

INTELLECT LED

LED CCT Controller

Specification and Instructions



Product Features

- Designed for CW+WW (cool white + warm white) constant voltage LED lights. Operating voltage: DC 12–24V.
- Dual-channel output. Maximum load current: 2CH × 10A. Maximum load power:
240W at 12V
480W at 24V
- RF remote control with a range of up to 20 meters.
- Remembers the last used mode after power-off (memory function).
- Supports multiple lighting modes.
- Adjustable static color brightness: 256 levels.
- Adjustable color temperature: 256 levels.
- Adjustable speed for dynamic effects: 100 levels.
- Multiple controllers can work synchronously when connected via network cable through the RJ45 connector. The maximum cable length between two ports is 100 meters.

Technical Parameters Controller

Working temperature	-20-60°C	Supply voltage	DC12V-24V
Static power consumption	<1W	Connecting mode	common anode
Grayscale	256 levels	Speed stage	100 grade
External dimension	L91*W88*H24 mm	Packing size	L150*W92*H64mm
Net weight	250g	Gross weight	290g
Mode	7	Remote distance	Up to 20M
RF frequency	433.92Mhz	Memory function	support
Output	2 channels	Output current	≤10A(each channel)
PWM frequency	400Hz	Max. Output power	12V240W, 24V480W

Remote control

Working temperature	-20°C~60°C	Supply voltage	DC3V (AAA*2)
Standby current	<18uA	Working current	<25mA
Standby power	54uW	Working power	75mW
Net weight	65g	RF frequency	433.92Mhz
External dimension	L150*W40*H20 mm	RF distance	≤20m

Interface Specifications

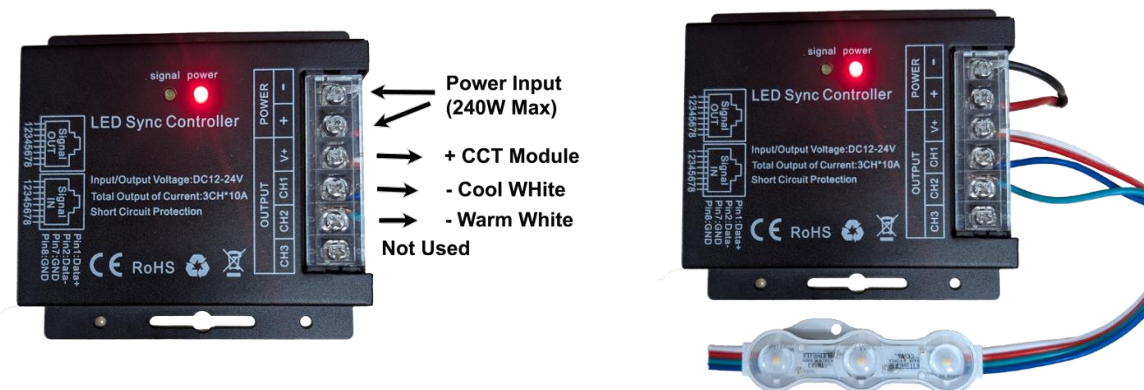


Connection :

V+→COM
CH1→Cool White
CH2→Warm White
CH3→Not used ;

Direction for initial wiring

Connect the load wire (LED Wires) first, followed by the power wire. When the signal is received, the signal light will flash.



The button functions are shown as below:

