

MANUAL



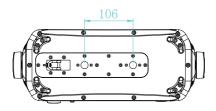
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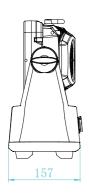
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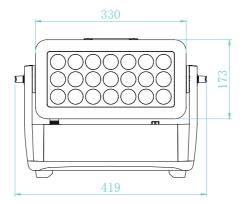
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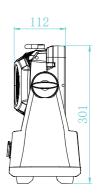
Exploded view

DIMENSIONSALL DIMENSIONS ARE IN MILLIMETERS









SAFETY INSTRUCTION



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 manual.



Warning! Risk Group 2 (Moderate-Risk) LED product according to EN 62471.

Do not look into the beam at short distance of the 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 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.
- 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



- The exterior of the fixture becomes hot during use. Avoid contact by persons and materials.

 Allow the fixture to cool for at least 5 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
 fixture fixtures in total to each other in an interconnected chain.
- Connect only other fixture fixtures to fixture power throughput sockets.
- Do not connect any other type of device to these sockets.
- 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 directly into the product's light output.
- · Do not look at operating lamp. Eye injury may result.
- Do not look at the light output with magnifiers, telescopes, binoculars or similar optical instruments that may concentratethe light output.
- Ensure that persons are not looking directly into the front of the fixture when the product lights up suddenly. This
 can happen when power is applied, when the product receives a DMX signal, or when certain control menu items
 are selected.



- To minimize the risk of eye irritation or injury, disconnect the fixture from power at all times when the fixture is not
 in use and provide well-lit conditions to reduce the pupil diameter of anyone working on or near the fixture.
- · 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.

FCC STATEMENT



This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- -Reorient or relocate the receiving antenna.
- -Increase the separation between the equipment and receiver.
- -Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- -Consult the dealer or an experienced radio/TV technician for help.



To assure continued compliance, any changes or modifications not expressly approved by the party.Responsible for compliance could void the user's authority to operate this equipment.

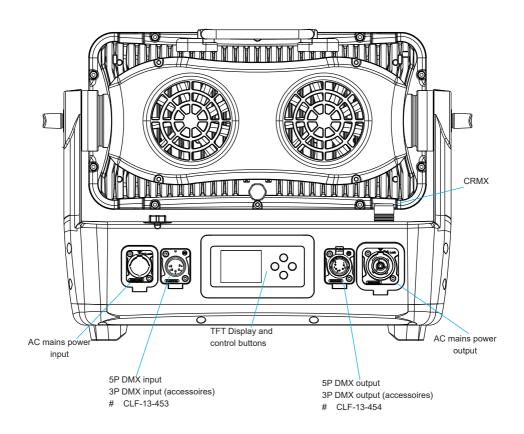
This equipment complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

FCC Radiation Exposure Statement:

The equipment complies with FCC Radiation exposure limits set forth for uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

FIXTURE OVERVIEW



INTRODUCTION

POWERFUL AND VERSATILE OUTDOOR LED WASH

- 16-bit technology for high-resolution colours and dimming
- RGBL and RGBW DMX control mode
- 17° beam and 31° field angles (without smart filter system)
- Magnetic smart filter system
- Smart controlled fans for optimized low noise operation
- CRMX, RDM, Stand alone modes
- IP 65 rating for dustproof and outdoor use

USING FOR THE FIRST TIME



Warning! Read "Safety Information" 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.

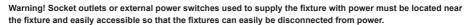
See "Power cables and power plug" on page 6. Install a PowerCON TRUE 1 ® power input connector power cable.

AC POWER



Warning! Read "Safety Information" starting on 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.





Important! Do not insert or remove PowerCON TRUE 1 @ 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.

POWER CABLES

Power input and throughput cables must be rated 16A 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 16A 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
Brown	Black	Live	L
Blue	White	Neutral	N
Yellow/Green	Green	Ground (earth)	⊕ or <u></u>

Table 1: Wire color-coding and power connections

RELAYING POWER TO OTHER DEVICES

Warning! Power can be relayed to another device via the PowerCON TRUE 1 ® 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.
- When AC mains power voltage is 230V, do not connect more than 10 SERA XS fixtures in total (including the first fixture) to AC
 mains power in one interconnected daisy chain using power input and through out connectors.
- When AC mains power voltage is 110V, do not connect more than 5 SERA XS fixtures 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



Warning! 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 if it falls, attach an approved safety cable to one of the safety cable attachment points on the base (see "Fixture overview").

