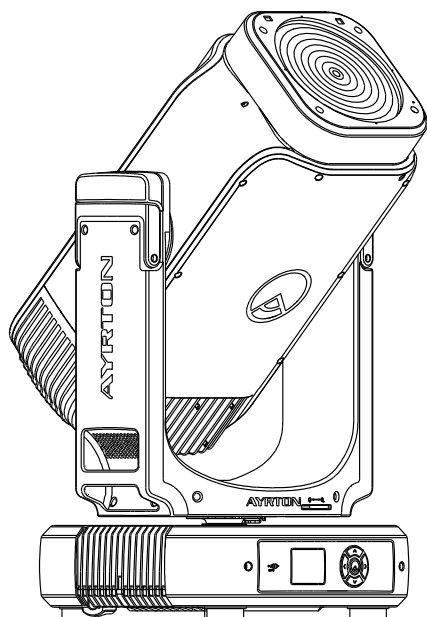


USER MANUAL

ENGLISH - VERSION 103

VELOCE

WASH



AYRTON

Digital Lighting



2 Rue de Vitruve,
91140 Villebon-sur-Yvette,
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.



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 be stored dry.



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

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.



- 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 2 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 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.

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 TrueOne and XLR connectors are fitted properly when the device is not in use, to avoid water ingress.

2. FEATURES

POWER SUPPLY

- AC100-240 V~, 50/60 Hz
- Power Consumption: 1,300 W maximum

OPTICS

- Beam aperture: 4° to 57°
- 190 mm frontal lens

LIGHT SOURCE

- 850 W LED white light engine
- Colour temperature output:
 - Veloce Wash S: 6,500 K
 - Veloce Wash TC: 6,000 K
- CRI:
 - Veloce Profile S: 70
 - Veloce Profile TC: 95

MOVEMENT

- Pan and tilt automatic repositioning
- Range: Infinite pan and tilt rotation

COLOURS

- Sophisticated CMY colour mixing
- Variable CTO
- Variable CRI channel
- Static colour wheel with 7 complimentary colours

GOBOS

- Indexable rotating gobo wheel with six high precision glass gobos and a scrim filter
- Adjustable-speed rotating gobo in both directions

FRAMING SYSTEM

- 4 individually positionable shutter blades on a 100% surface area in all positions
- Rotation of the shutter blades module: +/- 90°

IRIS DIAPHRAGM

- Fast iris diaphragm with adjustable dynamic effects
- Range: 15% to 100% open

FROST

- 0% to 100% variable linear frost

PRISMS

- 1 combinable rotating and indexable prism

EFFECTS

- Focusable CMY & RGB graphic animation effect wheel with continuous rotation in both directions
- Beam ovalising filter, indexable and rotatable

DIMMER / STROBE

- Electronic dimmer from 0 to 100% without colour variation
- Strobe effect: 1 to 25 flashes per second

HARDWARE FEATURES

- Graphic LCD display with flip function
- 5 menu buttons to set functions
- Integrated wireless CRMX TiMo RDM receiver from LumenRadio™
- IP65 XLR 5 pin connectors for DMX connection
- IP65 RJ45 connectors for ArtNet connection
- IP65 powerCON TRUE1 TOP connectors for power connection

CONTROL

- DMX 512 protocol
- DMX-RDM compatible
- Stand-alone mode, local control panel with IP65 LCD display
- ArtNet™ & sACN protocol through Ethernet cable
- 60 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 and copper
- Moulded covers ABS PC (VO class)
- 4 handles on the yoke
- 4 heavy-duty feet
- IP65 protection rating (IP66 optional)

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

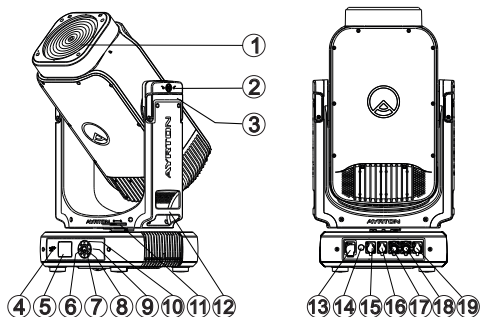
SIZE

- Product: 405 x 757 x 366 mm (l x h x d)
- Foam: 680 x 640 x 500 mm (l x h x d)

