "Hibernation".
5. Double-click the 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
1. Double-click the center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options", Tap the <Up/Down> button to select "Status".
4. Double-click the center button to access "Status" menu, Tap the <Up/Down> button to select "DMX Output".
5. Double-click the 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.

Data Collect

1. Double-click the center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options"，Tap the <Up/Down> button to select "Status".
4. Double-click the center button to access "Status" menu，Tap the <Up/Down> button to select "Data Collect".
5. Double-click the center button to access "Data Collect"，The display will show "Disagree"，Tap the <Up/Down> button to select "Agree".
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-click the center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options"，Tap the <Up/Down> button to select "Service PIN".
4. Double-click the center button to access "Service PIN" menu，Tap the <Up/Down> button to select "Set IP".
5. Double-click the 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-click the center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options"，Tap the <Up/Down> button to select "Service PIN".
4. Double-click the center button to access "Service PIN" menu，Tap the <Up/Down> button to select "Set Mask IP".
5. Double-click the 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.

Reset From Mac
1. Double-click the center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options"，Tap the <Up/Down> button to select "Service PIN".
4. Double-click the center button to access "Service PIN" menu，Tap the <Up/Down> button to select "Reset From Mac".
5. Double-click the center button to access "Reset From Mac"，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.

DHCP
1. Double-click the center button to access main menu.

2. Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options", Tap the <Up/Down> button to select "Service PIN".
4. Double-click the center button to access "Service PIN" menu, Tap the <Up/Down> button to select "DHCP".
5. Double-click the center button to access "DHCP", 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.

Iot Lock Enable
1. Double-click the center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options", Tap the <Up/Down> button to select "Service PIN".
4. Double-click the center button to access "Service PIN" menu, Tap the <Up/Down> button to select "Iot Lock Enable".
5. Double-click the center button to access "Iot Lock Enable", 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.

Cross Load SW
This function allows you to upload the current SW version to other units using a DMX connection. Do not disconnect the units before the process is done.
1. Double-click the center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options", Tap the <Up/Down> button to select "Service PIN".
4. Double-click the center button to access "Service PIN" menu, Tap the <Up/Down> button to select "Cross Load SW".
5. Double-click the 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 Error Info
1. Double-click the center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options", Tap the <Up/Down> button to select "Service PIN".
4. Double-click the center button to access "Service PIN" menu, Tap the <Up/Down> button to select "Clr Error Info".
5. Double-click the center button to access "Clr Error Info", 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 fans speed. Settings are Auto, Stage, Silence, and Super Silence.
1. Double-click the center button to access main menu.

2. Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options"，Tap the <Up/Down> button to select "Fans Control".
4．Double-click the center button to access "Fans Control" menu，Tap the <Up/Down> button to select "Fans Speed".
5．Double-click the center button to access "Fans Speed I"，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
Allows you to choose that the fans run continuously even when the LED is off.
1. Double-click the center button to access main menu.
2．Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options"，Tap the <Up/Down> button to select "Fans Control".
4．Double-click the center button to access "Fans Control" menu，Tap the <Up/Down> button to select "Constant Fans".
5．Double-click the 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 select the delay before the LCD display turns off. Choose between 2 to 60 minutes. The default is 5 minutes.
1. Double-click the center button to access main menu.
2．Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options"，Tap the <Up/Down> button to select "Display Setting".
4．Double-click the center button to access "Display Setting" menu，Tap the <Up/Down> button to select "Shut off Time".
5．Double-click the 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° (when the unit is rigged)
1. Double-click the center button to access main menu.
2．Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options"，Tap the <Up/Down> button to select "Display Setting".
4．Double-click the center button to access "Display Setting" menu，Tap the <Up/Down> button to select "Flip Display".
5．Double-click the 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-click the center button to access main menu.
2．Tap the <Up/Down> button until "Options" is displayed.
3．Double-click the center button to access "Options"，Tap the <Up/Down> button to select "Display Setting".
4．Double-click the center button to access "Display Setting" menu，Tap the <Up/Down> button to select "Key Lock".
5．Double-click the 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 activated, display will flash if no signal is detected.

1．Double-click the center button to access main menu.
2．Tap the <Up/Down> button until "Options" is displayed.
3．Double-click the center button to access "Options"，Tap the <Up/Down> button to select "Display Setting".
4．Double-click the center button to access "Display Setting" menu，Tap the <Up/Down> button to select "DispFlash".
5．Double-click the 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. Temperature C/F

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

1．Double-click the center button to access main menu.
2．Tap the <Up/Down> button until "Options" is displayed.
3．Double-click the center button to access "Options"，Tap the <Up/Down> button to select "Temperature C/ F".
4．Double-click the 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.

10.3.6. Initial Pos.

With this function you can display initial effect position.

1．Double-click the center button to access main menu.
2．Tap the <Up/Down> button until "Options" is displayed.
3．Double-click the center button to access "Options"，Tap the <Up/Down> button to select "Initial Pos.".
4．Double-click the 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.

10.3.7. Wireless

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

1. Double-click the center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options", Tap the <Up/Down> button to select "Wireless".
4. Double-click the center button to access "Wireless", 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.

10.3.8. Dim Curve
1. Double-click the center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options", Tap the <Up/Down> button to select "Dim Curve".
4. Double-click the 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.

10.3.9. Refresh Select
With this function you can select the PWM rate.
1. Double-click the center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options", Tap the <Up/Down> button to select "Refresh Select".
4. Double-click the 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.

10.3.10. Defog
When this function activated, head fans will run continuously to help removing the potential condensation
1. Double-click the center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options", Tap the <Up/Down> button to select "Defog".
4. Double-click the center button to access "Defog", The display will show "Auto", Tap the <Up/Down> button to select "OFF", "Auto", "ON".
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
When this function is activated, color flag correction will be added when a gobo is used in white, to correct the color shifting.
1. Double-click the center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options", Tap the <Up/Down> button to select "Gobo Correction".
4. Double-click the center button to access "Gobo Correction", The display will show "Cyan", Tap the <Up/Down> button to select "OFF", "Cyan", "CTB".
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-click the center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options"，Tap the <Up/Down> button to select "Reset P/T Fade".
4. Double-click the 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-click the center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options"，Tap the <Up/Down> button to select "Frost(Progressive)".
4. Double-click the 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-click the center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options"，Tap the <Up/Down> button to select "Trigger".
4. Double-click the center button to access "Trigger" menu，Tap the <Up/Down> button to select "DMX Value Disp".
5. Double-click the 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-click the center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options"，Tap the <Up/Down> button to select "Trigger".
4. Double-click the center button to access "Trigger" menu，Tap the <Up/Down> button to select "Set To Slave".
5. Double-click the 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-click the center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options"，Tap the <Up/Down> button to select "Trigger".
4. Double-click the center button to access "Trigger" menu，Tap the <Up/Down> button to select "Auto Program".
5. Double-click the 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-click the center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options"，Tap the <Up/Down> button to select "Reset Default".
4. Double-click the 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.