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 cooling 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") 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 with the arrow on the base towards the area to be illuminated. 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"). Do not use any other part of the fixture as a safety cable attachment point.

The installation of the fixture 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 catch net. This secondary safety attachment must be constructed in a way that no part of the installation can fall down if the main attachment fails.

When rigging, derigging or servicing the fixture staying in the area below the installation place, on bridges, under high working places and other endangered areas is forbidden.

The operator has to make sure that safety-relating and machine-technical installations are approved by an expert before taking into operation for the first time and after changes before taking into operation another time.

The operator has to make sure that safety-relating and machine-technical installations are approved by an expert after every four year in the course of an acceptance test.

The operator has to make sure that safety-relating and machine-technical installations are approved by a skilled person once a year.

The fixture should be installed outside areas where persons may walk by or be seated.

IMPORTANT! OVERHEAD RIGGING REQUIRES EXTENSIVE EXPERIENCE, including (but not limited to) calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the projector. If you lack these qualifications, do not attempt the installation yourself, but instead use a professional structural rigger. Improper installation can result in bodily injury or damage to property. The fixture has to be installed out of the reach of people.

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If the fixture shall be lowered from the ceiling or high joists, professional trussing systems have to be used. The fixture must never be fixed swinging freely in the room.

Caution: Fixture may cause severe injuries when crashing down! If you have doubts concerning the safety of a possible installation, do not install the moving head!

Before rigging make sure that the installation area can hold a minimum point load of 10 times the fixture's weight.

When installing the device, make sure there is no highly inflammable material (decoration articles, etc.) in a distance of min. 0.5 m.

Use an appropriate clamp to rig the fixture on the truss.

Follow the instructions mentioned at the bottom of the base.

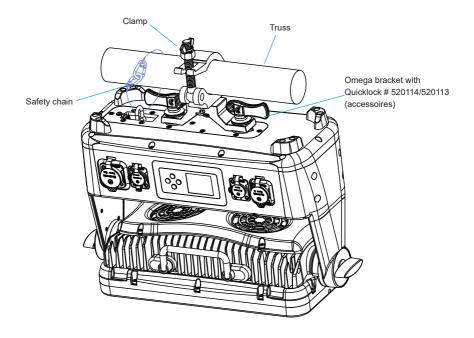
Make sure that the device is fixed properly! Ensure that the structure (truss) to which you are attaching the fixtures is secure.



The fixture can be placed directly on the stage floor or rigged on a truss without altering its operation characteristics .

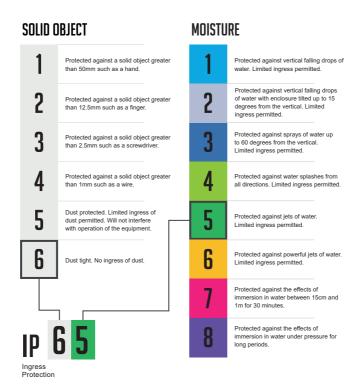
For securing the fixture to the truss, install a safety wire which can hold at least 10 times the weight of the fixture. Use only the safety wire with a snap hook with screw lock gate. Fasten the safety cable in the attachment point and around the truss as shown on the picture below.

RIGGING VIA OMEGA BRACKET:



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.

SETUP

Warning! Read "Safety Information" before installing, powering or operating the fixture.

CONTROL PANEL AND MENII 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" for a complete list of menus and commands.

Using the control buttons

- To enter the menu select [MENU].
- 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 [MENU].
- Hold [MENU] = highlight for 15 seconds
- Press [UP] and [DOWN] together to rotate display

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 its to a separate channel. The DMX address can be configured as 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 sollution transmitter all the units in this mode will be connected.

If the unit is successfully connected display show the sign " 41: VV ".

If the unit is successfully connected ,but the signal is weak, display show the sign " 📲! " .

If the unit is not connected to a transmitter the display show the sign " al:? ".

If the unit WDMX is switched off the display show the sign " 1: ".

