

CLF SOFTLED 200 FC **MANUAL**

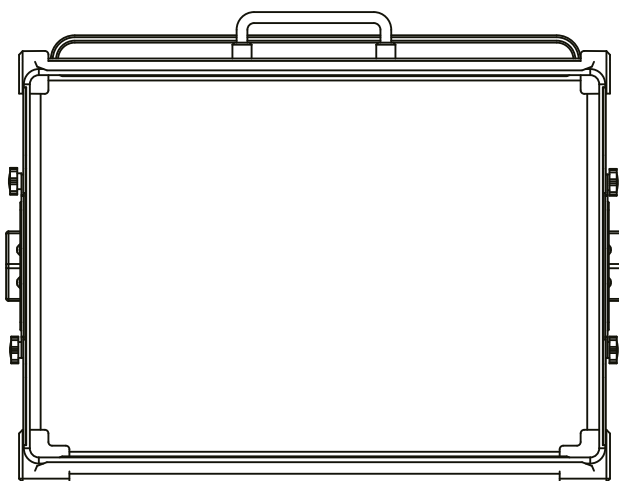
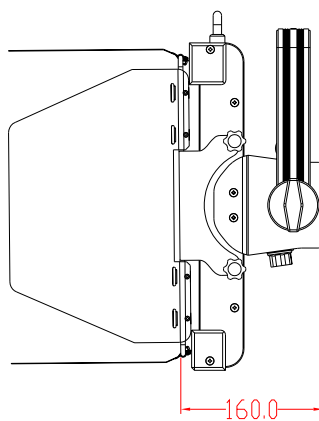
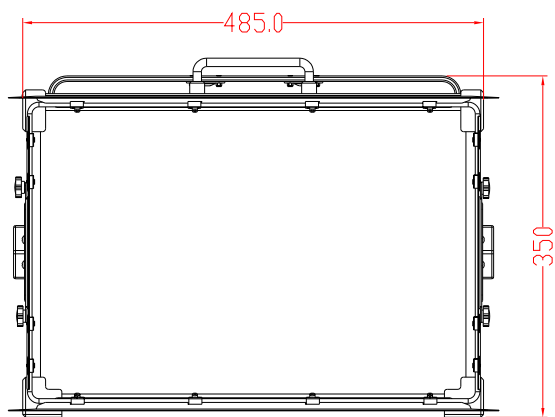


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DIMENSIONS

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! Do not look into the beam at a distance of less than 2 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 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 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.

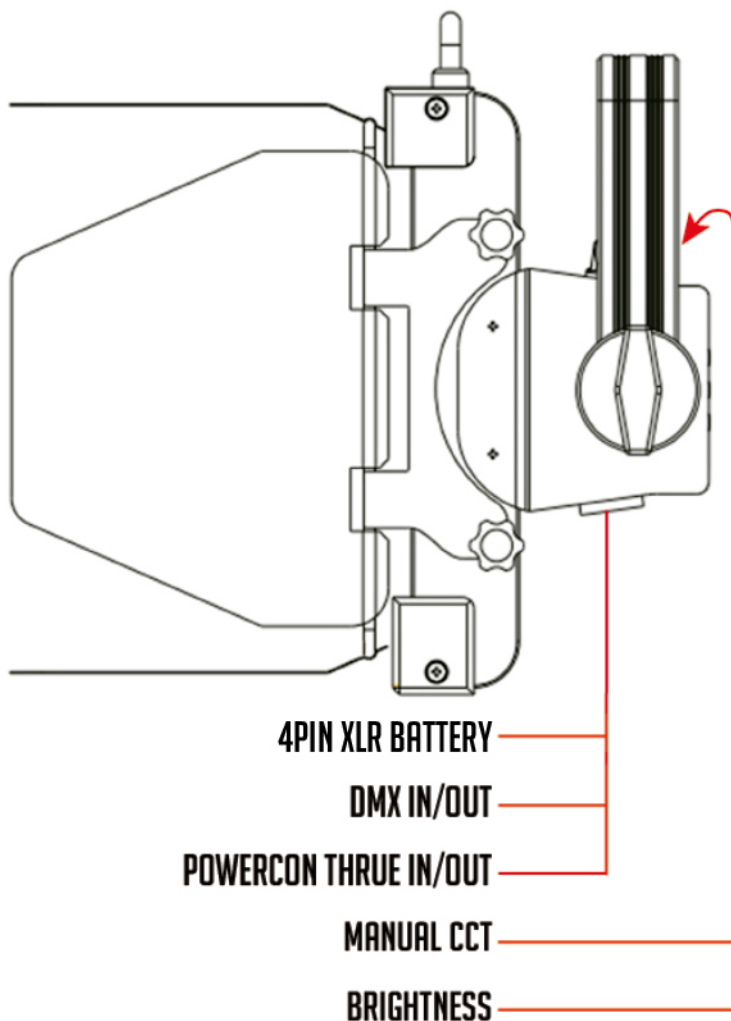


- Do not look at LEDs with magnifiers, telescopes, binoculars or similar optical instruments that may concentrate the light output.



