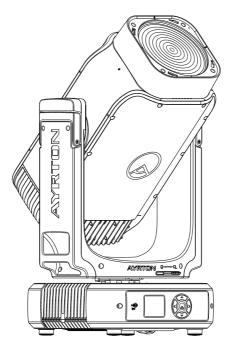


# RIVALE WASH





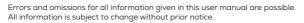


#### **RIVALE WASH I ULTIMATE IP65 3 SERIES**

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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.

- If the device has been exposed to temperature changes due to environmental conditions, do not power on immediately. The resulting condensation could damage the device. Leave the device powered off until it has reached room temperature.
- Ensure the sealing rubber covers of powerCON TrueOne and XLR connectors are fitted properly when the device is not in use, to avoid water ingress.

- This device falls under protection-class I. Therefore, it is essential
  that the device be earthed.
- If either lenses or display are damaged (damage may include cracks or gashes in the material) they must be replaced.
- Electrical connections, such as replacing the power plug, must be performed by a qualified person.
- Make sure that the available voltage is not higher than that which is stated in this manual.
- Make sure the power cord is never crushed or damaged by sharp edges. If this should be the case, replacement of the cable must be done by an authorized dealer.
- If the external flexible power cord of this device is damaged, it shall be exclusively replaced by the manufacturer or their service agent or a similar qualified person in order to avoid injury.
- When the device is not in use or before performing maintenance, always disconnect the device from the mains. Only handle the power cord from the plug. Never pull the plug out of a socket by tugging the power cord.
- When powered on for the first time, some smoke or smell may occur. This is caused by coating on metal parts when heated and is normal. If you are concerned, please contact your distributor.
- Do not focus the beam onto flammable surfaces. The minimum distance between the exiting lens of the device and the illuminated surface must be greater than 3 meter.

#### 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.
- $\bullet$  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: 700 W maximum

#### OPTICS

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

#### LIGHT SOURCE

- 430W LED white light engine
- Colour temperature output:
- · Rivale Wash S: 6500 K
- · Rivale Wash TC: 6000 K
- CRI
- Rivale Wash S: 70
- · Rivale Wash TC: 95

#### MOVEMENT

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

#### COLOURS

- Sophisticated CMY colour mixing
- Variable CTO
- Variable CRI channel
- Fixed colour wheel with 7 complementary colours

#### GOROS

- Indexable rotating gobo wheel with 7 HD glass gobos
- 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

0% to 100% variable linear frost

# **EFFECTS**

- Focusable CMY & RGB graphic animation effect wheel with continuous rotation in both directions
- Indexable de-focusable rotating beam-shaper optic

# 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<sup>™</sup> & 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 voke
- 4 heavy-duty feet
- IP65 protection rating (IP66 optional)

#### INSTALLATION

- 2 Omega 1/4 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: 3 m (9.84 ft)

#### COMPLIANCE

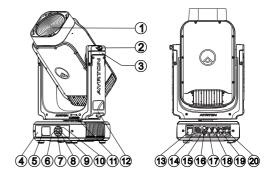
CE, UKCA, ETL

# SIZE

- Product: 360 x 676 x 316 mm (l x h x d)
- Flight-case foam: 485 x 565 x 560 mm (I x h x d)

Product: 30.8 kg

#### 3. FIXTURE OVERVIEW



- 1. Front Lens
- 2. Tilt Lock
- 3. Handle
- 4. NFC
- 5. Display

- 6 Left-button 7. Down-button
- 12. Handle
  - 13. Power In
  - 14. Power Out

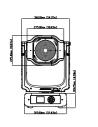
11. Pan Lock

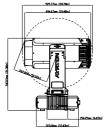
- 8. Center-button 15. Valve 9. Right-button 16. Fuse 10. Up-button 17. RJ45 In

  - 18. RJ45 Out
  - 19. DMX In
  - 20. DMX Out

# 4. DRAWINGS

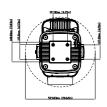
# 4.1 > FIXTURE DIMENSION













# 4.2 > COLOUR WHEEL





# **COLOUR WHEEL**

1	CTB 1/4	GP60305032892
2	Magenta	GP60305032893
3	Congo Blue	GP60305032894
4	Green	GP60305032895
5	Orange	GP60305032896
6	Blue	GP60305032897
7	Red	GP60305032895

#### 4.3 > ROTATING GOBO WHEEL

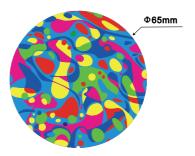




# **GOBO WHEEL**

Rotat	Rotating Gobo						
1		Dot Line 4	GPG0500162				
2	326	Dot Triangle 3	GPG0500164				
3		Square Beam 4	GPG0500165				
4		Five Spokes	GPG0500167				
5	266	Breaking Glass	GPG0500166				
6	-	Waves	GPG0500163				
7	-	Scrim Filter	GPG0500396				

# 4.5 > 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.

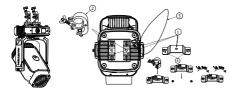
- These installations have to be approved by a skilled person once a year.
- Overhead mounting requires extensive experience, including amongst others calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the device. If you 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 Φ13 hole in the middle of the bracket.
- Insert the quick lock fasteners of the first Omega holder into the respective holes on the bottom of the device. Tighten the quick lock fasteners fully clockwise.
- Install the second Omega holder.
- Pull the safety cable through the holes on the bottom of the base and over the trussing system or another suitable rigging point.
   Insert the end into the carabiner and tighten the safety screw.

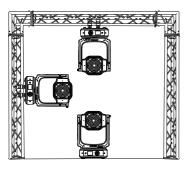


- 1. Omega bracket
- 2. Clamp
- 3. Safety rope
- Quick-lock fastener

# 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.



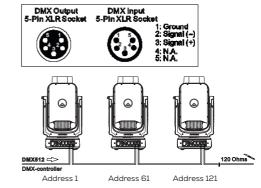
- Be sure this fixture is kept at least 0.1 m away from any flammable materials (decoration etc.).
- Always use and install a supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.
- Rig the projector high enough to provide clearance for people 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).

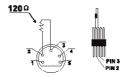
## 6. DMX-512 CONTROL CONNECTION

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 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  $\Omega$  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 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

DMX 512 controller, wireless transmitter, and the fixtures with wireless receiver

# 9.2 > MESSAGE FROM THE LED INDICATOR

- Rapid flashing red/Green: Logging in to a transmitter.
- Slow flashing Red/Green: Logged on a transmitter and the DMX line is idle (No DMX is connected to transmitter).
- Solid Green: Logged on to a transmitter and receiving DMX data.
- Solid Red: Not logged on to a transmitter (free).

#### 9.3 > WDMX IN THE MENU OF THE FIXTURE

On a fixture installed with wireless system, in order to switch between wireless control system and traditional DMX control (with cable), a new menu WDMX is added to the display board.

