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# SAFETY INSTRUCTIONS



## 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.



To guarantee proper and consistent operation, it is important to follow the guidelines in this manual. The manufacturer will not accept responsibility for damages resulting from the misuse of this fixture due to the disregard of the information printed in this manual.



In order to ensure the fixture could operate normally, the ambient temperature must not exceed 38°C and 0°C. Under normal conditions, the highest sectional surface temperature will be up to 60°C.



The fixture is designed with electric shock protection. The fixture should be connected to a power supply system with earth grounding. The fixture's ground cable should be connected with the ground cable of the power supply system as well.



When the isolation is damaged please ask the manufacturer, distributor or a professional mechanic for a new power cable as replacement in order to avoid dangerous situations.



Never open the fixture while power is connected.

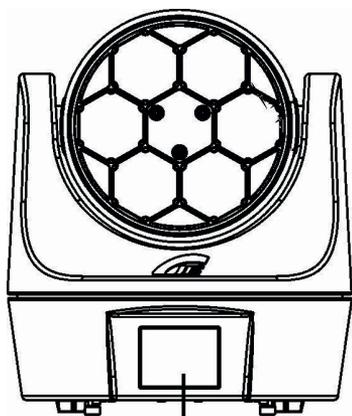


Never look directly into the light source. You risk injury to your eyes, which may cause blindness.

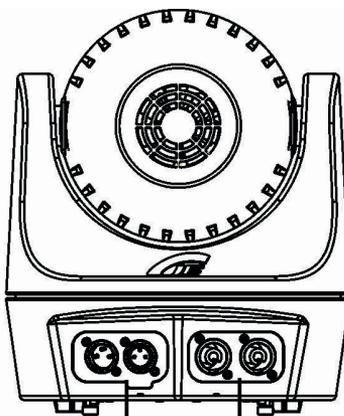


Please be aware that damages caused by modifications to the device are not subject to warranty.

# FIXTURE OVERVIEW



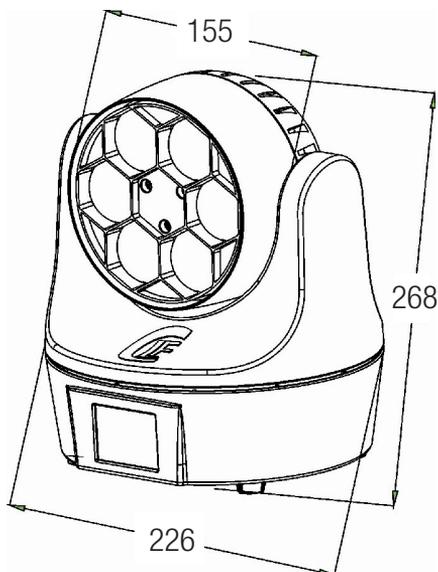
TOUCH SCREEN



DMX

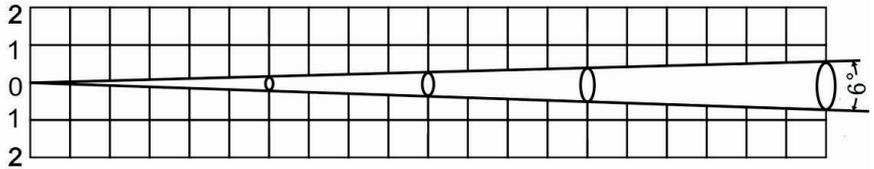
POWER

# DIMENSIONS



# PHOTOMETRIC DATA

	Lux			
R	3160	1190	615	272
G	10200	4860	2900	2140
B	1080	850	392	95.5
RGBW	10600	5050	2900	1770



Distance(m)	0	3	5	7	10
Diameter(m)	0	0.41	0.6	0.83	1.02

# PHYSICAL INSTALLATION

## CAUTION:

Before mounting the fixture to any surface, make sure that the installation area can hold a minimum point load of 10 times the device's weight. Fixture installation must always be secured with a secondary safety attachment, such as an appropriate safety cable.

