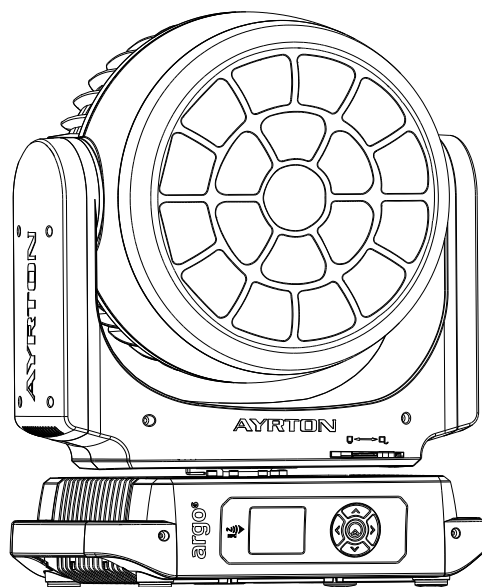


# USER MANUAL

ENGLISH - VERSION 130

## argo<sup>6</sup>

**WASH**



### AYRTON

Digital Lighting



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France

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Keep this manual for future needs.

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



## 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.



Always disconnect mains supply before removing any fixture covers.



Never look directly into the light source. Sensitive persons may suffer an epileptic shock.



Blue light hazard: risk group 2.



Never touch the device during operation. Covers may be hot.



This fixture is not designed for permanent use in a marine / corrosive environment. Following temporary use in such environments, clean fixture with fresh water and dry before storage.

**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.



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 0.5 meters.

#### CAUTION

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

### 1.2 > GENERAL GUIDELINES

- This device is a lighting effect for professional use on stages, in discotheques, theatres, etc. The device was designed for indoor use.
- 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.

#### CAUTION

**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.**

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 and XLR

## 2. FEATURES

### POWER SUPPLY

- AC100-240 V~, 50/60 Hz
- Power Consumption: 950 W maximum

**OPTICS**

- Beam aperture: 4 ° to 56 °
- 19 x 50 mm truncated lenses
- 280 mm front lens cluster

**LIGHT SOURCE**

- LED: 19 pcs 4 in 1 RGBW LEDs
- Extremely long life: < 50,000 H

**MOVEMENT**

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

**COLOURS**

- Sophisticated 4 colours RGB-W mixed, reaching high Colour Rendering Index
- Uniform light beam with no colour shadows, and rich saturated and pastel colour-hues
- 4.29 billion colours (8-bit resolution)
- Virtual colour wheel, including most usuals white colour temperature presets
- Virtual CTC channel, from 2500 to 8000 K

**EFFECTS**

- 2D & 3D graphical effects capabilities
- Effects can be coupled with beam, wash or matrix applications
- Built-in pattern effects with speed and fade controls for scenic applications

**DIMMER / STROBE**

- Electronic dimmer from 0 to 100%
- Strobe effect: 1 to 25 flashes per second

**HARDWARE FEATURES**

- Graphic LCD display with flip function
- 5 menu buttons to set functions
- Excess temperature protection
- IP65 XLR 5 pin connectors
- IP65 etherCON RJ45 connectors
- IP65 powerCON TRUE1 connector

**CONTROL**

- DMX 512 protocol
- DMX-RDM compatible
- Stand-alone mode, local control panel
- ArtNet™ & sACN protocol
- Choice of 3 DMX modes (from 26 to 67 DMX channels)

**COOLING SYSTEM**

- Advanced liquid cooling system
- Selectable ventilation user modes
- Excess temperature protection

**HOUSING**

- Skeleton made of aluminium and steel metal plates
- Base in die-cast composite alloy
- Heatsinks in aluminium
- Moulded covers ABS PC (VO class)
- 2-side handles for transportation
- 4 heavy-duty feet for better stability
- IP65 protection rating

**INSTALLATION**

- 2 Omega ¼ turn brackets
- 4 ¼ turn mounting points
- Safety cable attachment point

**OPERATING PARAMETERS**

- Maximum permitted: 45°C (113°F)

