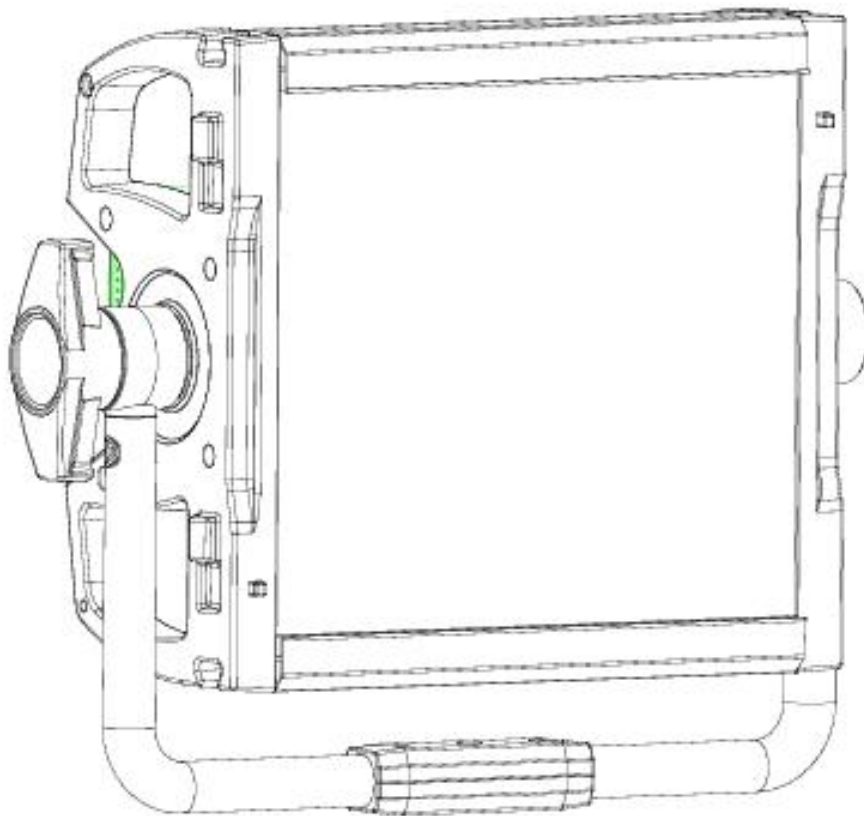


PANEL850FC

Studio LED Panel



USER MANUAL

- Be sure to read the USER MANUAL carefully before using this product.
- Be sure to keep the USER MANUAL properly for future needs.
- Use this product correctly when you can fully understand the User Manual

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Safety Instruction



WARNING

Please read the instructions carefully which includes important information about the installation, operation and maintenance.

Keep this manual as a basis for future consultation, and if you sell this product to other users, make sure they are get this manual.

Pay attention to:

The equipment is well packaged when leaving the factory. Please follow the user manual. The machine failure caused by human reasons is not covered by the warranty.

- ☑ Before using the product, please open and check carefully to ensure that the lamps have no damage caused by transportation.
- ☑ Equipment is suitable for both indoor and outdoor use.
- ☑ The installation and operation of the fixture shall be carried out by the professionals.
- ☑ Don't let the children operate this fixture.
- ☑ Use safe ropes to fix the equipment, and hold the bottom when moving it.
- ☑ Equipment must be installed in a well-ventilated place, at least 50cm next to other plane items.
- ☑ Ensure that the air vents are unobstructed to avoid overheating during lamp operation.
- ☑ Before operation, ensure that the supply voltage matches the supply voltage required by the equipment.
- ☑ Please ground the conductor in case of electric shock.. ☑ Do not operate lamps below 0°C or above 40°C.
- ☑ Do not connect the lamp directly to the dimming device.
- ☑ Do not place combustible items next to the lamps when operation to prevent fire risk.
- ☑ Before opening the fixture, please carefully check whether the power cord is damaged. If there is any damage, please replace it immediately.
- ☑ Avoid flammable liquid, water or metal and other conductive bodies into the lamp, to avoid electric shock or fire. If any foreign matter enters the lamp, please cut off the power supply immediately.
- ☑ Avoid operating the lamps in a dirty and dusty environment, and clean and maintain the lamps regularly.
- ☑ Do not touch the wire when the lamp is running to prevent electric shock. ☑ Avoid the winding of the power cord with other wires.
- ☑ Disconnect the power supply before replacing the fuse. ☑ Use the same model when replacing the fuse.
- ☑ Do not open the lamp repeatedly.
- ☑ Please replace the lamp shell, lens or ultraviolet filter in time.
- ☑ No available parts inside the lamp, do not open the lamp shell without authorization.

- ☑ If the machine fails, please stop using immediately and check without electric power; Do not repair by yourself; If need help, please contact the most recent authorized sales / technology center.
- ☑ Please cut off the power supply when the lamp is not used for a long time or is repaired.
- ☑ When transporting it again, please use the original packing material. ☑ Do not look directly at the lamps during operation.
- ☑ Do not operate the lamp without a protective cover or a shell damage.

Install:

The lamp should be fixed on the fast lock hook to ensure the installation firmly to prevent the trembling slide during operation. And make sure it's connecting structure of the lamp can support 10 times weight of the lamp. Install the lamp with the one able to support 12 times its weight safety rope.

The installation of the equipment should be carried out by professionals, but also installed in the place that people can not touch or easy to touch.