- 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

CONTROL MODE

DMX control mode is selected in the CONTROL MODE menu. The fixture can be controlled with 10 DMX control modes:

	2 CH	3 CH	4CH	4CH	6CH	8CH	10CH	12CH	13ch	29CH
	CCT	RGB	RGBL	RGBW	16bit	16bit		pixel	16 bit	16bit
Shutter							V		V	/
Dimmer	V						V		V	/
Dimmer fine									/	/
Function set							V		V	~
Macro color							/		/	/
RGB		V			V					
RGB fine					/					
RGBW				V						
RGBL			/			/	/		/	/
RGBL fine						V				V
CCT	/						/		/	/
CCT channel tint							V		V	/
LED 1-3 (RGBL)								V		/
Effect									V	V
Effect speed									/	V

CONTROL PANEL

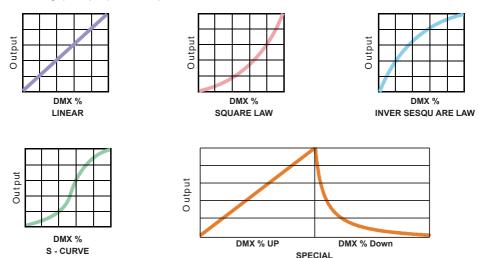
Here you can set all functions for the fixture.

PERSONALITY

FANS	Regulated = power : Min 88%, I Full = power : Min 88%, FAN : 4 Silent 1 = power : Min 68%, FAI Silent 2 = power : Min 60%, FAI	1000RPM N : 2400RPM
Dimmer speed	"Normal" means select linear difastest dimming curves, 4 for th	mming, or choose dimmer 1-4 to control the dimming speed, dimming 1 of the e most slowly dimming speed.
Dimmer curve	Linear / Square law / INV Square	re law / S- Curve / Special
WDMX Reset	Reset the Wireless Board	
LED Calibration	FACTORY = Factory calibration Normal = Color calibration mode	
CRI	High / Low	
Refresh rate	Controls the flicker frequency of 600 / 1200 / 4800 / 10000 / 250	
DMX HOLD		emember on last values when you disconnect DMX as no output when you disconnect DMX
Display	Normal= Background Light: always on = Auto off = BL blinking when no DMX: Yes =	Auto Display Flip Function enabled Auto Display Flip Function disbaled Display background Light always on Display deactivation after approximately 15 second of inactivity When there is no Dmx, the dmx value will be blinking on main menu When there is no dmx, the dmx value will be static on main menu
Indicator Light	Off = When the display is stand	dby, no dot visible to show by, there are 2 low brightness dots visible to show that the fixture is on and dmx
KEY-Lock	Locks all the button functions. S (MENU+UP+MENU+DOWN+M	Standard unlocking password is IENU+UP+MENU+DOWN+ENTER)
Alarm	password.	the fixture will on red color when you move on fixture, It need to create a new It need to create a new password or enter default password to release this.
Font selection	Select display font	

DIMMER MODE

provides five dimming options (see picture below):



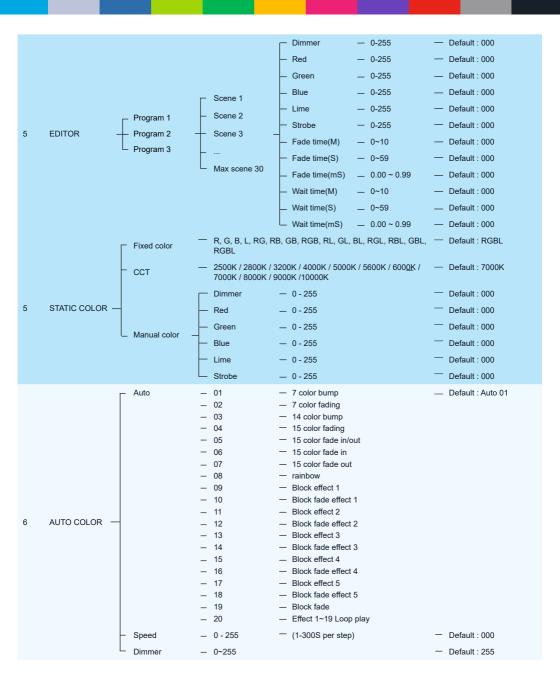
- LINEAR the increase in light intensity appears to be linear as DMX value is increased.
- SQUARE LAW light intensity control is finer at low levels and coarser at high levels.
- INV Square law light intensity control is coarser at low levels and finer at high levels.
- S-CURVE light intensity control is finer at low levels and high levels and coarser at medium levels.
- Special the light intensity was linear increase with DMX value, and light intensity control is finer at low level with DMX values
 decrease, the dimmer speed will also has effect on it.