- Minimum permitted: -20°C (-4°F)
- Minimum usage distance: 2 m (6.56 ft)

**COMPLIANCE**

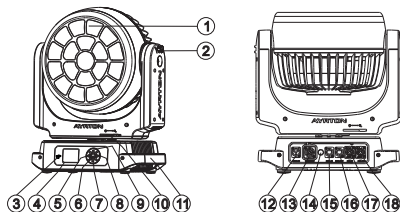
- CE, UKCA, ETL

**SIZE**

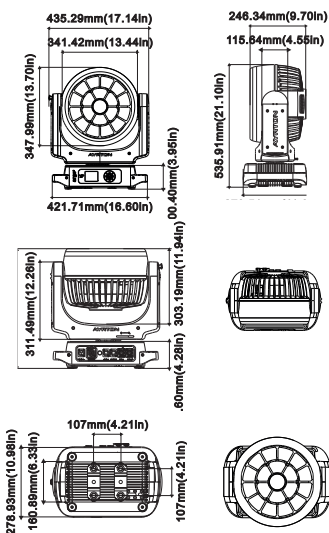
- Product: 436 x 536 x 280 mm (l x h x d)
- Foam: 485 x 560 x 350 mm (l x h x d)

**WEIGHT**

- Product: 23.2 kg

**3. FIXTURE OVERVIEW**

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

**4. DRAWINGS****4.1 > FIXTURE DIMENSION**

## 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.

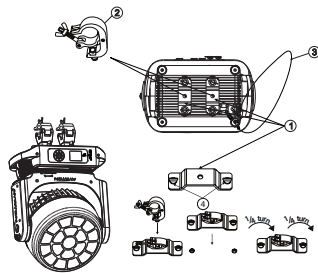
- The installation of the support structure has to be built and constructed in a way that it can hold 10 times the weight for 1 hour without any harming deformation.
- The installation must always be secured with a secondary safety attachment, e.g. an appropriate safety rope.
- Never stand directly below 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

#### CAUTION

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

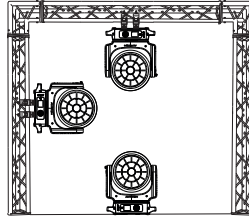


1. Omega bracket
2. Clamp
3. Safety rope
4. Quick-lock fastener

### 5.3 > RIGGING DRAWINGS

#### CAUTION

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.



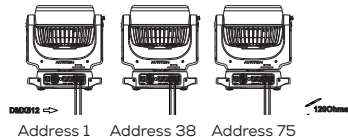
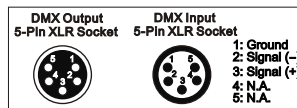
- Be sure this fixture is kept at least 0.1 m away from any flammable materials (decoration etc.).
- Always use and install a safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.
- **WARNING! Always use and install original Ayrton accessories to ensure a safe installations and use of the unit. Ayrton WILL NOT be responsible for the use of third party accessories.**
- 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.
- **WARNING! 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 and no DMX signal), please make sure the "sun protection" mode is ON (default).

#### CAUTION

Following temporary use in such environments, clean fixture with fresh water and dry before storage.

## 6. DMX-512 CONTROL CONNECTION

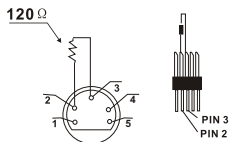
Connect the male side of the XLR cable to the female XLR output of your controller and the female side of the XLR cable to the male XLR input of the device. You can connect multiple devices together in a serial fashion. The cable needed should be two core, screened cable with XLR input and output connectors.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



## 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  $\Omega$  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 37 channel mode, you should set the starting address of the first unit to 1, the second unit to 38 (37 + 1), the third unit to 75 (37 + 38), and so on.

