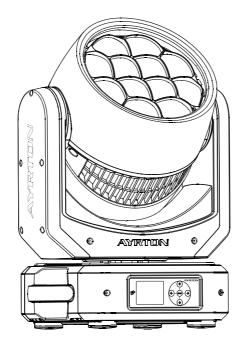


nando 502





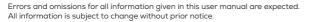


NANDO 502 WASH | MULTI-SOURCES IP65 6 SERIES

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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.



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 bestored 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.

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.

Under no circumstances should the fixture be pointed at the sun. Sunlight, combined with the high efficiency lenses used in the product can cause significant damage to the fixture.

Be aware that even when lens is not pointed directly at the sun damage may occur. It is best practice to ensure that the lens is

pointed away from the sub, preferably in the opposite direction.

Always dry and clean your fixture before storing it for any length of time.

Never use any abrasive cleaning products on the fixture as this may damage the coating of the fixture impacting its anti-corrosion protection.

- 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.
- 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 1 meter.

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.

2. FEATURES

POWER SUPPLY

- AC100-240 V~, 50/60 Hz
- Power Consumption: 550 W

OPTICS

- Beam aperture: 3.5° to 53°
- 210 mm front lens cluster

LIGHT SOURCE

- 12 x 40 W RGB-L High-Power LED sources
- CRI: Greater than 86

MOVEMENT

- Pan and tilt automatic repositioning
- Range: 540°/630° pan & 232° tilt

COLOURS

- Sophisticated 4 colours RGB-L mixing
- Virtual colour wheel, including most usual white colour temperature presets

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
- Individual control of each pixels

DIMMER / STROBE

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

HARDWARE FEATURES

- $\, \blacksquare \,$ Graphic LCD display with flip function
- 5 menu buttons to set functions
- Integrated wireless LumenRadio $^{\text{\tiny{TM}}}$ receiver
- IP65 XLR 5 pin connectors
- IP65 RJ45 connectors
- IP65 PowerCON TRUE1 TOP connectors

CONTROL

- DMX 512 protocol
- DMX-RDM compatible
- Stand-alone mod, local control panel
- $\,\blacksquare\,$ ArtNet $^{\!\scriptscriptstyle\mathsf{TM}}$ & sACN protocol through Ethernet cable
- Choice of 4 DMX modes (26 to 86 DMX channels)

COOLING SYSTEM

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

HOUSING

- Skeleton made of aluminium and steel plates
- Base in die-cast aluminium
- Heatsinks in aluminium and copper
- Moulded covers ABS PC (V0 class)
- 2 sides handles for transportation
- 4 heavy-duty feet
- IP65 protection rating (IP66 optional)

INSTALLATION

- 2 Omega ¼ turn brackets
- 4 1/4 turn mounting points

• Safety cable attachment point

OPERATING PARAMETERS

- Maximum permitted: 45 °C (113 °F)
- Minimum permitted: -20 °C (-4 °F)
- Minimum usage distance: 1 m (3.28 ft)

COMPLIANCE

■ CE, UKCA, ETL

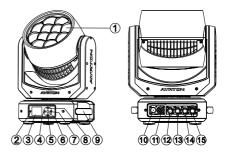
SIZE

- Product: 342 x 447 x 268 mm (l x h x d)
- Foam: 395 x 480 x 335 mm (l x h x d)

WEIGHT

■ Product: 15.6 kg

3. FIXTURE OVERVIEW



	Lenses Assembly	6.	Center-button	11.	Power Out
2.	NFC	7.	Right-button	12.	RJ45 In

NFC
 Right-button
 Display
 Up-button

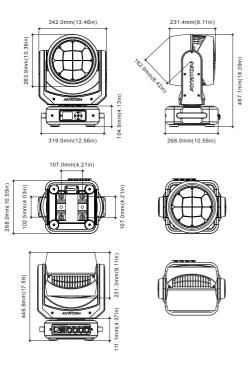
Display
 Up-button
 RJ45 Out
 Left-button
 Handle
 DMX In

Lert-button 9. Hanale 14. DMX in

5. Down-button 10. Power In 15. 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 yo urself. Improper installation can result in bodily injury.

