Product Specification

CL-C1000F4 Controller



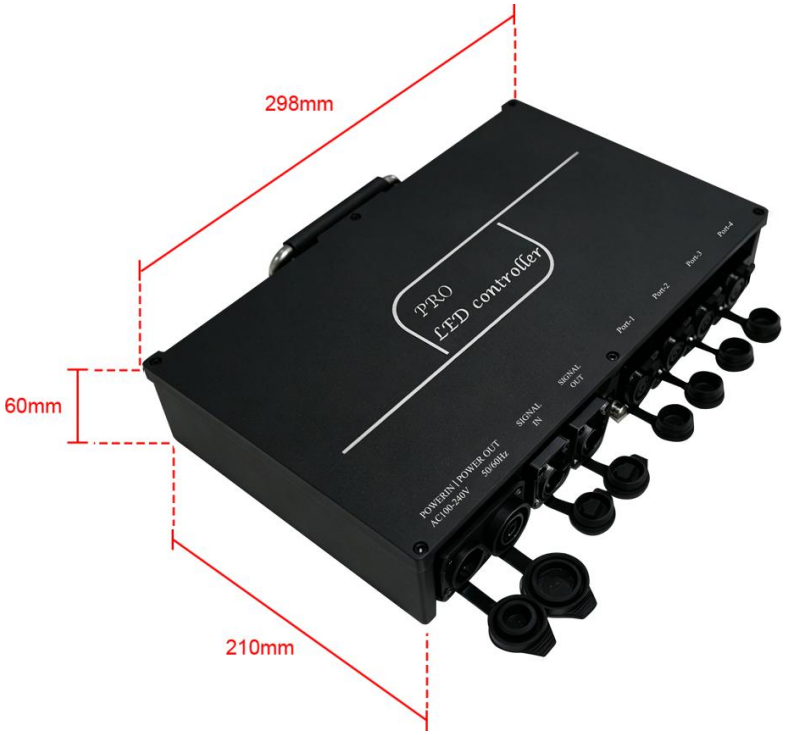
Shenzhen Clen Optoelectronics Co., Ltd

Product name：LED Four-port waterproof controller

Product mode：CL-C1000F4

Overview： Based on the ARTNET protocol Ethernet network driver, the controller can convert the network data packets in the ARTNET protocol into standard DMX512 data or SPI data. The controller has three control modes: ARTNET, SD card，sACN,which can perform effect recording and can be used offline;This product is IP65 waterproof； This product can be widely used in stage performance lighting control system, stage performance, bar lighting and other occasions, and it is more convenient to use with our pixel tube.

Product picture：







Product features:

- Input Voltage: AC100—240V Output Voltage: DC24V
- 4 port output,each port 680 pixels;
- Three signal modes, ARTNET mode,SD card,sACN mode;
- Support recording effect, it can record 31 different lighting effect, support offline control;
- Built-in power supply, simple wiring, easy to use;
- IP65 dust and water resistant, suitable for outdoor complex environments;
- Easy to connect, just connect the port with a network cable;

◆ Parameter list

Parameter	Unit	Min	Typical	Max
Working voltage	V	100	—	240
Output voltage	V	—	24	—
Power	W	—	—	1000
Cascaded units	PCS	—	—	254
Support IC type	—	—	WS2811/SK6812/UCS1903 UCS8903/ DMX512/SM16803	—
Supporting software	—	—	MAD-SHOW (MADRIX/RESOLUME/MAD-MAPPER/TOUCH DESIGNER)	—
Control mode	—	—	ART-NET/DMX/sACN	—
Working mode	—	—	ARTNET/SD Card	—
Controller IP address	—	—	2.0.0.X	—
Subnet mask	—	—	255.0.0.0	—
Computer IP address	—	—	2.0.0.2	—
Port loading points	PIX	—	4*680	—
Product color	—	—	Black	—
Product size(L*W*H)	MM	—	298*210*60	—
Gross weight	KG	—	3.7	—
Waterproof rating	—	—	IP65	—

CL-C1000F4

4port Artnet/DMX Controller

IP65

Waterproof Rating



Outdoor Rainproof Controller

◆ Installation Method

Portable Installation

The controller comes with a built-in metal handle for easy portable installation.