## 9. 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 , , , 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 - V123

Address		
Main	DMX Address: xxx Decimal Universe: xxxxx Net: xx Sub-Net: xx Universe: x Signal	DMX Address Decimal Universe Net Sub-Net Universe DMX/ArtNet/sACN
Effect	FollowMain DMX Address: xxx Decimal Universe: xxxxx Net: xx Sub-Net: x Universe: x Signal	ON/OFF DMX Address Decimal Universe Net Sub-Net Universe DMX/Art-Net/sACN

Address			
Pwr LED pix	FollowMain DMX Address: xxx Decimal Universe: xxxxx Net: xx Sub-Net: x Universe: x Signal		ON/OFF DMX Address Decimal Universe Net Sub-Net Universe DMX/Art-Net/sACN
Mode			
User Mode	Stand Mode Basic Mode Extend Ring Extend Pixel		User's mode to change channel numbers
Options			
Status	No DMX Mode	Close/Hold/Auto	Auto run if no DMX
	Sun Protection	ON/OFF	Pan Reverse movement
	Pan Reverse	ON/OFF	Tilt Reverse movement
	Tilt Reverse	ON/OFF	Pan Degree Select
	Pan Degree	630/540	Tilt Degree Select
	Tilt Degree	270/540	Movement Feedback
	Feedback	ON/OFF	Init PAN
	Init PAN	ON/OFF	Init TILT
	Init TILT	ON/OFF	Movement Speed
	Pan/Tilt Spd	Fast/Medium/Slow	Stand by Mode
Hibernation	OFF, 01M-99M, OFF	DMX Output	
Service PIN	DMX Output	ON/OFF	
	Service PIN	Password = XXX	Service Password "=050"
	RDM UID	Xxxxxx	RDM
	Set IP	xxx.xxx.xxx.xxx	Set IP
	Set Mask	xxx.xxx.xxx.xxx	Set Mask IP
	Reset From Mac	ON/OFF	Reset From Mac
	DHCP	ON/OFF	DHCP
	Cross Load SW	ON/OFF	Cross Load SW
	Clr Error Info	ON/OFF	Clr Error Info
Fans Control	Set LED BIN	01-...	LED BIN
	Fans Speed	Auto	Fans Speed select
		Stage Silence Super Silence	
	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		Temperature switch between °C / °F
	Fahrenheit		
Initial Pos.	PAN =XXX		Initial effect position
Dim Curve	Square Low Linear		Dim Curve
Refresh Select	12K 2.4K 16K 25K		Refresh Select
Options			
Tungsten Lamp	OFF 500 W 1000 W 2500 W 5000W		Tungsten Lamp
Defog	OFF/Auto/ON		Defog
Trigger	DMX Value Disp. Auto Program	PAN____ Master/Alone	DMX Value Disp.
Reset Default	ON/OFF		Restore factory set.

Options		
Reset User	Address	...the same as menu Address below Main
	Mode	Stand Mode Basic Mode Extend Ring Extend Pixel User's mode to change channel numbers
	Fans Speed	Auto Stage Silence Super Silence Fans Speed select
	Constant Fans	ON/OFF Constant Fans
Info		
Time Info.	Current Time	XXXX(Hours)
	Ttl Life Hrs	XXXX(Hours)
	Last Run Hrs	XXXX(Hours)
	LED Hours	XXXX(Hours)
	Timer PIN	Password = XXX
	Clr Last Run	ON/OFF
Temp. Info	xxx °C/°F	Temperature Info
Humidity	x%	Humidity
Fan Info	xxx RPM	Fan Info
Software Ver	V1.0....	Software version
Network	IP, Mask, Mac	Network
Error Info.	Error Record 1 :	Error Info.
SN	xxxxx...	SN
Test		
Home	All	Reset All
	Pan&Tilt Zoom	Reset Pan&Tilt Zoom
Test Channel	PAN ....	Test function
Manual Ctrl.	PAN = XXX :	Fine adjustment of the lamp
Calibration	-Password- PAN :	Password "050" Calibrate and adjust the effects to standard/right position
Preset		
Select Prog.	Prog. Part 1 = Program 1 ~ 10 Program 1 Prog. Part 2 = Program 1 ~ 10 Program 2 Prog. Part 3 = Program 1 ~ 10 Program 3	Select programs to be run
Edit Prog.	Program 1 : Program 10	Program Test Step 01=SCxxx Step 64=SCxxx Testing program Program in loop Save and exit
Edit Scenes	Edit Scene 001 ~ Edit Scene 250	Pan,Tilt,.... --Fade Time-- --Scene Time-- Input By Outside Save and automatically return manual scenes edit
Scenes Input	XX-XX	Scenes Input

## 9.1 › ADDRESS

### 9.1.1. Main

With this function, you can adjust the DMX address, the Universe and the selection of the control signal.