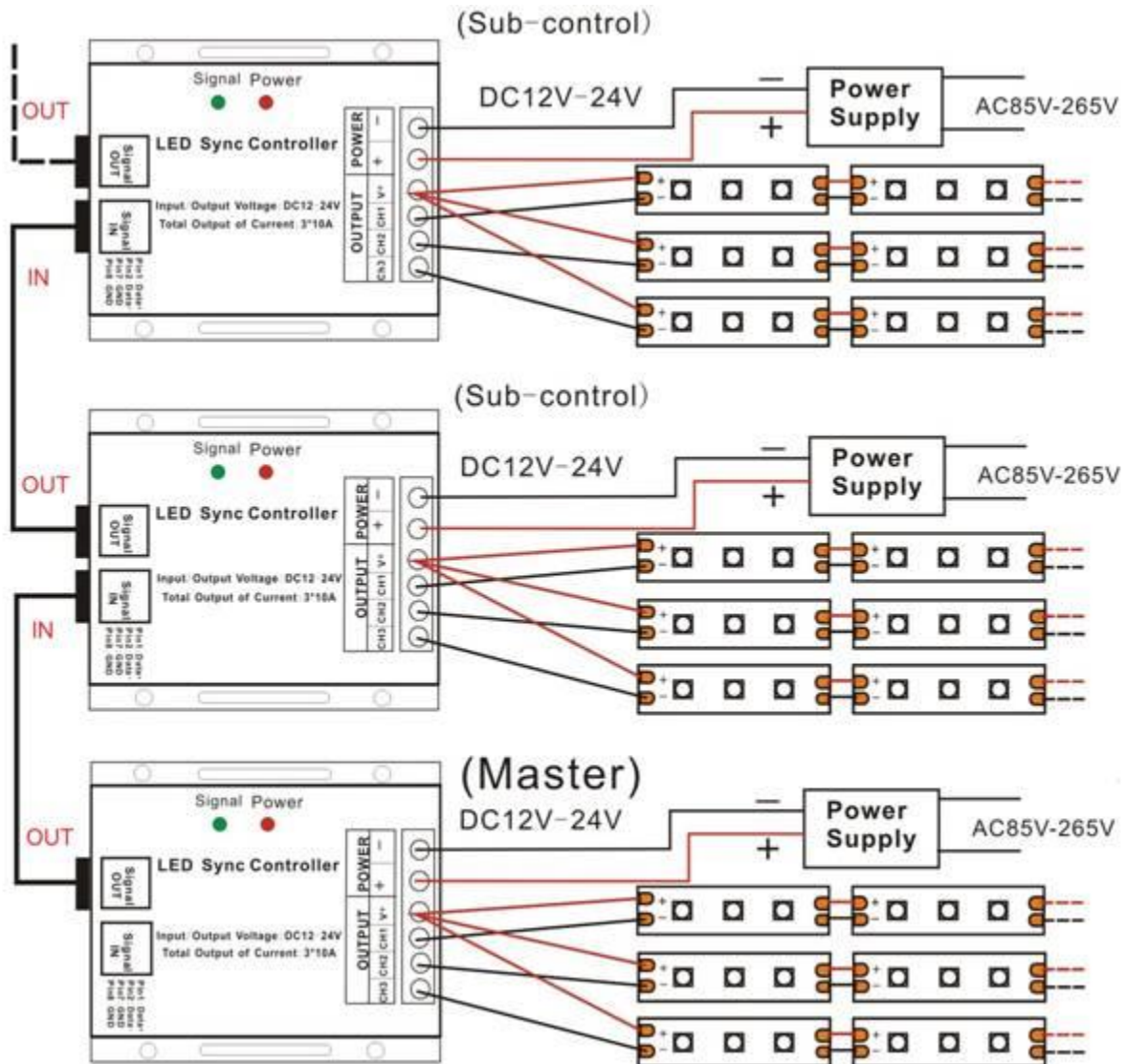


Name	Description
Set button	Controller pair mode
ON	Turn on
OFF	Turn off
Brightness +	The brightness will add 1 level. Long-press for fast adjusting.
Brightness -	The brightness will reduce 1 level. Long-press for fast adjusting.
Hot brightness key+	Balance to cool white.
Hot brightness key-	Balance to warm white.
Mode	Hot key for 3 CCT full-light: 100% CW, 100% WW, 100%CW+100%WW, and 4 dynamic modes.
Night light	Dims the led to low level.
Speed +	Add the speed of the dynamic mode.
Speed -	Reduce the speed of the dynamic mode.
Delay button	The light will be delay off in 30 seconds.

Multiple Controller Sync Application

Application Circuit : (CH1→Cool White, CH2→Warm White)

Controller to Controller connection: Use standard RJ45 cable (computer network cable)



Tips: The green signal indicator light will flash with proper communication.