To avoid injury, never stand directly below the device when mounting, removing, or servicing the fixture.

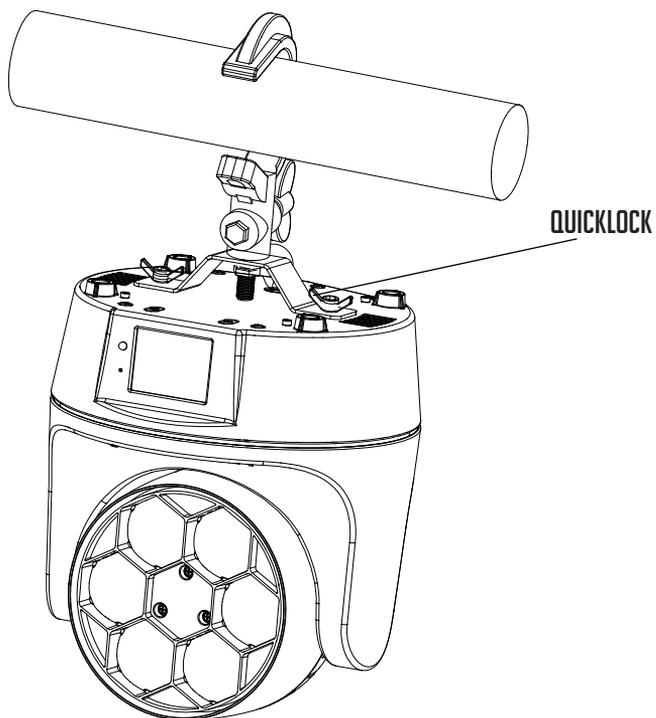
## MOUNTING POINTS:

Overhead mounting requires experience, including calculating working load limits, knowledge of the installation material being used and periodic safety inspection of all installation materials and the fixture. If you don't have these qualifications, do not attempt the installation yourself. Wrong installation can result in injuries. Be sure to complete all rigging and installation procedures before connecting the main power cord to the appropriate wall outlet.

## MOUNTING:

The fixture is operational in any mounting position. Be sure the fixture is kept at least 50cm away from any flammable materials (decoration etc.).

When mounted with a clamp, always use and install the supplied safety cable as a safety measure to prevent accidents.



# POWER AND SIGNAL CONNECTION

## POWER SUPPLY:

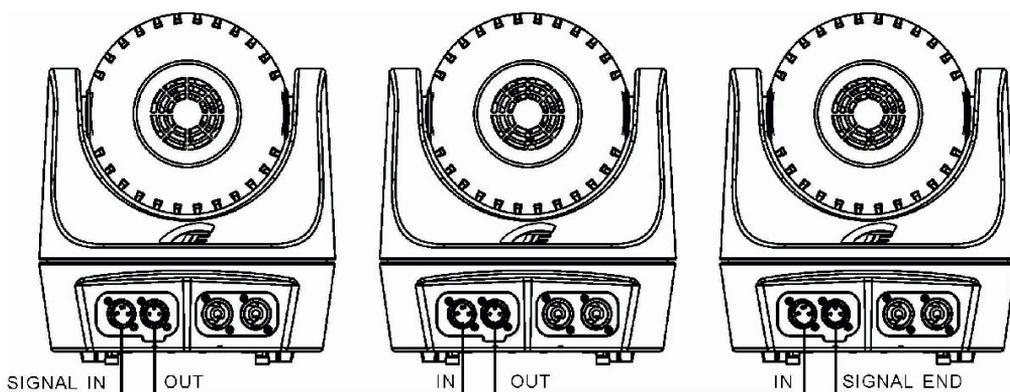
Use powerCON plug to connect the fixture to the main power supply.

Please check if the voltage and the frequency are the same as mentioned on the fixture.

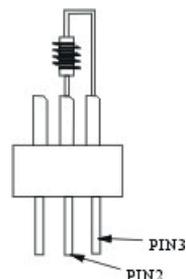
## SIGNAL CONNECTION:

Please use the 5 pin XLR connectors to connect the first fixture's DMX output to the next fixture's input, and so on.

