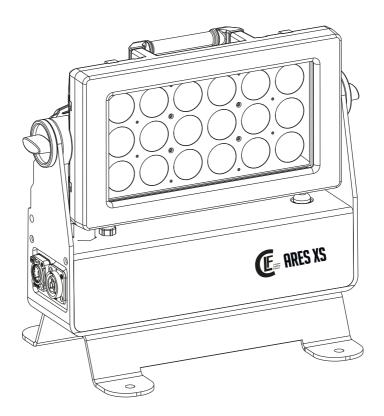


MANUAL

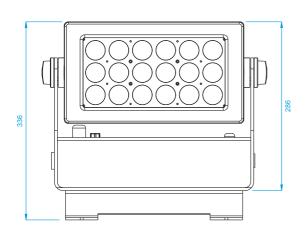


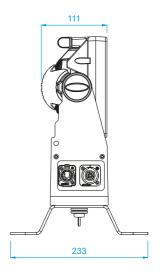
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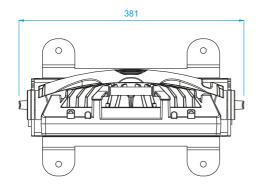
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DIMENSIONSALL DIMENSIONS ARE IN MILLIMETERS







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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 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.



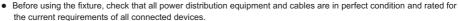
This product presents risks of severe injury or death due to fire and burn hazards, electric shock and falls.

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.



- Power input and through out cables must be rated 20A 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 1 [®] cable connectors to connect to power input sockets. Use only PowerCON TRUE 1 [®] cable connectors to connect to power through put 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.

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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 the fixture 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

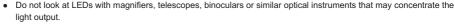


- Do not operate the fixture if the ambient temperature (Ta) exceeds 40°C.
- The exterior of the fixture becomes hot during use. Avoid contact by persons and materials.
 Allow the fixture to cool for at least 10 minutes before handling.
- Keep all combustible materials (e.g. fabric, wood, paper) at least 100 mm away from the fixture.
- 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 throughput sockets, do not connect more than ten the
 fixture in total to each other in an interconnected chain.
- Connect only other the fixture to fixture power throughput sockets. Do not connect any other type of device to these sockets.
- Do not connect any other type of device to these sockets.
- Do not stick filters, masks or other materials onto any optical component, besides the optional CLF Ares XS filters.
- Do not modify the fixture in any way not described in this manual.
- . Do not use fixture on a dimmer.

PROTECTION FROM INJURY



Do not look continuously at LEDs from a distance of less than 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 3 meters and above, light output is harmless to the naked eye provided that the eye's natural aversion response is not overcome.





 Ensure that persons are not looking at the LEDs from within 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.

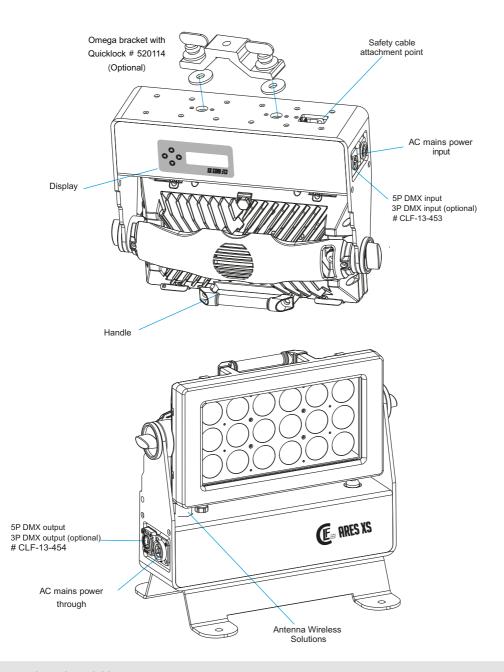




- Ensure that any supporting structure and/or hardware used can hold at least 10 times the weight of all the devices
 they support.
- Allow enough clearance around the fixture to ensure that it cannot collide with an object or another fixture when it
 moves
 - Check that all external covers and rigging hardware are fastened securely.
- 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



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INTRODUCTION

SUPERIOR LED WASH

3 INDIVIDUALLY CONTROLLABLE SEGMENTS

- Adjustable beam angle several additional lenses available (for example 54.2° and many others)
- Designed for multiple applications
- Deep and saturated colours
- Flicker free operation
- Touring proof housing
- Wireless DMX
- IP65 rating■ RDM Ready



USING FOR THE FIRST TIME

Warning! Read "Safety Information" on page 2 before installing, powering, operating or servicing the fixture. Before applying power to the fixture:

- 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 6. Install a PowerCON TRUE 1 ® power input connector on a suitable power cable.

AC POWER



Warning! Read "Safety Information" starting on page 2 before connecting the fixtures to AC mains power.

Warning! For protection from electric shock, the fixture must be grounded (earthed). The power distribution 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 TRUE 1 $^{\circledR}$ 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 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 fixtures serial number label matches the local AC mains power voltage before applying power to the fixture.

The fixtures accepts 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 specified.

