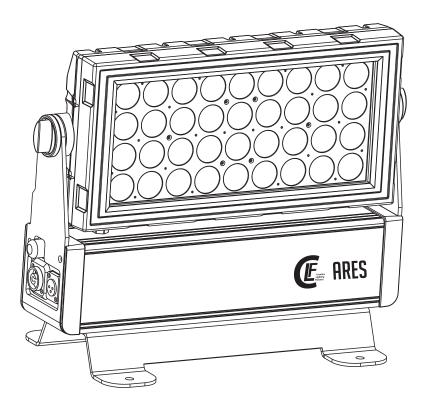


# **CLF ARES LEDWASH**

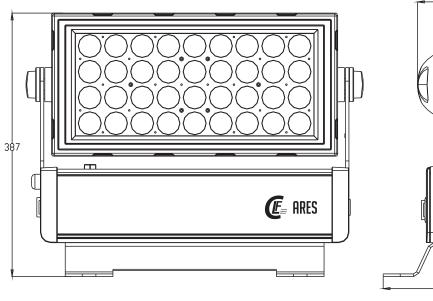


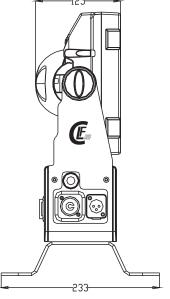
**V1.0 DECEMBER 2015** 

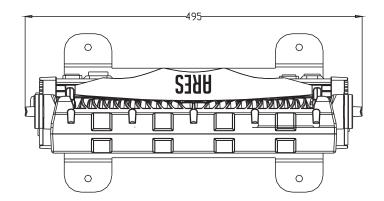


# **Dimensions**

All dimensions are in millimeters









# Safety Information



### **WARNING!**

Read the safety precautions in this section before installing, powering, operating or servicing this product

The following symbols are used to identify important safety information on the product and in this manual:



DANGER! Safety hazard. Risk of severe injury or death.



DANGER! Hazardous voltage. Risk of lethal or severe electric shock.



WARNING! Fire hazard.



WARNING! LED light emission. Risk of eye injury.



WARNING! Burn hazard. Hot surface. Do not touch.



WARNING! Wear protective eyewear.



WARNING! Refer to user



Warning! Risk Group 3 (high risk) LED product according to EN 62471. Do not look into the beam at a distance of less than 8.3 meters from the front surface of the product. Do not view the light output with optical instruments or any device that may concentrate the beam.



This product is for professional use only. It is not for household use.

This product presents risks of severe injury or death due to fire and burn hazards, electric shock and falls.

Read this manual before installing, powering or servicing the fixture, follow the safety precautions listed below and observe all warnings in this manual and printed on the fixture. If you have questions about how to operate the fixture safely, please contact your supplier



#### PROTECTION FROM ELECTRIC SHOCK

- Disconnect the fixture from AC power before removing or installing any cover or part and when not in use.
- Always ground (earth) the fixture electrically.
- Use only a source of AC power that complies with local building and electrical codes and has both overload and ground-fault (earth-fault) protection.
- Before using the fixture, check that all power distribution equipment and cables are in perfect condition and rated for the current requirements of all connected devices.
- Power input and throughput cables must be rated 20 A minimum, have three conductors 1.5 mm² (16 AWG) minimum conductor size and an outer cable diameter of 5 15 mm. Cables must be hard usage type (SJT or equivalent) and heat-resistant to 90° C minimum.
- Use only PowerCon true cable connectors to connect to power input sockets. Use only PowerCon true cable connectors to connect to power throughout sockets.
- Isolate the fixture from power immediately if the power plug or any seal, cover, cable, or other component is damaged, defective, deformed, wet or showing signs of overheating. Do not reapply power until repairs have been completed.



- Do not expose the fixture to rain or moisture.
- Refer any service operation not described in this manual to a qualified technician.
- Socket outlets used to supply fixture fixtures with power or external power switches must be located near the fixtures
  and easily accessible so that the fixtures can easily be disconnected from power.