10.3.16. Reset User
Allows you to set default User settings
Address
1. Double-click the center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options"，Tap the <Up/Down> button to select "Reset User".
4. Double-click the center button to access "Reset User" menu，Tap the <Up/Down> button to select "Address".
5. Double-click the center button to access "Address"，The display will show "DMX Address：001-XXX"、"Decimal Universe：XXXXX"、"Net：XX"、"Sub-Net：X"、"Universe：X"、"Signal：DMX/WDMX/Art-Net/sACN".
6. Double-click the center button to confirm or long press the center button to return to the main menu.

Mode
1. Double-click the center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options"，Tap the <Up/Down> button to select "Reset User".
4. Double-click the center button to access "Reset User" menu，Tap the <Up/Down> button to select "Mode".
5. Double-click the center button to access "Mode"，The display will show "Extend Mode". Tap the <Up/Down> button to select "Rivale Mode"，"User Mode A"，"User Mode B" and "User Mode C".
6. Double-click the center button to confirm or long press the center button to return to the main menu.

Fans Speed

1. Double-click the center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options", Tap the <Up/Down> button to select "Reset User".
4. Double-click the center button to access "Reset User" menu, Tap the <Up/Down> button to select "Fans Speed".
5. Double-click the 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-click the center button to access main menu.
2. Tap the <Up/Down> button until "Options" is displayed.
3. Double-click the center button to access "Options", Tap the <Up/Down> button to select "Reset User".
4. Double-click the center button to access "Reset User" menu, Tap the <Up/Down> button to select "Constant Fans".
5. Double-click the 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.

10.4   Info
10.4.1. Time Info.
Current Time
With this function, you can display the temporary running time of the device from the last power on. The display shows "XXXX", "XXXX" stands for the number of hours. The counter is reset after turning the device off.
1. Double-click the center button to access main menu.
2. Tap the <Up/Down> button until "Info" is displayed.
3. Double-click the center button to access "Info", Tap the <Up/Down> button to select "Time Info.".
4. Double-click the center button to access "Time Info.", Tap the <Up/Down> button to select "Current Time".
5. Double-click the 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-click the center button to access main menu.
2. Tap the <Up/Down> button until "Info" is displayed.
3. Double-click the center button to access "Info", Tap the <Up/Down> button to select "Time Info.".
4. Double-click the center button to access "Time Info.", Tap the <Up/Down> button to select "Ttl Life Hrs".
5. Double-click the 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-click the center button to access main menu.
2. Tap the <Up/Down> button until "Info" is displayed.
3. Double-click the center button to access "Info"，Tap the <Up/Down> button to select "Time Info.".
4. Double-click the center button to access "Time Info."，Tap the <Up/Down> button to select "Last Run Hrs".
5. Double-click the 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-click the center button to access main menu.
2. Tap the <Up/Down> button until "Info" is displayed.
3. Double-click the center button to access "Info"，Tap the <Up/Down> button to select "Time Info.".
4. Double-click the center button to access "Time Info."，Tap the <Up/Down> button to select "LED Hours".
5. Double-click the 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-click the center button to access main menu.
2. Tap the <Up/Down> button until "Info" is displayed.
3. Double-click the center button to access "Info"，Tap the <Up/Down> button to select "Time Info.".
4. Double-click the center button to access "Time Info."，Tap the <Up/Down> button to select "Timer PIN".
5. Double-click the 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-click the center button to access main menu.
2. Tap the <Up/Down> button until "Info" is displayed.
3. Double-click the center button to access "Info"，Tap the <Up/Down> button to select "Time Info.".
4. Double-click the center button to access "Time Info."，Tap the <Up/Down> button to

select "Clear Last Run".

5. Double-click the 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-click the center button to access main menu.
2. Tap the <Up/Down> button until "Info" is displayed.
3. Double-click the center button to access "Info"，Tap the <Up/Down> button to select "Temp Info".
4. Double-click the center button to access "Time Info."，The display will show "XXX °C/ °F".
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-click the center button to access main menu.
2. Tap the <Up/Down> button until "Info" is displayed.
3. Double-click the center button to access "Info"，Tap the <Up/Down> button to select "Humidity".
4. Double-click the 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. Encoder Info

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

10.4.5. Fan Info.

With this function，you can display the fans speed of the unit.

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

10.4.6. LED Type

1. Double-click the center button to access main menu.
2. Tap the <Up/Down> button until "Info" is displayed.
3. Double-click the center button to access "Info"，Tap the <Up/Down> button to select "LED Type".
4. Double-click the center button to access "LED Type"，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.

10.4.7. Software Ver
With this function，you can display the software version of the device.
1. Double-click the center button to access main menu.
2. Tap the <Up/Down> button until "Info" is displayed.
3. Double-click the center button to access "Info"，Tap the <Up/Down> button to select "Software Ver".
4. Double-click the center button to access "Software Ver"，The display will show "Ver x.x.x".
5. Double-click the center button to confirm or long press the center button to return to the main menu.

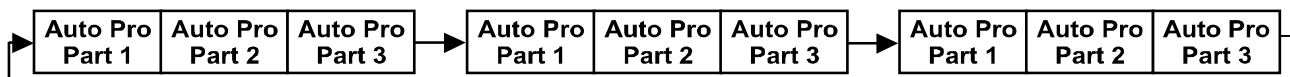### 10.4.8. Signal Quality
1. Double-click the center button to access main menu.
2. Tap the <Up/Down> button until "Info" is displayed.
3. Double-click the center button to access "Info"，Tap the <Up/Down> button to select "Signal Quality".
4. Double-click the center button to access "Signal Quality"，The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

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

10.4.10. Error Info
1. Double-click the center button to access main menu.
2. Tap the <Up/Down> button until "Info" is displayed.
3. Double-click the center button to access "Info"，Tap the <Up/Down> button to select "Error Info".
4. Double-click the center button to access "Error Info"，The display will show "Error Record 1"，"......"，"Error Record 10".
5. Double-click the center button to confirm or long press the center button to return to the main menu.

10.4.11. SN
1. Double-click the center button to access main menu.
2. Tap the <Up/Down> button until "Info" is displayed.
3. Double-click the center button to access "Info"，Tap the <Up/Down> button to select "SN".
4. Double-click the center button to access "SN"，The display will show "Product:xxxxx…"，"LED:xxxxx…".
5. Double-click the center button to confirm or long press the center button to return to the main menu.