Suspension Mounting

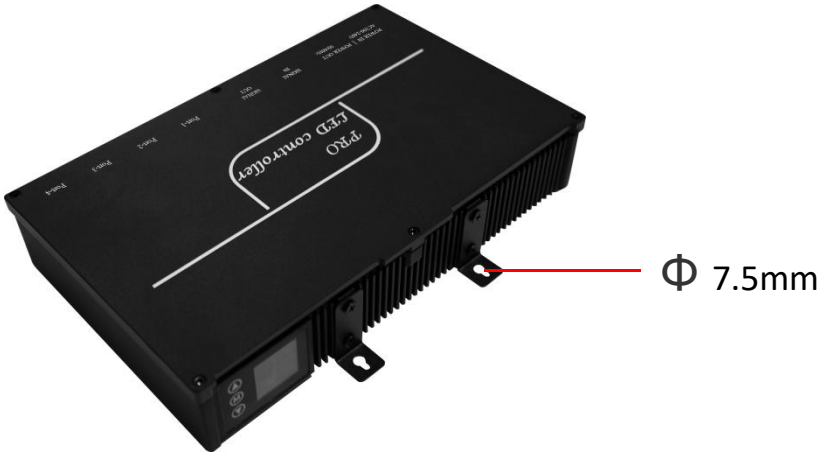
The fasteners can be used with stage lighting clamps for suspension mounting.





Wall Mounting

The fasteners can be used with screws and other accessories for wall mounting.



Outdoor controller installation warning

To ensure stable operation of the device, please follow the following installation specifications:

1. Installation direction requirements

Keep the control interface vertically downward, and do not install it upside down;

Non-standard installation will cause: ① Rainwater seeping into the internal circuit along the interface

② The motherboard/chipset is damp and short-circuited



◆ Connection

①Controller connect lamps



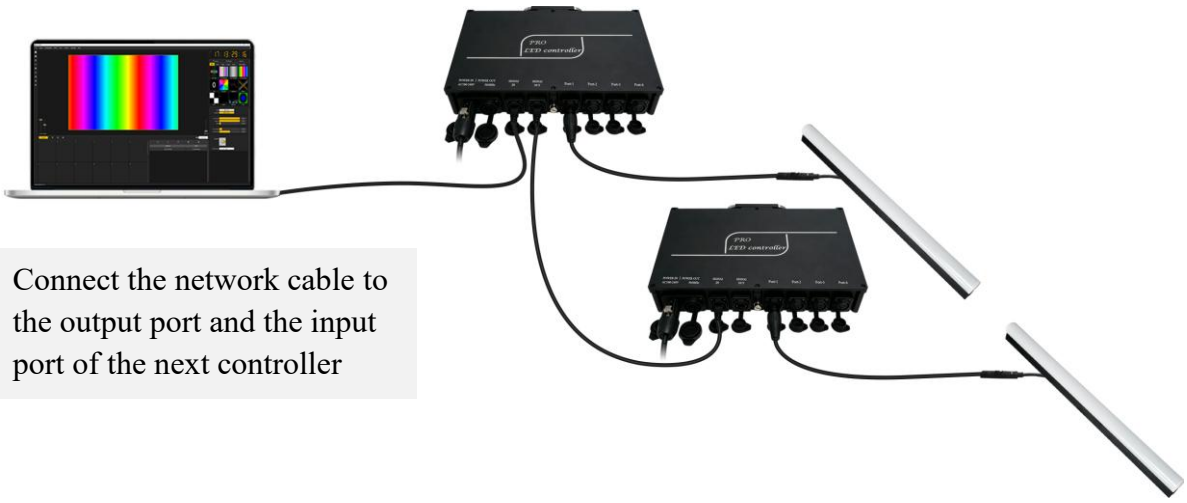
Connect the computer and the controller input port, turn on the power;

②Console connect controller



Connect the console and the controller through the signal conversion board;