#### PROTECTION FROM BURNS AND FIRE

- Do not operate the fixture if the ambient temperature (Ta) exceeds 40° C .
- The exterior of the fixture becomes hot during use. Avoid contact by persons and materials. Allow the fixture to cool for at least 10 minutes before handling.



- Keep all combustible materials (e.g. fabric, wood, paper) at least 100 mm away from the head.
- Keep flammable materials well away from the fixture.
- Ensure that there is free and unobstructed airflow around the fixture.
- Do not illuminate surfaces within 200 mm of the fixture.
- Do not attempt to bypass thermostatic switches or fuses.
- If you relay power from one fixture to another using power throughout sockets, do not connect more than five fixtures in interconnected chain.
- Do not stick filters, masks or other materials onto any optical component.
- Do not modify the fixture in any way not described in this manual

#### PROTECTION FROM INJURY

• Do not look continuously at LEDs from a distance of less than 8.3 meters from the front surface of the fixture without protective eyewear such as shade 4-5 welding goggles. At less than this distance, the LED emission can cause eye injury or irritation. At distances of 8.3 meters and above, light output is harmless to the naked eye provided that the eye's natural aversion response is not overcome.



- Do not look at LEDs with magnifiers, telescopes, binoculars or similar optical instruments that may concentrate the light output.
- Ensure that persons are not looking at the LEDs from within 8.3 meters when the product lights up suddenly. This can happen when power is applied, when the product receives a DMX signal, or when SERVICE menu items are selected.



- Fasten the fixture securely to a fixed surface or structure when in use. The fixture is not portable when installed.
- Ensure that any supporting structure and/or hardware used can hold at least 10 times the weight of all the devices they support.
- Allow enough clearance around the head to ensure that it cannot collide with an object or another fixture when
  it moves.



- Check that all external covers and rigging hardware are securely fastened.
- Block access below the work area and work from a stable platform whenever installing, servicing or moving the fixture.
- Do not operate the fixture with missing or damaged covers, shields or any optical component.

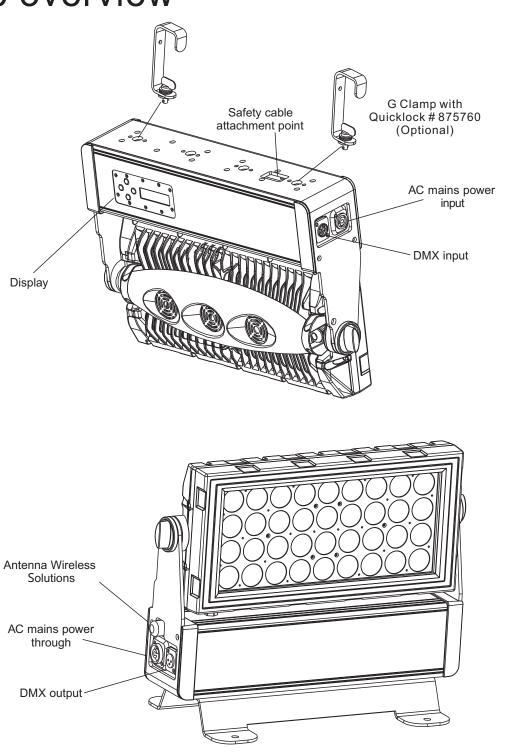


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# Fixture overview





## Introduction

- This CLF Ares fixture features:
- RGBW color control with color temperature control
- · 'Color wheel' color
- Onboard control panel and backlit LCD graphic display
- Smooth electronic dimming
- Electronic shutter with strobe and pulse effects
- Calibrated and raw modes
- Each line can be control independently
- Refresh frequency 600/1200/2400/4800 adjustable
- Wireless DMX multimode(2.4GHz) by Wireless Solution Sweden
- Master, Slave Function
- XLR 3-pole DMX standard sockets

### Using for the first time



Warning! Read "Safety Information" on page 3 before installing, powering, operating or servicing the fixture. Before applying power to the fixture:.

- Carefully review "Safety Information" starting on page 3.
- Check that the local AC mains power source is within the fixture's power voltage and frequency ranges.
- See "Power cables and power plug" on page 8. Install a PowerCon input connector on a suitable power cable. If drawing power from a mains power outlet, install a suitable power plug on the power cable.