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POWER CABLES

Power input and throughput cables must be rated 20A 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 20A 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.

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)	⊕ or ±	Green

Table 1: Wire color-coding and power connections

RELAYING POWER TO OTHER DEVICES

Warning! Do not connect more than ten fixtures in total to AC mains power in one interconnected chain. Power can be relayed to another device via the PowerCON TRUE 1 $^{\otimes}$ throughput socket.

If you daisy chain the fixtures in a chain so that they all draw AC mains power via the first fixture, certain points must be respected:

- A heavy duty, three-conductor, 16 AWG or 1.5 mm² cable with SJT or equivalent cable jacket must be used to connect the first fixture to AC mains power.
- PowerCON TRUE 1 [®] connectors must be used to draw AC mains power from the fixtures power throughput sockets and yellow PowerCON TRUE 1 [®] connectors must be used to supply power at the fixture's power input sockets.
- No matter what the AC mains power voltage is, do not connect more than ten the fixture in total (including the first fixture) to AC mains power in one interconnected daisy chain using power input and through out connectors.

DATA LINK

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

TIPS FOR RELIABLE DATA TRANSMISSION

To connect the fixture to data:

- 1. Connect the DMX data output from the controller to the 5-pin XLR connector of the nearest fixture.
- 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.

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PHYSICAL INSTALLATION

The fixture must be either fastened to a flat surface such as a stage or wall, or clamped to a truss or similar structure in any orientation using a rigging clamp.

Warning! If the fixture can cause injury or damage it if falls, attach an approved safety cable to one of the safety cable attachment points on the base (see "Fixture overview" on page 4).

Check that all surfaces to be illuminated are minimum 200 mm. from the fixture, that combustible materials (wood, fabric, paper, etc.) are minimum 100 mm. from the fixture, that there is free airflow around the fixture and that there are no flammable materials nearby.

FASTENING THE FIXTURE TO A FLAT SURFACE

The fixture can be fastened to a fixed flat surface that is oriented at any angle. Check that the surface can support at least 10 times the weight of all fixtures and equipment to be installed on it.



Warning! The supporting surface must be hard and flat or air vents in the base may be blocked, which will cause overheating. Fasten the fixture securely. Do not stand it on a surface or leave it where it can be moved or can fall over. Attach a securely anchored safety cable to the safety cable attachment point (see "Fixture overview" on page 4) if the fixture is to be installed in any location where it may fall and cause injury or damage if the primary attachment fails.

- 1. Block access under the work area. Working from a stable platform, hang the fixture on the truss. Tighten the rigging clamp.
- 2. Secure the fixture against clamp failure with a secondary attachment such as an approved safety cable that is rated for the weight of the fixture using one of the attachment points at the edges of the base (see "Fixture overview" on page 4). Do not use any other part of the fixture as a safety cable attachment point.

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SETUP

Warning! Read "Safety Information" on page 2 before installing, powering, operating the fixture.

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 23 for a complete list of menus and commands.

Using the control buttons

- To enter the menu select [MODE].
- Press [UP] and [DOWN] to scroll within a menu or adjust values.
- To enter a menu, select a function or apply a selection, press [ENTER].
- 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 will rotate 180°.



DMX ADDRESS SETTING

The DMX address, also known as the start channel, is the first channel used to receive instructions from the controller. For independent control, each fixture must be assigned to a separate channel.

The DMX address can be configured by using the DMX ADDRESS menu in the control panel. For setting the DMX address press [ENTER] before you can change the address.

- The main screen will show a 'dot' and the backlight will be switched off when a DMX signal is detected.
- The fixture is fully RDM ready. So when you are using a RDM ready console you can address the unit and read out its complete status. For RDM functions please refer to the ANSI/ESTA E1.20-2006 standard

W-DMX CONTROL

Go to the W-DMX section in the main menu, 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 units in this mode will be connected

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

- Holding the MENU and ENTER button for more than 3 seconds, the wireless board will reset.
- Do not use Wireless DMX and Wired DMX at the same time because it will give unwanted interference

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CONTROL MODE

DMX control mode is selected in the CONTROL MODE menu. The fixture has 7 DMX control modes:

	4ch	9ch	11ch	12ch	17ch	23ch	24ch
RGBW	V	~	~			~	
Strobe		V	V		~	V	V
Dimmer		~	~		~	~	~
Function set		~	V		~	~	~
Macro color		V	~			~	V
ССТ		~	V			~	
LED block (Dimmer)							~
LED block (RGBW)				V	V	V	V
LED block (Dimmer speed)							V
Effect			V		~	V	~
Dimmer / Auto speed			V		V	V	V

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CALIBRATION OPTIONS

There are three options for Static color:

1. NO CALIBRATION

Color calibration mode is off.

2. MANUAL

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

Manual calibration can calibrated by the control panel and DMX channel.