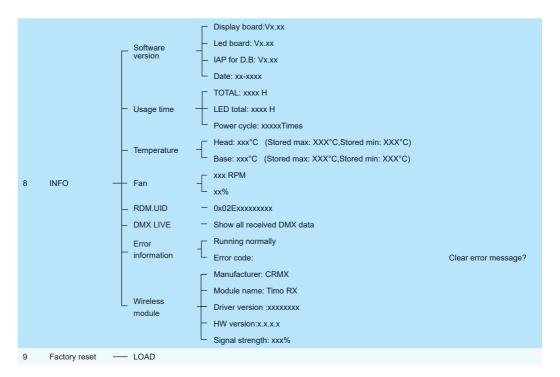
Whichever DIMMER CURVE option you select, you can choose between NORMAL or SMOOTH 1 / 2 / 3 / 4 dimming settings:

- 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 1 / 2 / 3 / 4 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.

ONBOARD CONTROL MENU

NO.	Main menu	Menu level 2	Menu level 3	Remark				
1	DMY ADDRESS T	Set DMX Address —	<001>	— Default : 001				
1	DMX ADDRESS —	DMX Signal Mode—	wire / wireless	— Default : wire				
	Г	2 CH CCT —	1.Dimmer, 2.CCT					
	_	3 CH RGB —	1.Red, 2.Green, 3.Blue					
	-	4CH RGBL —	1.Red, 2.Green, 3.Blue, 4.Lime					
	-	4CH RGBW —	4CH RGBW — 1.Red, 2.Green, 3.Blue, 4.White					
	-	6CH 16bit —	1.Red, 2.Red fine, 3.Green, 4.Green fine, 5.Blue, 6.B	lue fine				
		8CH 16bit —	1.Red, 2.Red fine, 3.Green, 4.Green fine, 5.Blue, 6.B 7.Lime, 8.Lime fine	lue fine,				
		10CH —	1.Strobe, 2.Dimmer, 3.Function set, 4.Color macro, 5 6.Green, 7.Blue, 8.Lime, 9.CCT, 10.Tint	Red,				
2	CONTROL MODE	12CH pixel —	1.Block1 red, 2.Block1 green, 3.Block1 blue, 4.Block 5.Block2 red, 6.Block2 green, 7.Block2 blue, 8.Block2 9.Block3 red, 10.Block3 green, 11.Block3 blue, 12.Blo	? lime,				
		- 13ch 16 bit —	1.Strobe, 2.Dimmer, 3.Dimmer fine, 4.Function set, 5.Color macro, 6.Red, 7.Green, 8.Blue, 9.Lime, 10.Cd 11.Tint, 12.Effect, 13.E-speed/Fade	ст,				
	L	- 29CH 16bit —	1.Strobe, 2.Dimmer, 3.Dimmer fine, 4.Function set, 5 macro, 6.Red, 7.Red fine, 8.Green, 9.Green fine, 10.1 11.Blue fine, 12.Lime, 13.Lime fine, 14.CCT, 15.Tint, red, 17.Block1 green, 18.Block1 blue, 19.Block1 lime 20.Block2 red, 21.Block2 green, 22.Block2 blue, 23.B lime, 24.Block3 red, 25.Block3 green, 26.Block3 blue 27.Block3 lime, 28.Effect, 29.E-speed/Fade	Blue, 16.Block1 lock2				
	Г	FANS —	Regulated / Full / Silent 1 / Silent 2	— Default : Regulated				
	-	Dimmer Speed —	Normal / Smooth 1 / Smooth 2 / Smooth 3 / Smooth 4	— Default : Normal				
	-	Dimmer Curve —	Linear / Square law/INV Square law / S-curve / Speci	al — Default : Linear				
	-	WDMX Reset —	Reset the Wireless ?					
	-	Calibration —	Factory / Normal	— Default : Factory				
	-	CRI —	High / Low	— Default : Low				
	-	Refresh Rate —	600Hz / 1200Hz / 4800Hz / 10000Hz / 25000Hz	— Default : 1200Hz				
	-	DMX hold —	Dmx hold / No dmx hold	— Default : Dmx hold				
4	PERSONALITY —		Rotate Auto / Normal	Default : Normal				
٠	- 21.001.01.211	Display	Background Light Always on / Auto off (15S)	Default : Auto off				
			BL blinking when Yes / No no DMX	Default : Yes				
		Indicator Light —	Off On	— Default : Off				
	-	Key Lock —	On / Off	— Default : Off				
		Alarm	ON Create new password	— Default : Off				
		Alailli	OFF Enter your password					
		Font selection	Helvetica / Arial / Univers / Calibri / Big noodle titling / / Book Antiqua	Gill Sans— Default : Helvetica				