#### ON (Activate WDMX)

- When the fixture is on power and the WDMX is activated to ON status, but did not connect to the controller and did not log in to the transmitter, the fixture will search for the DMX signal source. If the fixture is connected to the DMX controller it can be controlled by DMX controller; if it is log in to the wireless transmitter, it can be controlled by the transmitter.
- When the fixture is power off, and the WDMX is in ON status, if the fixture is connected to DMX controller After the fixture is power on, it can be controlled only by the DMX controller which connected. The fixture can log in the wireless transmitter, and receive only radio signal from transmitter but not DMX from the transmitter.

# OFF (De-activate WDMX)

• In this status, wireless system is not activated, so the fixture can not log in the transmitter.

# REST (reset WDMX memory)

• Can remove the fixture from the connection with the transmitter, the fixture become free and ready to log in any transmitter.

#### 9.4 > SET UP THE WIRELESS SYSTEM

- Connect the transmitter with the DMX controller.
- To make the fixture installed with wireless receiver log in to the transmitter.
- Initially the indicator on the receiver fixture should be in Solid red.
- Press and hold the configuration button on transmitter for less than 3 seconds the red/green LEDs on the transmitter and the receiver fixture will flash rapidly for about 5~10 seconds while the system goes through its setup procedure.
- Once the receiver fixture is logged in to the transmitter (T1), the fixture with wireless receiver will keep the memory, even if restart the power, this unit will log in the transmitter (T1) automatically.
- Use the DMX 512 to control the fixture.

# 9.5 > REMOVE THE RECEIVERS FROM TRANSMITTER (T1) AND TO LOG IN TO ANOTHER TRANSMITTER (T2)

#### Case 1: Remove a receiver

- On the control board of the fixture, enter menu to activated the function of REST.
- The LED for wireless on the fixture should turn to Solid red; the receiver can log out from the transmitter (T1).
- Press the configuration button on transmitter (T2) for less than 3 second, then the fixture will start to connect with the transmitter

# Case 2: Remove all receivers from a transmitter (T1) to log in to T2 $\,$

- Press and hold the configuration button on the T1 as least 5 seconds, can clear the connection with all the fixtures.
- All the red/green LEDs on the receiver fixtures will turn to Solid red to indicate that the receivers are unassigned and removed from the transmitter (T1).

#### DS

- Please log the receivers out from the transmitter after every job so that the receivers are in free un assigned state and ready to be assigned to a transmitter.
- Do not connect the fixture which is under the communication of wireless system to the DMX controller, otherwise it will cause interference from the DMX controller.

#### 10. DISPLAY

- The Display offers several features: you can set the starting address run the pre-programmed program or reset the device.
- The main menu is accessed by double-clicking button until the display starts flashing.
- $\blacksquare$  Browse through the menu by pressing  $\bigodot$  ,  $\bigodot$  ,  $\bigodot$  or  $\bigodot$  button.
- Press for 2 seconds in order to exit menu, double-click for confirm. After accessing the edit mode, the unit will automatically exit to the main menu after 15 seconds from the last button press.
- When the unit is powered on if no data signal is connected after 1 minute then the display will switch off automatically.

# **DEFAULT SETTINGS SHADED** Address DMX Address: 001-XXX DMX Address setting Address Decimal Universe: XXXXX Decimal Universe Net- XX Sub-Net-XX Sub-Net Universe: X Universe Mode User Mode Extend Mode User's mode to change Stand Mode channel numbers User Mode A User Mode B User Mode C Edit User Max channel Preset Uder modes Mode A PAN ABC

Options			
Status	No DMX Mode	Close/Hold/Auto	Auto run if no DMX
	Sun Protection	ON/OFF	Sun Protection
	Pan Reverse	ON/OFF	Pan Reverse movement
	Tilt Reverse	ON/OFF	Tilt Reverse movement
	Pan Degree	630/540	Pan Degree Select
	Tilt Degree	270/540	Tilt Degree Select
	Feedback	ON/OFF	Movement Feedback
	Encoder Select	Photoelectric/Magnet	Encoder Select
	Init PAN Init TILT	ON/OFF ON/OFF	Init PAN Init TILT
	Prerig INIT	ON/OFF	Prerig INIT
	Reset Mode	Fast/All Rot Gobos	Reset Mode
	Pan/Tilt Spd	Fast/Medium/Slow	Movement Speed
	CMY Spd	Fast/Medium/Slow	CMY Spd
	Zoom/Focus Spd		Zoom/Focus Spd
	Reset LED Fade	ON/OFF	Reset LED Fade
	Hibernation	OFF, 01M~99M	Stand by Mode
	DMX Output	ON/OFF	DMX Output
	Data Collect	Agree/Disagree	Data Collect
	c : 5N	5 1 2007	c · n = 000
Service PIN	Service PIN	Password = XXX	Service Password"=050"
	Set IP Set Mask IP	XXX.XXX.XXXX.XXX	Set IP Set Mask IP
	Reset From Mac DHCP	ON/OFF ON/OFF	Reset From Mac
	lot Lock Enable	ON/OFF	lot Lock Enable
	Cross Load SW	ON/OFF	Cross Load SW
	Cir Error Info	ON/OFF	CIr LED Timer
	Cil Litor into		Circome
Fans	Fans Speed	Auto	Fans Speed select
Control		Stage	
		Silence	
		Super Silence	
	Constant Fans	ON/OFF	Constant Fans
Disp.Setting		02~60m 05m	Display shutoff time
	Flip Display	ON/OFF	Reverse 180 degree
	Key Lock	ON/OFF	Key Lock
	DispFlash	ON/OFF	DispFlash
Signal	DMX	<u>i</u>	DMX
Select	WDMX		WDMX
	Art-Net		Art-Net
	sACN		sACN
		•	
Temp. C/F	Celsius		Temperature switch
	Fahrenheit	-	between °C / °F
Initial Pos.	PAN =XXX		Initial effect position
Wireless DMX	Activate WDMX		Activate WDMX Rest WDMX
	Rest WDMX		Rest WDMX
Dim Curve	Square Law Linear		
	<u> </u>		
Refresh Select	1.2K		Refresh Select
Select	2.4K		
	16K		
	25K	-	
			Defog
Defog	OFF		1
Defog	Auto		
_	Auto		Gobo Correction
Gobo	Auto ON OFF	•	
Gobo	Auto ON		
Gobo Correction	Auto ON OFF Cyan CTB		Gobo Correction
Gobo Correction Reset P/T	Auto ON OFF Cyan		
Gobo Correction Reset P/T Fade Frost (Progressive)	Auto ON OFF Cyan CTB		
Gobo Correction Reset P/T Fade Frost (Progressive)	Auto ON OFF  Van CTB ON/OFF	PAN	Gobo Correction  Reset P/T Fade  Frost (Progressive)
Gobo Correction Reset P/T Fade Frost (Progressive)	Auto ON OFF Syan CTB ON/OFF  DMX Value Disp.	PAN Slave 1 Slave 2 Slave 3	Gobo Correction  Reset P/T Fade  Frost (Progressive)  DMX Value Disp.
Gobo Correction Reset P/T Fade	Auto ON OFF  Van CTB ON/OFF	PAN Slave 1, Slave 2, Slave 3 Master/Alone	Gobo Correction  Reset P/T Fade  Frost (Progressive)