# AC power



Warning! Read "Safety Information" starting on page 3 before connecting the fixrures to AC mains power.

Warning! For protection from electric shock, the fixture must be grounded (earthed). The powerdistribution circuit must be equipped with a fuse or circuit breaker and ground-fault (earth-fault)protection.



Warning! Socket outlets or external power switches used to supply the fixture with power must be located near the fixture and easily accessible so that the fixtures can easily be disconnected from power.

Important! Do not insert or remove live PowerCon connectors to apply or cut power, as this may cause arcing at the terminals that will damage the connectors.

Important! Do not use an external dimming system to supply power to the fixture, as this may cause damage to the fixture that is not covered by the product warranty.

The fixture can be hard-wired to a building electrical installation if you want to install it permanently, or a power plug that is suitable for the local power outlets can be installed on the power cable.

### Power voltage



Warning! Check that the voltage range specified on the fixture's serial number label matches the local AC mains power voltage before applying power to the fixture.

The fixtures accept AC mains power at 100-240 V nominal, 50/60 Hz. Do not apply AC mains power to the fixture at any other voltage than that specified on the fixture's serial number label.

### Power cables and power plug

Power input and throughput cables must be rated 20 A minimum, have three conductors 1.5 mm² (16 AWG) minimum conductor size and an outer cable diameter of 5 - 15 mm. Cables must be hard usage type (SJT or equivalent) and heat-resistant to 90° C minimum. In the EU the cable must be HAR approved or equivalent.

If you install a power plug on the power cable, install a grounding-type (earthed) plug that is rated 20 A minimum. Follow the plug manufacturer's instructions. Table 1 shows standard wire color-coding schemes and some possible pin identification schemes; if pins are not clearly identified, or if you have any doubts

Wire Color (EU models)	Wire Color (US models)	Conductor	Symbol	Screw (US)
brown	black	live	L	yellow or brass
blue	white	neutral	N	silver
yellow/green	green	ground (earth)	<b>⊕</b> or <b>±</b>	green

Table 1: Wire color-codig and power connections



## Data link

A DMX 512 data link is required in order to control a fixture via DMX.

The fixture has 3-pin XLR connectors for DMX data input and output. The pin-out on all connectors is pin 1 = shield, pin 2 = cold (-), and pin 3 = hot (+).

Or the fixture has 5-pin XLR connectors for DMX data input and output. The pin-out on all connectors is pin 1 = shield, pin 2 = cold (-), and pin 3 = hot (+). Pins 4 and 5 in the 5-pin XLR connectors are not used

### Connecting the data link

Use shielded twisted-pair cable designed for RS-485 devices: standard microphone cable cannot transmit control data reliably over long runs. 24 AWG cable is suitable for runs up to 300 meters. Heavier gauge cable and/or an amplifier is recommended for longer runs.

### Tips for reliable data transmission

To connect the fixture to data:

- 1. Connect the DMX data output from the controller to the closest fixture's male 3-pin XLR DMX input connector.
- 2. Connect the DMX output of the fixture closest to the controller to the DMX input of the next fixture and continue connecting fixtures output to input.