Calibrate by control panel

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

Calibrate by DMX channel

channel 3 is set to 245-249 to enter dmx controller calibration

Channel	Function	Value	Setting
1	No function	000 - 255	
2	No function	000 - 255	
3	No function	000 - 255	
4	Calibrate by DMX channel	000 - 229 230 - 234 240 - 244 245 - 249 250 - 255	No function come back to DMX mode No function turn on manual calibration mode by dmx control Illuminate display Value must be held for 3 seconds to activate.
5	Save Correction	000 - 254 255	No function Save Correction, Value must be held for 3 seconds to activate.
6	Red	000 - 255	0 - 100%
7	Green	000 - 255	0 - 100%
8	Blue	000 - 255	0 - 100%
9	White	000 - 255	0 - 100%

3. FACTORY CALIBRATION MODE

Fixture is calibrated in the factory by radiant machine.

AUTO SHOW

The auto function gives 20Automatically RGBW color combinations which are working without any DMX console. Hit [ENTER] to adjust the speed of the program from 1-20

1) Auto 1	6) Auto 6	11) Auto 11	16) Auto 16
2) Auto 2	7) Auto 7	12) Auto 12	17) Auto 17
3) Auto 3	8) Auto 8	13) Auto 13	18) Auto 18
4) Auto 4	9) Auto 9	14) Auto 14	19) Auto 19
5) Auto 5	10) Auto 10	15) Auto 15	20) Auto 1-19 cycle

MASTER/SLAVE

You can choose between master or slave functioning. The chosen mode is visible in the homescreen. The fixture will automatically go to slave function when no DMX signal is offered.

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PERSONALITY

Here you can set all functions for the fixture.

FANS	Cooling fan speed regulated Three level of silent mode to control the output Max. cooling fan speed				
Led power	Normal (high output mode)				
Lea power	Theater (gentle output mode)				
Dimmer Speed	Normal (normal dimming speed)				
Diffiffer Speed	Smooth (slowest dimming speed)				
KEY-Lock	Locks all the button functions. Standard unlocking password is (MODE+UP+MODE+DOWN+MODE+UP+MODE+DOWN+ENTER)				
	ON (Turn on the Wireless Board)				
W-DMX	OFF (Turn off the Wireless Board)				
	RESET (Reset the Wireless Board)				
CALIBRATION	NO CALIBRATION = Color calibration mode off. MANUAL = Manual calibration mode, RGBW to white is custom calibration FACTORY = Factory calibration mode, RGBW to white is factory calibration				
	Controls the Flicker frequency of the fixture				
	600				
Refresh rate	1200				
	2400				
	4800				
LCD brightness	Set the LCD display brightness(1-10)				
DMX HOLD	DMX HOLD = The fixture will remember on last values when you disconnect DMX NO DMX HOLD = The fixture has no output when you disconnect DMX				

INFORMATION

Software type	Shows software version (VX.X)
Usage time	Use of time and Use time reset (password)
Temperature	LED board current temperature
UID	Shows the unique ID for the RDM protocol. <0x02E20002xxxx>

FACTORY RESET

Resets the fixture to its factory default settings. Please reboot power before reset takes effect.

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DMX PROTOCOLS

4 CH	Function	Value	Setting	Remark
1	Red	000 - 255	0 - 100%	
2	Green	000 - 255	0 - 100%	
3	Blue	000 - 255	0 - 100%	
4	White	000 - 255	0 - 100%	

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9 CH	Function	Value	Setting	Remark
1	Shutter	000 - 019 020 - 024 025 - 064 065 - 069 070 - 084 085 - 089 090 - 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	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 6: random closing pulse (fast → slow) Shutter open Strobe 8: random burst pulse (fast → slow) Shutter open Strobe 9: sine wave (fast → slow) Shutter open Strobe 9: sine wave (fast → slow) Shutter open Strobe 10: burst (fast → slow) Shutter open	
2	Dimmer	000 - 255	0 - 100%	
3	Fixture control settings	000 - 039 040 - 044 045 - 049 050 - 054 055 - 059 060 - 064 065 - 069 070 - 074 075 - 089 090 - 094 095 - 099 100 - 104 110 - 110 110 - 114 115 - 119 120 - 124 125 - 129 130 - 134 135 - 139 140 - 144 145 - 149 150 - 154 150 - 154 150 - 154 151 - 179 160 - 164 165 - 169 170 - 174 175 - 179 180 - 184 185 - 189 190 - 194 195 - 239 240 - 244 245 - 249 250 - 255	No function SILENT MODE (level 1)-70% fan speed¹ SILENT MODE (level 2)-40% fan speed¹ SILENT MODE (level 3)-20% fan speed¹ No function Fan mode FULL¹ Fan mode REGULATED¹ Fan mode SILENT¹ No function Calibrated color output mode- COLOR CALIB = ON¹ Manual calibration output mode- Manual calibration = ON¹ Raw color output mode- COLOR CALIB = OFF¹ No function Normal dimming, speed of changes unrestricted¹ No function Smooth dimming, speed of changes restricted slightly¹ No function 600 Hz Refresh rate 1200Hz Refresh rate 2400Hz Refresh rate 4800Hz Refresh rate No Function WDMX - ON¹ No Function WDMX - OFF¹ No Function WDMX - RESET¹ No Function UDMX - RESET¹ No Function Led power(Normal mode)¹ Led power(Theater mode)¹ No Function DMX Manual calibration mode² No Function illuminate display	1 Value must be held for 3 seconds to activate. 2 Please refer the page 10.(calibrate by DMX control) Value must be held for 3 seconds to activate.
4	Macro color	000 - 004 005 - 255	No Function Macro color rotation effect	
5	Red	000 - 255	0 - 100%	
6	Green	000 - 255	0 - 100%	
7	Blue	000 - 255	0 - 100%	
8	White	000 - 255	0 - 100%	
9	сст	000 - 009 010 - 255	No function 10000K - 2500K	

