ODIN

MANUAL

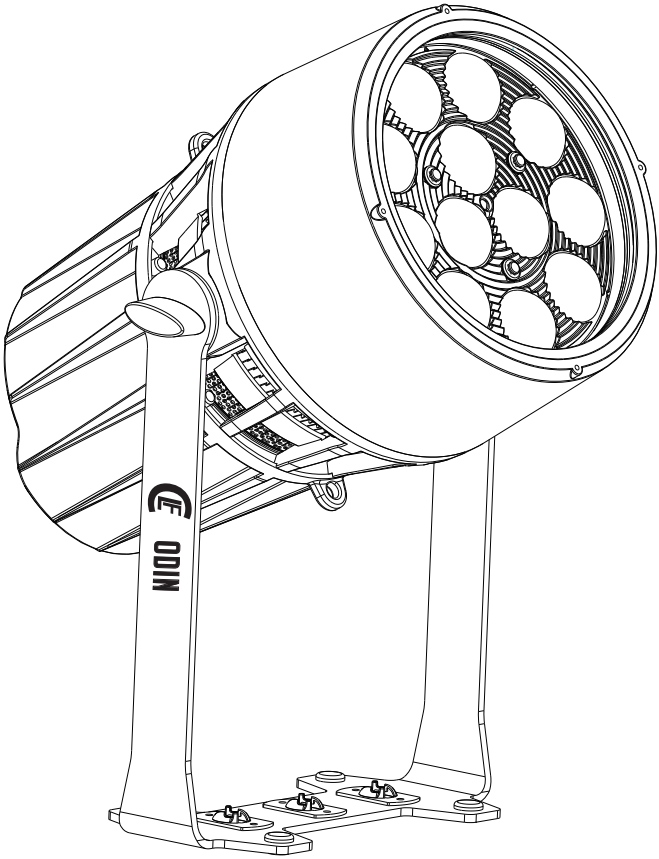
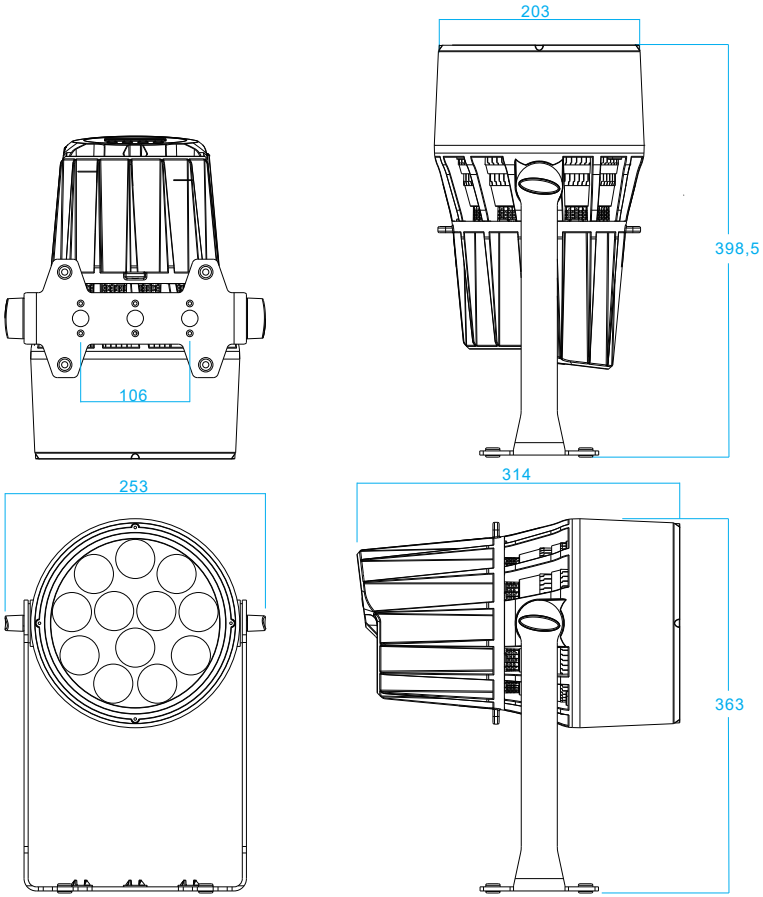