# DMX protocols

21CH	4CH	9CH	11CH	16CH	27CH	30CH	DMX Value	Function
1		1	1		1	1	0 - 19 20 - 24 25 - 64 65 - 69 70 - 84 85 - 89 90 - 104 105 - 109 110 - 124 125 - 129 130 - 144 145 - 149 150 - 164 165 - 169 170 - 184 185 - 189 190 - 204 205 - 209 210 - 224 225 - 229 230 - 244 245 - 255	Electronic shutter effect  Shutter closed  Shutter open  Strobe 1 (fast → slow)  Shutter open  Strobe 2: opening pulse (fast → slow)  Shutter open  Strobe 3: closing pulse (fast → slow)  Shutter open  Strobe 4: random strobe (fast → slow)  Shutter open  Strobe 5: random opening pulse (fast → slow)  Shutter open  Strobe 6: random closing pulse (fast → slow)  Shutter open  Strobe 7: burst pulse (fast → slow)  Shutter open  Strobe 8: random burst pulse (fast → slow)  Shutter open  Strobe 9: sine wave (fast → slow)  Shutter open  Strobe 10: burst (fast → slow)  Shutter open
2		2	2		2	2	0 - 255	Dimmer 0-100% intensity
3		3	3		3	3	0 - 39 40-44 45-49 50-54 55-59 60-64 65-69 70-74 75-89 90 - 94 95 - 99 100 - 104 105 - 109 110 - 114 115 - 119 120 - 124 125 - 129 130 - 134 135 - 139 140 - 144 145 - 149 150 - 154 155 - 159 160 - 164 165 - 169 170 - 174 175 - 179 180 - 239 240 - 244 245 - 249 250 - 255	Fixture control settings No function SILENT MODE (level 1)-70% fan speed 1 SILENT MODE (level 2)-40% fan speed 1 SILENT MODE (level 3)-20% fan speed 1 No function Fan mode FULL 1 Fan mode REGULATED 1 Fan mode SILENT 1 No function Calibrated color output mode - COLOR CALIB = ON 1 Manual calibration output mode - Manual calibration = ON 1 Raw color output mode - COLOR CALIB = OFF 1 No function Normal dimming, speed of changes unrestricted 1 No function Smooth dimming, speed of changes restricted slightly 1 No function 600 Hz Refresh rate 1200Hz Refresh rate 1200Hz Refresh rate 4800Hz Refresh rate 4800Hz Refresh rate No Function WDMX - ON 1 No Function WDMX - OFF 1 No Function WDMX - RESET 1 No Function IND Functi