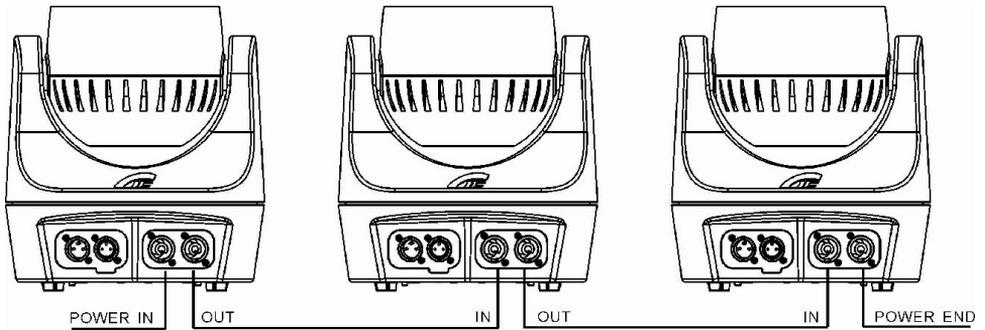
As connect in the following figure.



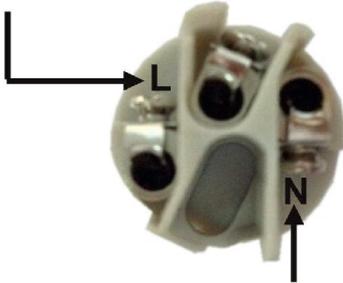
The resistance of each core is at least a diameter of 0.5mm. (**Notice:** The inside leading wire of the 5-pin XLR plug can't touch each other or the earth). We recommend to use the DMX signal terminator during the installation to avoid electronic reflection of the digital control signal. The DMX terminator is a XLR connector with a 120Ω & 1/2W resistor connected across pin 2 and 3 (see picture on the right). Which is plugged into the output socket on the last fixture in the chain. Refer to the connection as in above picture. We advise to use a DMX signal distributor when the distance of the lights is more then 15 meter, to prevent signal loss.



# POWER CONNECTION



The L terminal is connected with the brown line



The N terminal is connected with the blue line

Do not daisychain more then 6 fixtures.