TABLE OF CONTENTS

DIMENSIONS

ALL 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 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 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 4 fixtures in total to each other in an interconnected chain.
- Connect only other fixture 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

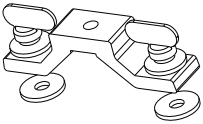
- Do not look continuously at LEDs from a distance of less than 3 meters from the front surface of the fixture without protective eyewear such as shade 4-5 welding goggles. At less than this distance, the LED emission can cause eye injury or irritation. At distances of 3 meters and above, light output is harmless to the naked eye provided that the eye's natural aversion response is not overcome.
- 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.

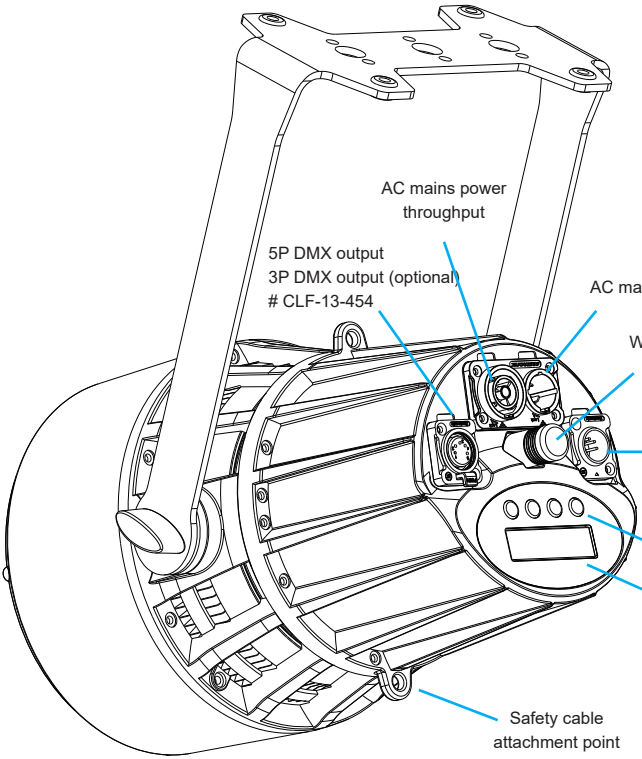
- Allow enough clearance around the head to ensure that it cannot collide with an object or another fixture when it moves.
- Check that all external covers and rigging hardware are securely fastened.
- Block access below the work area and work from a stable platform whenever installing, servicing or moving the fixture.
- Do not operate the fixture with missing or damaged covers, shields or any optical component.

FIXTURE OVERVIEW

G Clamp with
Quicklock # 875760
(Optional)



Omega bracket with
Quicklock # 520114 Chrome /
Black 520113
(Optional)



INTRODUCTION

POWERFUL OUTDOOR ZOOM PAR

- SMOOTH RGB+LIME COLOR MIXING
- IP65 RATING
- 11-50° ZOOM RANGE
- HIGH CRI & R9 VALUES
- SILENT OPERATION
- DEFINABLE USER MODES

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 distributioncircuit 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 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 ⏚

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 ® 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.

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.

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

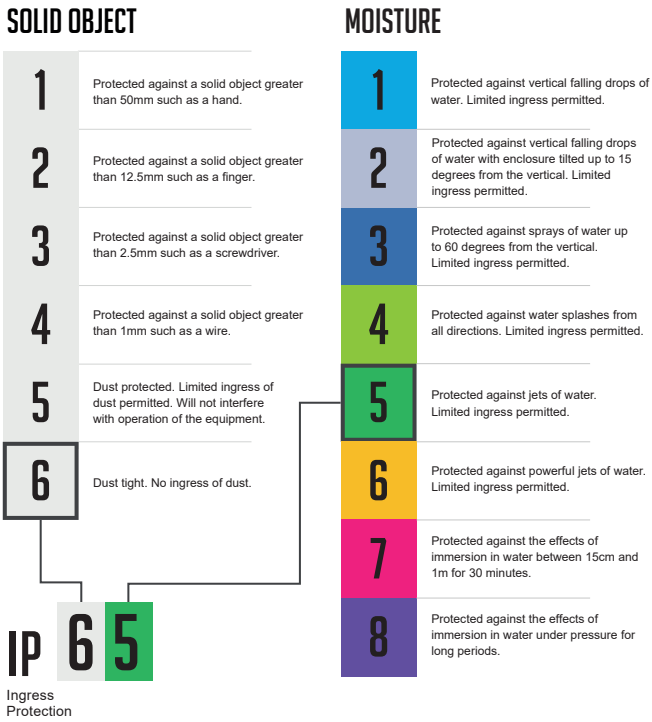
The fixture can be fastened to a fixed flat surface that is oriented at any angle. Check that the surface can support at least 10 times the weight of all fixtures and equipment to be installed on it.