### 9.1.2. Effect

With this function, you can adjust the DMX address, the Universe and the selection of the control signal of the effect.

### 9.1.3. Pwr LED pix

With this function, you can adjust the DMX address, the Universe and the selection of the control signal of the power LED pixel

## 9.2 › MODE

### 9.2.1. User Mode

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

## 9.3 › OPTIONS

### 9.3.1. Status

#### No DMX Status

With this function, you can choose the unit behavior in case no signal is detected between Close (all dmx value to 0), Hold (keep the last dmx value), and Auto (start auto mode).

#### Sun Protection

When this function is activated, the unit will automatically tilt down its head toward the ground when no signal is detected.

#### Pan Reverse

With this function you can reverse the Pan-movement.

#### Tilt Reverse

With this function, you can reverse the Tilt-movement.

#### Pan Degree

With this function, you can select the total Pan degree range between 630 and 540.

#### 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.

#### Init PAN

This function allows you to deactivate the Pan movement.

#### Init TILT

This function allows you to deactivate the Tilt movement.

#### Pan/Tilt Spd

With this function, you can select Pan & Tilt speed from "Fast", "Medium", "Slow".

#### Hibernation

The device and stepper motors will be powered off if the unit stays without DMX signal for the User defined times (in Minutes). The fixture will perform a reset sequence once DMX is back .

#### DMX Output

With this function, the unit can transmit the signal received via ArtNet/sACN through the DMX output.

### 9.3.2. Service PIN

#### Password

The Password for this function is "050".

#### RDM UID

With this function, you can display the RDM UID of the Unit.

#### Set IP

This function allows you to set the IP of the Unit.

#### Set Mask IP

This function allows you to set the IP Mask of the Unit.

#### Reset From Mac

This function allows the Unit to take its IP automatically using its Mac address.

**DHCP.**

This function allows you to enable or disable the DHCP.

**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 complete.

**Clr Error Info**

This function allows you to clear the error info list.

**Set LED BIN**

Enables configuration of the LED BIN settings for the LED board.

**9.3.3. Fans Control****Fans Speed**

With this function, you can set the fans speed. Settings are Auto, Stage, Silence, and Super Silence.

- **Auto:** The LED module delivers **high** output and the fans ramp up and down depending on the ambient temperature and the temperature of the LED module itself.
- **Stage:** The LED module delivers **full** output and the fans remain at full speed regardless of the temperature of the LED module.
- **Silence:** The LED module is limited to **medium** output and the fans rotate at a slower speed.
- **Super Silence:** The LED module is limited to a **lower** output and the fans rotate at the slowest speed.

For specific output details, refer to photometry document.

**Constant Fans**

Enables you to set the fans to run continuously, even when the LED is off.

**9.3.4. 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.

**Flip Display**

With this function you can rotate the display by 180° (when the unit is rigged).

**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 3 seconds if you do not need this function.

**DispFlash**

With this function activated, display will flash if no signal is detected.

**9.3.5 Temperature C/F**

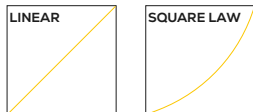
With this function you can display the temperature in Celsius or Fahrenheit.

**9.3.6. Initial Pos.**

With this function you can display initial effect position.

**9.3.7. Dim Curve**

With this function you can select the Dimmer Curve.

**9.3.8. Refresh Select**

With this function you can select the PWM rate.