Options			
Reset	ON/OFF		Restore factory set.
Default	CIVISIT	·	itestore ractory set.
Reset User	Address	DMX address: 001-XXX Decimal Universe: XXXXX Net: XX Sub-Net: X Universe: X	DMX address setting
	Mode	Extend Mode Stand Mode User Mode A User Mode B User Mode C	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 Timer PIN CIr Last Run		XXXX(Hours) XXXX(Hours) XXXXX(Hours) XXXXX(Hours) Password = XXX ON/OFF
Temp. Info	Head Temp.	•	XXX°C/°F
Humidity	x%	•	Humidity
Encoder Info	ххх		Encoder Info
Fan Info.	xxxx RPM		Fan information
LED Type	xxx		LED Type
Software Ver	V1.0		Software version
Signal Quality	xxx		Signal Quality
Network	IP, Mask, Mac	•	Network
Error Info.	Error Record 1		Error Info.
SN	Product: xxxxx LED: xxxxx	•	
Test			
Home	All Pan&Tilt Colour Gobo Other		Reset All Reset Pan&Tilt Reset Colour Reset Gobo Reset Others
Test Channel	PAN	_	Test function
Manual Ctrl.	PAN =XXX		Fine adjustment of the lamp
Calibration	-Password- PAN :		Password "050" Calbrate and adjust the effects to standard/right position
Cmy Comp	Service PIN C M :		Cmy Comp
Magn Auto Cal	-Password- Calibration		Magn Auto Cal

Test		-	
Magn P/T 50%	-Password- PAN TILT Calibration		Magn P/T 50%
Gobo Replace	Gobo Wheel 1		Gobo Wheel 1
Replace	Gobo Wheel 2		Gobo Wheel 2
Preset			
Select Prog.	Prog. Part 2 = Pro	gram 1 ~ 10 Program 1 ogram 1 ~ 10 Program 2 ogram 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		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. • Double-click the center button to access the main menu.

- Tap the <Up/Down> button until "Address" is displayed. • Double-click the center button to access "Address". Tap the <Up/
- Down button to select "Main". • Double-click the center button to access "Address" menu. The display will show "DMX Address: 001-XXX", "Decimal Universe:
- XXXXX", "Net: XX", "Sub-Net: X", "Universe: X", "Signal: DMX/ WDMX/Art-Net/sACN"
- Double-click the center button to confirm or long press the center button to return to the main menu.

# 10.2 > MODE

# 10.2.1. User Mode

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

- Double-click the center button to access main menu. Tap the <Up/</li> Down> button until "Mode" is displayed. Double-click the center
- Press (Up/Down), the display will show "User Mode".
- Double-click the center button to enter.
- When in "Extend Mode", press <Up/Down> button to select "Extend Mode", "Rivale Mode", "User Mode A", "User Mode B" and "User Mode C'
- Double-click the center button to confirm or long press the center button to return to the main menu.

# 10.2.2. Edit User Mode

With this function, you can adjust the user defined channel orders.

- Double-click the center button to access main menu. Tap the <Up/</li> Down> button until "Mode" is displayed. Double-click the center button to enter.
- Press (Up/Down), the display will show "Edit User Mode".
- Double-click the center button to enter.
- Set up "Max Channel=xxx" and select channel value.
- Set up "Mode B" and "Mode C" by the same way.
- Double-click the center button to confirm or long-press the center button to return to the main menu.

# 10.3 > OPTIONS

#### 10.3.1. Status

#### No DMX Status

With this function, you can choose the unit behavior in case no signal is detected between close, hold, and Auto.

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Options" is displayed.
- Double-click the center button to access "Options". Tap the <Up/</li> Down button to select "Status".
- Double-click the center button to access "Status" menu. Tap the <Up/Down> button to select "No DMX Status".
- Double-click the center button to access "No DMX Status". The display will show "Hold". Tap the <Up/Down> button to select "Close", "Auto".
- Double-click the center button to confirm or long-press the center button to return to the main menu.

#### Sun Protection

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

- Double-click the center button to access the main menu.
- Tap the <Up/Down> button until "Options" is displayed.
- Double-click the center button to access "Options". Tap the <Up/</li> Down> button to select "Status".
- Double-click the center button to access the "Status" menu. Tap the <Up/Down> button to select "Sun Protection".
- Double-click the center button to access "Sun Protection". The display will show "ON". Tap the <Up/Down> button to select "OFF".
- Double-click the center button to confirm or long-press the center button to return to the main menu.

#### Pan Reverse

With this function you can reverse the Pan-movement. Double-click the center button to access main menu.

- Tap the <Up/Down> button until "Options" is displayed.
- Double-click the center button to access "Options". Tap the <Up/ Down> button to select "Status". Double-click the center button to access "Status" menu. Tap the
- <Up/Down> button to select "Pan Reverse". • Double-click the center button to access "Pan Reverse". The
- display will show "OFF". Tap the <Up/Down> button to select "ON". Double-click the center button to confirm or long press the center
- button to return to the main menu

#### Tilt Reverse

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

- Double-click the center button to access the main menu.
- Tap the <Up/Down> button until "Options" is displayed.
- Double-click the center button to access "Options". Tap the <Up/ Down button to select "Status".
- Double-click the center button to access "Status" menu. Tap the <Up/Down> button to select "Tilt Reverse".
- Double-click the center button to access "Tilt Reverse". The display will show "OFF". Tap the <Up/Down> button to select "ON".
- Double-click the center button to confirm or long-press the center button to return to the main menu.

#### Pan Degree

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

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Options" is displayed.
- Double-click the center button to access "Options". Tap the <Up/ Down button to select "Status".
- Double-click the center button to access "Status" menu. Tap the <Up/Down> button to select "Pan Degree".
- Double-click the center button to access "Pan Degree". The display will show "540". Tap the <Up/Down> button to select "630".
- Double-click the center button to confirm or long-press the center button to return to the main menu.