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.

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 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 13 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].
- Hold [MODE] / [ENTER] = for 15 seconds test mode
- 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 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 (OPTIONAL ±Q3 2020)

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 in the home display the sign “ ◢ : V ” appears. If the unit is not connected to a transmitter in the home display the sign “ ◢ : X ”. If the unit is switched off in the home display the sign “ ◢ : 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

CONTROL MODE

DMX control mode is selected in the CONTROL MODE menu. The fixture can be controlled with 5 DMX control modes:

	4ch	6ch	8ch	9ch	13ch
Strobe			✓	✓	✓
Dimmer			✓	✓	✓
ZOOM		✓	✓	✓	✓
Function set		✓		✓	✓
Color macro				✓	✓
RGBL	✓	✓	✓	✓	✓
CCT				✓	✓
Auto					✓
Auto speed					✓
Fade					✓

CONTROL PANEL

Here you can set all functions for the fixture.

PERSONALITY

Zoom offset	-9 ~ 0 ~ +9
FAN MODE	Regulated = power : MAX 262W, FAN : variable Full = power : MAX 262W, FAN : 3000RPM Silent 1 = power : MAX 210W, FAN : 1800RPM Silent 2 = power : MAX 230W, FAN : 2350RPM
Dimmer speed	“Normal” means select linear dimming, or choose dimmer 1-4 to control the dimming speed, dimming 1 of the fastest dimming curves, 4 for the most slowly dimming curve.
Dimmer curve	Linear / Square law / INV Square law / S- Curve / Special
W-DMX (if installed)	ON =Turn on the wireless Board OFF=Turn off the wireless Board RESET =Reset the wireless Board
Calibration	Normal = Color calibration mode off. FACTORY = Factory calibration mode, RGBW to white is factory calibration
CRI	HIGH = 2500K & 2800K RA>80, 3200K-10000K RA>85 NORMAL= CCT ,RA < 80
Refresh rate	600 - 10000Hz
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
KEY-LOCK	Locks all the button functions. Standard unlocking password is (MODE+UP+MODE+DOWN+MODE+UP+MODE+DOWN+ENTER)

INFORMATION

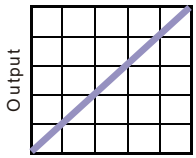
Software type	Shows software version (Vx.x)
Usage time	Use of time for fixture Use of time for LED (RGBLime together)
Temperature	LED board current temperature xxx°C (Stored max:xxx°C, Stored min:xxx°C)
Fan	xxx RPM xx%
RDM.UID	Shows the unique ID for the RDM protocoll. <0x02E20002xxxx>
Error message	No errors detected Error message Clear error message?

FACTORY RESET

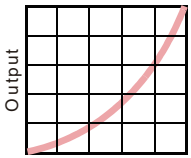
Resets the fixture to its factory default settings.

DIMMER CURVE

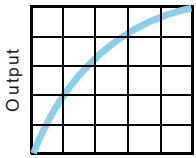
Provides five dimming options (see picture below):



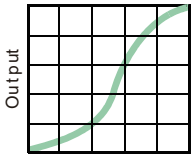
LINEAR



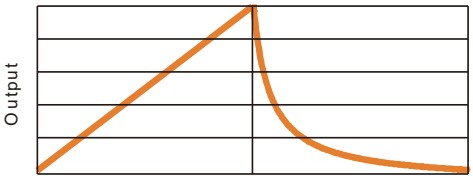
SQUARE LAW



INVERSE SQUARE LAW



S-CURVE



SPECIAL

- **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.