4	21CH	4CH	9CH	11CH	16CH	27CH	30CH	DMX Value	Function
1   5   5   5   6   6   6   6   000 - 255   Green(0-100%)     2   6   6   6   6   000 - 255   Green(0-100%)     3   7   7   7   7   7   7   7   7   7			4	4		4	4		
2 6 6 6 6 000-255   Green(0-100%)   3 7 7 7 7 000-255   Blue(0-100%)   4 8 8 8 8 000-255   White(0-100%)   9 9 9 9 0000-009   No Function   Color temperature(2500K-10000K)   5 000-255   LED block 1 dimmer   4	-	1	5	5		5			Red(0-100%)
3	-								` '
4   8   8   8   8   000 - 255   White(0-100%)									,
9 9 9 9 9 000-009 010-255 LED block 1 dimmer  4 1 1 0 6 000-255 LED block 1-Red 1(0-100%)  5 2 11 7 000-255 LED block 1-Green 1(0-100%)  6 3 1 2 8 000-255 LED block 1-Blue 1(0-100%)  7 4 4 13 9 000-255 LED block 1-Blue 1(0-100%)  10 000-255 LED block 1-Blue 1(0-100%)  8 5 14 12 000-255 LED block 1-Blue 1(0-100%)  8 5 14 12 000-255 LED block 2-Red 2(0-100%)  9 6 6 15 13 000-255 LED block 2-Red 2(0-100%)  10 7 16 14 000-255 LED block 2-Red 2(0-100%)  11 8 17 15 000-255 LED block 2-White 2(0-100%)  11 8 000-255 LED block 2-Fade(dimmer speed)  12 9 18 18 000-255 LED block 3-Red 3(0-100%)  13 10 19 19 000-255 LED block 3-Red 3(0-100%)  14 11 20 20 000-255 LED block 3-Red 3(0-100%)  15 12 21 21 000-255 LED block 3-Blue 3(0-100%)  16 01 22 20 000-255 LED block 3-Blue 3(0-100%)  16 13 22 24 000-255 LED block 3-Red 4(0-100%)  18 15 24 26 000-255 LED block 4-Red 4(0-100%)  19 16 25 27 000-255 LED block 4-Red 4(0-100%)  10 00-255 LED block 4-Red 4(0-100%)  11 14 23 25 000-255 LED block 4-Red 4(0-100%)  12 19 16 25 27 000-255 LED block 4-Red 4(0-100%)  13 10 19 19 000-255 LED block 4-Red 4(0-100%)  14 20 20 000-255 LED block 4-Red 4(0-100%)  15 15 24 26 000-255 LED block 4-Red 4(0-100%)  16 26 29									
9 9 9 0 10 - 255									` '
4			9	9		9			
1							5	000-255	LED block 1 dimmer
6	4				1	10	6	000-255	LED block 1 -Red 1(0-100%)
7	5				2	11	7	000-255	LED block 1 -Green 1(0-100%)
10	6				3	12	8	000-255	LED block 1 -Blue 1(0-100%)
11	7				4	13	9	000-255	LED block 1 -White 1(0-100%)
8							10	000-255	LED block 1 -Fade(dimmer speed)
9 6 15 13 000-255 LED block 2 -Green 2(0-100%)  10 7 16 14 000-255 LED block 2 -Blue 2(0-100%)  11 8 17 15 000-255 LED block 2 -White 2(0-100%)  11 0 00-255 LED block 2 -Fade(dimmer speed)  11 000-255 LED block 3 dimmer  12 9 18 18 000-255 LED block 3 -Red 3(0-100%)  13 10 19 19 000-255 LED block 3 -Green 3(0-100%)  14 11 20 20 000-255 LED block 3 -Green 3(0-100%)  15 12 21 21 000-255 LED block 3 -Blue 3(0-100%)  16 12 21 21 000-255 LED block 3 -Fade(dimmer speed)  22 000-255 LED block 3 -Fade(dimmer speed)  23 000-255 LED block 4 dimmer  16 13 22 24 000-255 LED block 4 -Red 4(0-100%)  17 14 23 25 000-255 LED block 4 -Green 4(0-100%)  18 15 24 26 000-255 LED block 4 -Green 4(0-100%)  19 16 25 27 000-255 LED block 4 -Blue 4(0-100%)  28 000-255 LED block 4 -Fade(dimmer speed)  NO Function  NO Function  10 10 26 29							11	000-255	LED block 2 dimmer
10	8				5	14	12	000-255	LED block 2 -Red 2(0-100%)
10	9				6	15	13	000-255	LED block 2 -Green 2(0-100%)
16	10				7	16	14	000-255	LED block 2 -Blue 2(0-100%)
16	11				8	17	15	000-255	LED block 2 -White 2(0-100%)
12							16		LED block 2 -Fade(dimmer speed)
13							17	000-255	LED block 3 dimmer
14	12				9	18	18	000-255	LED block 3 -Red 3(0-100%)
15	13				10	19	19	000-255	LED block 3 -Green 3(0-100%)
10	14				11	20	20	000-255	LED block 3 -Blue 3(0-100%)
16	15				12	21	21	000-255	LED block 3 -White 3(0-100%)
16							22	000-255	LED block 3 -Fade(dimmer speed)
17							23	000-255	LED block 4 dimmer
18	16				13	22	24	000-255	LED block 4 -Red 4(0-100%)
19	17				14	23	25	000-255	LED block 4 -Green 4(0-100%)
28 000-255 LED block 4 -Fade(dimmer speed)  0-9 NO Function 10-19 AUTO 1 20-29 AUTO 2 180-189 AUTO 18 190-199 AUTO 19 200-255 AUTO cycle	18				15	24	26	000-255	LED block 4 -Blue 4(0-100%)
20 10 26 29 NO Function 20 10 26 29 180-189 AUTO 18 190-199 AUTO 19 200-255 AUTO cycle	19				16	25	27	000-255	LED block 4 -White 4(0-100%)
20 10 26 29 10-19 AUTO 1 20-29 AUTO 2  180-189 AUTO 18 190-199 AUTO 19 200-255 AUTO cycle							28	000-255	LED block 4 -Fade(dimmer speed)
20 10 26 29 AUTO 2 180-189 AUTO 18 190-199 AUTO 19 200-255 AUTO cycle								0-9	NO Function
20 10 26 29 180-189 AUTO 18 190-199 AUTO 19 200-255 AUTO cycle								10-19	AUTO 1
180-189 AUTO 18 190-199 AUTO 19 200-255 AUTO cycle								20-29	AUTO 2
190-199 AUTO 19 200-255 AUTO cycle	20			10		26	29		
190-199 AUTO 19 200-255 AUTO cycle								180-189	AUTO 18
200-255 AUTO cycle									AUTO 19
30 AUTO speed								200-255	AUTO cycle
							30		
21 11 27 NO Function	0.4			11		27			NO Function
21   11   27   AUTO Speed or Dimmer Speed	21			' '		21			AUTO Speed or Dimmer Speed