1. Technical specifications

Input power supply: AC 100~240V, 50/60Hz

Power: 200W

Light source: 144pcs CW LED + 144pcs WW LED +135PCS 5050RGB LED

Color temperature: 2700~10000K

Beam angle: 110°

Optics:

CRI: ≥97

CQS: ≥96

TLCI: ≥97

Control:

Channel mode:

- P1.CCT & RGBW 8bit
- P2.CCT 8bit
- P3.CCT&HSI 8Bit
- P4.RGBW 8bit
- P5.HSI 8bit
- P6.CCT&RGBW 16bit
- P7.CCT 16bit
- P8.CCT&HSI 16bit
- P9.RGBW 16bit
- P10.HSI 16bit
- P16.GEL V2 8bit
- P17.GEL V2 16bit
- P18.X.Y 8bit
- P19.X.Y16bit
- P22.EFFECT 8bit
- P23.EFFECT 16bit
- P24.LE CCT&RGBW 8bit
- P26.LE HSI 8Bit

Control protocol: DMX512, RDM

Software upgrade: Update software via USB

Structure:

Display screen: 1.77 LCD display screen

Signal input/output: 5 pin XLR socket

Power socket: power connector input

Protection level: IP20

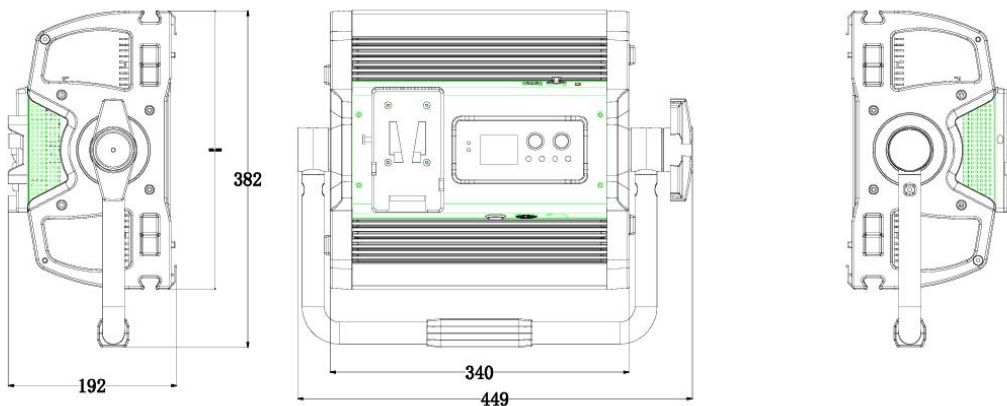
2.Main features:

PANEL850FC is used in various photography, television stations, conference rooms, large shopping malls, etc. It is widely used by its outstanding soft lighting characteristics . Powered by DC26V battery.

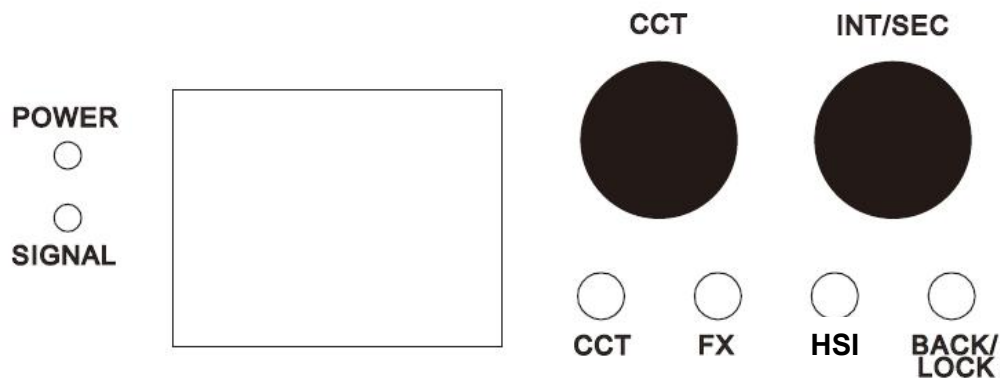
Size/Weight:

Dimensions: 449*382*192mm

Net weight: 7.2KG

**3. How to set up the unit**

control panel



V-port battery input: DC26V battery

Display:

Display function menu and selected function

Key:

CCT button

The CCT button enters color temperature mode, and use the CCT knob INT/SEC knob to scroll through the color temperature and brightness settings.

FX button:

Press the EFFECT button to enter the main scene interface Use the INT/SEC knob to scroll and select the scene mode.

HSI button:

Press the HSI button to enter HIS mode. Rotate the CCT knob to adjust brightness. Press the CCT knob to select brightness levels, and press the INT/SEC knob to choose hue and saturation. Rotate the INT/SEC knob to adjust hue and saturation.

BACK/LOCK button:

Short press the BACK/LOCK button to return to the previous page, long press the BACK/LOCK button to unlock and lock.

(INT/SEC) Encoder:

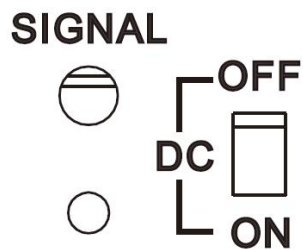
Select Encoder: I/S Function:

- Dimming settings
- Menu selection settings.

Menu Open: Use the I/S scroll menu to open submenus and set parameters. Press the knob to open the submenu and confirm the settings.

CCT encoder:

- Color temperature setting
- Sub menu parameter selection settings.



DC switch: The switch for battery .

4.Main Menu:

CCT	000%-100% Brightness	
	2800-6500K CCT	
HSI	000%-100% Brightness	
	0°-360°Hue	
	000%-100% Saturation	
GEL	000%-100% Brightness	
	3200K/5600K CCT	
	R3202--- L0795 GEL Number	
RGBW	000%-100% Brightness	
	000%-100% RED	
	000%-100% GREEN	
	000%-100% BLUE	
	000%-100% WW	
	000%-100% CW	
XY	000%-100% Brightness	
	X Coord 0.2000-0.8000	
	Y Coord 0.2000-0.8000	
EFF	Candle	Club
	Fire	Fireworks
	Party	Paparazzi
	Pulsing	Strobe
	TV	Cop Car