Whatever 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. (Depending on DMX network quality)
- 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 -NORMAL

NO.	Main menu	Menu level 2	Menu level 3		Remark
1	DMX ADDRESS	<001>			Default : 001
2	CONTROL MODE	4CH (MANUAL Z.)	1.Red, 2.Green, 3.Blue, 4.Lime, Manual zoom		Default : 13CH
		6CH	1.Zoom, 2.Fixture setting, 3.Red, 4.Green, 5.Blue, 6.Lime		
		8CH	1. Dimmer, 2.Zoom, 3. Strobe duration, 4. Strobe rate , 5. Red, 6. Green, 7. Blue, 8. Lime		
		9CH	1.Strobe, 2.Dimmer, 3.Zoom, 4.Functions, 5.Red 6.Green, 7.Blue, 8.Lime, 9.CCT		
		13CH	1.Strobe, 2.Dimmer, 3.Zoom, 4.Functions, 5Color macro, 6.Red, 7.Green, 8.Blue, 9.Lime, 10.CCT, 11.Effect, 12.Effect speed, 13.Fade		
3	PERSONALITY	Zoom offset	-9 ~ 0 ~ +9		
		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 / Special		Default : Linear
		W-DMX	ON	Turn on the Wireless ?	Default :Off
			Off	Turn off the Wireless ?	
			RESET	Turn off the Wireless ?	
		Calibration	Normal / Factory		Default : Factory
		CRI	HIGH / NORMAL		default: NORMAL
		Refresh rate	600 - 10.000Hz		default: 600
		DMX HOLD	DMX hold / No DMX hold		Default : DMX HOLD
		KEY-LOCK	ON / OFF		Default : OFF
4	STATIC COLOR	Fixed color	R, G, B, L, RG, RB, GB, RGB, RL, GL, BL, RGL, RBL, GBL, RGBL		Default : RGBL
		CCT	NORMAL CRI	2500K, 2800K, 3200K, 4000K, 5000K, 5600K, 6000K, 7000K, 8000K, 9000K, 10000K	Default : 7000K
			HIGH CRI		
		Manual color	Dimmer	000 ~ 255	Default : 000
			Red	000 ~ 255	Default : 000
			Green	000 ~ 255	Default : 000
			Blue	000 ~ 255	Default : 000
			Lime	000 ~ 255	Default : 000
			Strobe	000 ~ 255	Default : 000
		Zoom	0~255		Default : 000
5	AUTO	Auto	01~10		Default : 01
		Speed	00-20		Default : 00
		Zoom	000~255		Default : 000

ONBOARD CONTROL MENU - NORMAL

NO.	Main menu	Menu level 2	Menu level 3		Remark
5	Info	Software	VX.XX		
		Usage time	Total:xxxxxH		
			LED total: xxxxH		
		Temperature	xxx°C	Stored max: xx°C Stored min: xx°C	
		Fan	xxx RPM		
			xx%		
		RDM-UID	0x02E20002xxxx		
		Error message	No errors detected		
			Error code:	Clear error message?	
			LED board to cold		lower to -20 degree
			LED board to hot		higher than 80 degree
			Fixture eeprom error		
7	Factory reset	LOAD	Please reboot power before reset takes effect!		

DMX PROTOCOLS -NORMAL

MANUAL MODE

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	**Lime**	000 - 255	0 - 100%	
	Manual ZOOM	11° - 50°	Wide → narrow	Zoom with buttons