- Ensure that persons are not looking at the LEDs from within 2 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



INTRODUCTION

AFFORDABLE LIGHTING ESSENTIAL

- No fan design
- Ultra slim
- DMX and manually controlled
- Flicker free projection
- Barndoors are included

USING FOR THE FIRST TIME

Warning! Read “Safety Information” before installing, powering, operating or servicing the fixture. Before applying power to the fixture:

Thank you for purchasing our product. Before carrying out any operations with the product, carefully read this instruction manual and keep it with cure for future reference. It contains important information about the installation, usage and maintenance of the unit. Please strictly follow it.

The product conforms to the international standard DMX512 agreement. The products can be controlled in signal use and also can be controlled in many units. Sleek and stylish, precise and accurate optical system design, bring and clear light effects. All above makes our products applicable to be used within the scope of film and television, theater, live events, trade show exhibits, educational facilities, retail environments, and corporate shows, etc.

* The product is compliance with the CE & ROHS Standard.

* The product belongs to our company. The intellectual property is exclusively reserved. We will file a lawsuit on condition that it is illegally copied and imitated.

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.

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 ® 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 10 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 ???? 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.

SETUP

Warning! Read “Safety Information” 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” 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].

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.

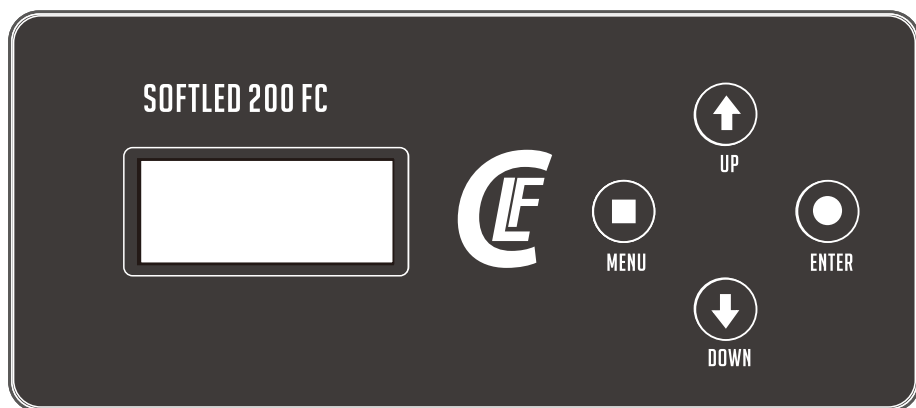
- The main screen will show a 'dot' and the backlight will be switched off when a DMX signal is detected.
- The fixture is fully RDM ready. So when you are using a RDM ready console you can address the unit and read out its complete status. For RDM functions please refer to the ANSI/ESTA E1.20-2006 standard

CONTROL MODE

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

	2CH	6CH	12CH	15CH	20CH
Master Dimmer	✓	✓	✓	✓	✓
Master Dimmer fine			✓	✓	✓
Red		✓	✓	✓	✓
Red fine			✓		✓
Green		✓	✓	✓	✓
Green fine			✓		✓
Blue		✓	✓	✓	✓
Blue fine			✓		✓
Amber		✓	✓	✓	✓
Amber fine			✓		✓
Lime		✓	✓	✓	✓
Lime fine			✓		✓
Hue				✓	✓
Hue fine				✓	✓
Saturation				✓	✓
CCT 2700K - 10000K	✓			✓	✓
Green/Magenta shift				✓	✓
Macro colors				✓	✓
Strobe				✓	✓
Control channel				✓	✓