◆ Multiple units can be used in cascade

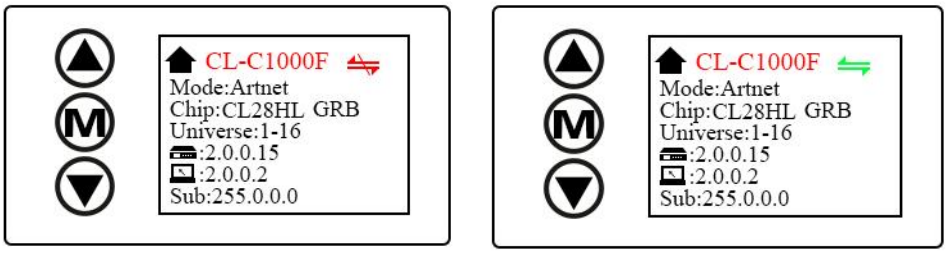


Connect the network cable to the output port and the input port of the next controller

Note: When multiple controllers are cascaded, each controller IP setting cannot be the same!（Except for sACN mode）

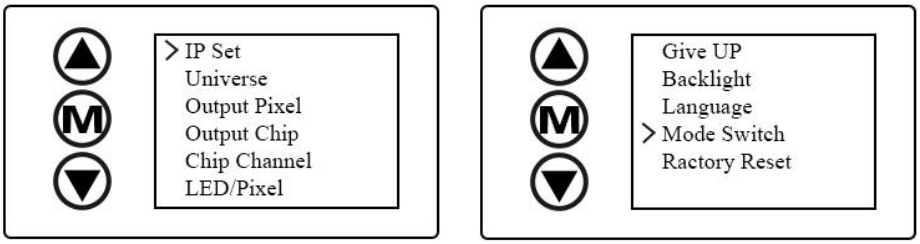
◆ Control mode

After the controller is powered on, the red mark on the right side of the display indicates that there is no signal access; When the signal is connected, the signal mark is green, indicating that there is ARTNET signal access;

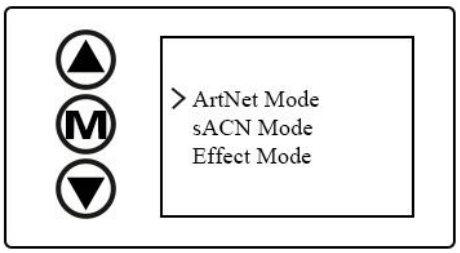


Mode switch

Press and hold the "MENU" button for 3 seconds to enter the main menu. Press "UP" or "DOWN" to switch options, and select the "Mode Switch" ；

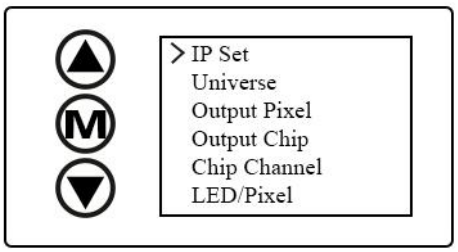


Press "MENU" to enter the mode- selection page. After selecting a mode with "UP" or "DOWN", press "MENU" to confirm the selection and exit the interface. Press and hold the "MENU" button to save the parameters.

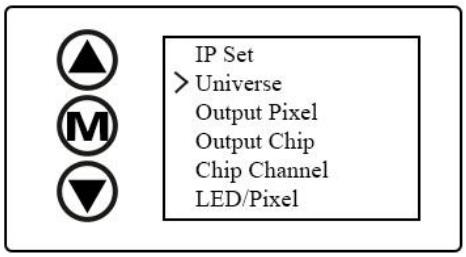


ARTNET Mode

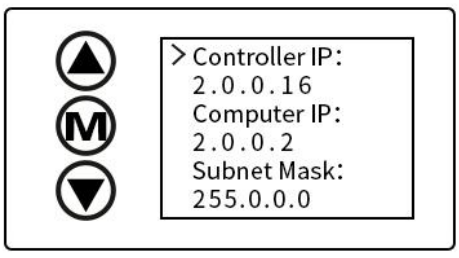
Press and hold the "MENU" button for 3 seconds to enter the main menu.



Press "UP" or "DOWN" to switch options.