# CONTROL MODE

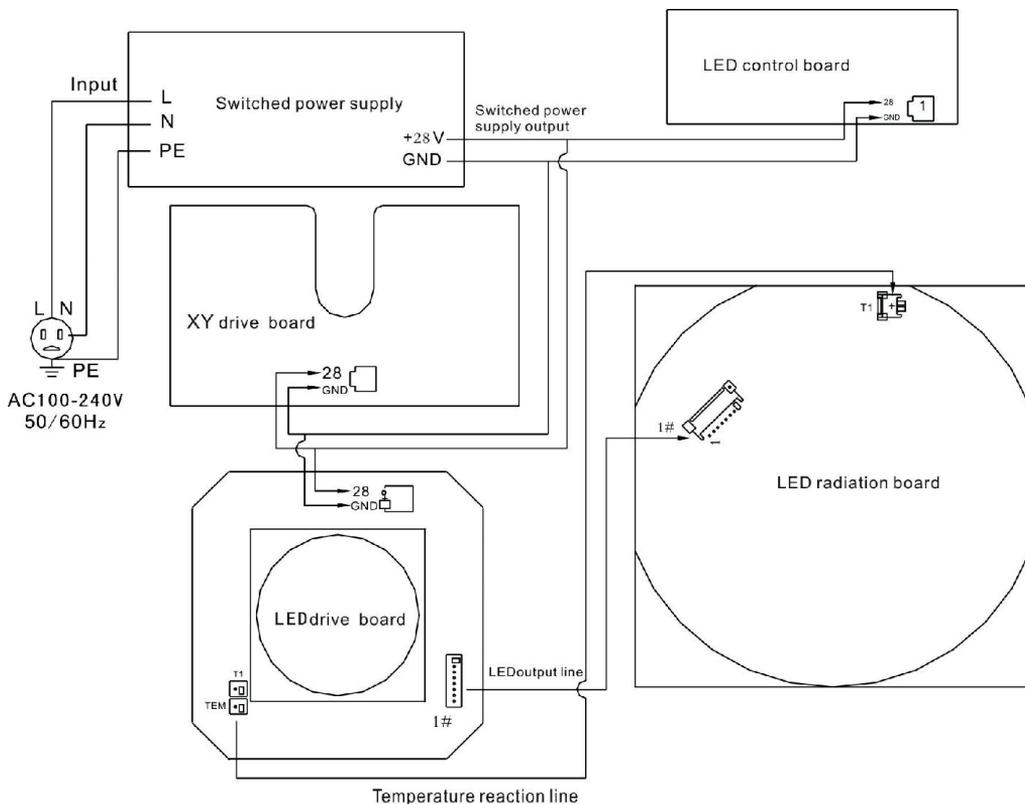
## STANDARD 11CH

1. Dimmer	4. Green	7. Pan	10. Rota speed
2. Shutter	5. Blue	8. Tilt	11. Fixture control
3. Red	6. White	9. Rota lens	

## STANDARD 17CH

1. Dimmer	6. Blue	11. Tilt	16. Calibration
2. Dimmer fine	7. White	12. Tilt fine	17. Slave ID
3. Shutter	8. Macro color	13. Rota lens	
4. Red	9. Pan	14. Rota speed	
5. Green	10. Pan fine	15. Fixture control	

# CIRCUIT CONNECTION DIAGRAM



# ONBOARD CONTROL MENU

MENU		REMARK		
Setting	DMX address	001 - 512		
	Fixture ID	000 - 064		
	Channel mode	Standard 11CH		Default
		Extended 17CH		
	DMX Function	Hold		
		Black		
		D. scene		
		Program 1		
		Program 2		
		Program 3		
		Program 4		
		Program 5		
	Slave - Master	Program 6		
		Program 7		
Program 8				
Slave mode				
Master mode				
Info	Fixture times	Power on time ****H		
		Lamp on time ****H		
	Fixture temperature	Lamp_tem ****°C		
	RDM UID	*****		
	DMX live	1. Dimmer		
		2. Dimmer fine		
		3. Shutter		
		4. Red		
		5. Green		
		6. Blue		
		7. White		
		8. Macro color		
		9. Pan		0 - 255
		10. Pan fine		
	11. Tilt			
	12. Tilt fine			
	13. Rota lens			
14. Rota sp				
15. Fixturecontrol				
16. Calibration				
17. Slave ID				
Version info	LED_XY_SOFT:V2.00			
	LED_DPY_SOFT:V4.00			

# ONBOARD CONTROL MENU

MENU		REMARK		
Personality	Pan / Tilt	P/T swap	OFF ON	Default
		Pan invert	OFF	Default
			ON	
		Tilt invert	OFF	Default
			ON	
		DMX reset	ON	Default
	Reset	OFF		
	System reset	ON	Default	
		OFF		
	Quick closedown	ON	Default	
	P/T angle limit	Close		
		Open		
	Program on/off	Close		
		Open		
	Set P/T angle	Pan start		
		Pan end		
		Tilt start		
		Tilt end		
	Display	Display sleep	Light always	
			2 minutes	
			4 minutes	
			6 minutes	
		Display intensity	10 - 100	
		Display rotation	Rotate 180	
			Normal	
	TFT calibration			

# ONBOARD CONTROL MENU

MENU	MENU I	REMARK
Manual control	1. Dimmer	
	2. Dimmer fine	
	3. Shutter	
	4. Red	
	5. Green	
	6. Blue	
	7. White	
	8. Macro color	
	9. Pan	0 - 255
	10. Pan fine	
	11. Tilt	
	12. Tilt fine	
	13. Rota lens	
	14. Rota sp	
	15. Fixturecontrol	
	16. Calibration	
	17. Slave ID	