6 CH	Function	Value	Setting	Remark
1	**Zoom**	000 - 255	Wide → narrow	
2	**Fixture control settings**	000 - 009	No function	Value must be held for 3 seconds to activate.
		010 - 014	Reset entire fixture	
		015 - 059	No function	
		060 - 064	Fan mode REGULATED	
		065 - 069	Fan mode FULL	
		070 - 074	Fan mode SILENT 1	
		075 - 079	Fan mode SILENT 2	
		080 - 089	No function	
		090 - 094	Calibrated color output mode- COLOR CALIB = ON	
		095 - 099	No function	
		100 - 104	Raw color output mode- COLOR CALIB = OFF	
		105 - 129	No function	
		130 - 134	600 Hz Refresh rate	
		135 - 139	1200Hz Refresh rate	
		140 - 144	2400Hz Refresh rate	
		145 - 149	4800Hz Refresh rate	
		150 - 154	No function	
		155 - 159	WDMX - ON	
		160 - 164	No function	
		165 - 169	WDMX - OFF	
		170 - 174	No function	
		175 - 179	WDMX - RESET	
		180 - 184	No function	
		185 - 189	Dimmer speed : Normal	
		190 - 194	No function	
		195 - 199	Smooth 1	
		200 - 204	Smooth 2	
		205 - 209	Smooth 3	
		210 - 214	Smooth 4	
		215 - 249	No function	
		250 - 255	Illuminate display	
3	**Red**	000 - 255	0 - 100%	
4	**Green**	000 - 255	0 - 100%	
5	**Blue**	000 - 255	0 - 100%	
6	**Lime**	000 - 255	0 - 100%	

8 CH	Function	Value	Setting	Remark
1	**Dimmer**	000 - 255	0 - 100%	
2	**Zoom**	000 - 255	Wide → narrow	
3	**Strobe duration**	000 - 255	7→ 650 ms	
4	**Strobe rate**	000 - 255	Slow (0.289) → fast (16.67 Hz)	
5	**Red**	000 - 255	0 - 100%	
6	**Green**	000 - 255	0 - 100%	
7	**Blue**	000 - 255	0 - 100%	
8	**Lime**	000 - 255	0 - 100%	

9 CH	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 → slow)	
		125 - 129	Shutter open	
		130 - 144	Strobe 5: random opening pulse (fast → slow)	
1	**Shutter**	145 - 149	Shutter open	
		150 - 164	Strobe 6:random closing pulse (fast → 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 → 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	**Dimmer**	000 - 255	0 - 100%	
3	**Zoom**	000 - 255	Wide → narrow	

9 CH	Function	Value	Setting	Remark
4	**Fixture control settings**	000 - 009	No function	Value must be held for 3 seconds to activate.
		010 - 014	Reset entire fixture	
		015 - 059	No function	
		060 - 064	Fan mode REGULATED	
		065 - 069	Fan mode FULL	
		070 - 074	Fan mode SILENT 1	
		075 - 079	Fan mode SILENT 2	
		080 - 089	No function	
		090 - 094	Calibrated color output mode- COLOR CALIB = ON	
		095 - 099	No function	
		100 - 104	Raw color output mode- COLOR CALIB = OFF	
		105 - 129	No function	
		130 - 134	600 Hz Refresh rate	
		135 - 139	1200Hz Refresh rate	
		140 - 144	2400Hz Refresh rate	
		145 - 149	4800Hz Refresh rate	
		150 - 154	No function	
		155 - 159	WDMX - ON	
		160 - 164	No function	
		165 - 169	WDMX - OFF	
		170 - 174	No function	
		175 - 179	WDMX - RESET	
		180 - 184	No function	
		185 - 189	Dimmer speed : Normal	
		190 - 194	No function	
		195 - 199	Smooth 1	
		200 - 204	Smooth 2	
		205 - 209	Smooth 3	
		210 - 214	Smooth 4	
		215 - 249	No function	
		250 - 255	Illuminate display	
5	**Red**	000 - 255	0 - 100%	
6	**Green**	000 - 255	0 - 100%	
7	**Blue**	000 - 255	0 - 100%	
8	**Lime**	000 - 255	0 - 100%	
9	**CCT**	000 - 009	No function	
		010 - 255	10000K - 2500K	