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11 CH	Function	Value	Setting	Remark
1	Shutter	000 - 019 020 - 024 025 - 064 065 - 069 070 - 084 085 - 089 090 - 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	Shutter closed Shutter open Strobe 1 (fast \rightarrow slow) Shutter open Strobe 2: opening pulse (fast \rightarrow slow) Shutter open Strobe 3: closing pulse (fast \rightarrow slow) Shutter open Strobe 4: random strobe (fast \rightarrow slow) Shutter open Strobe 5: random opening pulse (fast \rightarrow slow) Shutter open Strobe 5: random opening pulse (fast \rightarrow slow) Shutter open Strobe 6:random closing pulse (fast \rightarrow slow) Shutter open Strobe 7: burst pulse (fast \rightarrow slow) Shutter open Strobe 8: random burst pulse (fast \rightarrow slow) Shutter open Strobe 9:sine wave (fast \rightarrow slow) Shutter open Strobe 10: burst (fast \rightarrow slow) Shutter open	
2	Dimmer	000 - 255	0 - 100%	
3	Fixture control settings	000 - 039 040 - 044 045 - 049 050 - 054 055 - 059 060 - 064 065 - 069 070 - 074 075 - 089 090 - 094 095 - 099 100 - 104 105 - 109 110 - 114 115 - 119 120 - 124 125 - 129 130 - 134 135 - 139 140 - 144 145 - 149 150 - 154 165 - 169 170 - 174 175 - 179 180 - 184 185 - 189 190 - 194 195 - 239 240 - 244 245 - 249 250 - 255	No function SILENT MODE (level 1)-70% fan speed 1 SILENT MODE (level 2)-40% 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 1200 Hz Refresh rate 2400 Hz Refresh rate 4800 Hz Refresh rate 4800 Hz Refresh rate No Function WDMX - ON 1 No Function WDMX - OFF 1 No Function WDMX - RESET 1 No Function Led power(Normal mode) 1 Led power(Theater mode) 1 No Function DMX Manual calibration mode 2 No Function illuminate display	Value must be held for 3 seconds to activate. Please refer the page 10.(calibrate by DMX control) Value must be held for 3 seconds to activate.
4	Macro color	000 - 004 005 - 255	No Function Macro color rotation effect	
5	Red	000 - 255	0 - 100%	
6	Green	000 - 255	0 - 100%	
7	Blue	000 - 255	0 - 100%	
8	White	000 - 255	0 - 100%	

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11 CH	Function	Value	Setting	Remark
9	ССТ	000 - 009 010 - 255	No function 10000K - 2500K	
10	Auto program	000 - 009 010 - 019 020 - 029 030 - 039 040 - 049 050 - 059 060 - 069 070 - 079 080 - 089 090 - 099 110 - 119 120 - 129 130 - 139 140 - 149 150 - 159 160 - 169 170 - 179 180 - 189 190 - 199 200 - 255	No function Auto program 1 Auto program 2 Auto program 3 Auto program 4 Auto program 6 Auto program 7 Auto program 8 Auto program 9 Auto program 11 Auto program 12 Auto program 12 Auto program 15 Auto program 16 Auto program 17 Auto program 18 Auto program 18 Auto program 16 Auto program 17 Auto program 17 Auto program 17 Auto program 18 Auto program 19 Auto program 19 Auto program 19 Auto program 20(Auto program 1-19 cycle)	
11	Speed	000 1-255	No function AUTO Speed or Dimmer Speed	

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12 CH	Function	Value	Setting	Remark
1	LED block 1 -Red 1	000 - 255	0 - 100%	
2	LED block 1 -Green 1	000 - 255	0-100%	
3	LED block 1 -Blue 1	000 - 255	0-100%	
4	LED block 1 -White 1	000 - 255	0-100%	
5	LED block 2 -Red 2	000 - 255	0-100%	
6	LED block 2 -Green 2	000 - 255	0-100%	
7	LED block 2 -Blue 2	000 - 255	0-100%	
8	LED block 2 -White 2	000 - 255	0-100%	
9	LED block 3 -Red 3	000 - 255	0-100%	
10	LED block 3 -Green 3	000 - 255	0-100%	
11	LED block 3 -Blue 3	000 - 255	0-100%	
12	LED block 3 -White 3	000 - 255	0-100%	