10.4.12. RDM UID

1. Double-click the center button to access main menu.
2. Tap the <Up/Down> button until "Info" is displayed.
3. Double-click the center button to access "Info", Tap the <Up/Down> button to select "RDM UID".
4. Double-click the center button to access "RDM UID", The display will show "UID: xxxx-xxxxxxxx".
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 buttons. You can select the different reset functions using the buttons.
1. Double-click the center button to access main menu.
2. Tap the <Up/Down> button until "Test" is displayed.
3. Double-click the center button to access "Test", Tap the <Up/Down> button to select "Home".
4. Double-click the 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-click the center button to access main menu.
2. Tap the <Up/Down> button until "Test" is displayed.
3. Double-click the center button to access "Test", Tap the <Up/Down> button to select "Test Channel".
4. Double-click the 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
Allows you to manually control each feature of the unit
1. Double-click the center button to access main menu.
2. Tap the <Up/Down> button until "Test" is displayed.
3. Double-click the center button to access "Test", Tap the <Up/Down> button to select "Manual control".
4. Double-click the 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-click the center button to access main menu.
2. Tap the <Up/Down> button until "Test" is displayed.
3. Double-click the center button to access "Test", Tap the <Up/Down> button to select "Calibration".
4. Double-click the 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. Cmy Comp
1．Double-click the center button to access main menu.
2．Tap the <Up/Down> button until "Test" is displayed.
3．Double-click the center button to access "Test"，Tap the <Up/Down> button to select "Calibration".
4．Double-click the center button to access "Cmy Comp"，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.

10.5.6. Magn Auto Cal
1．Double-click the center button to access main menu.
2．Tap the <Up/Down> button until "Test" is displayed.
3．Double-click the center button to access "Test"，Tap the <Up/Down> button to select "Magn Auto Cal".
4．Double-click the center button to access "Magn Auto Cal"，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.

10.5.7. Magn P/T 50%
1．Double-click the center button to access main menu.
2．Tap the <Up/Down> button until "Test" is displayed.
3．Double-click the center button to access "Test"，Tap the <Up/Down> button to select "Magn P/T 50%".
4．Double-click the center button to access "Magn P/T 50%"，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.

10.5.8. Gobo Replace
1．Double-click the center button to access main menu.
2．Tap the <Up/Down> button until "Test" is displayed.
3．Double-click the center button to access "Test"，Tap the <Up/Down> button to select "Gobo Replace".
4．Double-click the 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-click the center button to access main menu.
2．Tap the <Up/Down> button until "Preset" is displayed.
3．Double-click the 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
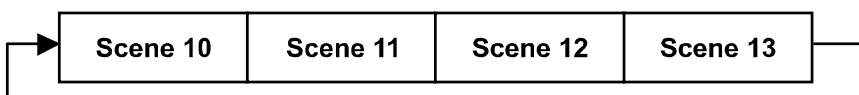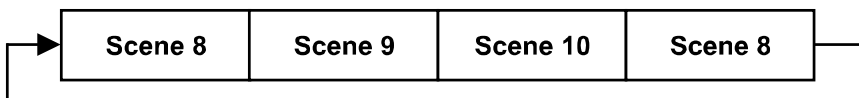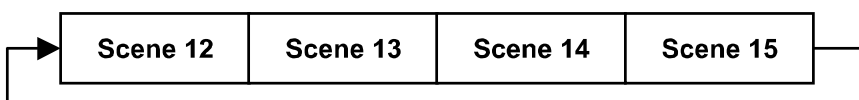
11. NFC

When the fixture is powered on, you can use a NFC smartphone installed with the Ayrton NFC App to scan the NFC tag area of the fixture to read some of the information or settings inside the display menu, such as product name, software version, UID, DMX Start Address, Universe, User Mode, Options, Information, etc. You can also change some of the settings and push to write inside the fixture menu.

When the fixture is not powered on, you can still use the App to read the NFC info and write the settings into the NFC tag, the written data will be automatically synchronized into the fixture menu at next time the fixture is powered on.

NOTE:

- Before using, make sure there is NFC function on your smartphone and it is activated, Download and install the Ayrton NFC App;
- The NFC tag on the fixture is right under the LCD window;
- The NFC reader area vary on different smartphones, identify the correct area on your smartphone before scanning the NFC tag on the fixture;
- When scanning, make sure the NFC reader area of your smartphone close enough to the LCD window and hold still the smartphone for 3 seconds until reading successfully.

11.1 Download and Install

Open App Store or Google Play, search and download "Ayrton Mobile Manager". When installing finish, please click the APP to open the "Ayrton Mobile Manager"
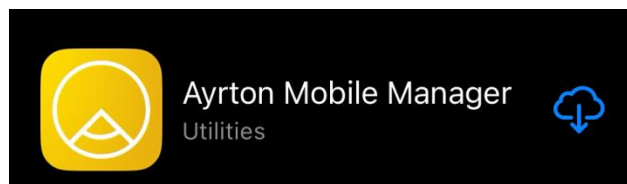
11.2 First Setting

Open the App, read the privacy policy, and agree to continue
Confirm the APP has obtained the necessary permissions：NFC, Storage, network

11.3 Use NFC
11.3.1. Open NFC

Ensure that the NFC function of the phone is turned on
For Android users：Go to Settings>Connection>NFC and turn on the NFC switch.
For iOS users：NFC functionality is usually enabled by default without the need for additional settings

11.3.2. Read the NFC label of the fixture

Open the Ayrton Mobile Manager App. On the Home page of the APP, click the ICON button on the NFC tag.
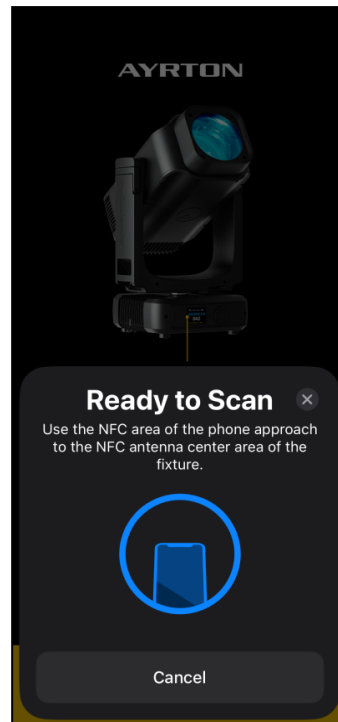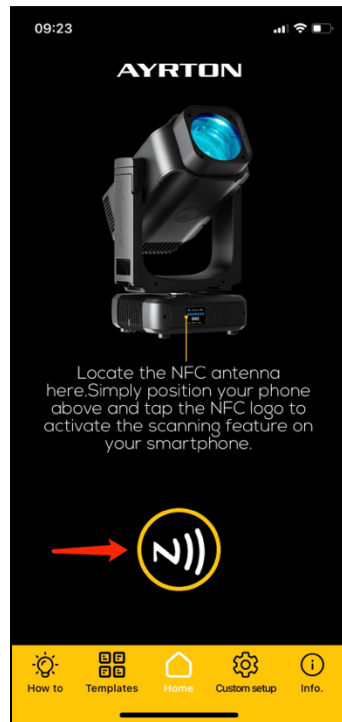
Place the phone near the NFC label area of the fixture (commonly seen behind LCD display boards).