WEIGHT

- Product: 39 kg

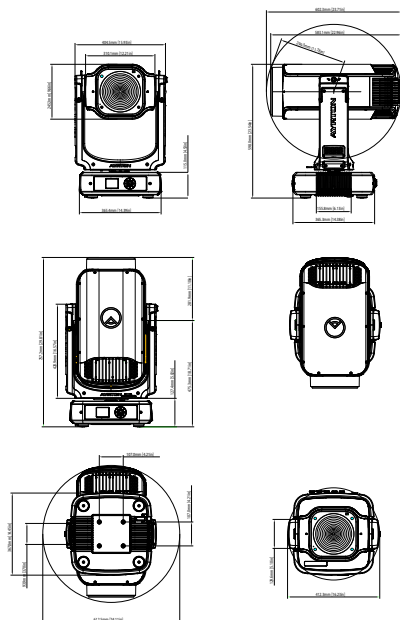
3. FIXTURE OVERVIEW



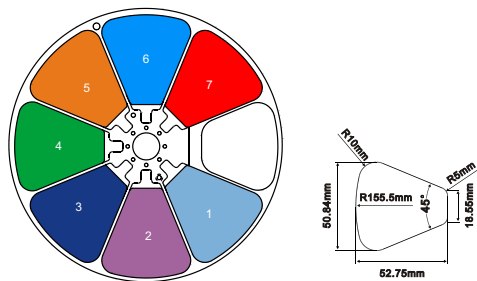
- | | | |
|----------------|------------------|--|
| 1. Front Lens | 8. Center-button | 15. RJ45 In |
| 2. Tilt Lock | 9. Right-button | 16. RJ45 Out |
| 3. Handle | 10. Up-button | 17. DMX In |
| 4. NFC | 11. Pan Lock | 18. DMX Out |
| 5. Display | 12. Handle | 19. 3rd ethernet port for further uses (not connected yet) |
| 6. Left-button | 13. Power In | |
| 7. Down-button | 14. Valve | |

4. DRAWINGS

4.1 > FIXTURE DIMENSION



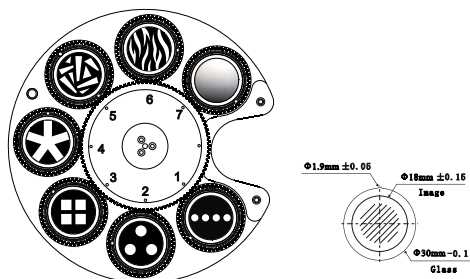
4.2 > COLOUR WHEEL



COLOUR WHEEL

1	CTB 1/4	GPG0100097
2	Magenta	GPG0100098
3	Congo Blue	GPG0100099
4	Green	GPG0100100
5	Orange	GPG0100101
6	Blue	GPG0100102
7	Red	GPG0100103

4.3 > ROTATING GOBO WHEEL

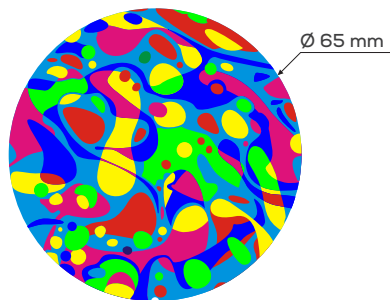


GOBO WHEEL

Rotating Gobo

1	314	Dot Line 4	GPG0500504
2	326	Dot Triangle 3	GPG0500506
3	332	Square Beam 4	GPG0500507
4	342	Five Spokes	GPG0500509
5	266	Breaking Glass	GPG0500505
6	098	Waves	GPG0500508
7	-	Scrim Filter	GPG0500662

4.4 > ANIMATION WHEEL



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.

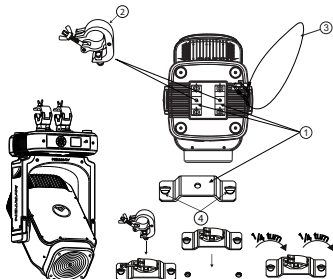
- These installations have to be approved by a skilled person once a year.
- Overhead mounting requires extensive experience, including amongst others calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the device. If you 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.

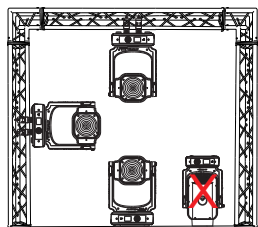


1. Omega bracket
2. Clamp
3. Safety rope
4. Quick-lock fastener

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.



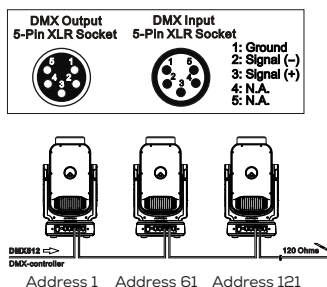
- WARNING!** Please ensure that under no circumstances should the lens be placed face down on any surface, including the ground, as this may cause damage to the lens or impair its optical performance.
- Be sure this fixture is kept at least 0.1 m away from any flammable materials (decoration etc.).
- 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).