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17 CH	Function	Value	Setting	Remark
1	Shutter	000 - 019 020 - 024 025 - 064 065 - 069 070 - 084 085 - 089 090 - 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	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 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	Dimmer	000 - 255	0 - 100%	
3	Fixture control settings	000 - 039 040 - 044 045 - 049 050 - 054 055 - 059 060 - 064 065 - 069 070 - 074 075 - 089 090 - 094 105 - 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 - 184 185 - 189 170 - 174 175 - 179 180 - 184 185 - 189 190 - 194 195 - 239 240 - 244 245 - 249 250 - 255	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 SILENT MODE (level 3)-20% fan speed ¹ No function Fan mode FULL¹ Fan mode REGULATED¹ Fan mode SILENT¹ No function Calibrated color output mode- COLOR CALIB = ON¹ Manual calibration output mode- Manual calibration = ON¹ Raw color output mode- COLOR CALIB = OFF¹ No function Normal dimming, speed of changes unrestricted ¹ No function Smooth dimming, speed of changes restricted slightly¹ No function 600 Hz Refresh rate 1200Hz Refresh rate 2400Hz Refresh rate 4800Hz Refresh rate No Function WDMX - OFF¹ No Function WDMX - OFF¹ No Function WDMX - RESET¹ No Function UDMX - RESET¹ No Function Led power(Normal mode)¹ Led power(Normal mode)¹ No Function DMX Manual calibration mode² No Function	Value must be held for 3 seconds to activate. Please refer the page 10.(calibrate by DMX control) Value must be held for 3 seconds to activate.
4	Red 1	000 - 255	LED block 1 - Red 1 (0-100%)	
5	Green 1	000 - 255	LED block 1 - Green 1 (0-100%)	
6	Blue 1	000 - 255	LED block 1 - Blue 1 (0-100%)	
7	White 1	000 - 255	LED block 1 - White 1 (0-100%)	
8	Red 2	000 - 255	LED block 2 - Red 2 (0-100%)	

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17 CH	Function	Value	Setting	Remark
9	Green 2	000 - 255	LED block 2 - Green 2 (0-100%)	
10	Blue 2	000 - 255	LED block 2 - Blue 2 (0-100%)	
11	White 2	000 - 255	LED block 2 - White 2 (0-100%)	
12	Red 3	000 - 255	LED block 3 - Red 3 (0-100%)	
13	Green 3	000 - 255	LED block 3 - Green 3 (0-100%)	
14	Blue 3	000 - 255	LED block 3 - Blue 3 (0-100%)	
15	White 3	000 - 255	LED block 3 - White 3 (0-100%)	
16	Auto program	000 - 009 010 - 019 020 - 029 030 - 039 040 - 049 050 - 059 060 - 069 070 - 079 080 - 089 090 - 099 100 - 109 110 - 119 120 - 129 130 - 139 140 - 149 150 - 159 160 - 169 170 - 179 180 - 189 190 - 199 200 - 255	No function Auto program 1 Auto program 2 Auto program 3 Auto program 4 Auto program 6 Auto program 6 Auto program 7 Auto program 8 Auto program 9 Auto program 10 Auto program 11 Auto program 15 Auto program 15 Auto program 15 Auto program 16 Auto program 16 Auto program 17 Auto program 17 Auto program 18 Auto program 19	
17	Speed	000 1-255	No function AUTO Speed or Dimmer Speed	

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23 CH	Function	Value	Setting	Remark
1	Shutter	000 - 019 020 - 024 025 - 064 065 - 069 070 - 084 085 - 089 090 - 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	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 5: random closing 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	Dimmer	000 - 255	0 - 100%	
3	Fixture control settings	000 - 039 040 - 044 045 - 049 050 - 054 055 - 059 060 - 064 065 - 069 070 - 074 075 - 089 090 - 094 095 - 099 100 - 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 - 184 185 - 189 190 - 194 195 - 239 240 - 224 245 - 229 250 - 255	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 SILENT MODE (level 3)-20% fan speed ¹ No function Fan mode FULL¹ Fan mode REGULATED¹ Fan mode SILENT¹ No function Calibrated color output mode- COLOR CALIB = ON¹ Manual calibration output mode- Manual calibration = ON¹ Raw color output mode- COLOR CALIB = OFF¹ No function Normal dimming, speed of changes unrestricted ¹ No function Smooth dimming, speed of changes restricted slightly¹ No function 600 Hz Refresh rate 1200Hz Refresh rate 2400Hz Refresh rate 4800Hz Refresh rate No Function WDMX - ON¹ No Function WDMX - OFF¹ No Function WDMX - RESET¹ No Function Led power(Normal mode)¹ Led power(Theater mode)¹ No Function DMX Manual calibration mode² No Function illuminate display	Value must be held for 3 seconds to activate. Please refer the page 10.(calibrate by DMX control) Value must be held for 3 seconds to activate.
4	Macro color	000 - 004 005 - 255	No Function Macro color rotation effect	
5	Red	000 - 255	Red dimmer (0-100%)	
6	Green	000 - 255	Green dimmer (0-100%)	
7	Blue	000 - 255	Blue dimmer (0-100%)	
8	White	000 - 255	White dimmer (0-100%)	
		200 E00		