# Tilt Degree

#### With this function, you can select Tilt degree for 270 or 540.

- Double-click the center button to access the main menu.
- Tap the <Up/Down> button until "Options" is displayed.
- Double-click the center button to access "Options". Tap the <Up/ Down> button to select "Status".
- Double-click the center button to access "Status" menu. Tap the 
   Up/Down> button to select "Tilt Degree".
- Double-click the center button to access "Tilt Degree". The display will show "270". Tap the <Up/Down> button to select"540".
- Double-click the center button to confirm or long-press the center button to return to the main menu.

#### Feedback

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

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Options" is displayed.
- Double-click the center button to access "Options". Tap the <Up/ Down> button to select "Status".
- Double-click the center button to access "Status" menu. Tap the 
   Up/Down> button to select "Feedback".
- Double-click the center button to access "Feedback". The display will show "ON". Tap the <Up/Down> button to select "OFF".
- Double-click the center button to confirm or long-press the center button to return to the main menu.

#### **Encoder Select**

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

# Init PAN

# This function allows you to deactivate the Pan movement.

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Options" is displayed.
- Double-click the center button to access "Options". Tap the <Up/ Downs button to select "Status".
- Double-click the center button to access "Status" menu. Tap the 
   Up/Down> button to select "Init PAN".
- Double-click the center button to access "Init PAN". The display will show "ON". Tap the <Up/Down> button to select "OFF".
- Double-click the center button to confirm or long press the center button to return to the main menu.

# Init TILT

#### This function allows you to deactivate the Tilt movement.

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Options" is displayed.
- Double-click the center button to access "Options". Tap the <Up/ Down> button to select "Status".
- Double-click the center button to access "Status" menu. Tap the <Up/Down> button to select "Init TILT".
- Double-click the center button to access "Init TILT". The display will show "ON". Tap the <Up/Down> button to select "OFF".
- Double-click the center button to confirm or long press the center button to return to the main menu.

# Prerig INIT

# Allows you to activate a special init process: Pan init then Tilt init process when unit is used in prerig trusses

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Options" is displayed.
- Double-click the center button to access "Options". Tap the <Up/ Down> button to select "Status".
- Double-click the center button to access "Status" menu. Tap the 
   Up/Down> button to select "Prerig INIT".
- Double-click the center button to access "Prerig INIT". The display will show "OFF". Tap the <Up/Down> button to select "ON".
- Double-click the center button to confirm or long press the center button to return to the main menu.

#### Reset Mode

# Allows you to choose between fast reset on complete gobo index reset (longer)

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

# Pan/Tilt Spd

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

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Options" is displayed.
- Double-click the center button to access "Options". Tap the <Up/ Down> button to select "Status".
- Double-click the center button to access "Status" menu. Tap the 
   Up/Down> button to select "Pan/Tilt Spd".
- Double-click the center button to access "Pan/Tilt Spd". The display will show "Fast". Tap the <Up/Down> button to select "Fast", "Medium", "Slow", "FS Mode".
- Double-click the center button to confirm or long press the center button to return to the main menu.

# CMY Spd

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

#### Zoom/Focus Spd

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Options" is displayed.
- Double-click the center button to access "Options". Tap the <Up/ Down> button to select "Status".
- Double-click the center button to access "Status" menu. Tap the 
   Up/Down> button to select "Zoom/Focus Spd".
- Double-click the center button to access "Zoom/Focus Spd".
   The display will show "Fast". Tap the <Up/Down> button to select "Fast", "Medium", "Slow".
- Double-click the center button to confirm or long press the center button to return to the main menu.

#### Reset LED Fade

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

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Options" is displayed.
- Double-click the center button to access "Options". Tap the <Up/ Down> button to select "Status".
- Double-click the center button to access "Status" menu. Tap the 
   Up/Down> button to select "Reset LED Fade".
- Double-click the center button to access "Reset LED Fade". The display will show "OFF". Tap the <Up/Down> button to select "ON".
- Double-click the center button to confirm or long press the center button to return to the main menu.

#### Hibernation

The device and stepper motors will be powered off if the unit stays without DMX signal for 15 mins (Factory default). The fixture will perform a reset sequence once DMX is back.

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Options" is displayed.
- Double-click the center button to access "Options". Tap the <Up/ Down> button to select "Status".
- Double-click the center button to access "Status" menu. Tap the <Up/Down> button to select "Hibernation".
- Double-click the center button to access "Hibernation". The display will show "OFF". Tap the <Up/Down> button to select"OIM", "OPM"... "99M"
- Double-click the center button to confirm or long press the center button to return to the main menu.

#### **DMX Output**

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Options" is displayed.
- Double-click the center button to access "Options". Tap the <Up/ Down> button to select "Status".
- Double-click the center button to access "Status" menu. Tap the 
   Up/Down> button to select "DMX Output".
- Double-click the center button to access "DMX Output". The display will show "OFF". Tap the <Up/Down> button to select "ON".
- Double-click the center button to confirm or long press the center button to return to the main menu.

#### Data Collect

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Options" is displayed.
- Double-click the center button to access "Options". Tap the <Up/ Down> button to select "Status".
- Double-click the center button to access "Status" menu. Tap the 
   Up/Down> button to select "Data Collect".
- Double-click the center button to access "Data Collect". The display will show "Disagree". Tap the <Up/Down> button to select "Agree".
- Double-click the center button to confirm or long press the center button to return to the main menu.

#### 10.3.2. Service PIN

#### Password

The Password for this function is "050".

#### Set IP

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Options" is displayed.
- Double-click the center button to access "Options". Tap the <Up/ Down> button to select "Service PIN".
- Double-click the center button to access "Service PIN" menu. Tap the <Up/Down> button to select "Set IP".
- Double-click the center button to access "Set IP". The display will show "XXX.XXX.XXX.XXX".
- Double-click the center button to confirm or long press the center

button to return to the main menu.

#### Set Mask IP

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

#### Reset From Mac

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Options" is displayed.
- Double-click the center button to access "Options". Tap the <Up/ Down> button to select "Service PIN".
- Double-click the center button to access "Service PIN" menu. Tap the <Up/Down> button to select "Reset From Mac".
- Double-click the center button to access "Reset From Mac". The display will show "OFF". Tap the <Up/Down> button to select "ON".
- Double-click the center button to confirm or long press the center button to return to the main menu.

#### DHCP

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

# lot Lock Enable

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Options" is displayed.
- Double-click the center button to access "Options". Tap the <Up/ Down> button to select "Service PIN".
- Double-click the center button to access "Service PIN" menu. Tap the <Up/Down> button to select "lot Lock Enable".
- Double-click the center button to access "lot Lock Enable". The display will show "OFF". Tap the <Up/Down> button to select "ON".
- Double-click the center button to confirm or long press the center button to return to the main menu.

# Cross Load SW

This function allows you to upload the current SW version to other units using a DMX connection. Do not disconnect the units before the process is done.