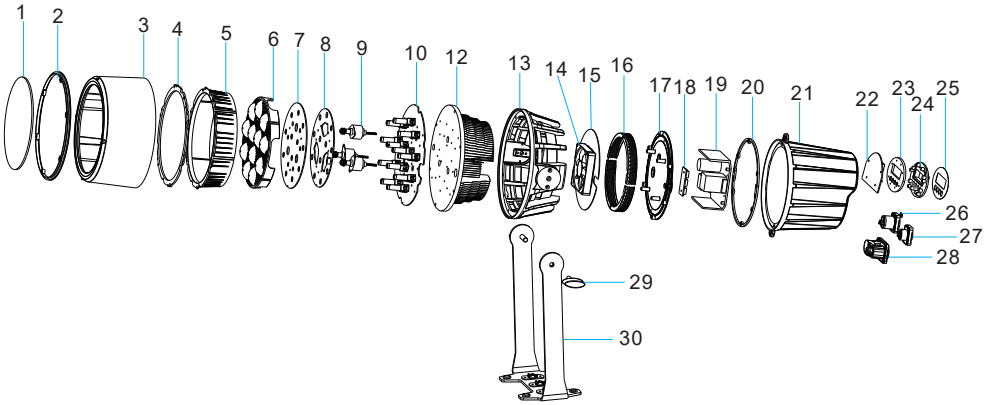
13 CH	Function	Value	Setting	Remark
1	**Shutter**	000 - 019	No function	
		020 - 024	Shutter open	
		025 - 064	Strobe 1 (fast → slow)	
		065 - 069	Shutter open	
		070 - 084	Strobe 2: opening pulse (fast → slow)	
		085 - 089	Shutter open	
		090 - 104	Strobe 3: closing pulse (fast → slow)	
		105 - 109	Shutter open	
		110 - 124	Strobe 4: random strobe (fast → slow)	
		125 - 129	Shutter open	
		130 - 144	Strobe 5: random opening pulse (fast → slow)	
		145 - 149	Shutter open	
		150 - 164	Strobe 6:random closing pulse (fast → 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 → 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	**Dimmer**	000 - 255	0 - 100%	
3	**Zoom**	000 - 255	Wide → narrow	
4	**Fixture control settings**	000 - 009	No function	Value must be held for 3 seconds to activate.
		010 - 014	Reset entire fixture	
		015 - 059	No function	
		060 - 064	Fan mode REGULATED	
		065 - 069	Fan mode FULL	
		070 - 074	Fan mode SILENT 1	
		075 - 079	Fan mode SILENT 2	
		080 - 089	No function	
		090 - 094	Calibrated color output mode- COLOR CALIB = ON	
		095 - 099	No function	
		100 - 104	Raw color output mode- COLOR CALIB = OFF	
		105 - 129	No function	
		130 - 134	600 Hz Refresh rate	
		135 - 139	1200Hz Refresh rate	
		140 - 144	2400Hz Refresh rate	
		145 - 149	4800Hz Refresh rate	
		150 - 154	No function	
		155 - 159	WDMX - ON	
		160 - 164	No function	
		165 - 169	WDMX - OFF	
		170 - 174	No function	
		175 - 179	WDMX - RESET	
		180 - 184	No function	
		185 - 189	Dimmer speed : Normal	
		190 - 194	No function	
		195 - 199	Smooth 1	
		200 - 204	Smooth 2	
		205 - 209	Smooth 3	
		210 - 214	Smooth 4	
		215 - 249	No function	
		250 - 255	Illuminate display	

13 CH	Function	Value	Setting	Remark
5	**Color macro**	000 - 009	No function	
		010 - 255	Color wheel rotation effect	
6	**Red**	000 - 255	0 - 100%	
7	**Green**	000 - 255	0 - 100%	
8	**Blue**	000 - 255	0 - 100%	
9	**Lime**	000 - 255	0 - 100%	
10	**CCT**	000 - 009	No function	
		010 - 255	10000K - 2500K	
11	**Auto program**	000 - 009	No function	
		010 - 029	AUTO 1	
		030 - 049	AUTO 2	
		050 - 069	AUTO 3	
		070 - 089	AUTO 4	
		090 - 109	AUTO 5	
		110 - 129	AUTO 6	
		130 - 149	AUTO 7	
		150 - 169	AUTO 8	
		170 - 189	AUTO 9	
		190 - 255	AUTO 10	
12	**AUTO Speed**	000	No function	
		1 - 255	AUTO Speed (slow → fast)	
13	Fade	000	No function	
		1 - 255	Dimmer Speed (fast → slow)	