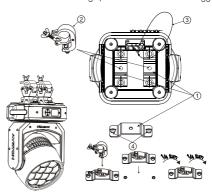
5.2 > RIGGING USING THE OMEGA BRACKETS

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 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.



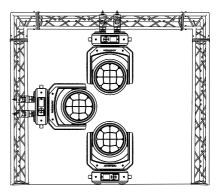
- 1. Omega bracket
- Safety rope

- 2. Clamp
- 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

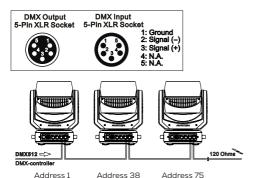


- Be sure this fixture is kept at least 0.1 m away from any flammable materials (decoration etc.).
- Always use and install a supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.
- Rig the projector high enough to provide clearance for people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

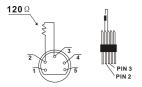
Connect the male side of the XLR cable to the female XLR output of your controller and the female side of the XLR cable to the male XLR input of the device You can connect multiple devices together in a serial fashion The cable needed should be two core, screened cable with XLR input and output connectors.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



7. DMX-512 CONNECTION WITH DMX 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 86 channel mode, you should set the starting address of the first unit to 1, the second unit to 87 (86+1), and the third unit 173 (86+87) 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 > W-DMX 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 > SETTING 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 LCD display with buttons is for addressing, special functions & parameters settings, local control, information query and etc...
- The main menu is accessed by double clicking button until the display starts flashing.
- Browse through the menu by pressing $(\bigcirc, (\bigcirc, (\bigcirc))$ 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 - V112

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/WDMX/Art-Net/sACN				
Effect	FollowMain DMX Address: XXX Decimal Universe: XXXX Net: XX Sub-Net: X Universe: X Signal	DM/OFF DMX Address Decimal Universe Net Sub-Net Universe DMX/WDMX/Art-Net/sACN				

Address				
Pwr LED Pix	FollowMain DMX Address:xxx Decimal Universe:x Net:xx Sub-Net:x Universe:x Signal	ON/OFF DMX Address Decimal Universe Net Sub-Net Universe DNX/WDMX/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 Sun Protection Pan Reverse Tilt Reverse Pan Degree Feedback Init TILT Pan/Tilt Spd Hibernation DMX Output Data Collect	Close/Hold/Auto DIV/OFF ON/OFF ON/OFF 630/S40 DIV/OFF ON/OFF ON/OFF OIM/OFF OIM/OFF OIM/OFF OIM/OFF OIM/OFF OIM/OFF OIM/OFF ON/OFF OIM/OFF OIM/OFF OIM/OFF OIM/OFF OIM/OFF	Auto run if no DMX Sun Protection Pan Reverse movement Tilk Reverse movement Pan Degree Select Movement Feedback Init PAN Init TILT Movement Speed Standby Mode DMX Output	
Service PIN	Service PIN RDM UID Set IP Set Mask Reset From MAC DHCP lat Lock Enable Cross Load SW Clr Error Info Set LED BIN	Possword = XXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Service Password*=050* RDM IUD Set IP Set Mask Reset From Mac DHCP Iot Lock Enable Cross Load SW CIF Error Info Set LED BIN	
Fans Control	Fans Speed	Auto Stage Silence Super Silence	Fans Speed select	
	Constant Fans	ON/OFF	Constant Fans	
Disp.Setting		02~60m 05m ON/OFF ON/OFF ON/OFF	Display shutoff time Reverse 180 degree Key Lock DispFlash	
Temp. C/F	Celsius Fahrenheit	Temperature switch between °C/°F		
Initial Pos.	PAN =XXX		Initial effect position	
Dim Curve	Square Law Linear		Dime Curve	
IP From Mac	ON/OFF		IP From Mac	
Refresh Select	1.2K 2.4K 16K 25K	Refresh Select		
Tungsten Lamp	OFF 500 W 1000 W 2500 W 5000 W	Tungsten Lamp		
Defog	OFF/Auto/ON	Defog		
Trigger	DMX Value Disp. Auto Program Leader/Alone		DMX Value Disp. Auto Program	
Reset Default	ON/ <u>OFF</u>		Restore factory set.	
	ON/OFF		Restore Options.	