MENU	MENU I	MENU IV	
Program	Edit program	Scene	
		0 - 100	
		1. Dimmer	
		2. Dimmer fine	
		3. Shutter	
		4. Red	
		5. Green	
		6. Blue	
		7. White	
		8. Macro color	
		9. Pan	0 - 255
		10. Pan fine	
		11. Tilt	
		12. Tilt fine	
		13. Rota lens	
		14. Rota sp	
		15. Fixturecontrol	
16. Calibration			
17. Slave ID			
		Save scene	

# ONBOARD CONTROL MENU

MENU		MENU IV		
Program	Edit program	Edit program 2		
		Edit program 3		
		Edit program 4		
		Edit program 5	Same as 'Edit program 1'	
		Edit program 6		
		Edit program 7		
		Edit program 8		
		Set program	Set program 1	Start step
			End step	0 - 100
			Step time	0 - 255
	Save			
Run	Set program 2			
	Set program 3			
	Set program 4			
	Set program 5	Same as 'Set program 1'		
	Set program 6			
	Set program 7			
	Set program 8			
	Running program			
Fixed scene	Scene 001 - 100			
Service	Error list			
	Adjust	Pan	±5.00%	
		Tilt	±5.00%	
		Rotatable lens	±5.00%	
	Factory	Default		
		Adjust default		
Firmware update	****			

# DMX PROTOCOL

CHANNEL	DMX VALUES	%	EFFECT
1. Dimmer	0 - 255	0 - 100	
2. Dimmer fine	0 - 255	0 - 100	
3. Shutter	0 - 9	0 - 3	
	10 - 49	4 - 19	Light --> dark, slow --> fast
	50 - 89	20 - 34	Dark --> light, slow --> fast
	90 - 119	35 - 46	Dark --> light --> dark, slow --> fast
	120 - 179	47 - 70	Random fast --> slow strobe
	180 - 250	71 - 98	In-phase, slow --> fast
	251 - 255	99 - 100	Unused range
4. Red	0 - 255	0 - 100	
5. Green	0 - 255	0 - 100	
6. Blue	0 - 255	0 - 100	
7. White	0 - 255	0 - 100	
8. Macro color	0 - 1	0 - 1	
	2 - 254	1 - 99	Shadow
	255	100	
9. Pan	0 - 255	0 - 100	
10. Pan fine	0 - 255	0 - 100	
11. Tilt	0 - 255	0 - 100	
12. Tilt fine	0 - 255	0 - 100	
13. Rotatable lens	0 - 127	0 - 49	
	128 - 135	50 - 52	
	136 - 231	53 - 90	
	232 - 255	91 - 100	
14. Rota sp	0 - 255	0 - 100	
15. Fixture control	0 - 9	0 - 3	
	10 - 14	4 - 5	
	15 - 19	6 - 7	
	20 - 24	8 - 9	
	25 - 29	10 - 11	
	30 - 34	12 - 13	
	35 - 239	14 - 93	
	240 - 244	94 - 95	
	245 - 249	96 - 97	
	250 - 255	98 - 100	
16. Calibration	0 - 255	0 - 100	