The APP will automatically recognize and read NFC tag information, which will be displayed on the screen, including product name, software version, Basic parameters such as UID, Address, Mode, Options, Information, etc. If the read fails, reactivate the scan.
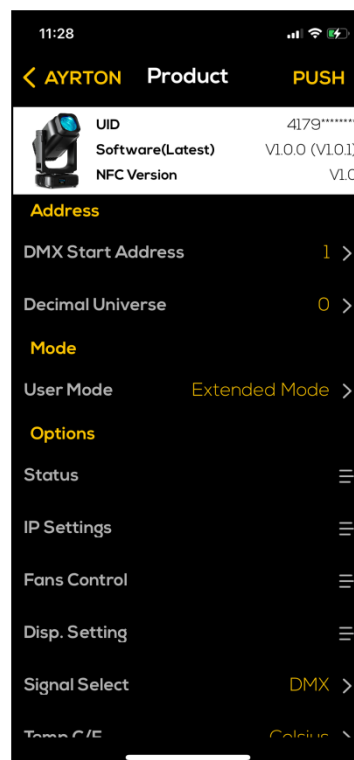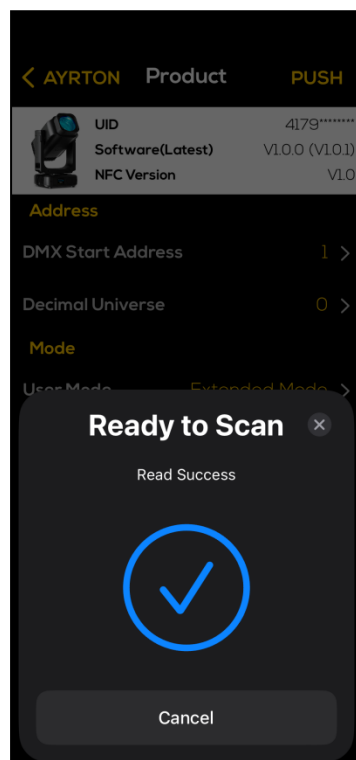
Attention：

- If the fixture is not powered on and the last NFC data was written by the mobile app, the data read at this time is the data written by the mobile app and does not include the Information section. After repowering on, complete information can be read.
- There are two formats for NFC exchange data:
  (1) One is the main standard format, which includes menu information that can be read or written into the part of the lighting fixture

(2) One type is the Custom setup mode, which includes the DMA Address and DMA Mode for batch settings

If the fixture is not powered on and the NFC data in the last fixture was written by the mobile app, the data may be in the above two formats. If the NFC data in the fixture is Custom setup data, the interface for the mobile app to read the NFC data will be shown in the following figure：
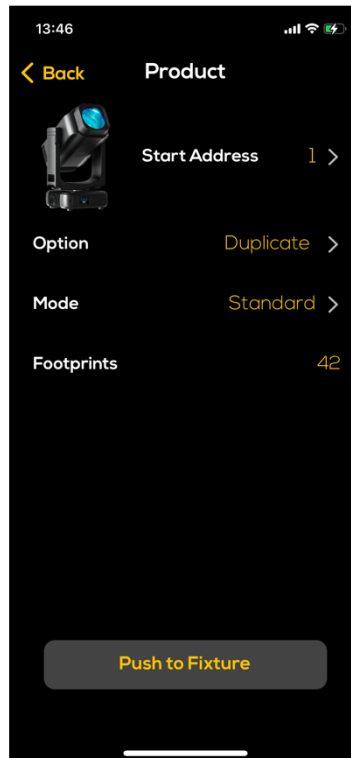
11.3.3. Writing fixture Parameters through NFC

Modify parameters, taking the example of the DMX Address and DMX Mode
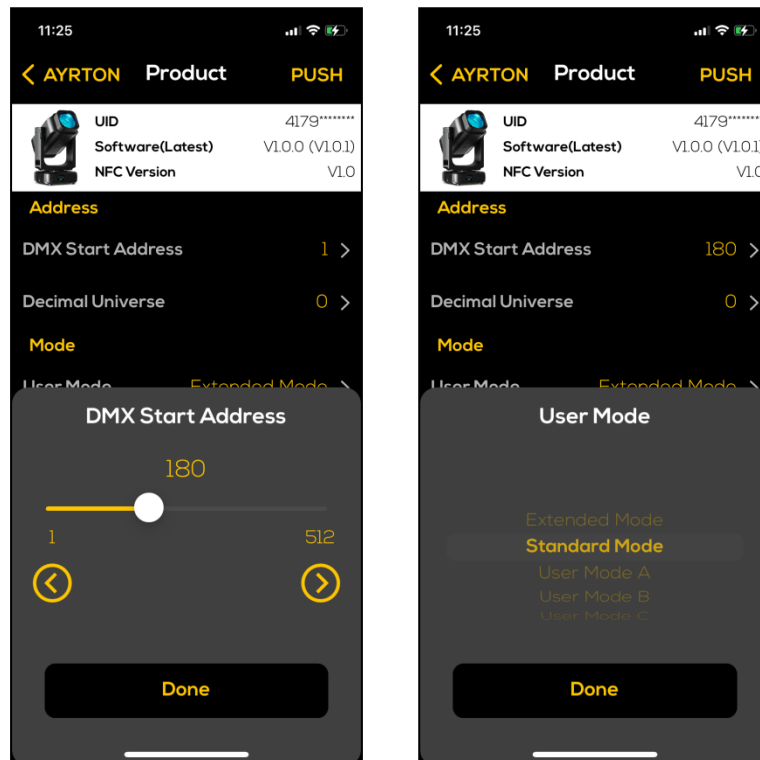
Confirm clicking on Done
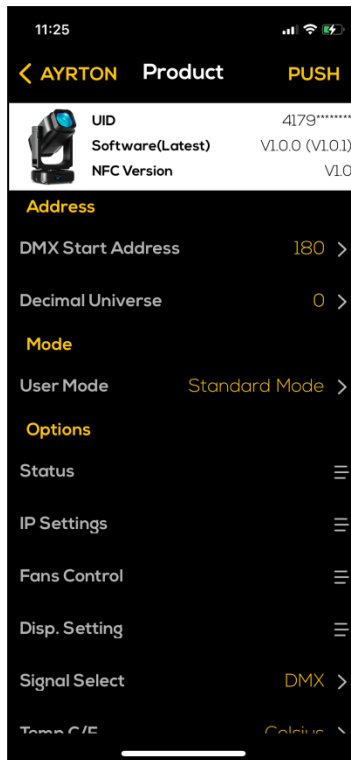
Push the data to the NFC tag of the fixture, click the "Push" button in the upper right corner, place the phone near the NFC tag area of the fixture, and wait for the writing to be completed
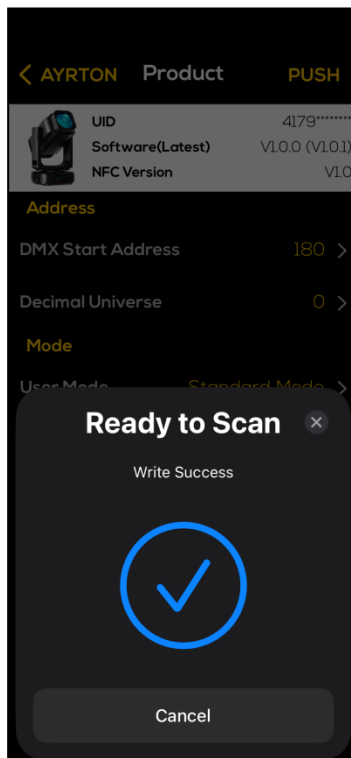
After successful writing：
If the fixture is powered on, the parameters will be immediately synchronized to the fixture.
If the fixture is not powered on, the next time the fixture is powered on, the parameters in the NFC will be read and synchronized to the fixture 's settings.