DMX PROTOCOLS

2CH CCT

2 CH	Function	Value	Setting	Remark
1	Dimmer	000 - 255	0 - 100%	
2	ССТ	000 - 005 006 - 255	No function 10000K - 2500K	

3CH RGB / 6CH 16bit / 4CH RBGL / 8CH 16bit

3CH	4CH	6CH	8CH	Function	Value	Setting	Remark
1	1	1	1	Red	000 - 255	0 - 100%	
		2	2	Red fine	000 - 255	0 - 100%	
2	2	3	3	Green	000 - 255	0 - 100%	
		4	4	Green fine	000 - 255	0 - 100%	
3	3	5	5	Blue	000 - 255	0 - 100%	
		6	6	Blue fine	000 - 255	0 - 100%	
	4		7	Lime	000 - 255	0 - 100%	
			8	Lime fine	000 - 255	0 - 100%	

4CH RBGW (RGBW led simulation)

3CH	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%	

10CH / 12CH pixel / 13CH / 29CH

10CH	12CH	13CH	29CH	Function	Value	Setting	Remark
					000 - 019	No function	
					020 - 024	Shutter open	
					025 - 064	Strobe 1 (fast → slow)	
					065 - 069	Shutter open	
					070 - 084	Strobe 2: opening pulse (fast → slow)	
					085 - 089	Shutter open	
					090 - 104	Strobe 3: closing pulse (fast → slow)	
					105 - 109	Shutter open	
					110 - 124	Strobe 4: random strobe (fast \rightarrow slow)	
					125 - 129	Shutter open	
1	1	1		Shutter	130 - 144	Strobe 5: random opening pulse (fast \rightarrow slow)	
	•	•		Chattor	145 - 149	Shutter open	
					150 - 164	Strobe 6: random closing pulse (fast \rightarrow slow)	
					165 - 169	Shutter open	
					170 - 184	Strobe 7: burst pulse (fast → slow)	
					185 - 189	Shutter open	
					190 - 204	Strobe 8: random burst pulse (fast \rightarrow slow)	
					205 - 209	Shutter open	
					210 - 224	Strobe 9: sine wave (fast → slow)	
					225 - 229	Shutter open	
					230 - 244	Strobe 10: burst (fast → slow)	
					245 - 255	Shutter open	
2	2	2		Dimmer	000 - 255	0 - 100%	
	3	3		Dimmer fine	000 - 255	0 - 100%	

10CH	12CH	13CH	29CH	Function	Value	Setting	Remark
3		4	4	Fixture control settings	000 - 059 060 - 064 065 - 069 070 - 074 075 - 079 080 - 089 090 - 094 095 - 099 100 - 104 105 - 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 - 199 200 - 204 205 - 209 210 - 214 215 - 219 220 - 224 225 - 229 230 - 249 255 - 089	No function Fan mode REGULATED Fan mode SILENT 1 Fan mode SILENT 1 Fan mode SILENT 2 No function Calibrated color output mode- Calibrated= ON No function Raw color output mode- Calibrated = OFF No function 600 Hz Refresh rate 1200 Hz Refresh rate 1200 Hz Refresh rate 1200 Hz Refresh rate 25000Hz Refresh rate 10000Hz Refresh rate No function CRI = High No function CRI = LOW No function CRI = LOW No function UDIMX - RESET No function Dimmer Speed Normal No function Dimmer Speed Smooth 1 Dimmer Speed Smooth 2 Dimmer Speed Smooth 3 Dimmer Speed Smooth 4 No function Alarm = On Alarm = Off No function LCD display on	Value must be held for 3 seconds to activate.
4		5	5	Color macro	000 - 255	Please see page 23 Color macro chart	
5		6	6	Red	000 - 255	0 - 100%	
			7	Red fine	000 - 255	0 - 100%	
6		7	8	Green	000 - 255	0 - 100%	
			9	Green fine	000 - 255	0 - 100%	
7		8	10	Blue	000 - 255	0 - 100%	
		3	11	Blue fine	000 - 255	0 - 100%	
0		0	12	Lime			
8		9			000 - 255	0 - 100%	
			13	Lime fine	000 - 255	0 - 100%	
9		10	14	ССТ	000 - 005 006 - 255	No function 10000k - 2500k	
10		11	15	CCT channel tint	000 001-127 128-128 129-255	No Function Magenta - Neutral Neutral Neutral - Green	