Options					
Reset User Set	Address	the same as menu Address below	DMX address setting		
	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 Ttl Life Hrs Last Run Hrs LED Hours Current SW Hrs Timer PIN CIr Last Run		XXXX(Hours) XXXX(Hours) XXXX(Hours) XXXX(Hours) XXXX(Hours) XXXX(Hours) Password = XXX ON/		
Temp. Info	XXX°C/°F		Temp. Info		
Humidity	x%	-	Humidity		
Fan Info.	xxxx RPM		Fan information		
Software Ver	V1.0		Software version		
Signal Quality	xxx	Signal quality			
Network	IP, Mask, Mac	Network			
Error Info.	Error Record 1 :	Error Info.			
SN	xxxxx	SN			
Test					
Home	All Pan&Tilt ZOOM		Reset All 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		
Pressure	Pressure Test Test Result Head/Base Pres	Pressure			
Preset					
Select Prog.	Prog. Part 1 = Prog Prog. Part 2 = Prog Prog. Part 3 = Prog	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. Main

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

10.1.2. Effect

With this function, you can adjust the DMX address, the Universe

and the selection of the control signal

10.1.3. Pwr LED pix

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 O), 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 Dearee

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

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

This function allows you to select the Pan and Tilt speed from four options: Fast, Medium, Slow, FS Mode and Tracking 360.

Zoom Spd

With this function, you can select Zoom/Focus 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 WDMX or ArtNet/sACN through the DMX output.

Data Collect

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

10.3.2. Service PIN

Password

The Password for this function is "050".

RDM UID

This function allows you to set the IP 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.

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.

CIr Error Info

This function allows you to clear the error info list.

Set LED BIN

This function allows you to set the LED BIN of the LED Board.

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. Temperature C/F

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

10.3.6. Initial Pos.

With this function you can display initial effect position.

10.3.7. Dim Curve

With this function you can select the Dimmer Curve.





10.3.8. Refresh Select

With this function you can select the PWM rate.

- 1.2K & 2.4 : provides superior dimming quality, especially for smooth fadeouts at lower levels
- 16K & 25K : are ideal for broadcast use

10.3.9. Tungsten Lamp

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

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 $45\,^{\circ}\mathrm{C}$

10.3.11. 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.

10.3.12. Reset Default

10.3.13. Reset Options

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

10.3.14. 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.

CIr 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. Fan Info.

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

10.4.5. Software Ver

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

10.4.6. Network

With this function, you can display the Network information.

10.4.7. Error Info

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

10.4.8. SN

With this function, you can display the serial number 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.

10.6 > 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 hostfollow 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:



10.7 > SHORTCUT MENU

10.7.1. Flip display

With this function you can rotate the display by $180\ensuremath{^\circ}$ (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. Restore User

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

10.7.4. Rst DMX addr 1

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

10.7.5. Rst Options

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

10.7.6. Unlink WDMX

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

10.7.7. Product SN

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

10 7 8 I FD SN

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

10.7.9. RDM UID

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

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://grstud.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 12 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- 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- 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.

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



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.

	Minimum value		Maximu	um value	Steady time (Hold time)
	Кра	Psi	Кра	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 diecasting covers HEX screws at the right torque value.

Use a Torque Screwdriver set at 14Kgf.cm (1.4 Nm) for metal cover or 7Kgf.cm (0.7 Nm) 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 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.

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.