11.4 Template
11.4.1. Create a template for fixtures, click on the plus sign button in the upper right corner, select the fixture template that needs to be created, and select Product here
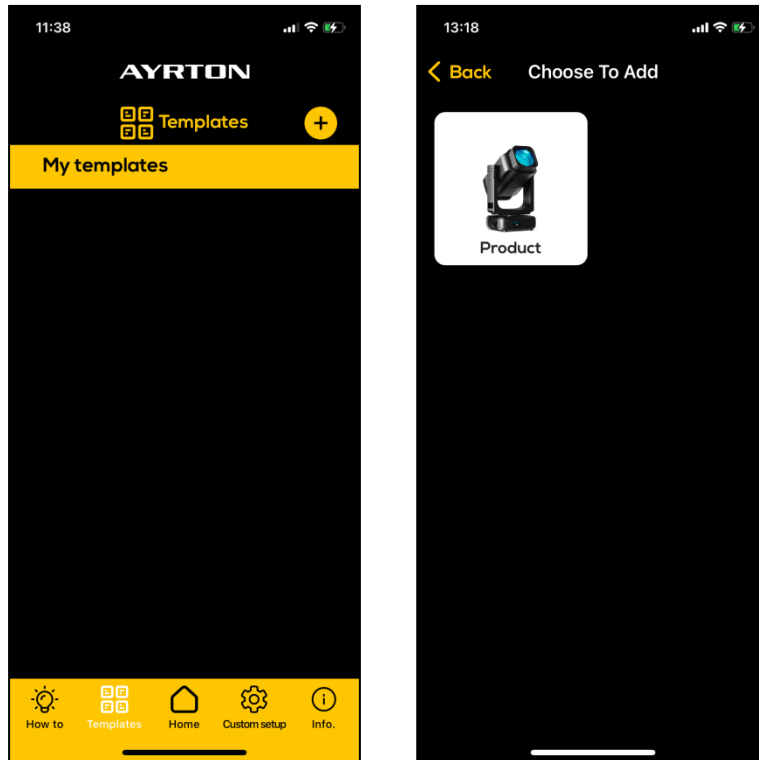
11.4.2. Enter the name of the template and modify the parameters in the settings menu
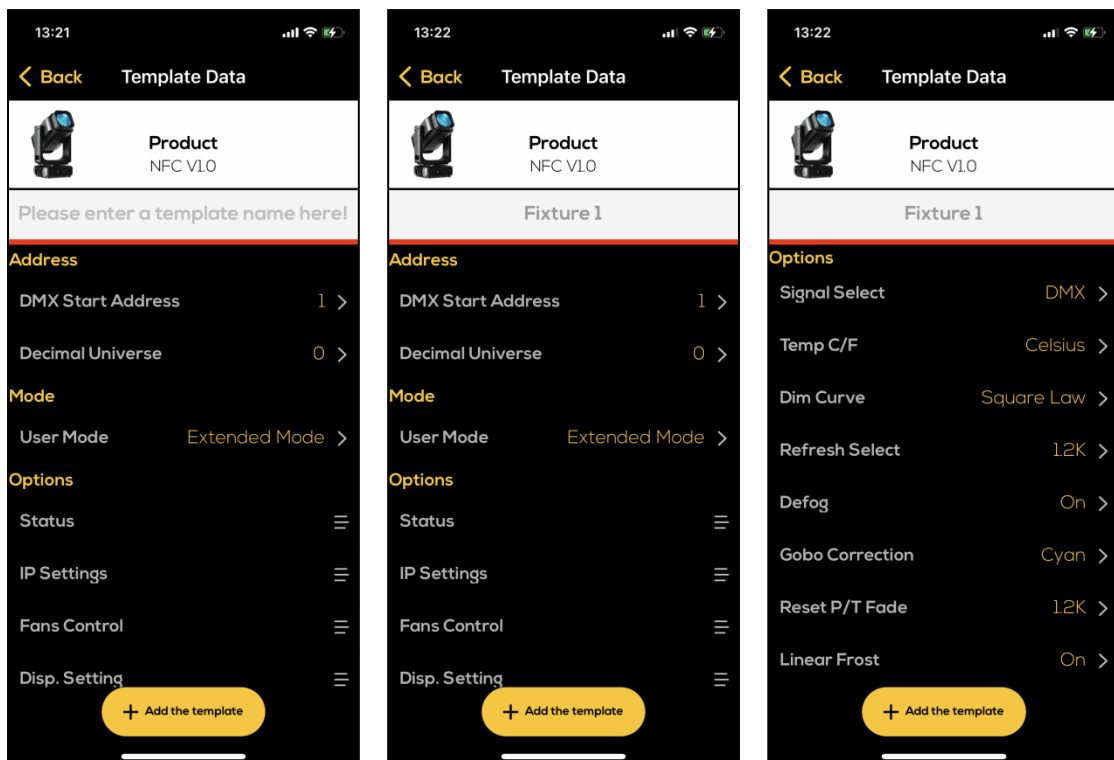
11.4.3. Click to add this template, and the template will appear in the list of templates. Click on Template Fixure1, and four buttons will pop up at the bottom
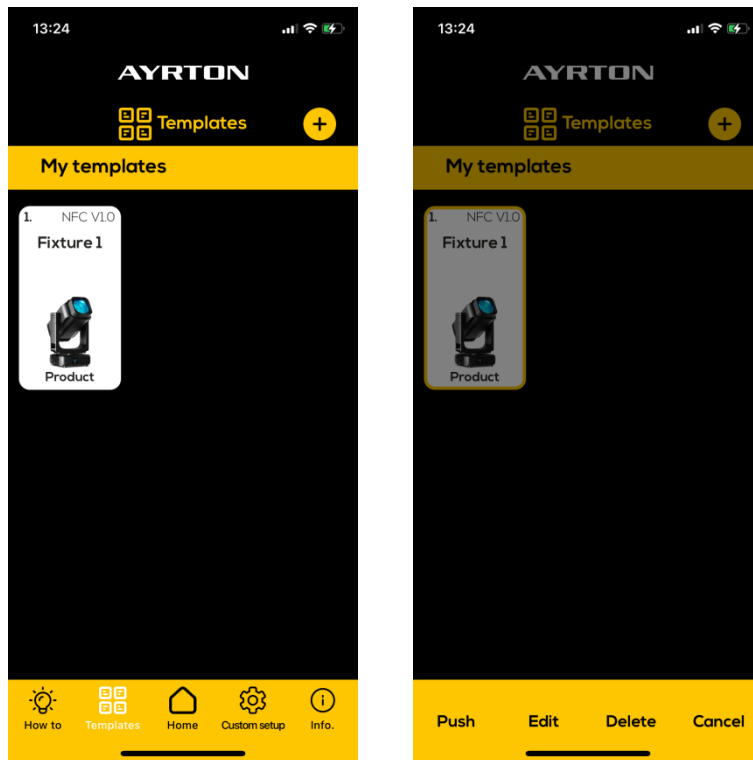
11.4.4. Push, Edit, Delete, Cancel
Click push to write the current template data to the corresponding Product NFC
Edit to modify the current template data, delete to delete the current template
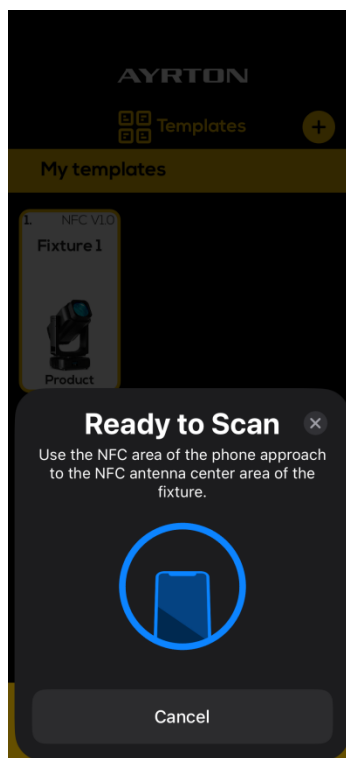
11.5 Custom setup
11.5.1. Select the product, with parameters including DMX Address and DMX Mode, for batch settings