10CH	12CH	13CH	29CH	Function	Value	Setting	Remark
	1		16	Red 1	000 - 255	0 - 100%	
	2		17	Green 1	000 - 255	0 - 100%	
	3		18	Blue 1	000 - 255	0 - 100%	
	4		19	Lime 1	000 - 255	0 - 100%	
	5		20	Red 2	000 - 255	0 - 100%	
	6		21	Green 2	000 - 255	0 - 100%	
	7		22	Blue 2	000 - 255	0 - 100%	
	8		23	Lime 2	000 - 255	0 - 100%	
	9		24	Red 3	000 - 255	0 - 100%	
	10		25	Green 3	000 - 255	0 - 100%	
	11		26	Blue 3	000 - 255	0 - 100%	
	12		27	Lime 3	000 - 255	0 - 100%	
					000 - 009	No function	
					010 - 019	Effect 1	
					020 - 029	Effect 2	
					030 - 039	Effect 3	
					040 - 049	Effect 4	
					050 - 059	Effect 5	
					060 - 069	Effect 6	
					070 - 079	Effect 7	
					080 - 089	Effect 8	
					090 - 099	Effect 9	
		12	28	Effect	100 - 109	Effect 10	
					110 - 119	Effect 11	
					120 - 129	Effect 12	
					130 - 139	Effect 13	
					140 - 149	Effect 14	
					150 - 159	Effect 15	
					160 - 169	Effect 16	
					170 - 179	Effect 17	
					180 - 189	Effect 18	
					190 - 199	Effect 19	
					200 - 255	Effect 20	
		13	29	Speed	000	No function	
				.,	001 - 255	Effect speed / Dimmer speed	

COLOR MACRO CHART

DMX value	Gel Name	Color Number	DMX value	
0-4	no function		44	
5	Rose Pink	LEE 002	45	
6	Medium Bastard Amber	LEE 004	46	
7	Pale Yellow	LEE 007	47	,
8	Dark Salmon	LEE 008	48	48 Bright Pink
9	Pale Amber Gold	LEE 009	49	49 Marine Blue
10	Medium Yellow	LEE 010	50	50 Medium Blue
11	Straw Tint	LEE 013	51	51 Golden Amber
12	Deep Straw	LEE 015	52	52 Deep Golden Amber
13	Surprise Peach	LEE 017	53	53 Special Lavender
14	Medium Amber	LEE 020	54	54 Pale Green
15	Dark Amber	LEE 022	55	55 Primary Green
16	Sunset Red	LEE 025	56	56 Summer Blue
17	Bright Red	LEE 026	57	57 Bright Blue
18	Medium Pink	LEE 036	58	58 Pale Violet
19	Rose Purple	LEE 048	59	59 Pale Navy Blue
20	Lavender	LEE 058	60	60 No Colour Blue
21	Pale Blue	LEE 063	61	61 Apricot
22	Sky Blue	LEE 068	62	62 Bright Rose
23	Tokyo Blue	LEE 071	63	63 Gold Tint
24	Evening Blue	LEE 075	64	64 Pale Gold
25	Lime Green	LEE 088	65	65 Pale Salmon
26	Moss Green	LEE 089	66	66 Pale Rose
27	Dark Yellow Green	LEE 090	67	67 Chocolate
28	Yellow	LEE 101	68	
29	Straw	LEE 103	69	
30	Deep Amber	LEE 104	70	, ,
31		LEE 105	71	
32	Orange	LEE 105	72	
	Primary Red			
33	Light Rose	LEE 107	73	, 0
34	English Rose	LEE 108	74	·
35	Light Salmon	LEE 109	75	ű
36	Middle Rose	LEE 110	76	76 Dark Steel Blue
37	Dark Pink	LEE 111	77	77 Loving Amber
38	Magenta	LEE 113	78	78 Chrome Orange
39	Peacock Blue	LEE 115	79	79 Dark Lavender
40	Steel Blue	LEE 117	80	80 Congo Blue
41	Light Blue	LEE 118	81	81 Moonlight Blue
42	Dark Blue	LEE 119	82	82 Flesh Pink
43	LEE Green	LEE 121	83	83 Surprise Pink