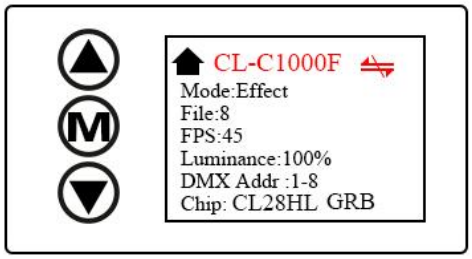
Press the "MENU" button to enter the item for parameter modification. Press "MENU" to confirm the selection and exit the interface. Press and hold the "MENU" button to save the parameters. Each controller port provides independent output, with a maximum load of 680 pixels per port.



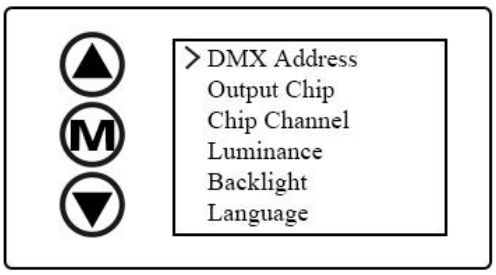
Similarly, parameters such as universe, channel, IC chip and language can also be modified.

EFFECT Mode

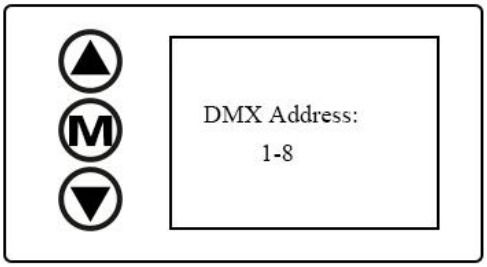
Press "UP" or "DOWN" to switch effects. A total of 31 built- in effects are available for selection. Press the "MENU" button again to jump to the speed option, then press the "UP" or "DOWN" button to adjust the speed.



Press and hold the "MENU" button for 3 seconds to enter the main menu, then press the "UP" or "DOWN" button to switch options.



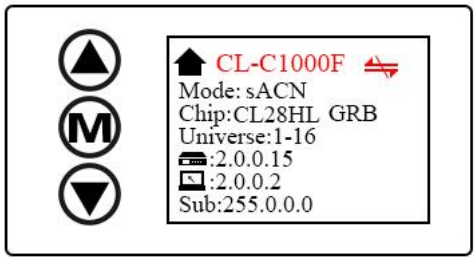
Press the "MENU" button to enter the option for parameter editing. Press "MENU" to confirm the selection and exit the interface, and press and hold the "MENU" button to save the parameters.



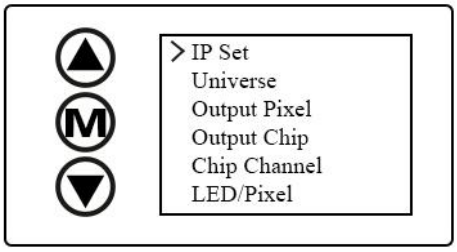
Similarly, parameters such as universe, channel, IC chip and language can also be modified.

sACN Mode

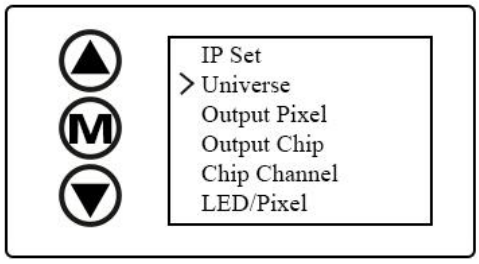
The sACN mode uses Ethernet as the transmission medium. No IP- address configuration is required; it supports plug- and- play operation.



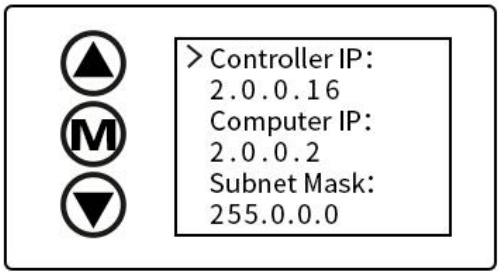
Press and hold the "MENU" button for 3 seconds to enter the main menu.



Press "UP" or "DOWN" to switch options.



Press the "MENU" button to enter the item for parameter modification. Press "MENU" to confirm the selection and exit the interface. Press and hold the "MENU" button to save the parameters. Each controller port provides independent output, with a maximum load of 680 pixels per port.