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

#### Cir Error Info

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Options" is displayed.
- Double-click the center button to access "Options". Tap the <Up/ Down> button to select "Service PIN".
- Double-click the center button to access "Service PIN" menu.
   Tap the <Up/Down> button to select "CIr Error Info"
- Double-click the center button to access "CIr Error Info".
   The display will show "OFF". Tap the <Up/Down> button to select "ON".
- Double-click the center button to confirm or long press the center button to return to the main menu.

#### 10.3.3. Fans Control

#### Fans Speed

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

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

#### **Constant Fans**

Allows you to choose that the fans run continuously even when the LED is off.

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

## 10.3.4. Disp. Setting

# Shut off Time

With this function, you can select the delay before the LCD display turns off. Choose between 2 to 60 minutes. The default is 5 minutes.

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

#### Flip Display

With this function you can rotate the display by  $180^{\circ}$  (when the unit is rigged)

- Double click the center button to access main menu.
- Tap the <Up/Down> button until "Options" is displayed.
- Double-click the center button to access "Display Setting" menu.
   Tap the <Up/Down> button to select "Flip Display".
- Double-click the center button to access "Flip Display". The display will show "OFF". Tap the <Up/Down> button to select.

Tap the <Up/Down> button to select "ON".

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

#### Kev 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.

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

#### DispFlash

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

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Options" is displayed.
- Double-click the center button to access "Options". Tap the <Up/ Down> button to select "Display Setting".
- Double-click the center button to access "DispFlash". The display will show "OFF". Tap the <Up/Down> button to select "ON".
- Double-click the center button to confirm or long press the center button to return to firm or long press the center button to return to the main menu.

# 10.3.5. Signal Select

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Options" is displayed.
- Double-click the center button to access "Options". Tap the <Up/ Down> button to select "Signal Select".
- Double-click the center button to access "Signal Select".
   The display will show "DMX". Tap the <Up/Down> button to select "DMX", "WDMX", "Art-Net", "sACN".
- Double-click the center button to confirm or long press the center button to return to the main menu

# 10.3.6. Temperature C/F

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

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Options" is displayed.
- Double-click the center button to access "Options". Tap the <Up/ Down> button to select "Temperature C/F".
- Double-click the center button to access "Temperature C/F". The display will show "Fahrenheit". Tap the <Up/Down> button to select "Celsius".
- Double-click the center button to confirm or long press the center button to return to the main menu.

# 10.3.7. Initial Pos.

With this function you can display initial effect position.

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Options" is displayed.
- Double-click the center button to access "Options". Tap the <Up/ Down> button to select "Initial Pos.".
- Double-click the center button to access "Initial Pos.". The display will show "PAN=XXX".
- Double-click the center button to confirm or long press the center button to return to the main menu.

#### 10.3.8. Wireless

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

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Options" is displayed.
- Double-click the center button to access "Options". Tap the <Up/ Down's button to select "Wireless".
- Double-click the center button to access "Wireless". The display will show "Activate WDMX". Tap the <Up/Down> button to select "Rest WDMX".
- Double-click the center button to confirm or long press the center button to return to the main menu.

#### 10.3.9. Dim Curve

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Options" is displayed.
- Double-click the center button to access "Options". Tap the <Up/ Down> button to select "Dim Curve".
- Double-click the center button to access "Dim Curve". The display will show "Square Law". Tap the <Up/Down> button to select "Linear"
- Double-click the center button to confirm or long press the center button to return to the main menu.

#### 10.3.10. Refresh Select

# With this function you can select the PWM rate.

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Options" is displayed.
- Double-click the center button to access "Options". Tap the <Up/ Down> button to select "Refresh Select".
- Double-click the center button to access "Refresh Select". The display will show "1.2K". Tap the <Up/Down> button to select "2.4K". "16K" "25K"
- Double-click the center button to confirm or long press the center button to return to the main menu.

# 10.3.11. Defog

When this function activated, head fans will run continuously to help removing the potential condensation

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Options" is displayed.
- Double-click the center button to access "Options". Tap the <Up/Down> button to select "Defog".
- Double-click the center button to access "Defog". The display will show "Auto". Tap the <Up/Down> button to select "OFF". "Auto". "ON".
- Double-click the center button to confirm or long press the center button to return to the main menu.

#### 10.3.12. Gobo Correction

When this function is activated, Colour flag correction will be added when a gobo is used in white, to correct the Colour shifting.

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Options" is displayed.
- Double-click the center button to access "Options". Tap the <Up/ Down button to select "Gobo Correction".
- Double-click the center button to access "Gobo Correction". The display will show "Cyan". Tap the <Up/Down> button to select "OFF", "Cyan", "CTB".
- Double-click the center button to confirm or long press the center button to return to the main menu.

#### 10.3.13. Reset P/T Fade

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Options" is displayed.
- Double-click the center button to access "Options". Tap the <Up/ Down> button to select "Reset P/T Fade".

- Double-click the center button to access "Reset P/T Fade". The display will show "OFF". Tap the <Up/Down> button to select "ON".
- Double-click the center button to confirm or long press the center button to return to the main menu.

# 10.3.14. Frost (Progressive)

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

# 10.3.15. 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.

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

#### Set To Slave

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

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Options" is displayed.
- Double-click the center button to access "Options". Tap the <Up/ Down> button to select "Trigger".
- Double-click the center button to access "Trigger" menu. Tap the 
   Up/Down> button to select "Set To Slave".
- Double-click the center button to access "Set To Slave". The display will show "Slave1", "Slave2", "Slave3".
- Double-click the center button to confirm or long press the center button to return to the main menu.

#### **Auto Program**

With this function, you can run the internal program. You can select the desired program under "Select program". You can set the number of steps under "Edit program". You can edit the individual scenes under "Edit scenes". With this function, you can run the individual scenes either automatically, i.e. with the adjusted Step-Time.

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Options" is displayed.
- Double-click the center button to access "Options". Tap the <Up/ Down> button to select "Trigger".
- Double-click the center button to access "Trigger" menu. Tap the 
   Up/Down> button to select "Auto Program".
- Double-click the center button to access "Auto Program". The display will show "Master", "Alone".
- Double-click the center button to confirm or long press the center button to return to the main menu.

# 10.3.16. Reset Default

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

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Options" is displayed.
- Double-click the center button to access "Options". Tap the <Up/

Down> button to select "Reset Default".

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

#### 10.3.17. Reset User

Allows you to set default User settings

#### Address

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Options" is displayed.
- Double-click the center button to access "Options". Tap the <Up/ Down> button to select "Reset User".
- Double-click the center button to access "Reset User" menu. Tap the <Up/Down> button to select "Address".
- Double-click the center button to access "Address". The display will show "DMX Address: 001-XXX", "Decimal Universe: XXXXXX", "Net: XX", "Sub-Net: X", "Universe: X", "Signal: DMX/WDMX/Art-Net/sACN".
- Double-click the center button to confirm or long press the center button to return to the main menu.