	Explosion	Welding
	Lightning	Flo Flicker
	Color Chase	Cloud Passing
	Progress	
SETUP		DMX address: 001-512
		Lost: Hold/Delay/OFF
		DMX SW: ON/OFF
		RDM SW : ON/OFF
		Mode :P1.cct&rgbw 8bit P2.cct 8bit P3.cct&hsi 8bit P4.rgbw 8bit P5.hsi 8bit P6.cct&rgbw 16bit P7.cct 16bit P8.cct&hsi 16bit P9.rgbw 16bit P10.hsi 16bit P16.gel v2 8bit P17.gel v2 16bit P18.x.y 8bit P19.x.y 16bit P22.effect 8bit P23.effect 16bit P24.le cct&rgbw 8bit P26.le hsi 8 bit
	DMX512	Terminal: ON/OFF
	FAN Setting	Off/Low /Auto/High/Full
	Language Setting	English/中文
	Dim Curve	Linear/Exponent/S Curve /Log/TV Curve
	Display Setting	Brightness : 1-10
		LCD Time: 10-60sec/ Always
		Rotation: 0 degree/180 degree
		Buzzer : ON/OFF
	Update	USB update

	Restore	Yes/No
	About	FW Ver: V1.0.0000
		DMX Ver: V1.0.0
		RDM Ver: V1.0.0
		Serial : XXXXXX

5.DMX Channel table:

8 bit 1 channel per function	16 bit 2 channels per function
DMX mode1 CCT&RGBW	DMX mode 6 CCT&RGBW
DMX mode 2 CCT	DMX mode 7 CCT
DMX mode 3 CCT&HSI	DMX mode 8 CCT&HSI
DMX mode 4 RGBW	DMX mode 9 RGBW
DMX mode 5 HSI	DMX mode 10 HSI
DMX mode 16 GEL V2	DMX mode 17 GEL V2
DMX mode 18 X. y	DMX mode 19 X. y
DMX mode 22 Effect	DMX mode 23 Effect
DMX mode 24 LE CCT&RGBW	
DMX mode 26 LE HSI	

Overview

Mode 1:CCT &RGBW,8 bit resolution per function

DMX Channel	Value	Percent	Function
1	0-255	0-100	Dimmer closed→open
2	0-255	0-100	Color temperature CCT 2700K-10000K
3	0-10 11-20 21-119 120-145 146-244 245-255	0-4 5-8 9-47 48-57 58-96 97-100	Green/Magenta Point neutral/no effect full minus green -99%→-1% neutral/no effect 1%→99% fullplus green
4	0-255	0-100	Cross Fade to Color White→RGBW color
5	0-255	0-100	Intensity red 0%→100%
6	0-255	0-100	Intensity green 0%→100%
7	0-255	0-100	Intensity blue 0%→100%
8	0-255	0-100	Intensity white 0%→100%
9	0 - 9 10 - 57 58 - 105 106 - 153 154-201 202 - 250 251 - 255	0 - 3 4 - 22 23 - 41 42 - 60 61-78 79 - 98 99 - 100	Fan control : Use Fan Mode Setting of Fixture Menu Quite, Fan speed fixed Variable, Fan speed variable High Temp, Fan speed fixed Use Fan Mode Setting of Fixture Menu Fan at Full Speed Fan Off

Mode 2:CCT,8 bit resolution per function

DMX Channel	Value	Percent	Function
1	0-255	0-100	Dimmer closed→open
2	0-255	0-100	Color temperature CCT 2700K-10000K
3	0-10 11-20 21-119 120-145 146-244 245-255	0-4 5-8 9-47 48-57 58-96 97-100	Green/Magenta Point neutral/no effect full minus green -99%→-1% neutral/no effect 1%→99% full plus green
4	0 - 9 10 - 57 58 - 105 106 - 153 154-201 202 - 250 251 - 255	0 - 3 4 - 22 23 - 41 42 - 60 61-78 79 - 98 99 - 100	Fan control : Use Fan Mode Setting of Fixture Menu Quite, Fan speed fixed Variable, Fan speed variable High Temp, Fan speed fixed Use Fan Mode Setting of Fixture Menu Fan at Full Speed Fan Off

Mode 3:CCT&HSI,8 bit resolution per function

DMX Channel	Value	Percent	Function
1	0-255	0-100	Dimmer closed→open
2	0-255	0-100	Color temperature CCT 2700K-10000K
3	0-10 11-20 21-119 120-145 146-244 245-255	0-4 5-8 9-47 48-57 58-96 97-100	Green/Magenta Point neutral/no effect full minus green -99%→-1% neutral/no effect 1%→99% full plus green
4	0-255	0-100	Cross Fade to Color White→RGBW color
5	0-255	0-100	Hue 0° →360°
6	0-255	0-100	Saturation 0%→100%
7	0 - 9 10 - 57 58 - 105 106 - 153 154-201 202 - 250 251 - 255	0 - 3 4 - 22 23 - 41 42 - 60 61-78 79 - 98 99 - 100	Fan control : Use Fan Mode Setting of Fixture Menu Quite, Fan speed fixed Variable, Fan speed variable High Temp, Fan speed fixed Use Fan Mode Setting of Fixture Menu Fan at Full Speed Fan Off

Mode 4:RGBW,8 bit resolution per function

DMX Channel	Value	Percent	Function
1	0-255	0-100	Dimmer closed→open
2	0-255	0-100	Intensity red 0%→100%
3	0-255	0-100	Intensity green 0%→100%
4	0-255	0-100	Intensity blue 0%→100%
5	0-255	0-100	Intensity white 0%→100%
6	0 - 9 10 - 57 58 - 105 106 - 153 154-201 202 - 250 251 - 255	0 - 3 4 - 22 23 - 41 42 - 60 61-78 79 - 98 99 - 100	Fan control : Use Fan Mode Setting of Fixture Menu Quite, Fan speed fixed Variable, Fan speed variable High Temp, Fan speed fixed Use Fan Mode Setting of Fixture Menu Fan at Full Speed Fan Off

Mode 5:HSI,8bit resolution per function

DMX Channel	Value	Percent	Function
1	0-255	0-100	Dimmer closed→open
2	0-255	0-100	Hue 0° →360°
3	0-255	0-100	Saturation 0%→100%
4	0 - 9 10 - 57 58 - 105 106 - 153 154-201 202 - 250 251 - 255	0 - 3 4 - 22 23 - 41 42 - 60 61-78 79 - 98 99 - 100	Fan control : Use Fan Mode Setting of Fixture Menu Quite, Fan speed fixed Variable, Fan speed variable High Temp, Fan speed fixed Use Fan Mode Setting of Fixture Menu Fan at Full Speed Fan Off