6. DMX-512 CONTROL CONNECTION

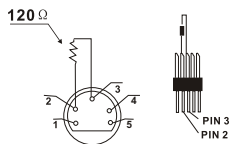
Connect the male side of the XLR cable to the female XLR output of your controller and the female side of the XLR cable to the male XLR input of the device. You can connect multiple devices together in a serial fashion. The cable needed should be two core, screened cable with XLR input and output connectors.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



7. DMX-512 CONNECTION WITH DMX TERMINATION

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 60 channel mode, you should set the starting address of the first unit to 1, the second unit to 61 (60 + 1), the third unit to 121 (60 + 61), and so on.

9. OPERATING INSTRUCTIONS OF THE INTERNAL DMX WIRELESS SYSTEM

9.1 › EQUIPMENTS

This product is equipped with a Lumen radio Timo DMX receiver.

9.2 › MESSAGE FROM THE LED INDICATOR

- Solid Green: Logged on to a transmitter and actively receiving DMX data.
- Solid Red: Not logged on to any transmitter (available) or not receiving DMX data.

9.3 › WDMX IN THE MENU OF THE FIXTURE

In the shortcut menu, you'll find the option "Unlink W-DMX." Selecting this will disconnect the fixture from its current transmitter.

9.4 › SET UP THE WIRELESS SYSTEM

To connect the fixture to a transmitter, the transmitter must be in pairing mode.








You can activate this mode by selecting "Unlink W-DMX" from the fixture's menu or by performing a factory reset on the fixture.

Once the transmitter is ready, press its pairing button to link the devices.

Important Notes:

- After each job, please log out all receivers from the transmitter. This ensures the receivers return to an unassigned state and are ready for future pairings.
- Do not connect a fixture that is wirelessly linked to a transmitter to a DMX controller via cable. Doing so may cause signal interference.

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 , , , 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 - V103

Address			
Address	DMX Address: 001-XXX Decimal Universe: XXXXX Net: XX Sub-Net: XX Universe: X Signal: DMX/WDMX/Art-Net/sACN	DMX Address Decimal Universe Net Sub-Net Universe Signal	
Mode			
User Mode	Extend Mode Stand Mode		User's mode to change channel numbers
Options			
Status	No DMX Mode Sun Protection Pan Reverse Tilt Reverse Pan Degree Tilt Degree Feedback Encoder Select Init PAN Init TILT Prerig INIT Reset Mode Pan/Tilt Spd CMY Spd Zoom/Focus Spd Framing Mode Reset LED Fade Hibernation DMX Output Data Collect 4G/Wifi Wifi Info	Close/Hold/Auto ON/OFF ON/OFF ON/OFF 630/360/360SC 270/540/360SC ON/OFF Photoelectric/Magnet ON/OFF ON/OFF ON/OFF Fast/All Rot Gobos Fast/Medium/Slow/FS Mode/Tracking360 Fast/Medium/Slow Fast/Medium/Slow Constant OFF/Constant ON ON/OFF OFF 01M-99M ON/OFF Agree/Disagree 4G/Wifi No/Yes	Auto run if no DMX Sun Protection Pan Reverse movement Tilt Reverse movement Pan Degree Select Tilt Degree Select Movement Feedback Encoder Select Init PAN Init TILT Prerig INIT Reset Mode Movement Speed CMY Spd Zoom/Focus Spd Framing Mode Reset LED Fade Stand by Mode DMX Output Data Collect Choose 4G or Wifi Wifi Information
Service PIN	Service PIN Set IP Set Mask IP Reset From Mac DHCP Iot Lock Enable Cross Load SW Clr Error Info	Password = XXX xxxx.xxx.xxx.xxx xxxx.xxx.xxx.xxx ON/OFF ON/OFF ON/OFF ON/OFF ON/OFF	Service Password *-050* Set IP Set Mask IP Reset From Mac DHCP Iot Lock Enable Cross Load SW Clr LED Timer
Fans Control	Fans Speed Constant Fans	Auto Stage Silence Super Silence ON/OFF	Fans Speed select Constant Fans
Disp.Setting	Shutoff Time Flip Display Key Lock DispFlash	02-60m ON/OFF ON/OFF ON/OFF	Display shutoff time Reverse 180 degree Key Lock DispFlash
Signal Select	Secondary Input Auto Switch Auto Sw. Timer	None DMX WDMX ArtNet sACN ON/OFF 5 Sec/10 Sec	Secondary Input Auto Switch Auto Sw. Timer
Temp. C/F	Celsius Fahrenheit		Temperature switch between °C / °F
Initial Pos.	PAN =XXX		Initial effect position
Dim Curve	Square Low Linear Linear Low		Dim Curve