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23 CH	Function	Value	Setting	Remark
9	ССТ	000 - 009 010 - 255	No function 10000K - 2500K	
10	Red 1	000 - 255	LED block 1 - Red 1 (0-100%)	CH 5 must activated
11	Green 1	000 - 255	LED block 1 - Green 1 (0-100%)	CH 6 must activated
12	Blue 1	000 - 255	LED block 1 - Blue1 (0-100%)	CH 7 must activated
13	White 1	000 - 255	LED block 1 - White 1 (0-100%)	CH 8 must activated
14	Red 2	000 - 255	LED block 2 - Red 2 (0-100%)	CH 5 must activated
15	Green 2	000 - 255	LED block 2 - Green 2 (0-100%)	CH 6 must activated
16	Blue 2	000 - 255	LED block 2 - Blue 2 (0-100%)	CH 7 must activated
17	White 2	000 - 255	LED block 2 - White 2 (0-100%)	CH 8 must activated
18	Red 3	000 - 255	LED block 3 - Red 3 (0-100%)	CH 5 must activated
19	Green 3	000 - 255	LED block 3 - Green 3 (0-100%)	CH 6 must activated
20	Blue 3	000 - 255	LED block 3 - Blue 3 (0-100%)	CH 7 must activated
21	White 3	000 - 255	LED block 3 - White 3 (0-100%)	CH 8 must activated
22	Auto program	000 - 009 010 - 019 020 - 029 030 - 039 040 - 049 050 - 059 060 - 069 070 - 079 080 - 089 090 - 099 100 - 109 110 - 119 120 - 129 130 - 139 140 - 149 150 - 159 160 - 169 170 - 179 180 - 189 190 - 199 200 - 255	No function Auto program 1 Auto program 2 Auto program 3 Auto program 4 Auto program 5 Auto program 6 Auto program 7 Auto program 8 Auto program 10 Auto program 11 Auto program 12 Auto program 13 Auto program 15 Auto program 16 Auto program 17 Auto program 18 Auto program 17 Auto program 18 Auto program 18 Auto program 19 Auto program 19 Auto program 19 Auto program 19 Auto program 20(Auto program 1-19 cycle)	
23	Speed	000 1-255	No function AUTO Speed or Dimmer Speed	

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24 CH	Function	Value	Setting	Remark
1	Shutter	000 - 019 020 - 024 025 - 064 065 - 069 070 - 084 085 - 089 090 - 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	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 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	Dimmer	000 - 255	0 - 100%	
3	Fixture control settings	000 - 039 040 - 044 045 - 049 050 - 054 055 - 059 060 - 064 065 - 069 070 - 074 075 - 089 090 - 094 095 - 099 100 - 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 - 184 185 - 189 190 - 194 195 - 239 240 - 244 245 - 249 250 - 255	No function SILENT MODE (level 1)-70% fan speed 1 SILENT MODE (level 2)-40% 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 2400Hz Refresh rate 4800Hz Refresh rate 480Hz Refresh rate No Function WDMX - ON 1 No Function WDMX - OFF 1 No Function WDMX - RESET 1 No Function Led power(Normal mode) 1 Led power(Theater mode) 1 No Function DMX Manual calibration mode 2 No Function illuminate display	Value must be held for 3 seconds to activate. Please refer the page 10.(calibrate by DMX control) Value must be held for 3 seconds to activate.
4	Macro color	000 - 004 005 - 255	No Function Macro color rotation effect	
5	Dimmer 1	000 - 255	LED block 1 dimmer	
6	Red 1	000 - 255	LED block 1 - Red 1 (0-100%)	
7	Green 1	000 - 255	LED block 1 - Green 1 (0-100%)	
8	Blue 1	000 - 255	LED block 1 - Blue1 (0-100%)	

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24 CH	Function	Value	Setting	Remark
9	White 1	000 - 255	LED block 1 - White 1 (0-100%)	
10	Fade 1	000 - 255	LED block 1 - Fade (dimmer speed)	
11	Dimmer 2	000 - 255	LED block 2 dimmer	
12	Red 2	000 - 255	LED block 2 - Red 2 (0-100%)	
13	Green 2	000 - 255	LED block 2 - Green 2 (0-100%)	
14	Blue 2	000 - 255	LED block 2 - Blue 2 (0-100%)	
15	White 2	000 - 255	LED block 2 - White 2 (0-100%)	
16	Fade 2	000 - 255	LED block 2 - Fade (dimmer speed)	
17	Dimmer 3	000 - 255	LED block 3 dimmer	
18	Red 3	000 - 255	LED block 3 - Red 3 (0-100%)	
19	Green 3	000 - 255	LED block 3 - Green 3 (0-100%)	
20	Blue 3	000 - 255	LED block 3 - Blue 3 (0-100%)	
21	White 3	000 - 255	LED block 3 - White 3 (0-100%)	
22	Fade 3	000 - 255	LED block 3 - Fade (dimmer speed)	
23	Auto program	000 - 009 010 - 019 020 - 029 030 - 039 040 - 049 050 - 059 060 - 069 070 - 079 080 - 089 100 - 109 110 - 119 120 - 129 130 - 139 140 - 149 150 - 159 160 - 169 170 - 179 180 - 189 190 - 199 200 - 255	No function Auto program 1 Auto program 2 Auto program 3 Auto program 4 Auto program 6 Auto program 7 Auto program 8 Auto program 9 Auto program 10 Auto program 12 Auto program 12 Auto program 13 Auto program 14 Auto program 15 Auto program 16 Auto program 17 Auto program 17 Auto program 18 Auto program 18 Auto program 19	
24	Speed	000 1-255	No function AUTO Speed or Dimmer Speed	