Mode 6:CCT&rgbw,16bit resolution per function

DMX Channel		Value	Percent	Function
HI	L0			
1	2	0-65535	0-100	Dimmer closed→open
3	4	0-65535	0-100	Color temperature CCT 2700K-10000K
5	6	0-5000 5001-10000 10001-29999 30000-40000 40001-59999 60000-65535	0-7 8-15 16-46 47-61 62-92 93-100	Green/Magenta Point neutral/no effect fullminus green -99%→-1% neutral/no effect 1%→99% full plus green
7	8	0-65535	0-100	Xfade to color White→RGBW color
9	10	0-65535	0-100	Intensity red 0%→100%
11	12	0-65535	0-100	Intensity green 0%→100%
13	14	0-65535	0-100	Intensity blue 0%→100%
15	16	0-65535	0-100	Intensity white 0%→100%
17		0 - 9 10 - 57 58 - 105 106 - 153 154-201 202 - 250 251 - 255	0 - 3 4 - 22 23 - 41 42 - 60 61-78 79 - 98 99 - 100	Fan control : Use Fan Mode Setting of Fixture Menu Quite, Fan speed fixed Variable, Fan speed variable High Temp, Fan speed fixed Use Fan Mode Setting of Fixture Menu Fan at Full Speed Fan Off

Mode 7:CCT,16bit resolution per function

DMX Channel		Value	Percent	Function
HI	LO			
1	2	0-65535	0-100	Dimmer closed→open
3	4	0-65535	0-100	Color temperature CCT 2700K-10000K
5	6	0-5000 5001-10000 10001-29999 30000-40000 40001-59999 60000-65535	0-7 8-15 16-46 47-61 62-92 93-100	Green/Magenta Point neutral/no effect fullminus green -99%→-1% neutral/no effect 1%→99% full plus green
7		0 - 9 10 - 57 58 - 105 106 - 153 154-201 202 - 250 251 - 255	0 - 3 4 - 22 23 - 41 42 - 60 61-78 79 - 98 99 - 100	Fan control : Use Fan Mode Setting of Fixture Menu Quite, Fan speed fixed Variable, Fan speed variable High Temp, Fan speed fixed Use Fan Mode Setting of Fixture Menu Fan at Full Speed Fan Off

Mode 8:CCT &HSI,16bit resolution per function

DMX Channel		Value	Percent	Function
HI	LO			
1	2	0-65535	0-100	Dimmer closed→open
3	4	0-65535	0-100	Color temperature CCT 2700 K→10000K
5	6	0-5000 5001-10000 10001-29999 30000-40000 40001-59999 60000-65535	0-7 8-15 16-46 47-61 62-92 93-100	Green/Magenta Point neutral/no effect full minus green -99%→-1% neutral/no effect 1%→99% full plus green
7	8	0-65535	0-100	Xfade to color White→RGBW color
9	10	0-65535	0-100	Hue 0° →360°
11	12	0-65535	0-100	Saturation 0%→100%
13		0 - 9 10 - 57 58 - 105 106 - 153 154-201 202 - 250 251 - 255	0 - 3 4 - 22 23 - 41 42 - 60 61-78 79 - 98 99 - 100	Fan control : Use Fan Mode Setting of Fixture Menu Quite, Fan speed fixed Variable, Fan speed variable High Temp, Fan speed fixed Use Fan Mode Setting of Fixture Menu Fan at Full Speed Fan Off

Mode 9:RGBW,16bit resolution per function

DMX Channel		Value	Percent	Function
HI	LO			
1	2	0-65535	0-100	Dimmer closed→open
3	4	0-65535	0-100	Intensity red 0%→100%
5	6	0-65535	0-100	Intensity green 0%→100%
7	8	0-65535	0-100	Intensity blue 0%→100%
9	10	0-65535	0-100	Intensity white 0%→100%
11		0 - 9 10 - 57 58 - 105 106 - 153 154-201 202 - 250 251 - 255	0 - 3 4 - 22 23 - 41 42 - 60 61-78 79 - 98 99 - 100	Fan control : Use Fan Mode Setting of Fixture Menu Quite, Fan speed fixed Variable, Fan speed variable High Temp, Fan speed fixed Use Fan Mode Setting of Fixture Menu Fan at Full Speed Fan Off

Mode 10:HSI,16bit resolution per function

DMX Channel		Value	Percent	Function
HI	LO			
1	2	0-65535	0-100	Dimmer closed→open
3	4	0-65535	0-100	Hue 0° →360°
5	6	0-65535	0-100	Saturation 0%→100%
7		0 - 9 10 - 57 58 - 105 106 - 153 154-201 202 - 250 251 - 255	0 - 3 4 - 22 23 - 41 42 - 60 61-78 79 - 98 99 - 100	Fan control : Use Fan Mode Setting of Fixture Menu Quite, Fan speed fixed Variable, Fan speed variable High Temp, Fan speed fixed Use Fan Mode Setting of Fixture Menu Fan at Full Speed Fan Off

Mode 16:GEL V2,8bit resolution per function,base channels

DMX	Channel	Value	Percent	Function
1		0-255	0-100	Master Intensity 0%(closed)→100%(open)
2		0-127 128-255	0-50 51-100	Gel 1, CCT Selection 3200 K 5600K
3		0-170 171-255	0-66 67-100	Gel 1, Color Matching Selection Best Color Note:Color quality optimized NO GEL
4		0-127 128-255	0-50 51-100	Gel 1, Brand Choose category on ch. 5, gel on ch. 6 R Series L Series
5		0-50 51-101 102-152 153-23 204-255	0-20 21-39 40-60 61-80 81-100	Gel 1, Category (Brand Dependent) Choose Gel manufacturer on channel 4 Category 1 Rosco:Color correction L Series:Color correction Category 2 R Series:CalColor L Series:Color Filters Category 3 R Series:Storaro Selection L Series:600 Series Category 4 R Series:Cinelux L Series:Cosmetic Filters Category 5 L Series:700 Series
6		0-255	0-100	Gel 1 Please see tables below
7		0-255	0-100	Cross Fade to gel Gel 1→Gel 2
8		0-127 128-255	0-50 51-100	Gel 2, CCT Selection 3200K 5600K