#### Mode

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

#### Fans Speed

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Options" is displayed.
- Double-click the center button to access "Options". Tap the <Up/ Down> button to select "Reset User".
- Double-click the center button to access "Reset User" menu. Tap the <Up/Down> button to select "Fans Speed".
- Double-click the center button to access "Fans Speed". The display will show "Auto". Tap the <Up/Down> button to select "Stage". "Silence". "Super Silence".
- Double-click the center button to confirm or long press the center button to return to the main menu.

#### Constant Fans

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Options" is displayed.
- Double-click the center button to access "Options". Tap the <Up/ Down> button to select "Reset User".
- Double-click the center button to access "Reset User" menu. Tap the <Up/Down> button to select "Constant Fans".
- Double-click the center button to access "Constant Fans". The display will show "OFF". Tap the <Up/Down> button to select "ON".
- Double-click the center button to confirm or long press the center button to return to the main menu.

#### 10.4 > INFO

#### 10.4.1. Time Info.

# **Current Time**

With this function, you can display the temporary running time of the device from the last power on. The display shows "XXXX".

"XXXX" stands for the number of hours. The counter is reset after turning the device off.

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

#### Ttl Life Hrs

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

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Info" is displayed.
- Double-click the center button to access "Info". Tap the <Up/ Down> button to select "Time Info.".
- Double-click the center button to access "Time Info.". Tap the <Up/Down> button to select "Ttl Life Hrs".
- Double-click the center button to access "Ttl Life Hrs". The display will show "XXXX (Hours)".
- Double-click the center button to confirm or long press the center button to return to the main menu.

#### Last Run Hrs

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

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Info" is displayed.
- Double-click the center button to access "Info". Tap the <Up/ Down> button to select "Time Info.".
- Double-click the center button to access "Time Info.". Tap the <Up/ Down> button to select "Last Run Hrs".
- Double-click the center button to access "Last Run Hrs". The display will show "XXXX (Hours)".
- Double-click the center button to confirm or long press the center button to return to the main menu.

#### LED Hours

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

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

#### Timer PIN

With this function. you can display the timer password.

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Info" is displayed.
- Double-click the center button to access "Info". Tap the <Up/ Down> button to select "Time Info.".
- Double-click the center button to access "Time Info.". Tap the <Up/ Down> button to select "Timer PIN".
- Double-click the center button to access "Timer PIN". The display will show "Password=038".
- Double-click the center button to confirm or long press the center button to return to the main menu.

#### Clr Last Run

With this function. you can clear last run time of the fixture. The display shows "ON" or "OFF". Press "Enter" to confirm.

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Info" is displayed.
- Double-click the center button to access "Info". Tap the <Up/ Down> button to select "Time Info.".
- Double-click the center button to access "Time Info.". Tap the <Up/ Down> button to select "Clear Last Run".
- Double-click the center button to access "Clear Last Run". The display will show "OFF". Tap the <Up/Down> button to select "ON".
- Double-click the center button to confirm or long press the center button to return to the main menu.

#### 10.4.2. Temp.Info

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

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Info" is displayed.
- Double-click the center button to access "Info". Tap the <Up/ Down> button to select "Temp Info".
- Double-click the center button to access "Time Info.". The display will show "XXX °C/ °F".
- Double-click the center button to confirm or long press the center button to return to the main menu.

# 10.4.3. Humidity

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

#### 10.4.4. Encoder Info

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Info" is displayed.
- Double-click the center button to access "Info". Tap the <Up/ Down> button to select "Encoder Info".
- Double-click the center button to access "Encoder Info". The display will show "xxx".
- Double-click the center button to confirm or long press the center button to return to the main menu.

#### 10.4.5. Fan Info.

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

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

#### 10.4.6. LED Type

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Info" is displayed.
- Double-click the center button to access "Info". Tap the <Up/ Down> button to select "LED Type".
- Double-click the center button to access "LED Type". The display will show "xxx".
- Double-click the center button to confirm or long press the center button to return to the main menu.

#### 10.4.7. Software Ver

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

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Info" is displayed.
- Double-click the center button to access "Info". Tap the <Up/ Down> button to select "Software Ver".
- Double-click the center button to access "Software Ver". The display will show "Ver x.x.x".
- Double-click the center button to confirm or long press the center button to return to the main menu.

# 10.4.8. Signal Quality

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

#### 10.4.9. Network

- $\, \blacksquare \,$  Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Info" is displayed.
- Double-click the center button to access "Info". Tap the <Up/ Down> button to select "Network".
- Double-click the center button to access "Network". The display will show "IP". Turn the center button to select "Mask". "Mac".
- Double-click the center button to confirm or long press the center button to return to the main menu.

# 10.4.10. Error Info

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

#### 10.4.11. SN

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

# 10.5 > TEST

# 10.5.1. Home

With this function you can reset the device via the buttons. You can select the different reset functions using the buttons.

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Test" is displayed.
- Double-click the center button to access "Test". Tap the <Up/ Down> button to select "Home".
- Double-click the center button to access "Home". The display will show "All". Tap the «Up/Down» button to select "All", "Pan&Tilt". "Colour", "Gobo". "Other".
- Double-click the center button to confirm or long press the center button to return to the main menu.

#### 10.5.2. Test Channel

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

#### correct operation

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Test" is displayed.
- Double-click the center button to access "Test". Tap the <Up/ Down> button to select "Test Channel".
- Double-click the center button to access "Test Channel". The display will show "Pan". Tap the <Up/Down> button to select other channel.
- Double-click the center button to confirm or long press the center button to return to the main menu.

#### 10.5.3. Manual Control

#### Allows you to manually control each feature of the unit

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

## 10.5.4. Calibration

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

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Test" is displayed.
- Double-click the center button to access "Test". Tap the <Up/ Down> button to select "Calibration".
- Double-click the center button to access "Calibration". The display will show "Password=050".
- Double-click the center button to confirm or long press the center button to return to the main menu.

# 10.5.5. Cmy Comp

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Test" is displayed.
- Double-click the center button to access "Test". Tap the <Up/ Down> button to select "Calibration".
- Double-click the center button to access "Cmy Comp". The display will show "Password=050".
- Double-click the center button to confirm or long press the center button to return to the main menu.

# 10.5.6. Magn Auto Cal

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Test" is displayed.
- Double-click the center button to access "Test". Tap the <Up/ Down> button to select "Magn Auto Cal".
- Double-click the center button to access "Magn Auto Cal". The display will show "Password=050".
- Double-click the center button to confirm or long press the center button to return to the main menu.

#### 10.5.7. Magn P/T 50%

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Test" is displayed.
- Double-click the center button to access "Test". Tap the <Up/ Down> button to select "Magn P/T 50%".
- Double-click the center button to access "Magn P/T 50%". The display will show "Password=050".
- Double-click the center button to confirm or long press the center button to return to the main menu.