- **12K & 2.4:** provides superior dimming quality, especially for smooth fadeouts at lower levels
- **16K & 25K:** are ideal for broadcast use

**9.3.9. Tungsten Lamp Simulation**

Provides a selection of tungsten emulation modes to replicate traditional lamp behavior. Available options: OFF, 500 W, 1000 W, 2500 W, and 5000 W. This affects dimming only, not colour shift.

**9.3.10. Defog**

This function allows you to set the defog mode as follows:

- **ON:** Activates the defog fan (excluding the LED module cooling fans), sets the dimmer to full, and zoom to minimum. This function should only be used when necessary.
- **AUTO:** Activates the defog fan (excluding the LED module cooling fans) when temperature and humidity reach a certain level. Zoom and dimmer are not affected.
- **OFF:** No defogging actions are performed, the defog fan will not rotate and the heaters are turned off.

If ON or AUTO are selected, the heater plate will turn on when the unit is powered on. the Heater will turn on and off as necessary to maintain a constant internal temperature of 45 °C.

**9.3.10. Trigger****DMX Value Disp.**

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

**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.

**9.3.11. Reset Default**

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

**9.3.12. Reset User**

With this function, you can define the following "restore user" values:

- Address
- Mode
- Fans Speed
- Constant Fans

**9.4 > INFO****9.4.1. Time Info.****Current Time**

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

**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.

**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.



**LED Hours**

With this function, you can display the time of LED. The display shows "XXXX". "XXXX" stands for the time of LED.

**Timer PIN**

With this function, you can display the timer password.

**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.

**9.4.2. Temp.Info**

With this function you can display the different temperature of the fixture.

- L: Light engine
- B: Base
- H: Head

**9.4.3. Humidity**

With this function you can display all the different humidity values available in the fixture

- B: Base
- H: Head

**9.4.4. Fan Info.**

With this function, you can display all the fan speed values available in the unit.

**9.4.5. Software Ver**

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

**9.4.6. SN**

With this function, you can display the serial number of the Unit

**9.5 > TEST****9.5.1. Home**

With this function you can reset the device. You can select which functions you want to reset by using the submenu.

**9.5.2. Test Channel**

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

**9.5.3. Manual Control**

Allows you to manually control each feature of the unit

**9.5.4. Calibration**

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

**9.6 > PRESET**

Run the auto program: A leader fixture can output to three different program signals to the follower 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 follower fixture will make the selectively receiving according to its own set.



- If the follower fixture chooses Run For Follower 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 follower fixture chooses Run For Follower 2, then it will receive the part 2's automatic program from link.

- Enter the menu of 1-3 Function Mode---Set To Follower. Here to set machine operate which part of the program during the host-follower connection
- Enter the menu of 1-4, 1-5 Function Mode---Set To Leader
- 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)
- Enter the menu of 8-2 Edit Program---Edit Program. Edit the program's connection, connect the scene in order
- 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:****Part 2:****Part 3:****9.7 > SHORTCUT MENU****9.7.1. Flip display**

With this function you can rotate the display by 180° (when the unit is rigged)

**9.7.2. Restore Factory**

With this function, you can restore default setting (highlighted value in the above chart).

**9.7.3. Restore User**

With this function, you can restore User settings (Setting can be edit under Options/Reset User Set).

**9.7.4. Rst DMX addr 1**

With this function you can only set the address to 1.

**10. NFC**

When the fixture is powered on, you can use a NFC smartphone installed with the Ayrton 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.

Link to download the application: <https://qrstud.io/ayrtonnfc>

**Note:**

- Before using, make sure there is NFC function on your smartphone and it is activated, Download and install the Ayrton 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



Ayrton IP Kit

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.

## 11. DMX PROTOCOL

Scan the QR code on the cover page to download the DMX CHART.