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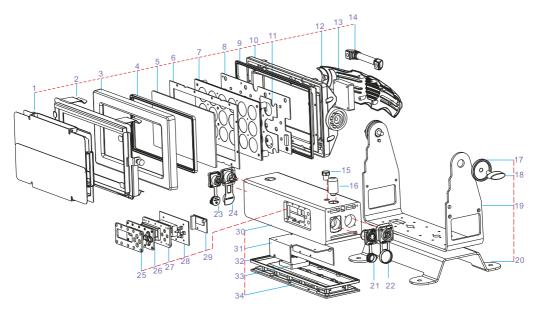
ONBOARD CONTROL MENUS

NO.	Main Menu	Menu level 2	Menu level 3			Remark	
1	DMX ADDRESS	<001>				Default 001	
2	CONTROL MODE	4CH / 9CH / 11CH / 17CH/ 12CH / 23CH / 24CH				Default: 11	СН
		Dimmer	0-100			Default: 00	00
		Red	0-100			Default: 00	00
	074710 001 00	Green	0-100			Default: 00	00
3	STATIC COLOR *	Blue	0-100			Default: 00	00
		White	0-100			Default: 00	00
		Strobe	0-20			Default: 00	00
		FANS	REGULATED			Default : R	EGULATED
			SILENT	Level	(1-3)		
			FULL				
		Led power	Normal			Default: No	ormal
			Theater				
		Dimmer Speed	Normal			Default: No	ormal
			Smooth				
		KEY-Lock	ON/OFF			Default: OF	F
4	PERSONALITY	W-DMX	ON			Default : ON	N
			OFF				
			RESET				
		Calibration	NO CALIBRATION			Default : FA	CTORY
			MANUAL				
			FACTORY				
		Refresh rate	600/1200/2400/4800			Default: 60	0
		LCD brightness				D.C. II. DA	AV 1101 B
		DMX HOLD	DMX HOLD NO DMX HOLD			Default : DN	MX HOLD
5	AUTO *	AUTO(1 - 20)	Speed 0 - 20			Default . Al	ITO : 1 Speed: 0
5	AUTO*		VX.XX			Delault : At	JTO: 1, Speed: 0
		Software type	TOTAL Xxxx hours				
6	INFO	Usage time	RESET			Use time re	set(password)
		Temperature	XXX°C				
		UID	0x02E2000xxxxx				
7	FACTORY SET	LOAD					
0	MANUAL CALIS	Red	0-255			Default: 25	
8	MANUAL CALIB	Green Blue	0-255 0-255			Default : 25 Default : 25	
		Diue	0-200			Delault 25	0

^{*} When connected to other fixtures (max. 10) via DMX out, they automatically follow the first unit

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BLOW-OUT DIAGRAM



NO.	Description	Part Number	NO	Description
1	CLF Barndoor set Ares xs	CLF-15-071	18	CLF Knob Ares xs
2	CLF Barndoor set Ares xs	CLF-15-071	19	CLF Yoke output
3	CLF Front cover Ares xs	CLF-15-001	20	CLF Stand Ares x
4	CLF Rubber ring for front glass Ares xs	CLF-15-026	21	CLF Waterproof 5
5	CLF Tempered front glass Ares xs	CLF-15-023	22	CLF Powercon TR
6	CLF Glass holder front cover Ares xs	CLF-15-011	23	CLF Waterproof 5
7	CLF Lens kit Ares xs	CLF-15-070	24	CLF Powercon TR
8	CLF Led board Ares xs	CLF-15-068	25	CLF Steel display
9	CLF Rubber ring for front cover Ares xs	CLF-15-025	26	CLF Rubber pad t
10	CLF Radiotor Ares xs	CLF-15-002	27	CLF Display cove
11	CLF Led control board Ares xs	CLF-15-069	28	CLF Display boar
12	CLF Fan cover Ares xs	CLF-15-029	29	CLF Wireless boa
13	CLF fan Ares xs	CLF-15-039	30	CLF Base Ares xs
14	CLF Handle Ares xs	CLF-15-005	31	CLF Power supply
15	CLF Valve Ares xs	CLF-13-459	32	CLF Rubber ring f
16	CLF Wireless Antenna with wire Ares xs	CLF-13-448	33	CLF Fan for powe
17	CLF Knob adapter Ares xs	CLF-13-405	34	CLF Base cover A