# 10.5.8. Gobo Replace

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Test" is displayed.
- Double-click the center button to access "Test". Tap the <Up/

Down> button to select "Gobo Replace".

- Double-click the center button to access "Gobo Replace". The display will show "Gobo Wheel 1". "Gobo Wheel 2".
- Double-click the center button to confirm or long press the center button to return to the main menu.

# 10.6 > PRESET

- Double-click the center button to access main menu.
- Tap the <Up/Down> button until "Preset" is displayed.
- Double-click the center button to access "Preset". Tap the ⟨Up/ Down> button to select "Select prog.". "Edit prog.". "Edit Scenes".
   "Scenes Input".
- Double-click the center button to confirm or long press the center button to return to the main menu.

Run the auto program: A master fixture can output to three different program signals to the slave fixture to operate. It means the host will send cyclically in the following orders (The host will keep operating the program of Part 1). Then the slave fixture will make the selectively receiving according to its own set.

p		*		·				·	*	,	
Auto P Part	Pro Auto Pro 1 Part 2	Auto Pro Part 3	_,	Auto Pro Part 1	Auto Pro Part 2	Auto Pro Part 3	H	Auto Pro Part 1	Auto Pro Part 2	Auto Pro Part 3	٦

- If the slave fixture chooses Run For Slave 1 from the menu of 1-3, then it will receive the part 1's automatic program from link, in the same way, when the slave fixture chooses Run For Slave 2, then it will receive the part 2's automatic program from link.
- Enter the menu of 1-3 Function Mode---Set To Slave. Here to set machine operate which part of the program during the host-slave connection
- Enter the menu of 1-4, 1-5 Function Mode---Set To Master
- 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:

| Scene 10 | Scene 11 | Scene 12 | Scene 13 |



 Part 3:
 Scene 12
 Scene 13
 Scene 14
 Scene 15

# **11. NFC**

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

DMX channel's functions and their values (60 DMX channels) - V1

	de/ nnel		Value	Default Value	
Std	Ex				
1	1	PAN Movem	0-255	128	
2	2	Pan Fine 16I	pit	0-255	0
3	3	TILT Movem		0-255	128
4	4	Tilt Fine 16b	it	0-255	0
			Max to min speed	0-225	
	5	Speed Fan/Tilt	Blackout by movement	226-235	0
	,	Movement	Blackout by all wheel changing	236-245	
			No function	246-255	
			Stop rotation by spinout	0-63	
			Stop rotation by shortcut	64-127	0
5	6	Pan Motor Continuous Rotation	Forwards Pan rotation from fast to slow	128-189	
			No rotation	190-193	
			Backwards Pan rotation from slow to fast	194-255	
			Stop rotation by spinout	0-63	
			Stop rotation by shortcut	64-127	
6	7	Tilt Motor Continuous Rotation	Forwards Tilt rotation from fast to slow	128-189	0
			No rotation	190-193	
			Backwards Tilt rotation from slow to fast	194-255	
			Shutter closed	0-10	
			No fuction (Shutter open)	11-20	
7	8	Shutter, Strobe	Strobe effect slow to fast	21-117	15
			No fuction (Shutter open)	118-126	
			Pulse-effect in sequences	127-180	

Mo	de/ nnel		Function	Value	Default Value
•			No function (Shutter open)	181-191	
7	8	8 Shutter, Strobe	Random strobe effect slow to fast	192-245	15
			No function (Shutter open)	246-255	
8	9		nsity: 0 to 100%	0-255	0
9	10	Dimmer Inte	nsity Fine	0-255	0
10	11	Zoom From	Small To Big: From 4° to 57°	0-255	128
11	12	Zoom Fine		0-255	0
12	13	Focus: From	near to far	0-255	128
13	14	Focus Fine		0-255	0
			Auto Focus Off	0-50	
			5m	51-100	
	15	Auto Focus	7.5 m	101-150	0
			10 m	151-200	
			15 m	201-255	
	16	Auto Focus	Fine	0-255	0
		17 Colour Wheel	Open / white	0-3	0
			Colour 1: CTB 1/4	4-7	
			Colour 2: Magenta	8-11	
			Colour 3: Congo Blue	12-15	
			Colour 4: Green	16-19	
14	17		Colour 5: Orange	20-23	
	17		Colour 6: Blue	24-27	
			Colour 7: Red	28-31	
			Colour indexing	32-127	
			Forwards rainbow effect from fast to slow	128-189	
			No rotation	190-193	
			Backwards rainbow effect from slow to fast	194-255	
15	18	Colour Whe	el Fine	0-255	0
16	19	Cyan Colour	(0-white, 255-100% Cyan)	0-255	0
	20	Cyan Colour	0-255	0	
17	21	Magenta Co	0-255	0	
	22	Magenta Co	0-255	0	
18	23	Yellow Colou	0-255	0	
	24	Yellow Colou	ır Fine	0-255	0
19	25		(0-white, 255-100% CTO)	0-255	0

	de/ nnel		Function	Value	Default Value			
	26	CTO Colour	Fine	0-255	0			
20	27	CTP Colour	0-255	0				
	28	CTP Colour	0-255	0				
	29	Reserved	Reserved					
	30	Reserved						
	31	Reserved						
			Open	0-9				
			Rot. gobo 1: Dot Line 4	10-19				
			Rot. gobo 2: Dot Triangle 3	20-29				
			Rot. gobo 3: Square Beam 4	30-39				
			Rot. gobo 4: Five Spokes	40-49				
			Rot. gobo 5: Breaking Glass	50-59				
			Rot. gobo 6: Waves	60-69				
	32		Rot. gobo 7: Scrim Filter	70-77				
		Rotating	Gobo 1 shake slow to fast	78-93				
21		2 Gobo Wheel	Gobo 2 shake slow to fast	94-109	0			
			Gobo 3 shake slow to fast	110-125				
			Gobo 4 shake slow to fast	126-141				
			Gobo 5 shake slow to fast	142-157				
			Gobo 6 shake slow to fast	158-173				
			Gobo 7 shake slow to fast	174-189				
			Gobo wheel rotation forwards from fast to slow	190-221				
			No rotation	222-223				
			Gobo wheel rotation backwards from slow to fast	224-255				
			Gobo indexing	0-127				
		Rotating Gobo	Forwards gobo rotation from fast to slow	128-189				
22	33	Wheel, Index, Rotation	No rotation	190-193	0			
		Rotation	Backwards gobo rotation from slow to fast	194-255				
23	34	Rotating Go	bo Wheel Index, Rotation Fine	0-255	0			
			No rotation	0-7				
24	35	Animation	Forwards rotation from fast to slow	8-127	0			
<b>c</b> 4	35	Wheel	No rotation	128-135	U			
			Backwards rotation from slow to fast	136-255				
			Max. diameter to Min.diameter	0-191				
	37	Iris	Pulse closing fast to slow	192-223	0			
			Pulse opening slow to fast	224-255				