CONTROL PANEL



ONBOARD CONTROL MENUS

Main menu	2nd Menu	3rd Menu	Factory Default
DMX ADDRESS	DMX ADD	1-512	Default : 001
CONTROL MODE	02CH CCT		
	06CH 8bit		
	12CH 16bit		Default : 15CH
	15CH		
	20CH		
PERSONALITY	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
	Fixture Mode	Normal / Precise / Boost	Default : Normal
	Calibration	Normal / Factory	Default : Factory
	Refresh Rate	1000-8000Hz	Default : 1200Hz
	DMX Hold	DMX hold / No DMX hold	Default : DMX hold
	Key-Lock	ON / OFF	Default : OFF
		1 Brightness & 2 CCT	Default 1 Brightness & 2 CCT
	Potentiometer Fucntion	1 Brightness & LEE Color Function OFF	
STATIC COLOR	Fixed Color	All possible combination colors	
	LEE Color	All LEE color by number	
	CCT	2700K - 10000K	Default 4000K
		Red 0 - 255	
		Green 0 - 255	
		Blue 0 - 255	
	Manual Color	Amber 0 - 255	
		Lime 0 - 255	
		Output 0 - 255	Total output of chosen color
INFO	Stroke	0-20	
	Software Version	V1.00	
	Usage Time	Total: xxxxxH LED total: xxxxxH	
	Temperature	xxx°C	Stored max: xx°C Stored min: -xx°C
	RDM-UID	0xxxxxxxxxxx	
		No errors detected	
		Error code:	Clear error message Clear complete!
	Error Message		
		LED board to cold LED board to hot Fixture eeprom error	
FACTORY RESET	Load Factory Default	YES / NO	

Use 'Up' and 'Down' button to select your desired operation, press 'Enter' to set all functions

Notes:

- 'DMX: X' means no DMX data input, 'DMX: V' means DMX data connected .
- No operation within 30 seconds, display screen will turn to dark automatically.
- When the current temperature is higher than the protection temperature, 30% of power consumption will be deducted slowly.

DMX PROTOCOL

02-CH CCT	06-CH 8 bit	Modes 12CH 16 bit	15CH	20CH Ext	Value	Notes
1	1	1	1	1	000 - 255	Master Dimmer
		2	2	2	000 - 255	Master Dimmer fine
	2	3	3	3	000 - 255	Red
		4		4	000 - 255	Red fine
	3	5	4	5	000 - 255	Green
		6		6	000 - 255	Green fine
	4	7	5	7	000 - 255	Blue
		8		8	000 - 255	Blue fine
	5	9	6	9	000 - 255	Amber
		10		10	000 - 255	Amber fine
	6	11	7	11	000 - 255	Lime
		12		12	000 - 255	Lime fine
			8	13	000 - 255	Hue
			9	14	000 - 255	Hue fine
			10	15	000 - 255	Saturation
2			11	16	000 - 255	CCT 2700K - 10000K
			12	17	000 - 255	Green/Magenta shift
			13	18	000 - 255	Macro colors
			14	19	000 - 255	Strobe
						Control Channel
					000 - 001	No function
					002 - 003	Freq: 1000Hz
					004 - 005	Freq: 1200Hz
					006 - 007	Freq: 2000Hz
					008 - 009	Freq: 4000Hz
					010 - 011	Freq: 6000Hz
					012 - 013	Freq: 8000Hz
					014 - 015	Speed: normal
					016 - 017	Speed: smooth 1
					018 - 019	Speed: smooth 2
					020 - 021	Speed: smooth 3
					022 - 023	Speed: smooth 4
					024 - 025	Curve: linear
					026 - 027	Curve: square law
					028 - 029	Curve: inv-square law
					030 - 031	Curve: s-curve
					032 - 033	Curve: special
					034 - 035	Fixture mode: normal
					036 - 037	Fixture mode: precise
					038 - 039	Fixture mode: boost
					040 - 041	Calibration: normal
					042 - 043	Calibration: factory
					044 - 255	Reserved

SPECIFICATIONS

Item NO	SOFTLED 200 FC
Power Consumption	200W Full on
Voltage	100-240V AC
Frequency	50/60Hz
Light Source	Red, Green, Blue, Amber, Lime SMD LED
Lens	Matrix compound optical system
Color Temperature	2700K-10000K adjustable
CRI	Up to 97
Beam Angle	120°
Dimming Range	16bit smooth dimming 0-100%
DMX Channel	02CH CCT/06CH 8bit/12CH 16bit/15CH/20CH
Control System	DMX512/RDM
Display Screen	4-Button LCD Screen
IP Rating	IP20
Ambient Temp.	-15°C ~ 35°C
Weight	10Kgs

SOFTLED 200 FC