Mode 16:GEL V2,8bit resolution per function,base channels,continued

DMX	Channel	Value	Percent	Function
9		0-170 171-255	0-66 67-100	Gel 2, Color Matching Selection Best Color Note:Color quality optimized NO GEL
10		0-128 129-255	0-50 51-100	Gel 2, Brand Choose category on ch. 11 gel on ch. 12 R Series L Series
11		0-50 51-101 102-152 153-23 204-255	0-20 21-39 40-60 61-80 81-100	Gel 2, Category (Brand Dependent) Choose Gel manufacturer on channel 10 Category 1 Rosco:Color correction L Series:Color correction Category 2 R Series:CalColor L Series:Color Filters Category 3 R Series:Storaro Selection L Series:600 Series Category 4 R Series:Cinelux L Series:Cosmetic Filters Category 5 L Series:700 Series
12		0-255	0-100	Gel 2 Please see tables below
13		0 - 9 10 - 57 58 - 105 106 - 153 154-201 202 - 250 251 - 255	0 - 3 4 - 22 23 - 41 42 - 60 61-78 79 - 98 99 - 100	Fan control : Use Fan Mode Setting of Fixture Menu Quite, Fan speed fixed Variable, Fan speed variable High Temp, Fan speed fixed Use Fan Mode Setting of Fixture Menu Fan at Full Speed Fan Off

Mode 17:GEL V2,16bit resolution per function,base channels

DMX	Channel	Value	Percent	Function
HI	LO			
1	2	0-65535	0-100	Master Intensity 0%(closed)→100%(open)
3		0-128 129-255	0-50 51-100	Gel1, CCT Selection 3200K 5600 K
4		0-170 171-255	0-67 68-100	Gel 1, Color Matching Selection Best Color Note:Color quality optimized NO GEL
5		0-128 129-255	0-50 51-100	Gel1, Brand Choose category on ch. 5, gel on ch. 6 R Series L Series
6		0-50 51-101 102-152 153-23 204-255	0-20 21-39 40-60 61-80 81-100	Gel 1, Category (Brand Dependent) Choose Gel manufacturer on channel 4 Category 1 R Series:Color correction L Series:Color correction Category 2 R Series:CalColor L Series:Color Filters Category 3 R Series:Storaro Selection L Series:600 Series Category 4 R Series:Cinelux L Series:Cosmetic Filters Category 5 L Series:700 Series
7		0-255	0-100	Gel1 Please see tables below
8	9	0-255	0-100	Cross Fade to gel Gel1→Gel 2
10		0-127 128-255	0-50 51-100	Gel 2, CCT Selection 3. 200 K 5. 600K

Mode 17:GEL V2,16bit resolution per function,base channels,continued

DMX Channel		Value	Percent	Function
HI	LO			
11		0-170	0-67	Gel 2, Color Matching Selection Best Color Note:Color quality optimized
		171-255	68-100	NO GEL
12		0-128	0-50	Gel 2, Brand Choose category on ch.11 gel on ch. 12 R Series
		129-255	51-100	L Series
13		0-50	0-20	Gel 2, Category (Brand Dependent) Choose Gel manufacturer on channel 10 Category 1 R Series:Color correction L Series:Color correction
		51-101	21-39	Category 2 R Series:CalColor
		102-152	40-60	L Series:Color Filters
		153-23	61-80	Category 3 R Series:Storaro Selection
		204-255	81-100	L Series:600 Series
				Category 4 R Series:Cinelux L Series:Cosmetic Filters
14		0-255	0-100	Gel 2 Please see tables below
15		0 - 9	0 - 3	Fan control : Use Fan Mode Setting of Fixture Menu
		10 - 57	4 - 22	Quite, Fan speed fixed
		58 - 105	23 - 41	Variable, Fan speed variable
		106 - 153	42 - 60	High Temp, Fan speed fixed
		154-201	61-78	Use Fan Mode Setting of Fixture Menu
		202 - 250	79 - 98	Fan at Full Speed
		251 - 255	99 - 100	Fan Off

Mode 18:x,y Coordinates,8 bit resolution per function

DMX Channel	Value	Percent	Function
1	0-255	0-100	Master Intensity 0%(closed) → 100% (open)
2	0-255	0-100	X1 Coordinate 0.0-0.8
3	0-255	0-100	Y1 Coordinate 0.0-0.8
4	0-255	0-100	Cross Fade X1, Y1 → X2, Y2
5	0-255	0-100	X2 Coordinate 0.0-0.8
6	0-255	0-100	Y2 Coordinate 0.0-0.8
7	0 - 9 10 - 57 58 - 105 106 - 153 154-201 202 - 250 251 - 255	0 - 3 4 - 22 23 - 41 42 - 60 61-78 79 - 98 99 - 100	Fan control : Use Fan Mode Setting of Fixture Menu Quite, Fan speed fixed Variable, Fan speed variable High Temp, Fan speed fixed Use Fan Mode Setting of Fixture Menu Fan at Full Speed Fan Off