Options			
Refresh Select	12K 2.4K 16K 25K	Refresh Select	
Defog	OFF Auto ON	Defog off Defog auto Defog on	
Gobo Correction	OFF/CTB/Cyan	Gobo Correction	
Reset P/T Fade	ON/OFF	Reset P/T Fade	
Frost (Progressive)	ON/OFF	Frost (Progressive)	
Trigger	DMX Value Disp. Auto Program	PAN.... Leader/Alone	DMX Value Disp. Auto Program
Reset Default	ON/OFF	Restore factory set.	
Reset Options	ON/OFF	Reset Options	
Reset User	Address	DMX address: 001-XXX Decimal Universe: XXXXX Net: XX Sub-Net: X Universe: X Signal: DMX/WDMX/Art-Net/sACN Encoder Select Photoelectric/Magnet	DMX Address Decimal Universe Net Sub-Net Universe Signal
	Mode	Extend Mode Stand Mode	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 Ttl Life Hrs Last Run Hrs LED Hours Current SW Hrs Timer PIN Clr Last Run	XXXX(Hours) XXXX(Hours) XXXX(Hours) XXXX(Hours) XXXX(Hours) Password = XXX ON/OFF	
Temp. Info	Temp. Info Reset Temp	XXX°C/°F Reset Temp	
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... LED: xxxxx...	SN	
RDM UID	UID: xxxxx-xxxxxx	RDM UID	

Test			
Home	All Pan&Tilt Colour Gobo Other		All Pan&Tilt Colour Gobo Other
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
Options			
Magn Auto Cal	-Password- Calibration		Magn Auto Cal
Gobo Replace	Gobo Wheel 1		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-- --Scene 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, the Universe and the selection of the control signal.

10.2 › MODE

10.2.1. User Mode

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

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 (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 or 540.

Tilt Degree

With this function, you can select the total Tilt degree range between 270 or 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.

Encoder select

This option allows you to choose the encoder for unit positioning (pan and tilt):

- **Magnetic Encoder:** Uses an Absolute encoder for faster resets, eliminating the need for a full reset spin.
- **Photoelectric Encoder:** Utilises a light sensor and optical encoder, requiring an end-stop rotation for calibration, resulting in a slower reset.

Init PAN

This function allows you to deactivate the Pan movement.

Init TILT

This function allows you to deactivate the Tilt movement.

Prerig INIT

- Allows you to activate a special initialisation process: Pan reset then Tilt reset process when unit is used in prerig trusses..

Reset Mode

This function allows you to choose the reset process for the gobo.

- **Fast:** The fixture only check the direction of the first gobo
- **All Rot Gobo:** The fixture is checking all the position of each gobo to make sure all the gobo are in the same position (Useful if using a custom Gobo)

Pan/Tilt Spd

With this function, you can select Pan & Tilt speed from "Fast", "Medium", "Slow", "FS Mode", "Tracking 360".

- **Tracking 360 Mode**
 - **Visual Feedback** – When activated, the fixture will pan 90 degrees from its normal position to indicate the mode is enabled.
 - **Pan & Tilt Adjustments** – In this mode, the pan range is limited to 360 degrees with a shortcut (-180 ° to +180 °) for smoother control. The tilt range remains unchanged. Make sure the correct tilt setting is selected (default is 270 °, with an option for "540 °).
 - **Enhanced Responsiveness** – Acceleration and deceleration are optimised for quicker, more precise tracking performance.
- **FS Mode**
 - **Enhanced Responsiveness** – Acceleration and deceleration are highly reactive to improve tracking performance.

CMY Spd

With this function, you can select CMY speed from "Fast", "Medium", "Slow".

Zoom/Focus Speed

With this function, you can select Zoom/Focus speed from "Fast", "Medium", "Slow".

Framing Mode

This feature controls the dimmer's behaviour when using the blades or iris, preventing heat-related distortion during extended use.

- **Constant OFF:** The light remains on for a set duration before dimming to protect the fixture.
- **Constant ON:** The light dims instantly when the blade/iris is in use, ensuring stable output power over time.

Reset LED Fade

Allows the Light output to fade out and in during the reset process

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

WDMX or ArtNet/sACN through the DMX output.

Data Collect

With this Function, you can activate the collection of data information for the IoT(The optional board is needed to use this option).

4G/Wifi

With this function, you can select between Wifi or 4G.

Wifi Info

This feature allows you to view the WiFi status and disconnect the current network using the «Clear» option.

10.3.2. Service PIN

Password

The Password for this function is "050".