# Onboard control menus

Menu	Item	Options		Notes (Default settings in bold print)
DMX ADDRESS		1-XXX		Set DMX start address
		21CH		
		4CH		
		9CH		
CONTROL MODE		11CH		
		16CH		Select 21/04/09/11/16/27/30 channel setting
		27CH		
	Dimmer	30CH		0~100%
	Red	0-255		
		0-255		0~100%
STATIC COLOR	Green	0-255		0~100%
	Blue	0-255		0~100%
	White	0-255		0~100%
	Strobe	(0-20)		(0~20Hz)Select strobe frequency
		REGULA		Cooling fan speed regulated
	FANS	SILENT	Level(1-3)	three level of silent mode to control the output
		FULL		Max. cooling fan speed
	LED POWER	High		single leds or two color mixing in full power with 120% output
	LED FOWER	Normal		Normal mode output
		NORMAL		Normal dimming with normal speed
	Dimmer speed	SMOOTH		Smooth dimming with slow speed
	KEY-Lock	ON/OFF		Enables or Disables password protection
		ON		Turn on the Wireless Board
PERSONALITY	W-DMX	OFF		Turn off the Wireless Board
PERSUNALITY		RESET		Reset the Wireless Board
	CALIBRATION	NO CALIBRATION		Color calibration mode off.
		MANUAL		Manual calibration mode, RGBW to white is custom calibration
		FACTORYON		Factory calibration mode, RGBW to white is Factory calibration
	Refresh rate	600/1200/2400/4800		Select the refresh frequency
	LCD brightness	Level(1-10)		Set the LCD display brightness
	DMX HOLD	DMX HOLD		The fixture will stay the last values when you disconnect DMX
	DIVIX HOLD	NO DMX HOLD		The fixture has no output when you disconnect DMX
	AUTO(1-20)			Auto programs
AUTO	Speed(0-20)			Auto speed
	Software type	VXXX		CPU firmware version
INC.	Usage time	TOTAL XXXX		USE of time
INFO	- Coago timo	RESET	Reset OK	Use time reset(password)
	Temperature	XXX°C		LED board current temperature
FACTORY SET	LOAD			Return all settings to factory defaults
	Red	0-255		Manual calibration mode, RGB to white is custom
MANUAL CALIB	Green	0-255		- Manual calibration mode, RGB to white is custom calibration,(require password)
	Blue	0-255		canoration, (require password)



# Setup

### Control panel and menu navigation

The onboard control panel and backlit graphic display are used to set the fixture's DMX address, configure individual fixture settings (personality), read out data and execute service utilities. See "Onboard control menus" on page 12 for a complete list of menus and commands.

Using the control buttons

- To enter a menu, select a function or apply a selection, press ▶ (Enter).
- Press ▲ (Up) and ▼ (Down) to scroll within a menu or adjust values.
- To escape a function or move back one level in the menu structure, press ◀ (MODE).
- Holding down the "UP" and "DOWN" button for more than 3 seconds, the MENU display rotated 180°

### **DMX** address setting

The DMX address is configured using the DMX ADDRESS menu in the control panel.

• In order to facilitate for inspection the signal, If the display to flicker when it's not receiving any DMX signal

#### **WDMX** control

Press the button "UP" to switch off Wireless DMX or disconnect with all connected Transmitters.

Press the button "DOWN' to set the unit in the "ready to connect with all not connected transmitters' mode. If you press the mode button on the Wireless solution transmitter all the ready to connect units will be connected.

If the unit is successfully connected in the home display the sign " $\blacktriangle$ : V". Appears. If the unit is not connected to a transmitter in the home display the sign " $\blacktriangle$ : X". If the unit switched off in the home display the sign " $\blacktriangle$ :OFF".