Mode 19:x,y Coordinates 16 bit resolution per function

DMX Channel		Value	Percent	Function
HI	LO			
1	2	0-65535	0-100	Master Intensity 0% (closed) → 100% (open)
3	4	0-65535	0-100	X1 Coordinate 0.0-0.8
5	6	0-65535	0-100	Y1 Coordinate 0.0-0.8
7	8	0-65535	0-100	Cross Fade X1, Y1 → X2, Y2
9	10	0-65535	0-100	X2 Coordinate 0.0-0.8
11	12	0-65535	0-100	Y2 Coordinate 0.0-0.8
1 3		0 - 9 10 - 57 58 - 105 106 - 153 154-201 202 - 250 251 - 255	0 - 3 4 - 22 23 - 41 42 - 60 61-78 79 - 98 99 - 100	Fan control : Use Fan Mode Setting of Fixture Menu Quite, Fan speed fixed Variable, Fan speed variable High Temp, Fan speed fixed Use Fan Mode Setting of Fixture Menu Fan at Full Speed Fan Off

Mode 22: Effects, 8 bit resolution per function

DMX	Channel	Value	Percent	Function
1		0-255	0-100	Master Intensity 0% (closed) → 100% (open)
2		0-9 10-19 20-29 30-39 40-49 50-59 60-69 70-79 80-89 90-99 100-109 110-119 120-129 130-139 140-149 150-159 160-169 170-179 180-255	0-4 5-7 8-11 12-15 16-19 20-23 24-27 28-31 32-35 36-39 40-43 44-47 48-51 52-55 56-58 59-62 63-66 67-70 71-100	Effect Selection No Effect Party Effect Candle Clouds Passing Club Lights Color Chase Cop Car Fire Fireworks Light Strobe Lightning Paparazzi Pulsing Television Explosion Fluorescent Flicker Process Welding Reserved for future use
3		0-255	0-100	Effect Parameter 1 See table below
4		0-255	0-100	Effect Parameter 2 See table below
5		0-255	0-100	Effect Parameter 3 See table below
6		0-255	0-100	Effect Parameter 4 See table below
7		0-255	0-100	Effect Parameter 5 See table below
8		0-255	0-100	Effect Parameter 6 See table below
9		0-255	0-100	Effect Parameter 7 See table below
10		0-9 10-57 58-105 106-153 154-201 202-250 251-255	0-3 4-22 23-41 42-60 61-78 79-98 99-100	Fan Control : Use Fan Mode Setting of Fixture Menu Quite, Fan speed fixed Variable, Fan speed variable High Temp, Fan speed fixed NONE Fan at Full Speed Fan Off

Mode 23: Effects, 16 bit resolution per function

DMX Channel		Value	Percent	Function
HI	LO			
1	2	0-65535	0-100	Master Intensity 0% (closed) → 100% (open)
3				Effect Selection
		0-9	0-4	No Effect
		10-19	5-7	Party Effect
		20-29	8-11	Candle
		30-39	12-15	Clouds Passing
		40-49	16-19	Club Lights
		50-59	20-23	Color Chase
		60-69	24-27	Cop Car
		70-79	28-31	Fire
		80-89	32-35	Fireworks
		90-99	36-39	Light Strobe
		100-109	40-43	Lightning
		110-119	44-47	Paparazzi
		120-129	48-51	Pulsing
		130-139	52-55	Television
		140-149	56-58	Explosion
		150-159	59-62	Fluorescent Flicker
		160-169	63-66	Process
		170-179	67-70	Welding
		180-255	71-100	Reserved for future use
4	5	0-65535	0-100	Effect Parameter 1 See table below
6	7	0-65535	0-100	Effect Parameter 2 See table below
8	9	0-65535	0-100	Effect Parameter 3 See table below
10	11	0-65535	0-100	Effect Parameter 4 See table below
12	13	0-65535	0-100	Effect Parameter 5 See table below
14	15	0-65535	0-100	Effect Parameter 6 See table below
16	17	0-65535	0-100	Effect Parameter 7 See table below

18	0 - 9	0 - 3	Fan control : Use Fan Mode Setting of Fixture Menu Quite, Fan speed fixed Variable, Fan speed variable High Temp, Fan speed fixed Use Fan Mode Setting of Fixture Menu Fan at Full Speed
	10 - 57	4 - 22	
	58 - 105	23 - 41	
	106 - 153	42 - 60	
	154-201	61-78	
	202 - 250	79 - 98	
	251 - 255	99 - 100	Fan Off

Mode 23:Effects,16 bit resolution per function,continued

Party Effect

Effect Parameter	Value 8 bit	Value 16 bit	Percent	Function
1	0 0-255	0 1-65535	0 0-100	Saturation CCT 2000K→20000K 0→1.0 Saturation
2	0-255	0-65535	0-100	Speed Loop 60 s→1s

Candle

Effect Parameter	Value 8 bit	Value 16 bit	Percent	Function
1	0-84 85-170 171-255	0-21626 21627-43253 43254-65535	0-33 34-66 67-100	CCT Range Not continuous, set range for random generation 1400→1700K 1700→2000K 2000→2300 K
2	0-255	0-65535	0-100	Speed 0→120 changes /min

Clouds Passing

Effect Parameter	Value 8 bit	Value 16 bit	Percent	Function
1	0-255	0-65535	0-100	Offset Offset Number 0-50 Every 5 DMX values is a new offset
2	0-127 128-255	0-32767 32768-65535	0-50 51-100	Speed 2×Slower→Default Speed Default Speed→2×Faster
3	255	65535	100	Sync If bumped to 100%, the loop will start at zero (or depending on the offset value)

Club Lights

Effect Parameter	Value 8 bit	Value 16 bit	Percent	Function
1	0-31 32-63 64-95 96-127 128-159 160-191 192-223 224-255	0-7864 7865-16384 16385-24248 24249-32266 32267-40631 40632-49151 49152-57015 57016-65535	0-12 13-25 26-37 38-49 50-62 63-75 76-87 88-100	Color Variety 3 Colors 6 Colors 9 Colors 12 Colors 15 Colors 18 Colors 21 Colors 24 Colors
2	0-255	0-65535	0-100	Speed 0→120 changes /min