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.

lot Lock Enable

Enable or Disable the lot Lock function (The optional board is needed to use this option).

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.

10.3.3. 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.

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.

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.

10.3.5. Signal Select

With this function, you can select the input control between DMX/ WDMX/sACN/Artnet.

10.3.6. Temperature C/F

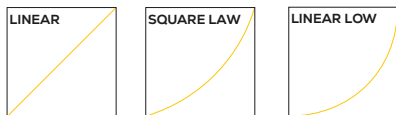
With this function you can display the temperature in Celsius or Fahrenheit.

10.3.7. Initial Pos.

With this function you can display initial effect position.

10.3.8. Dim Curve

With this function you can select the Dimmer Curve.



10.3.9. Refresh Select

With this function you can select the PWM rate.

- 12K & 24K : provides superior dimming quality, especially for smooth fadeouts at lower levels.
- 16K & 25K : are ideal for broadcast use.

10.3.10. 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.

10.3.11. Gobo Correction

This function allows you to enable or disable the Gobo Correction, The Unit will automatically insert a correction filter when a glass gobo is inserted.

10.3.12. Reset P/T Fade

This function allows you to choose the reset speed of the pan/tilt motors to avoid fast movement.

10.3.13. Frost (Progressive)

This function allows you to enable or disable the progressive insertion of the frost.

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.

Set to Follower

With this function, you can define the device as slave.

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.

10.3.15. Reset Default

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

10.3.16. Reset Options

This function restores only the altered options settings (highlighted values in the chart above) to their default state.

10.3.17. Reset User

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

- Address
- Mode
- Fans Speed
- Constant Fans

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.

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.

Current SW Hrs

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

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.

10.4.2. Temp.Info

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

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

10.4.3. Humidity

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

- B: Base
- H: Head

10.4.4. Encoder Info

This function allows you to view the encoder values.

10.4.5. Fan Info.

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

10.4.6. LED Type

With this function, you can display the Led Type, S/TC/ST

10.4.7. Software Ver

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

10.4.8. Signal Quality

When IOT Board is connected, this menu shows the signal quality (Wifi/4G).

10.4.9. Network

With this function, you can display the Network information.

10.4.10. Error Info

With this function, you can Read the error record of the Unit.

10.4.11. SN

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

10.4.12. RDM UID

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

10.5 > TEST**10.5.1. Home**

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

10.5.2. Test Channel

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

10.5.3. Manual Control

Allows you to manually control each feature of the unit

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.

10.5.5. CMY Comp

With this function, you can calibrate and adjust the CMY compensation values.

10.5.6. Magn Auto Cal

This Function allow you to Automatically calibrate the Absolute encoder using the Photoelectric one.

10.5.7. Gobo Replace

This function allows you to select the gobo you want to replace. The chosen gobo will be rotated into position, making it easy to swap out.

10.6 > PRESET

Run the auto program: A leader fixture can output to three different program signals to the follow 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 follow 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-follow 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:****10.7 > SHORTCUT MENU****10.7.1. Flip display**

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

10.7.2. Restore Factory

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

10.7.3. Reset Options

This function restores only the altered options settings (highlighted values in the chart above) to their default state.

10.7.4. Restore User

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

10.7.5. Rst DMX addr 1

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

10.7.6. Product SN

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

10.7.7. LED SN

With this function, you can display the serial number of the LED.

10.7.8. RDM UID

With this function, you can display the RDM UID of the Unit (Also QRCode)

10.7.9. Unlink WMDX

This function allows you to disconnect the fixture from its current WMDX transmitter.

10.7.10. Pressure

Under this menu, you can manage the pressure of the Unit :

- Pressure Test: Under this menu you can Run the Pressure test
- Test Result: Under this menu you can display the result of the last pressure test
- Head/Base Pres: Under this menu you can display the value of the Head and Base Pressure

11. 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

12. DMX PROTOCOL

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

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 Error

(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 Error

(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 Error

(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 Error

(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.

Colour wheel Error

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

Cyan Colour wheel Error

(Cyan Colour 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 Colour wheel Error

(Magenta Colour 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 Colour wheel Error

(Yellow Colour 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 Colour wheel Error

(CTO Colour 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 Error

(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.

Animation wheel Error

(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 Error

(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 wheel Error

(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.

Blade 1 wheel Error

(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.

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!



Never use alcohol or solvent to clean the lenses.



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!

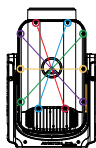


Ayrton IP Kit

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.

	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

To ensure that the cover is pressed evenly all around the seal, we recommend following the attached tightening order:



- 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.
- 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. 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.