• Holding the MENU and ENTER button for more than 3 seconds, The Wireless Board will reset.



### **CONTROL MODE**

Standard and Manual modes

DMX control mode is selected in the **CONTROL MODE** menu. The fixture has five DMX control modes:

- 21 channels :Strobe+Dimmer+Setting+Each line(RGBW)
- 4 channels :RGBW
- 9 channels :Strobe+Dimmer+Setting+Macro color +RGBW+CT
- 11 channels :Strobe+Dimmer+Setting+Macro color +RGBW+CT + AUTO + AUTO/dimmer speed
- 16 channels:Each line(RGBW)
- 27 channels:Strobe+Dimmer+Setting+Macro color +RGBW+CT+Each line(RGBW)
- 30 channels:Strobe+Dimmer+Setting+Macro color +Each line(dimmer+RGBW+fade)

### **Dimming**

- **NORMAL** is the default setting. It gives a virtually instantaneous reaction when you dim from one intensity to another, but dimming slowly from one intensity to another may appear slightly uneven.
- The SMOOTH setting gives smoother dimming during slow changes in intensity, but it limits the speed of dimming
  changes slightly. This makes it ideal for slow, smooth dimming, but a short time-lag may be noticeable if you try to dim
  quickly from one intensity to another.

### **Enable password lock**

 $\begin{tabular}{ll} $(\texttt{PERSONALITY}) \Rightarrow (\texttt{KEY-Lock}) \Rightarrow (\texttt{ON}) / (\texttt{OFF}) \Rightarrow (\texttt{ENTER}) \\ \end{tabular}$ 

【ON】 enable lock, 【OFF】 disable lock

when you enable password lock and the fixture was in standby mode ,it need password { MODE、UP、MODE、DOWN、MODE、UP、MODE、DOWN }. then press the enter button to active.

### Restoring factory default settings

The fixture factory default settings can be restored by applying a **FACTORY SETTING** → **LOAD** command.



# **CALIBRATION**

#### Three mode of color calibration

#### 1, NO CALIBRATION

Color calibration mode is off.

#### 2, MANUAL

Manual calibration mode, RGBW to white is according your custom calibration.

Manual calibration can calibrate by control panel and DMX channel.

#### calibrate by control panel

- 1. Press MODE button until [MANUAL] is displayed, press ENTER
- 3. Enter the password
- 3. Set 【Red,Green,Blue】 to white by custom calibration

#### calibrate by DMX control

channel 4 is set to 245-249 to enter dmx controller calibration

channel	DMX Value	Percent	Function
1	0 - 255	0-100	No function
2	0 - 255	0-100	No function
3	0 - 255	0-100	No function
4	0 - 229 230 - 234 240-244 245-249 250-255	0-100 0-89 90-95 96-97 98-10	No function come back to DMX mode <sup>3</sup> No function turn on manual calibration mode by dmx control <sup>3</sup> Illuminate display <sup>3</sup> Value must be held for 3 seconds to activate.
5	0 - 254 255	0-99 100	No function Save Correction, Value must be held for 3 seconds to activate.
6	0 - 255	0-100	RED(0-255)
7	0-255	0-100	GREEN(0-255)
8	0-255	0-100	BLUE(0-255)
9	0-255	0-100	WHITE(0-255)

#### 3,FACTORY calibration mode

Fixture is calibrated in the factory by radiant machine.



# Specifications

Physical       .495 mm         Length       .233 mm         Width       .233 mm         Height       .387 mm         Weight       13 kg without accessories
Dynamic Effects
Color mixingRGBWColor temperature controlCTO, variable 10 000 - 2500 KLED Quantity:36 PCS 4 in 1 LED
Shutter effects
Control and Programming
Control
Construction
Color     Black       Housing     High strength die-casting aluminum       Protection rating     IP 65 only when DMX output and input is covered
Installation
Orientation
Connections
AC power input
Electrical  AC power
Thermal
$\begin{array}{llllllllllllllllllllllllllllllllllll$