# DMX PROTOCOLS

CHANNEL	DMX VALUES	%	EFFECT
17. Slave ID	0 - 2	0	
	3 - 5	1 - 2	ID:1 effective
	6 - 8	2 - 3	ID:2 effective
	---	---	
	192 - 194	75 - 76	ID:64 effective
	195 - 197	76 - 77	ID is $(2xn) + 1$ effective, (n=0 - 31) 1, 3, 5, 7, 9 ... 63
	198 - 200	77 - 78	ID is $(2xn) + 2$ effective, (n=0 - 31) 2, 4, 6, 8, 10 ... 64
	201 - 203	78 - 79	ID is $(3xn) + 1$ effective, (n=0 - 21) 1, 4, 7, 10, 13 ... 64
	204 - 206	80 - 81	ID is $(3xn) + 2$ effective, (n=0 - 20) 2, 5, 8, 11, 14 ... 62
	207 - 209	81 - 82	ID is $(3xn) + 3$ effective, (n=0 - 20) 3, 6, 9, 12, 15 ... 63
	210 - 212	82 - 83	ID is $(4^n) + 1$ effective, (n=0 - 15) 1, 5, 9, 13, 17 ... 61
	213 - 215	83 - 84	ID is $(4^n) + 2$ effective, (n=0 - 15) 2, 6, 10, 14, 18 ... 62
	216 - 218	84 - 85	ID is $(4^n) + 3$ effective, (n=0 - 15) 3, 7, 11, 15, 19 ... 63
	219 - 221	85 - 86	ID is $(4^n) + 4$ effective, (n=0 - 15) 4, 8, 12, 16, 20 ... 64
	222 - 224	87 - 88	ID is $(5^n) + 1$ effective, (n=0 - 12) 1, 6, 11, 16, 21 ... 61
	225 - 227	88 - 89	ID is $(5^n) + 2$ effective, (n=0 - 12) 2, 7, 12, 17, 22 ... 62
	228 - 230	89 - 90	ID is $(5^n) + 3$ effective, (n=0 - 12) 3, 8, 13, 18, 23 ... 63
	231 - 233	90 - 91	ID is $(5^n) + 4$ effective, (n=0 - 12) 4, 9, 14, 19, 24 ... 64
	234 - 236	91 - 92	ID is $(5^n) + 5$ effective, (n=0 - 11) 5, 10, 15, 20, 25 ... 60
	237 - 239	93 - 94	ID is $(6^n) + 1$ effective, (n=0 - 10) 1, 7, 13, 19, 25 ... 61
	240 - 242	94 - 95	ID is $(6^n) + 2$ effective, (n=0 - 10) 2, 8, 14, 20, 26 ... 62
	243 - 245	95 - 96	ID is $(6^n) + 3$ effective, (n=0 - 10) 3, 9, 15, 21, 27 ... 63
	246 - 248	96 - 97	ID is $(6^n) + 4$ effective, (n=0 - 10) 4, 10, 16, 22, 28 ... 64
	249 - 251	97 - 98	ID is $(6^n) + 5$ effective, (n=0 - 9) 5, 11, 17, 23, 29 ... 59
	252 - 254	98 - 99	ID is $(6^n) + 6$ effective, (n=0 - 9) 6, 12, 18, 24, 30 ... 60
255	100	All ID's are valid	

# CLEANING AND MAINTENANCE

- In order to ensure the fixture could work normally it should be kept clean always .The lens should also be regularly cleaned to maintain an optimum light output. Do not use any type of chemicals on the lens. It will damage the lens.
- Please disconnect the power supply of the fixture when you start maintenance.

**CAUTION:** Disconnect the fixture from the main power before you start with the maintenance.

# SPECIFICATIONS

Voltage	240VAC 50/60Hz
Power	91W
LED chips	6x RGBW 4 in 1 LED chip
Lens degree	Standard 1.5°
Beam angle	Minimum 6°, maximum 51°
Color	RGBW
Strobe	1-30 times / second electronic strobe and random strobe
Pan	540°
Tilt	180°
Control mode	DMX512, RDM ready
Channel	Standard CH11 & extended CH17
Display menu	2.4 inch TFT touch screen
Software	Upgrade by XLR cable
Fixture size	226 x 226 x 286 mm
Netto weight	3,8 kg
Fixture size	226 x 268mm
Ambient temperature	0°C - 38°C

The logo features a stylized 'CLF' monogram in a bold, black, sans-serif font. The 'C' is a thick, open circle on the left, with the letters 'L' and 'F' nested within it. To the right of the monogram, the words 'BEAM 6' are written in a clean, black, uppercase sans-serif font.

# CLF BEAM 6