RDM MENU

NO.	RDM menu	Menu level 2	Remark
1	**Name**	xxx	**RDM ID**
2	DMX_START_ADDRESS	1-512	selection DMX start address
3	MANUFACTURER_LABEL	CLF Lighting B.V.	Company name
4	DEVICE_MODEL_DESCRIPTION	CLF ODIN	Fixture type
5	DMX_PERSONALITY	DMX6/6CH DMX8/8CH DMX9/9CH DMX13/13CH	Select channel mode
6	DEVICE_LABEL	xxx	FixtureName (revisability)
7	IDENTIFY_DEVICE	On Off	Highlight for 15 seconds
8	DEVICE_HOURS	XXX	Use of time for fixture
9	LAMP_HOURS	XXX	Use of time for LED
10	DISPLAY_INVERT	On Off Auto	On= rotate display 0° Off = rotate display 180° Auto= none
11	DMX_PERSONALITY_DESCRIPTION	XXX	DMX channel
12	SOFTWARE_VERSION_LABEL	SW.VXXX	Shows software version (Vx.x)
13	CALIBRATION	1 2	1=Normal 2=Factory
14	CRI	1 2	1=HIGH 2=NORMAL
15	DIMMER_CURVE	1 2 3 4 5	1=Linear 2=Square law 3=INV Square law 4=S-curve 5=Special
16	DIMMER_FREQUENCY	6-100	6=600, 7=700,... 100=10.000Hz
17	DIMMER_SPEED	1 2 3 4 5	1=Normal 2=Smooth 1 3=Smooth 2 4=Smooth 3 5=Smooth 4
18	FAN_MODE	1 2 3 4	1=Regulated 2=Full 3=Silent 1 4=Silent 2
19	FAN_RPM	XXX	Rotate speed of fan
20	TEMPERATURE	XXX	Temperature of fixture

EXPLODED VIEW



NO.	Description	Part number	NO.	Description	Part number
1	Tempered front glass	CLF-25-001	16	Air inlet ring	CLF-25-016
2	Rubber glass ring	CLF-25-002	17	Bottom housing	CLF-25-017
3	Front cover ring	CLF-25-003	18	Transfer board	CLF-25-018
4	Glass holder	CLF-25-004	19	Power supply	CLF-25-019
5	Lens locating ring	CLF-25-005	20	Rubber ring adapter	CLF-25-020
6	Lens kit	CLF-25-006	21	Back case body	CLF-25-021
7	Light guiding tube holder	CLF-25-007	22	Display board	CLF-25-022
8	Driver board	CLF-25-008	23	Acrylic display support	CLF-14-012
9	Zoom motor	CLF-25-009	24	Acrylic for LCD	CLF-14-008
10	Light guide tube	CLF-25-010	25	Display sticker	CLF-25-023
11	LED board	CLF-25-011	26	DMX 5 pin male chassis part waterproof	CLF-13-456
12	LED board radiator	CLF-25-012	27	DMX 5 pin female chassis part waterproof	CLF-13-455
13	Middle case body	CLF-25-013	28	Powercon TRUE1 socket	CLF-25-024
14	Fan	CLF-25-014	29	Knob for bracket	CLF-14-014
15	Fan support plate	CLF-25-015	30	Bracket	CLF-25-025

SPECIFICATIONS

Power	
Input voltage & rate	100-240V, 50/60Hz
Standby power	10W
Nominal total power consumption (at nominal voltage 230V)	262W
Typical current (at nominal voltage 230V)	1.21A
Cos φ	0,944
Power plug type	Seetronic PowerCon True
Configuration	
LED color	RGBL
LED color temperature	2500-10.000K
LED CRI level	80 - 89
Quantity of LED	12 pcs
Dimming frequency	600 - 10.000Hz
Dimmer resolution	16 bit
Optical	
Beam angle	11° - 50°
Photometric	
Output @1M	195.776 lux
Output @5M	17.831 lux
Heat management	
Cooling type:	Fan inside
MAX. Ambient temp (Ta max)	40, °C
MIN. Ambient temp (Ta min)	-20, °C
MAX housing temp.(ta=25°C)	45, °C
MAX housing temp.(ta=40°C)	56, °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	4 / 6 / 8 / 9 / 13
RDM	yes
RDM compliance	ANSI/ESTA E.120
WDMX	optional
ACN	none
DMX input connection	DMX 5P in en out
Data input (artnet, SACN)	none
Hardware	
Interface	Backlite LCD display
Software upload method	XLR
Installation	
IP rating	IP65
Housing	
Safety attachment point	yes
Physical	
Net product weight	6 kg
Machine dimensions - Length	314 mm
Machine dimensions - Width	253 mm
Machine dimensions - Height	363 mm
Accessories	
Included items / optional	Manual & powercable Optional: Barndoor, Snoot, Omega bracket & Flightcase
Approvals	
Approved certifications	CE & RoHS