Color Chase

Effect Parameter	Value 8 bit	Value 16 bit	Percent	Function
1	0-255	0-65535	0-100	Offset Offset Number 0-50 Every 5 DMX values is a new offset
2	0-255	0-65535	0-100	Speed Loop 60s→1 s
3	0 0-255	0 1-65535	0 0-100	Saturation CCT 2700→10000 K 0%→100% Saturation
4	255	65535	100	Sync If bumped to 100%, the loop will start at zero (or depending on the offset value)

Cop Car

Effect Parameter	Value 8 bit	Value 16 bit	Percent	Function
1	0-27 28-55 56-83 84-111 112-139 140-167 168-195 196-223 224-255	0-6912 6913-14080 14081-21248 21249-28416 28417-35584 35585-42752 42753-49920 49921-57088 57089-65535	0-11 12-21 22-32 33-43 44-54 55-65 66-76 77-87 88-100	Color Combinations Just Blue Blue and Red Blue and White Blue, Red and White Blue and Amber Blue, Red and Amber Red and Amber Amber Red
2	0-31 32-63 64-95 96-127 128-159 160-191 192-255	0-7936 7937-16128 16129-24320 24321-32767 32768-40704 40705-48896 48897-65535	0-12 13-25 26-37 38-49 50-62 63-75 76-100	Flash Pattern Single Flash Double Flash Quint All Flash Quint Flash Quad Flash Cycle All Reserved for future use

Fire

Effect Parameter	Value 8 bit	Value 16 bit	Percent	Function
1	0-84 85-170 171-255	0-21627 21628-43253 43254-65535	0-33 34-66 67-100	CCT Range Not continuous, set range for random generation 1800→2200 K 2200→2600K 2600→3000K
2	0-255	0-65535	0-100	Speed 0→180 changes/min

Fireworks

Effect Parameter	Value 8 bit	Value 16 bit	Percent	Function
1	0-63 64-127 128-191 192-255	0-16384 16385-32767 32768-49151 49152-65535	0-25 26-50 51-75 76-100	Color Combinations Colors White Colors and White Reserved for future use
2	0-255	0-65535	0-100	Speed 10→0,5 s between fireworks

Strobe

Effect Parameter	Value 8 bit	Value 16 bit	Percent	Function
1	0-255	0-65535	0-100	Speed 1→25 flashes/second
2	0-255	0-65535	0-100	Color Temperature CCT 2700K-10000K
3	0-10 11-20 21-119 120-145 146-244 245-255	0-2621 2622-5243 5244-30146 30147-37355 37356-62914 62915-65535	0-4 5-8 8-46 47-57 57-96 97-100	Green -Magenta Point neutral/no effect full minus green -99%→-1% neutral/no effect 1%→99% full plus green
4	0-255	0-65535	0-100	Crossfade to Color White→RGBW Color
5	0-255	0-65535	0-100	Hue 0→360°
6	0-255	0-65535	0-100	Saturation 0%→100%

Lightning

Effect Parameter	Value 8 bit	Value 16 bit	Percent	Function
1	0-254 255	0-64880 64881-65535	0-99 255	Frequency 2→14 lightning strikes set Random
2	0-254 255	0-64880 64881-65535	0-99 100	Speed 0→ 10 flashes /second Random
3	0-255	0-65535	0-100	Color Temperature CCT 2700→10000 K
4	0-10 11-20 21-119 120-145 146-244 245-255	0-2621 2622-5243 5244-30146 30147-37355 37356-62914 62915-65535	0-4 5-8 8-46 47-57 57-96 97-100	Green-Magenta Point neutral /no effect full minus green -99%→-1% neutral/no effect 1%→99% full plus green
5	0-255	0-65535	0-100	Sync If bumped to 100%, the loop will start at zero (or depending on the offset value)

Paparazzi

Effect Parameter	Value 8 bit	Value 16 bit	Percent	Function
1	0-255	0-65535	0-100	Frequency 6→120 Flashes /min
2	0-127 128-255	0-32767 32768-65535	0-50 51-100	Flash Type Flash Bulb Modern Flash
3	0-255	0-65535	0-100	Color Temperature CCT 2700→10000 K
4	0-10 11-20 21-119 120-145 146-244 245-255	0-2621 2622-5243 5244-30146 30147-37355 37356-62914 62915-65535	0-4 5-8 8-46 47-57 57-96 97-100	Green-Magenta Point neutral /no effect fullminus green -99%→-1% neutral/no effect 1%→99% full plus green

Pulsing

Effect Parameter	Value 8 bit	Value 16 bit	Percent	Function
1	0-255	0-65535	0-100	Frequency 5→90 Pulses /minute
2	0-255	0-65535	0-100	Pulse Duration 4→0.25 seconds
3	0-255	0-65535	0-100	Color Temperature CCT 2700→10000K
4	0-10 11-20 21-119 120-145 146-244 245-255	0-2621 2622-5243 5244-30146 30147-37355 37356-62914 62915-65535	0-4 5-8 8-46 47-57 57-96 97-100	Green-Magenta Point neutral/no effect fullminus green -99%→-1% neutral /no effect 1%→99% full plus green
5	0-255	0-65535	0-100	Crossfade to Color White→RGBW Color
6	0-255	0-65535	0-100	Hue 0→360°
7	0-255	0-65535	0-100	Saturation 0%→100%

Television

Effect Parameter	Value 8 bit	Value 16 bit	Percent	Function
1	0-84 85-170 171-255	0-21627 21628-43253 43254-65535	0-33 34-66 67-100	CCT Range Not continuous, set range for random generation 2700→4700 K 4700→6500K 6500→10000K
2	0-255	0-65535	0-100	Speed 4→24 changes /min

Explosion

Effect Parameter	Value 8 bit	Value 16 bit	Percent	Function
1	0-255	0-65535	0-100	Decay Decay 4→0.5 seconds
2	250-255	64224-65535	0-100	Trigger Manual (bump intensity to explode))
3	0-255	0-65535	0-100	Color Temperature CCT 2000→20000 K
4	0-10 11-20 21-119 120-145 146-244 245-255	0-2621 2622-5243 5244-30146 30147-37355 37356-62914 62915-65535	0-4 5-8 8-46 47-57 57-96 97-100	Green-Magenta Point neutral/no effect fullminus green -99%→-1% neutral/no effect 1%→99% full plus green
5	0-255	0-65535	0-100	Crossfade to Color White→RGBW Color
6	0-255	0-65535	0-100	Hue 0→360°
7	0-255	0-65535	0-100	Saturation 0%→100%