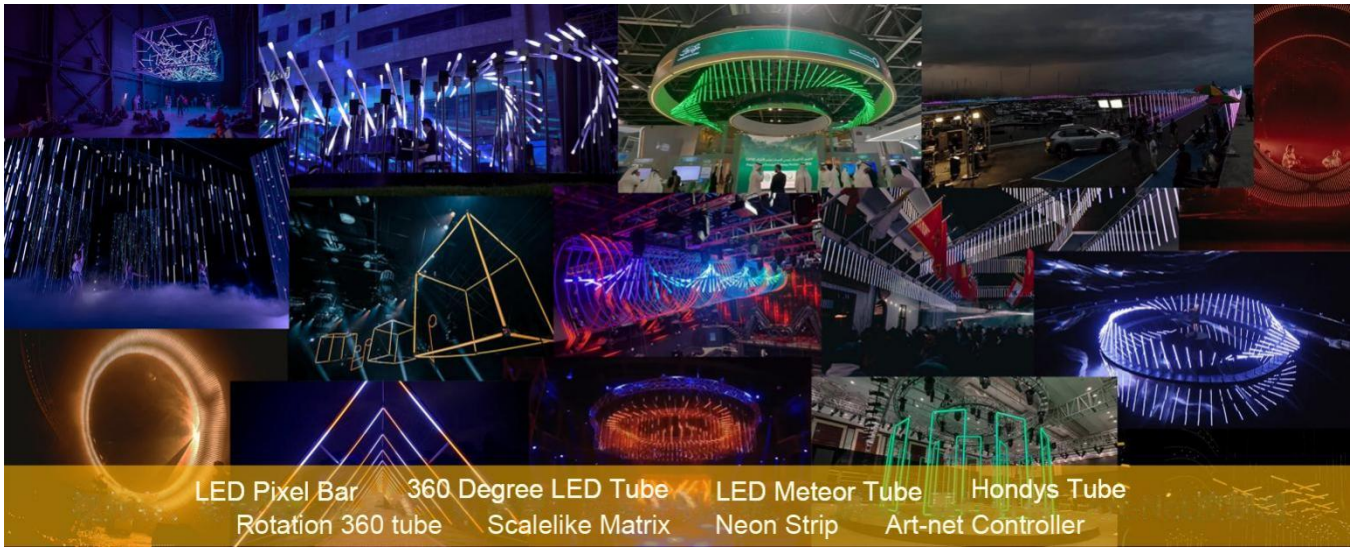
Similarly, parameters such as universe, channel, IC chip and language can also be modified.

◆ DMX Channel Table Description

Channel	Name	Figure	Instructions
1	Mode selection	000-247	Call internal 31 effects (one effect for every 8 addresses, and 0-7 for SD card effect 1)
		248-255	Switch to ART_NET mode
2	Speed	000-255	0 is the slowest speed, 255 is the fastest speed, SD card mode is valid
3	Brightness	000-255	0 is the brightness off, 255 is the brightest, SD card mode is valid
4	R- mask	000-255	Subtract red from the effect. 000 is the original effect, and 255 means subtract all red from the effect
5	G-mask	000-255	Subtract green from the effect. 000 is the original effect, and 255 is subtracting all green from the effect
6	B-mask	000-255	Subtract the blue in the effect. 000 is the original effect. 255 means subtract all the blue in the effect
7	Invalid	000-007	
	Normally on	008-015	Constant bright white, color selection by mask (brightness, mask channel available)
	stroboscopic	016-255	The higher the value, the faster the strobe (speed, brightness, mask channel is effective)

◆ Application

1. Stage performance;
2. The site of the product/press conference;
3. Concert lighting control;
4. Bar and KTV lighting control



◆ Attention

1.Pay attention to the use environment, use the controller with the port facing downwards to avoid water accumulation in the port;

2.There is high voltage inside, non-professionals should not disassemble the machine, otherwise the consequences will be at your own risk;

3.The company does not guarantee man-made damage and natural damage;

4.If any abnormality is found during use, please contact us;

5.The power supply ratings are listed in the table below;