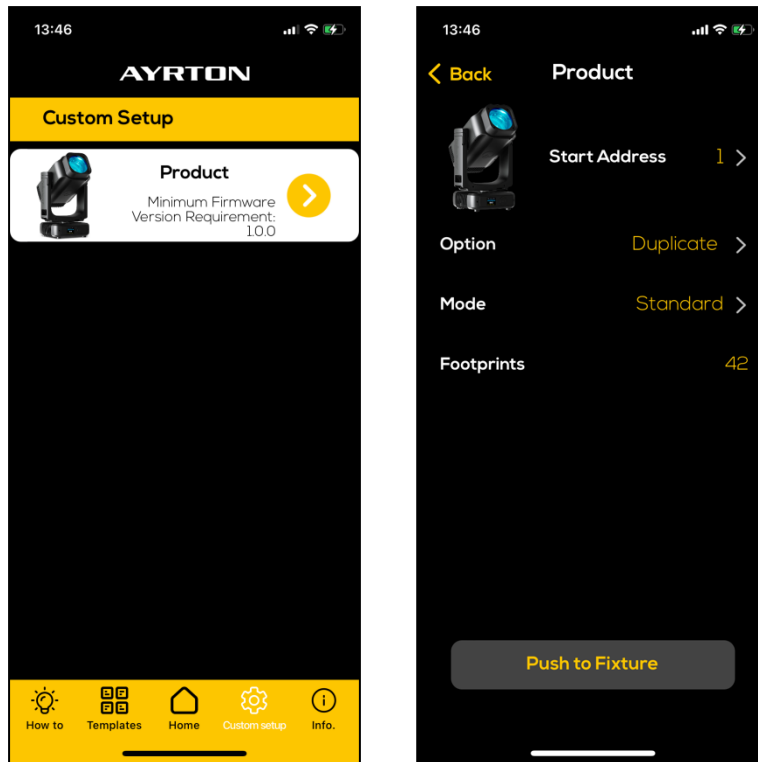
11.5.2. Option
You can choose to push the same or incremented DMX address, with the increment referring to the Footprint parameter
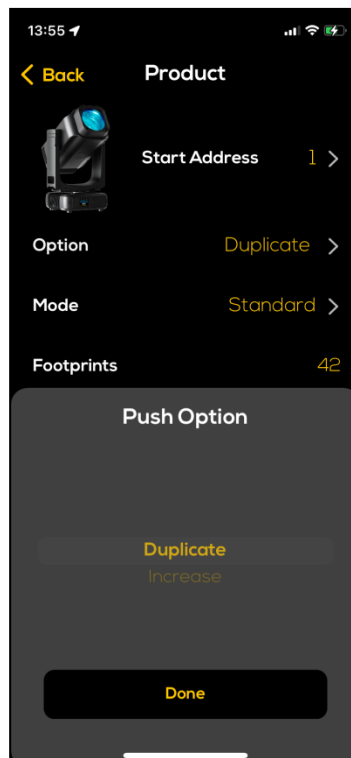
11.5.3. By continuously writing the same parameters to the same address, the NFC of the fixture can be scanned and written in sequence
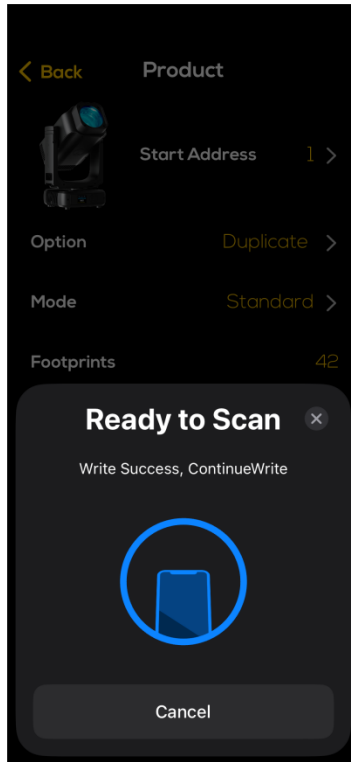
11.5.4. Incremental addresses are sequentially written into the incremental DMX, with each increment referring to Footprint
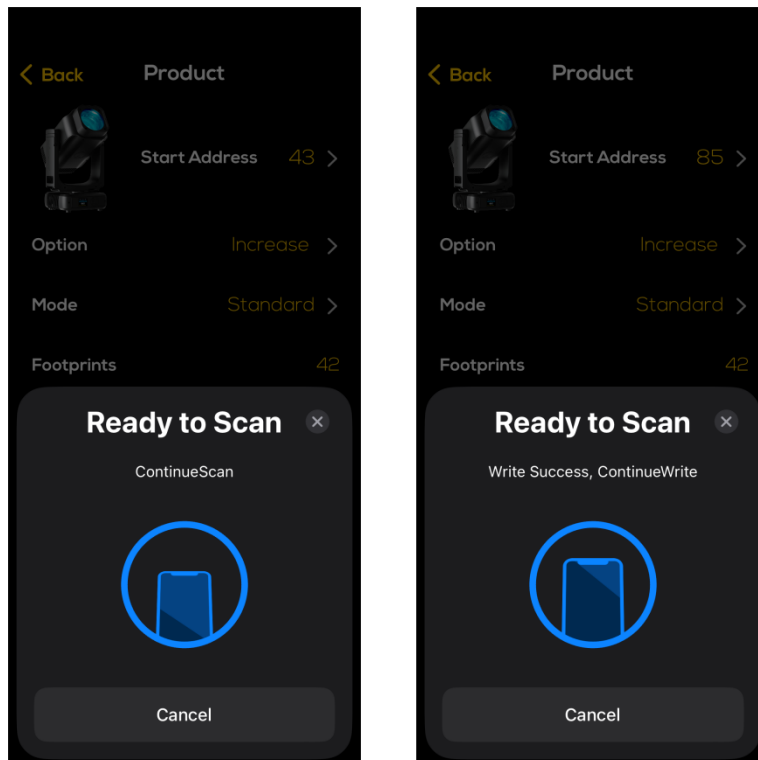
11.6 The APP also includes a guide on how to scan the NFC of fixtures for mobile phones
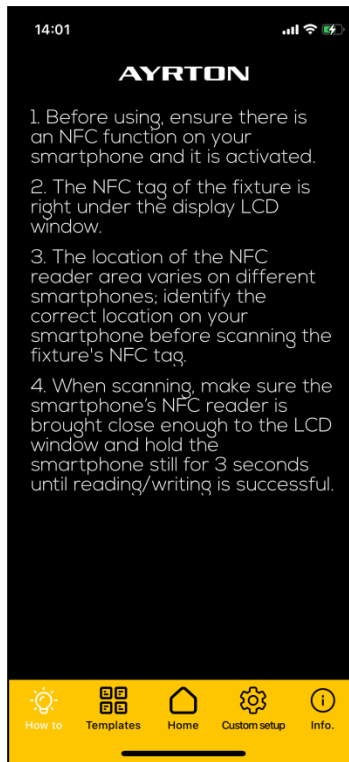
11.7 The APP also includes Info. It includes a guide document on the types of products supported by some APP
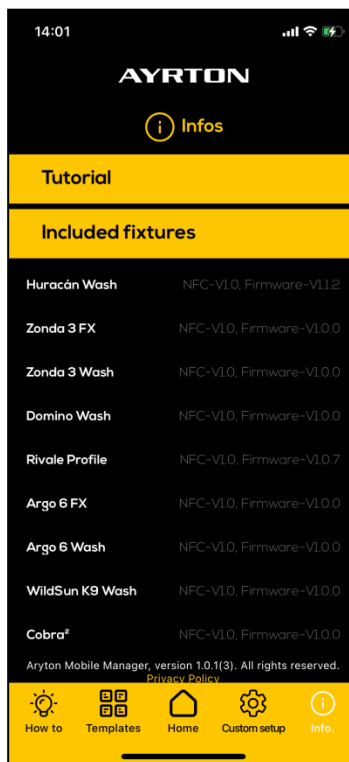
Note:

Device compatibility：The support for NFC varies among phones of different brands and operating systems. For example, the NFC sensing area of some phones may be located in the center of the back of the phone, while other phones may be located at the top or bottom. Before using the NFC function, it is recommended to consult your phone's user manual or online resources to understand the specific location of your phone's NFC sensing area.

Operation method：Ensure that the NFC function is enabled on your phone. When

performing NFC read and write operations, align the NFC sensing area of the phone with another device or NFC tag. Keep the device stationary to ensure the stability of NFC connections.

Reading and writing stability：During the NFC reading and writing process, ensure that the sensing areas of the two devices are kept close and fixed in position. Fast moving devices may cause unstable connections, thereby affecting data transmission. If the initial attempt is unsuccessful, you can slightly adjust the position of the device and try again.

Environmental factors：Some interference sources, such as other inductive magnetic fields or metal shielding, may affect the reading and writing performance of NFC. Try to use NFC functionality in environments with minimal interference

12. DMX PROTOCOL

DMX channel´s functions and their values (67DMX channels):		
Mode/Channel	Value	Function
Ex		
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		**Pan Motor continuous rotation**
	0-63	stop rotation by spinout
	64-127	stop rotation by shortcut
	128-189	Forwards Pan rotation from fast to slow
	190-193	No rotation
	194-255	Backwards Pan rotation from slow to fast
7		**Tilt Motor continuous rotation**
	0-63	stop rotation by spinout
	64-127	stop rotation by shortcut
	128-189	Forwards Tilt rotation from fast to slow
	190-193	No rotation
	194-255	Backwards Tilt rotation from slow to fast
8		**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)
9		**<u>Dimmer intensity:</u>**
	0-255	Intensity 0 to 100%
10		**<u>Fine Dimmer intensity:</u>**
	0-255	Dimmer intensity fine
11		**<u>Zoom :</u>**
	0-255	Zoom adjustment from small to big
12		**<u>Zoom Fine:</u>**
	0-255	Zoom adjustment Fine
13		**<u>Focus :</u>**
	0-255	Continuous adjustment from near to far
14		**<u>Focus Fine:</u>**
	0-255	Continuous adjustment Fine
15		**<u>Auto Focus :</u>**
	0-50	Auto Focus Off
	51-100	5m
	101-150	7.5m
	151-200	10m
	201-255	15m
16		**<u>AutoFocus Fine:</u>**
	0-255	Continuous adjustment Fine
17		**<u>Color Wheel:</u>**
	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
	28-31	Color 7
	32-127	Color indexing
	128-189	Forwards rainbow effect from fast to slow
	190-193	No rotation
	194-255	Backwards rainbow effect from slow to fast
18		**<u>Color Wheel Fine:</u>**

	0-255	Color Wheel colour change to any position Fine
19		**Cyan Color :**
	0-255	Cyan (0-white, 255-100% Cyan)
20		**Cyan Color Fine :**
	0-255	Cyan Fine
21		**Magenta Color :**
	0-255	Magenta (0-white, 255-100% magenta)
22		**Magenta Color Fine :**
	0-255	Magenta Fine
23		**Yellow Color :**
	0-255	Yellow (0-white, 255-100% Yellow)
24		**Yellow Color Fine :**
	0-255	Yellow Fine
25		**CTO Color :**
	0-255	CTO (0-white, 255-100% CTO)
26		**CTO Color Fine :**
	0-255	CTO Fine
27		**CTP Color :**
	0-255	CTP (0-white, 255-100% CTP)
28		**CTP Color Fine :**
	0-255	CTP Fine
29		Reserved
30		Reserved
31		Reserved
32		**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
33		**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
34		**Rotating gobo indexing Fine 1:**
	0-255	Fine indexing
35		**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
36		**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
37		**Rotating gobo indexing Fine 2:**
	0-255	Fine indexing
38		**Animation wheel:**
	0-7	No rotation
	8-127	Forwards rotation from fast to slow
	128-135	No rotation
	136-255	Backwards rotation from slow to fast
39		**Iris:**
	0-191	Max. diameter to Min.diameter
	192-223	Pulse closing fast to slow