NO.	Description	Part Number
18	CLF Knob Ares xs	CLF-13-406
19	CLF Yoke output side Ares xs	CLF-15-010
20	CLF Stand Ares xs	CLF-15-008
21	CLF Waterproof 5pin male socket	CLF-13-455
22	CLF Powercon TRUEI output dmx socket	CLF-14-028
23	CLF Waterproof 5pin female socket	CLF-13-456
24	CLF Powercon TRUE1 input dmx socket	CLF-14-027
25	CLF Steel display cover Ares xs	CLF-15-014
26	CLF Rubber pad for display Ares xs	CLF-15-027
27	CLF Display cover Ares xs	CLF-15-028
28	CLF Display board Ares xs	CLF-15-067
29	CLF Wireless board Ares xs	CLF-15-064
30	CLF Base Ares xs	CLF-15-003
31	CLF Power supply Ares xs	CLF-15-037
32	CLF Rubber ring for cover base Ares xs	CLF-15-024
33	CLF Fan for powersupply Ares xs	CLF-15-040
34	CLF Base cover Ares xs	CLF-15-004

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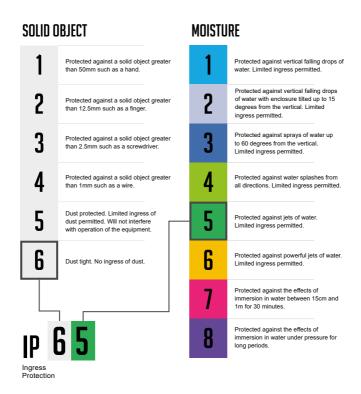
SPECIFICATIONS

JELUH IGH HUMJ	
Physical	
Length	381mm
Width	233mm
Height	336mm
Weight	8.7 kg without accessories
Dynamic Efects	
beam angle	21°
Optics	
Light source	18 pcs high-power LEDs (RGBW)
Control and Programming	
Control	DMX512-A
DMX channels	04 / 09 / 11 / 12 / 17 / 23 / 24
Setting and addressing	Control panel with backlit LCD graphic display
Protocol	RDM, USITT DMX512-A
Control and Programming	
Color	Black
Housing	High strength die-casting aluminum
Protection rating	IP 65 (If rubbers covers are place correctly when connectors are not used)
Installation	
Orientation	Any
Minimum distance to combustible materials	100 mm. from fixture
Minimum distance to illuminated surfaces	200 mm. from fixture
Connections	
AC power input	PowerCON TRUE 1 ® input socket
AC power throughput	PowerCON TRUE 1 ® output socket
DMX data in/out	5 pin locking XLR (3 pin optional with #CLF-13-453 & CLF-13-454)
Electrical	
AC power	100-240 V nominal, 50/60 Hz
Maximum total power consumption	300 W
Power supply unit	Auto-ranging electronic switch mode
Power consumption, all efects static, zero light output	<15 W
Power consumption	
120 V, 60 Hz	300 W, PF 0.991
240 V, 50 Hz	300 W, PF 0.953
PF = power factor. Measurements made at nominal voltage with all LED	Os at full intensity. Allow for a deviation of + /- 10%. Thermal
Cooling	Forced air (temperature-regulated, low noise, user-definable levels)
Maximum ambient temperature (Ta max.)	40° C
Minimum ambient temperature (Ta min.)	5°
Total heat dissipation (calculated, +/- 10%)	820 BTU/hr.

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OUTDOOR IP-RATED FIXTURES

CLF products are applied to official classified IP norm levels. For this product the IP rate is IP65 when using the covers for the chassis parts. IP65 means according classified norm: shielded against dust and pressurized water from any side. Typical use for outdoor rated stage events with normal weather acceptance. So no heavy rain, because then the water pressure over exceeds the IP norm.



CONDENSATION/MOISTURE INSIDE HOUSING

Because of high humidity levels during production condensation can occur inside the housing. This is mostly visible on the coldest parts of the fixture, like the front glass or display. To prevent this problem we work with special conditioned areas for outdoor fixtures. Because of the breathing air valves it is still possible to get humidity inside the fixture. This will evaporate slowly. Do not put wet fixtures in a flightcase, this will help humidity enter the fixture.

FIXTURES TEMPERATURE SPECIFICATION

Make sure the fixture is used within its working temperature range. Outside this range we cannot guarantee correct operation.

TEMPORARY USAGE:

Stage event equipment is designed with temporary use in mind. Our product purpose is for theatre, festival, (disco) clubs and indoor & outdoor concerts. Long term use is possible but keep in mind that it can bring damage to aging materials and affect the coated surface (i.e. stainless steel). Rubber sealings will be negatively affected after long-term UV exposure and should be checked by qualified service technicians over time.

Tighten screws too hard will also affect the IP-rating.

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