DMX value	Gel Name	Color Number
84	Zenith Blue	LEE 195
85	True Blue	LEE 196
86	Alice Blue	LEE 197
87	Palace Blue	LEE 198
88	Regal Blue	LEE 199
89	Double CTB	LEE 200
90	Full CTB	LEE 201
91	Half CTB	LEE 202
92	Quarter CTB	LEE 203
93	Full CTO	LEE 204
94	Half CTO	LEE 205
95	Quarter CTO	LEE 206
96	Full CTO + .3 ND	LEE 207
97	Full CTO + .6 ND	LEE 208
98	LCT Yellow (Y1)	LEE 212
99	White Flame Green	LEE 213
100	LEE Fluorescent Green	LEE 219
101	Super Correction LCT Yellow	LEE 230
102	Super Correction W.F. Green	LEE 232
103	HMI (to Tungsten)	LEE 236
104	CID (to Tungsten)	LEE 237
105	CSI (to Tungsten)	LEE 238
106	LEE Fluorescent 5700 Kelvin	LEE 241
107	LEE Fluorescent 4300 Kelvin	LEE 242
108	LEE Fluorescent 3600 Kelvin	LEE 243
109	LEE Plus Green	LEE 244
110	Half Plus Green	LEE 245
111	LEE Minus Green	LEE 247
112	Half Minus Green	LEE 248
113	Quarter Minus Green	LEE 249
114	Three Quarter CTB	LEE 281
115	One and a Half CTB	LEE 283
116	Three Quarter CTO	LEE 285
117	One and a Half CTO	LEE 286
118	Double CTO	LEE 287
119	Soft Green	LEE 322
120	Jade	LEE 323
121	Forest Green	LEE 327
		LEE 328
122	Follies Pink	LEE 320

DMX value	Gel Name	Color Number
164	Bray Blue	LEE 722
165	Virgin Blue	LEE 723
166	Ocean Blue	LEE 724
167	Old Steel Blue	LEE 725
168	QFD Blue	LEE 727
169	Steel Green	LEE 728
170	Scuba Blue	LEE 729
171	Twickenham Green	LEE 736
172	JAS Green	LEE 738
173	Bram Brown	LEE 742
174	Dirty White	LEE 744
175	Easy White	LEE 747
176	Seedy Pink	LEE 748
177	Wheat	LEE 763
178	Sun Colour Straw	LEE 764
179	LEE Yellow	LEE 765
180	Oklahoma Yellow	LEE 767
181	Egg Yolk Yellow	LEE 768
182	Burnt Yellow	LEE 770
183	Rust	LEE 777
184	Millennium Gold	LEE 778
185	Bastard Pink	LEE 779
186	AS Golden Amber	LEE 780

DMX value	Function	setting
187	Terry Red	LEE 781
188	Moroccan Pink	LEE 790
189	Vanity Fair	LEE 793
190	Pretty 'n Pink	LEE 794
191	Magical Magenta	LEE 795
192	Special KH Lavender	LEE 799
193	Color Effect	2500K
194	CCT 1	2800K
195	CCT 2	3200K
196	CCT 3	4000K
197	CCT 4	5000K
198	CCT 5	5600K
199	CCT 6	6000K
200	CCT 7	7000K
201	CCT 8	8000K
202	CCT 9	9000K
203	CCT 10	10,000K
204 - 205	no function	
206 - 215	colour rainbow 1	slow - fast
216 - 225	colour rainbow 2	slow - fast
226 - 235	colour rainbow 3	slow - fast
236 - 245	colour rainbow 4	slow - fast
246 - 255	colour rainbow 5	slow - fast

SPECIFICATIONS

Power

Input voltage & rate 100-240V, 50/60Hz

Standby power 7W

Nominal total power consumption (at nominal voltage 230V) 390W

Cos φ 0,971

Power plug type Seetronic PowerCon True

Configuration

Typical current (at nominal voltage 230V)