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

SHORTCUT KEY

NO.	shortcut key	Notes
1	mode+enter	Press 2 seconds, W-DMX reset / Press 3 seconds, Fast back to normal mode and factory reset
2	UP + down	Press 2 seconds, LCD rotated 180°
3	Menu / Enter	Press 3 Test mode highlight for 15 seconds
4	Menu+UP +down	Press 2 seconds for FACTORY calibration mode
5	Menu+enter + up+down	Press 5 seconds enter the hidden menu

HIDDEN MENU

NO.	Main menu	Menu level 2	Menu level 3
1	Calibration	Red (000 ~ 255) Green (000 ~ 255) Blue (000 ~ 255) White (000 ~ 255)	
2	W-dmx module	Installed uninstalled	If no wdmx board, there is no wdmx menu available
3	Clear usagetime	Password protected	Inform CLF Lighting for password
4	Temperature reset	Password protected	Inform CLF Lighting for password
5	Simple mode setting	Custom mode 1	Preview Modify Delete
		Create new mode	Please check the menu on the third page
		Upload mode	Upload mode to other Odin fixtures
4	Fixture work mode (Preprogrammed mode)	Normal mode	
		5600K (-) / 30° (-)	5600K and 30°. regulated fan. standard other options Zoom is fixed, Press [UP] and [DOWN] to dimmer DMX: CH1:Dimmer
		5600K (-) / ZOOM (B)	5600K . regulated fan. standard other options Press [MENU] / [ENTER] to Zoom, Press [UP] and [DOWN] to dimmer DMX: CH1:Dimmer, CH2:Zoom
		3200K (-) / ZOOM (B)	3200K . regulated fan. standard other options Press [MENU] / [ENTER] to Zoom, Press [UP] and [DOWN] to dimmer DMX: CH1:Dimmer, CH2:Zoom
		4000K (-) / 20° (-)	4000K . regulated fan. standard other options Zoom is fixed, Press [UP] and [DOWN] for brightness control DMX: CH1:Dimmer
		MENU Controlled	Press menu up/down for zoom and standard static color menu via MENU DMX: CH1:Dimmer, CH2:Zoom
		custom mode X...X	
5	Want to quit ?	NO/YES	Exit hidden menu

CREATE NEW MODE

NO.	Main menu	Menu level 2	Menu level 3	Menu level 4	Remark
1	DMX512	YES NO	dmx address 1~512	1CH / 3CH*	Default : 001, address 1, 3CH *It can only select the 1/3 CH after you choose fixed colors
2	zoom	YES NO	fixed buttons	fixed zoom 11...50°	Default:YES,buttons
3	color	Fixed color	fixed buttons	R,G,B,L,RG,RB,GB, RGB,RL,GL,BL,RGL, RBL,GBL,RGBL	Default: kelvin, fixed, 7000K
		Kelvin	fixed buttons	kelvin: 2500K...10000K	
		Static color	Dimmer Red Green Blue Lime Strobe	0~255 0~255 0~255 0~255 0~255 0~255	
4	FAN	Regulated Full Silent 1 Silent 2			Default: Regulated
5	Dimmer Speed	Normal Smooth 1 Smooth 2 Smooth 3 Smooth 4			Default: Normal
6	Dimmer curve	Linear Square law INV Square law S-curve Special			Default: Linear
7	Refresh rate	600 - 10.000Hz			Default: 1200Hz
8	CRI	HIGH NORMAL			Default: Normal
9	create a new mode	NO YES			PRESS ENTER TO CONFIRM, A new custom mode will be generated


ODIN