Mod			Function	Value	Default Value		
00	00	Beam	Open	0-127			
26	38	Shaper	Beam Shaper	128-255	0		
			Beam Shaper indexing	0-127	•		
	39	Beam Shaper	Forwards prism rotation from fast to slow	128-189			
27	39	Index, Rotation	No rotation	190-193	0		
			Backwards prism rotation from slow to fast	194-255			
	40	BeamShape	er Index, Rotation Fine	0-255	0		
28	41	Frost 1: 0-10	00%	0-255	0		
29	42	Blade 1A: O		0-255	0		
	43	Blade 1A Fir	ne: Open to Close Fine	0-255	0		
30	44	Blade 1B: O		0-255	0		
	45	Blade 1B Fir	ne: Open to Close Fine	0-255	0		
31	46		pen to Close	0-255	0		
	47	Blade 2A Fi	ne: Open to Close Fine	0-255	0		
32	48	Blade 2B: O	pen to Close	0-255	0		
	49	Blade 2B Fi	0-255	0			
33	50	Blade 3A: O	0-255	0			
	51	Blade 3A Fi	0-255	0			
34	52		Blade 3B: Open to Close				
	53		ne: Open to Close Fine	0-255	0		
35	54	Blade 4A: O	pen to Close	0-255	0		
	55		ne: Open to Close Fine	0-255	0		
36	56	Blade 4B: O	pen to Close	0-255	0		
	57	Blade 4B Fi	ne: Open to Close Fine	0-255	0		
37	58	All Blade Ro	tation: +/- 90°	0-255	128		
	59	All Blade Ro		0-255	0		
			unused	0-4			
			Display Off	5-9			
			Display On	10-14			
			Display Invert Off	15-19			
		Control, Reset,	Display Invert On	20-24			
38	60	Internal Programs	Auto fan control mode	25-26	0		
			Stage fan control mode	27-28			
			Silence fan control mode	29-30			
			Super Silence fan control mode	31-32			
			Constant Fans Off	33-34			

	de/ nnel		Function	Value	Default Value
			Constant Fans On	35-36	
			unused	37-44	
			Square Law	45-49	
			Linear	50-54	
			12 K	55-58	
			2.4 K	59-62	
			16 K	63-66	
			25 K	67-69	
			Gobo correction Off	70-74	
			Gobo correction On	75-79	
			All motor reset	80-84	
			Scan motor reset	85-87	
			Colours motor reset	88-90	
			Gobo motor reset	91-93	
			unused	94	
		Control, Reset, Internal Programs	Reset P/T Fade Off	95	
			Reset P/T Fade On	96	
			Other motor reset	97-99	
8	60		Frost Progressive Off	100-102	0
			Frost Progressive On	103-105	
			CMY speed Fast	106-108	
			CMY speed Medium	109-111	
			CMY speed Slow	112-114	
			unused	115-117	
			unused	118-120	
			Sun Protection Off	121-123	
			Sun Protection On	124-126	
			Pan Reverse Off	127-129	
			Pan Reverse On	130-132	
			Tilt Reverse Off	133-135	•
			Tilt Reverse On	136-138	
			Pan Degree 540°	139-141	
			Pan Degree 630°	142-144	
			Tilt Degree 540°	145-147	•
			Tilt Degree 270°	148-150	•
			Feedback Off	151-153	

Mode/ Channel			Function	Value	Default Value	
	60	Control, Reset, Internal Programs	Feedback On	154-156		
			Init PAN Off	157-159	0	
			Init PAN On	160-162		
			Init TILT Off	163-165		
			Init TILT On	166-168		
			Prerig INIT Off	169-171		
			Prerig INIT On	172-174		
38			Reset Mode (Fast)	175-177		
			Reset Mode (All Rot Gobos)	178-180		
			Pan/Tilt Spd Fast	181-183		
			Pan/Tilt Spd Medium	184-186		
			Pan/Tilt Spd Slow	187-189		
			Pan/Tilt F/S Mode	190		
			Pan/Tilt Tracking 360	191		
			unused	192		
			Zoom/Focus Spd Fast	193-195		
			Zoom/Focus Spd Medium	196-198		
			Zoom/Focus Spd Slow	199-201		
			Reset LED Fade Off	202-204		
			Reset LED Fade On	205-207		
			Defog Off	208-210		
			Defog Auto	211-213		
			Defog On	214-216		
			unused	217-255		

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

# PAN- movement Er

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

#### TILT- movement Er

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

#### Zoom wheel Er

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

#### Focus wheel Er

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

#### Colour wheel Er

(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 Er

(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 Er

(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 Er

(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 wheel Er

(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 Er

(Rot\_Gobolwheel - 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\_Gobol - movement is not located in the default position after the reset.

# Animation wheel Er

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

#### Iris wheel Fr

(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 offer the reset.

#### Prism 1 wheel Er

(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 Er

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

#### Blade 1\_Rot wheel Er

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

#### Blade 2 wheel Er

(Blade 2 wheel- error) This message will appear after the reset of the fixture if the head's magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the stepper motor is defective (or its driving IC on the main PCB). The Blade 2 - movement is not located in the default position after the reset.

# Blade 2\_Rot wheel Er

(Blade 2\_Rot wheel- error) This message will appear after the reset of the fixture if the head's magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the stepper motor is defective (or its driving IC on the main PCB). The Blade 2\_Rot - movement is not located in the default position after the reset.

#### Blade 3 wheel Er

(Blade 3 wheel- error) This message will appear after the reset of the fixture if the head's magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the stepper motor is defective (or its driving IC on the main PCB). The Blade 3 - movement is not located in the default position after the reset.

#### Blade 3\_Rot wheel Er

(Blade 3\_Rot wheel- error) This message will appear after the reset of the fixture if the head's magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the stepper motor is defective (or its driving IC on the main PCB). The Blade 3\_Rot - movement is not located in the default position after the reset.

#### Blade 4 wheel Er

(Blade 4 wheel- error) This message will appear after the reset of the fixture if the head's magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the stepper motor is defective (or its driving IC on the main PCB). The Blade 4 - movement is not located in the default position after the reset.

# Blade 4\_Rot wheel Er

(Blade 4\_Rot wheel- error) This message will appear after the reset of the fixture if the head's magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the stepper motor is defective (or its driving IC on the main PCB). The Blade 4\_Rot - movement is not located in the default position after the reset.

#### All Blade Rot wheel Er

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

#### Frost 1 wheel Er

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

#### 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



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		Maximum 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 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.