Fluorescent Flicker

Effect Parameter	Value 8 bit	Value 16 bit	Percent	Function
1	0-255	0-65535	0-100	Speed 2→6 seconds of sill
2	0-255	0-65535	0-100	Frequency 3→10 flickers per second
3	0-255	0-65535	0-100	Color Temperature CCT 2700→10000 K
4	0-10 11-20 21-119 120-145 146-244 245-255	0-2621 2622-5243 5244-30146 30147-37355 37356-62914 62915-65535	0-4 5-8 8-46 47-57 57-96 97-100	Green-Magenta Point neutral/no effect full minus green -99%→-1% neutral /no effect 1%→99% full plus green
5	0-255	0-65535	0-100	Crossfade to Color White→RGBW Color
6	0-255	0-65535	0-100	Hue 0→360°
7	0-255	0-65535	0-100	Saturation 0%→100%

Process

Effect Parameter	Value 8 bit	Value 16 bit	Percent	Function
1	0-255	0-65535	0-100	Speed Slow→fast
2	0-127 128-255	0-32764 32765-65535	0-50 51-100	Direction Left→right Right→left
3	0-255	0-65535	0-100	Color Temperature CCT 2700→10000 K
4	0-10 11-20 21-119 120-145 146-244 245-255	0-2621 2622-5243 5244-30146 30147-37355 37356-62914 62915-65535	0-4 5-8 8-46 47-57 57-96 97-100	Green-Magenta Point neutral/no effect full minus green -99%→-1% neutral/no effect 1%→99% full plus green
5	0-255	0-65535	0-100	Crossfade to Color White→RGBW Color
6	0-255	0-65535	0-100	Hue 0→360°
7	0-255	0-65535	0-100	Saturation 0%→100%

Welding

Effect Parameter	Value 8 bit	Value 16 bit	Percent	Function
1	0-255	0-65535	0-100	Speed Slow→fast
2	0-255	0-65535	0-100	Min Intensity Level 0%→75%minimum intensity level
3	0-255	0-65535	0-100	Color Temperature CCT 2700→10000K
4	0-10 11-20 21-119 120-145 146-244 245-255	0-2621 2622-5243 5244-30146 30147-37355 37356-62914 62915-65535	0-4 5-8 8-46 47-57 57-96 97-100	Green-Magenta Point neutral/no effect full minus green -99%→-1% neutral/no effect 1%→99% fullplus green
5	0-255	0-65535	0-100	Crossfade to Color White→RGBW Color
6	0-255	0-65535	0-100	Hue 0→360°
7	0-255	0-65535	0-100	Saturation 0%→100%

Mode 24:LE CCT&RGBW,8 bit resolution per function

DMX Channel	Value	Percent	Function
Light Engine 1			
1	0-255	0-100	Dimmer closed→open
2	0-255	0-100	Color temperature CCT 2700K-10000K
3	0-10	0-4	Green/Magenta Point neutral/no effect
	11-20	5-8	full minus green
	21-119	9-47	-99%→-1%
	120-145	48-57	neutral/no effect
	146-244	58-96	1%→99%
	245-255	97-100	full plus green
4	0-255	0-100	Cross Fade to Color White→RGBW color
5	0-255	0-100	Intensity red 0%→100%
6	0-255	0-100	Intensity green 0%→100%
7	0-255	0-100	Intensity blue 0%→100%
8	0-255	0-100	Intensity white 0%→100%
9	0 - 9	0 - 3	Fan control :
	10 - 57	4 - 22	Use Fan Mode Setting of Fixture Menu
	58 - 105	23 - 41	Quite, Fan speed fixed
	106 - 153	42 - 60	Variable, Fan speed variable
	154-201	61-78	High Temp, Fan speed fixed
	202 - 250	79 - 98	Use Fan Mode Setting of Fixture Menu
	251 - 255	99 - 100	Fan at Full Speed Fan Off

Mode 26:LE HSI,8 bit resolution per function

DMX Channel	Value	Percent	Function
Light Engine 1			
1	0-255	0-100	Dimmer closed→open
2	0-255	0-100	Hue 0° →360°
3	0-255	0-100	Saturation 0→full saturated
4	0 - 9 10 - 57 58 - 105 106 - 153 154-201 202 - 250 251 - 255	0 - 3 4 - 22 23 - 41 42 - 60 61-78 79 - 98 99 - 100	Fan control : Use Fan Mode Setting of Fixture Menu Quite, Fan speed fixed Variable, Fan speed variable High Temp, Fan speed fixed Use Fan Mode Setting of Fixture Menu Fan at Full Speed Fan Off

Troubleshooting

Following are a few common problems that may occur during operation.

Here are some suggestions for easy troubleshooting:

A. The fixture does not work, no light output, fan no work

1. Check the connection of power.
2. Measure the mains voltage on the main connector.
3. Check the power indicator

B. Not responding to DMX controller

1. DMX LED should be on. If not, check DMX connectors, cables to see if link properly.
2. If the DMX LED is on and no response to the channel, check the address settings and DMX polarity.
3. If you have intermittent DMX signal problems, check the pins on connectors or on PCB of the fixture or the previous one.
4. Try to use another DMX controller.
5. Check if the DMX cables run near or run alongside to high voltage cables that may cause damage or interference to DMX interface circuit.

C. Some fixtures don't respond to the easy controller

1. You may have a break in the DMX cabling.
2. Check the LED for the response of the master/ slave mode signal.

5.Fixture cleaning:

The cleaning of internal must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the fixture's optics.

Clean with soft cloth using normal glass cleaning fluid.

Always dry the parts carefully.

Clean the external optics at least every 20 days. Clean the internal optics at least every 20 days.