LED color RGBL

LED color temperature 2500 K - 10000 K

Quantity of LED 21 pcs

Dimming frequency 600 / 1200 / 4800 / 10000 / 25000 Hz

Dimmer resolution 8bit / 16bit

Optical

Beam angle Beam angle 17.5 $^{\circ}$ (50%)

Field angle 31.4° (10%)

Photometric

Output @3M 19000 lux
Output @5M 7500 lux

Heat management

Cooling type: Forced air (temperature-regulated, low noise, user-definable levels)

1.72A

MAX. Ambient temp (Ta max) 40, $^{\circ}$ C MIN. Ambient temp (Ta min) -20, $^{\circ}$ C MAX housing temp.(ta=25 $^{\circ}$ C) 50, $^{\circ}$ C MAX housing temp.(ta=40 $^{\circ}$ C) 65, $^{\circ}$ C

Menu

Auto program Yes
Static color Yes
Manual calibration Yes
Factory calibration Yes
Strobe speed 0 - 20Hz
Random strobe Yes

^{*} PF = power factor. Measurements made at nominal voltage with all LEDs at full intensity. Allow for a deviation of +/- 10%.

Control

Control protocol USITT DMX512/1990

DMX channel range 2 / 3 / 4 / 4 / 6 / 8 / 10 / 12 / 13 / 29 CH

RDM Yes

RDM compliance ANSI/ESTA E.120

CRMX Standard (Wireles Solution from Lumenradio)

ACN None

DMX input connection DMX 5P in & out (3 pin possible with optional chassis part)

Data input (artnet, SACN) None

Hardware

Interface Backlite TFT display
Software upload method XLR via special box

Installation

IP rating IP65

Housing

Safety attachment point Yes

Physical

 Net product weight
 9.3kg

 Machine dimensions - Length
 418 mm

 Machine dimensions - Width
 157 mm

 Machine dimensions - Height
 301 mm

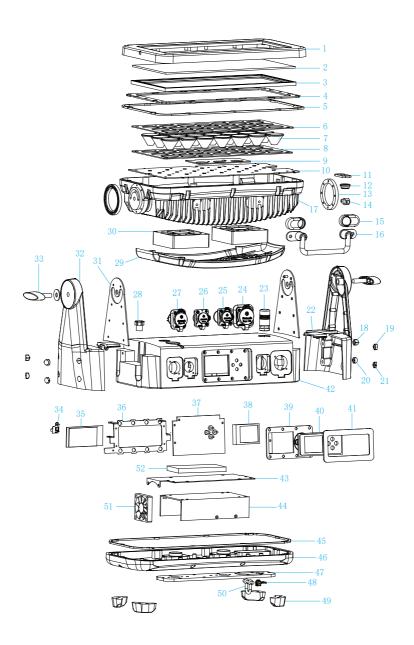
Accessories

Included items Power cable , manual

Approvals

Approved certifications CE / ROHS, FCC, UKCA, RED

EXPLODED VIEW



NO.	Description	Part Number
1	Top cover	CLF-28-001
2	Glass for cover	CLF-28-002
3	Waterproof pads for glass	CLF-28-003
4	Batt glass frame	CLF-28-004
5	Batt waterproof pads of cover	CLF-28-005
6	Lens clamp	CLF-28-006
7	Lens	CLF-28-007
8	Lens plate	CLF-28-008
9	Led control board	CLF-29-007
10	Led board	CLF-29-002
11	Plate for cable	CLF-28-011
12	Waterproof ring for cable	CLF-28-012
13	Dial	CLF-28-013
14	Protect ring for cable	CLF-28-014
15	Handle pads	CLF-28-015
16	Stainless steel folding handle	CLF-28-016
17	Radiator	CLF-28-017
18	Rubber pads for bracket 3	CLF-28-018
19	Rubber pads for bracket 4	CLF-28-019
20	Rubber pads for bracket 1	CLF-28-020
21	Rubber pads for bracket 2	CLF-28-021
22	Bracket accessories	CLF-29-017
23	Wdmx antenna	CLF-28-023
24	Powercon female	CLF-28-024
25	XLR board and 5pin females socket	CLF-28-025
26	XLR board and 5pin males socket	CLF-28-026