## 12. ERROR MESSAGES

When you turn on the device, it will first perform a reset. The display may show "Err channel is XX" should there be problems with one or more functions. "XX" stands for channel 1, 2, 3, 4, 5, 6 etc whose sensor has encountered a problem. For example, when the display shows "Err channel is Pan movement", it means there is an error on channel 1. If there are errors on channel 1, channel 3, channel 6 at the same time, you may see the error message, "Err channel is Pan movement", "Err channel is Tilt movement", "Err channel is Shutter", flash twice, and then the device will generate a second reset. If the error messages persist after performing a reset more than twice, the channels which have errors may not work properly however, all other functions can work as usual. Please contact your dealer or manufacturer for service. Self repair is not allowed.

### PAN- movement Er

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

### TILT- movement Er

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

### Zoom wheel Er

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

## 13. CLEANING AND MAINTENANCE

### CAUTION



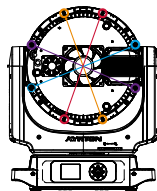
Disconnect from mains before starting maintenance operation



Do not place the fixture with its lens/glass facing any people while doing the IP test!



Never use alcohol or solvent to clean the lenses.



- Check the seal, it must be clean and undamaged, properly seated to avoid any damage when tightening.
- First lightly tighten the screws into position and then tighten with a torque screwdriver.

**Torque value : 14Kgf.cm for metal cover or 7Kgf.cm for plastic cover.**

The following points have to be considered during inspection:

- All screws for installing the devices or parts of the device have to be tightly connected and must not be corroded.
- All external magnesium alloy covers screws must be used together with the plastic sleeves. If the plastic sleeve is damaged, it must be replaced with a new one.
- Do not do maintenance or assembly for the external magnesium alloy cover in outdoor environment with rain or water on it. Before removing the screws, ensure that the surroundings of the screws are dry. After maintenance, before assembling the covers, ensure that the screws and screw holds are dry.
- There must not be any deformations to the housing, lenses, rigging and installation points (ceiling, suspension, trussing).
- Motorized parts must not show any signs of wear and must move smoothly without issue.
- 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 colour, if it is saturated with water, its colour changes to light red. If the desiccant colour changes to pink, the desiccant is losing efficacy, it must be replaced.

### CAUTION

**Unplug 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.

In order to ensure the fixture remains in good condition and does not fail prematurely thus extend the lifespan of the fixture, we

suggest regular maintenance and cleaning, especially when the fixture being installed outdoors with the following conditions which may easily cause peeling or corrosion of the surface coating of the fixture:

- Use in coastal or high salinity areas.
- Use in areas contaminated with coal ash, oil fume, mineral dust, iron powder, or chemical substances, etc..
- Fixture surface accumulated with burnt tar, resin, insect dead body or its droppings, bird droppings, etc..
- Liquids such as benzene, gasoline or diesel was splashed onto the surface of the fixture.
- Residues of movable props such as colored powder, foam and sequins on the surface.

**Notes for cleaning:**

- *Before cleaning the fixture, please ensure that the power connection of the fixture is disconnected and completely cooled. Use sponge or a soft cloths for surface cleaning.*
- *Do not use acidic, alkaline or abrasive detergents for cleaning.*
- *Do not use a hard brush to brush the covers directly.*
- *When using a high-pressure water gun for cleaning, please pay attention to the water pressure and spraying distance.*
- *Do not allow the high-pressure water gun to continuously wash the same area for long time, especially on the XLR connectors, display button, arm rotation areas, etc..*
- *If the fixture being used outdoors, cleaning and maintenance should be carried out at least every 3 months depending on the using conditions. This period may need to be shortened and need to be cleaned timely if the fixture being used in coastal or high salinity areas.*
- *During winter use, if using snow remover in the scene, please protect the fixture to avoid fixture surface being contaminated.*
- *During cleaning and maintenance, if slight coating damage is found on the die-casting cover's surface, then after cleaning is completed and surface is dried, repair for the surface treatment can be carried out by using hand spray paint. If the cover's damaged surface is severe, please contact your local dealer or Ayrton for replacement parts in a timely manner.*
- *If obvious corrosion marks such as blistering or damage are found on the coating of the fixture's die-casting cover, please contact your local dealer or Ayrton for replacement parts for repair in a timely manner.*

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.



**AYRTON**

Digital Lighting