	224-255	Pulse opening slow to fast
40		**Iris Fine:**
	0-255	Iris Fine
41		**Prism 1:**
	0-127	Open
	128-255	Prism 1
42		**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
43		**Rotating prism indexing Fine 1:**
	0-255	Fine indexing
44		**Prism 2:**
	0-127	Open
	128-255	Prism 2
45		**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
46		**Rotating prism indexing Fine 2:**
	0-255	Fine indexing
47		**Frost 1:**
	0-255	0-100%
48		**Frost 2:**
	0-255	0-100%
49		**Blade 1A :**
	0-255	Open to Close
50		**Blade 1A Fine :**
	0-255	Open to Close Fine
51		**Blade 1B :**
	0-255	Open to Close
52		**Blade 1B Fine :**
	0-255	Open to Close Fine
53		**Blade 2A :**
	0-255	Open to Close
54		**Blade 2A Fine :**
	0-255	Open to Close Fine
55		**Blade 2B :**
	0-255	Open to Close
56		**Blade 2B Fine :**

	0-255	Open to Close Fine
57		**Blade 3A :**
	0-255	Open to Close
58		**Blade 3A Fine :**
	0-255	Open to Close Fine
59		**Blade 3B :**
	0-255	Open to Close
60		**Blade 3B Fine :**
	0-255	Open to Close Fine
61		**Blade 4A :**
	0-255	Open to Close
62		**Blade 4A Fine :**
	0-255	Open to Close Fine
63		**Blade 4B :**
	0-255	Open to Close
64		**Blade 4B Fine :**
	0-255	Open to Close Fine
65		**All Blade Rotation :**
	0-255	All Blade Rotation
66		**All Blade Rotation Fine :**
	0-255	All Blade Rotation Fine
		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
67	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
115-117	unused
118-120	unused
121-123	Sun Protection Off
124-126	Sun Protection On
127-129	Pan Reverse Off
130-132	Pan Reverse On
133-135	Tilt Reverse Off
136-138	Tilt Reverse On
139-141	Pan Degree 540°
142-144	Pan Degree 630°
145-147	Tilt Degree 540°
148-150	Tilt Degree 270°
151-153	Feedback Off
154-156	Feedback On
157-159	Init PAN Off
160-162	Init PAN On
163-165	Init TILT Off
166-168	Init TILT On
169-171	Prerig INIT Off
172-174	Prerig INIT On
175-177	Reset Mode (Fast)
178-180	Reset Mode (All Rot Gobos)
181-183	Pan/Tilt Spd Fast
184-186	Pan/Tilt Spd Medium
187-189	Pan/Tilt Spd Slow
190-192	Pan/Tilt Spd FS Mode
193-195	Zoom/Focus Spd Fast
196-198	Zoom/Focus Spd Medium
199-201	Zoom/Focus Spd Slow

202-204	Reset LED Fade Off
205-207	Reset LED Fade On
208-210	Defog Off
211-213	Defog Auto
214-216	Defog On
217-255	unused

13. 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 8 at the same time, you may see the error message, "Err channel is Pan movement", "Err channel is Tilt movement", "Err channel is Shutter", flash twice, and then the device will generate a second reset. If the error messages persist after performing a reset more than twice, the channels which have errors may not work properly however, all other functions can work as usual. Please contact your dealer or manufacturer for service. Self repair is not allowed.

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

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

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

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

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

Cyan Color wheel Er
(Cyan Color wheel- error) This message will appear after the reset of the fixture if the head's

magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the stepper motor is defective (or its driving IC on the main PCB). The CMY -movement is not located in the default position after the reset.

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

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

CTO Color wheel Er
(CTO 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 CTO -movement is not located in the default position after the reset.

Rot_Gobo wheel Er
(Rot_Gobo1wheel - 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.

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

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

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

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

Prism 2 wheelEr
(Prism 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 Prism 2 - movement is not located in the default position after the reset.

Blade 1 wheelEr
(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 wheel Er
(Animation_Rot wheel- error) This message will appear after the reset of the fixture if the head's magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the stepper motor is defective (or its driving IC on the main PCB). The Animation_Rot - movement is not located in the default position after the reset.

14. CLEANING AND MAINTENANCE

	CAUTION! DISCONNECT FROM MAINS BEFORE STARTING MAINTENANCE OPERATION.
	WARNING! DO NOT PLACE THE FIXTURE WITH ITS LENS/GLASS FACING ANY PEOPLE WHILE DOING THE IP TEST!
	CAUTION! NEVER USE ALCOHOL OR SOLVENT TO CLEAN THE LENSES !
	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 OPERATOR MUST FOLLOW STRICTLY THE VACUUM AND PRESSURE SETTING VALUES AS BELOW, OR USE THE CORRESPONDING PRESET FIXTURE MENU TO RUN THE IP TEST. ANY OVERPRESSURE OPERATION MAY CAUSE ACCIDENTAL DAMAGE OR INJURY. AYRTON IP TEST KIT

	Minimum value		Maximum value		Steady time (Hold time)
	Kpa	Psi	Kpa	Psi	S
Vacuum	-30	-4.35	-35	5.08	10
Pressure	25	3.63	30	4.35	10

NOTE: When using external equipment to test air tightness, air can only be filled and extracted from the exhaust hole of the bottom base, not from the exhaust hole of the fixture head.

Once the covers removed and before set them back, check the cover gasket to avoid any leak due to gasket damage**.**
Cross tightening the die-casting covers HEX screws at the right torque value.
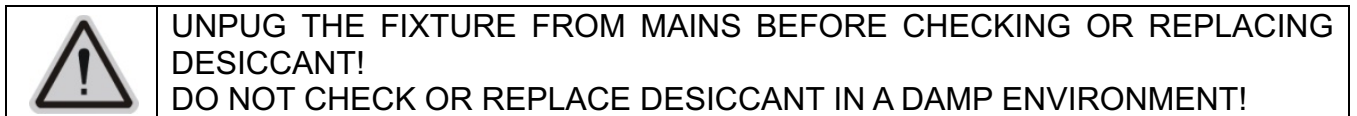
Use a Torque Screwdriver set at 14Kgf.cm for metal cover or 7Kgf.cm for plastic cover.

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.

Checking and replacing the desiccant
The desiccant is used as humidity indication in the fixture. Dry desiccant is in blue color, if it is saturated with water, its color changes to light red. If the desiccant color changes to pink, the desiccant is losing efficacy, it must be replaced.

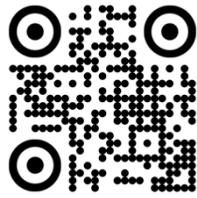| ⚠	UNPUG THE FIXTURE FROM MAINS BEFORE CHECKING OR REPLACING DESICCANT! DO NOT CHECK OR REPLACE DESICCANT IN A DAMP ENVIRONMENT!

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.

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.

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

scan for more on
www.ayrton.eu

AYRTON
Digital Lighting

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