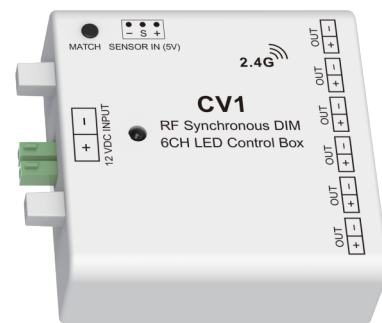# RF+Sensor Synchronous DIM 6 CH LED Control Box

Model No.: CV1

Features

- Dimming interface: RF Wireless, Sensor
- Match with RF 2.4G single zone or multiple zone dimming remote control
- Match with a variety of induction sensor head
- 12VDC Input
- 6 channel synchronous constant voltage output, Max. total output power 60W
- Ultra-thin design, light weight and high efficiency
- Light on/off fade time 3s selectable
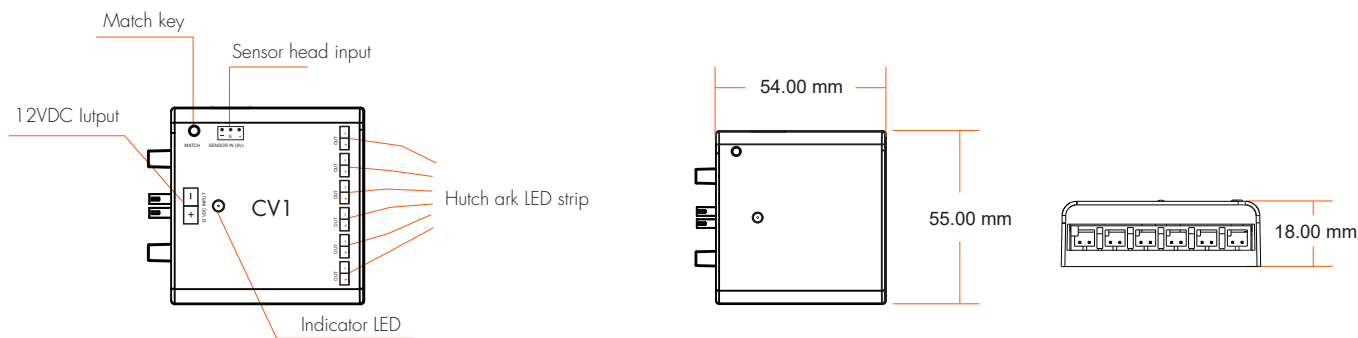- Suitable for indoor LED lighting application
- 5 Year, 50,000hr warranty

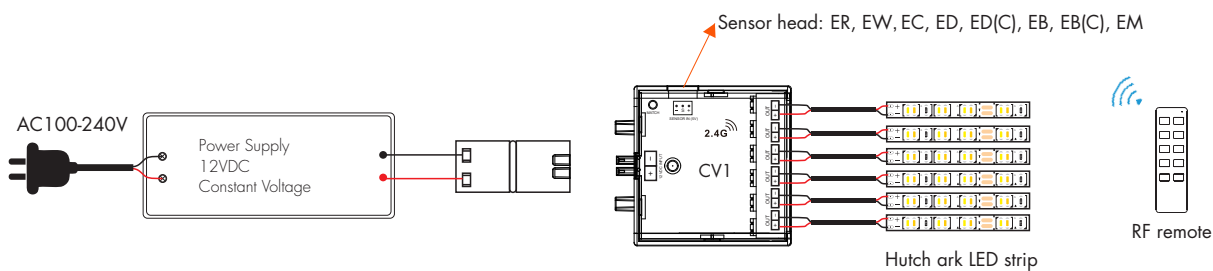## Applications

- Suitable for cabinet LED strip.

RF 2.4G 30m | PWM Digital Dimming | Sensor | Logarithmic Dimming | Synchronization | Warranty 5 years

Mechanical Structures and Installations

Match key
Sensor head input
12VDC Iutput
Hutch ark LED strip
Indicator LED
CV1

54.00 mm
55.00 mm
18.00 mm

Wiring Diagram
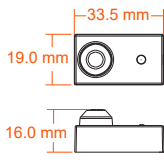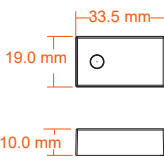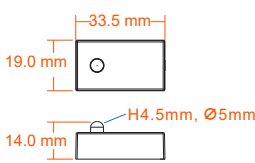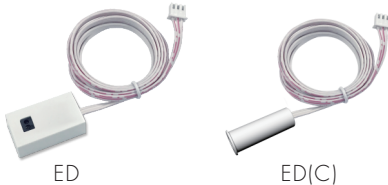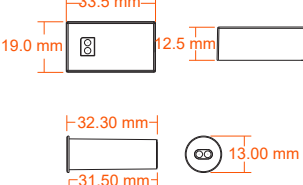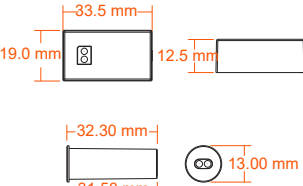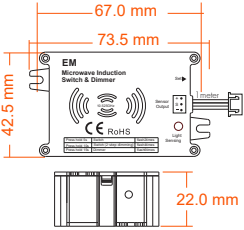
1. Use alone, powered by switching power supply

AC100-240V
Power Supply 12VDC Constant Voltage
Sensor head: ER, EW, EC, ED, ED(C), EB, EB(C), EM
CV1
Hutch ark LED strip
RF remote

2. Matching hutch ark LED driver use

AC100-240V
PBL-60-12
(Optional Accessory)
Sensor head: ER, EW, EC, ED, ED(C), EB, EB(C), EM
CV1
Hutch ark LED strip
RF remote
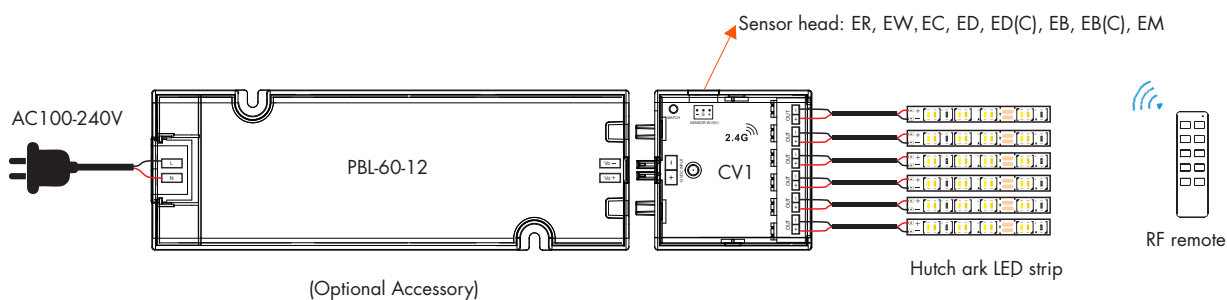
Available sensor head

Model and Product name	Features	Product pictrue	Size	Sensor data
ER PIR Motion Sensor	When people or objects enter the sensitive field, the light turn on; when these exit the sensitive field, the light turn off after 30 seconds.		33.5 mm, 19.0 mm, 16.0 mm	Sensitive field: ≤3m Sensitivity angle: 120
EW Wood Touch Sensor	The medium can be wood, glass or plastic. Short touch the sensing area to turn on or turn off light; long touch the sensing area to dimming up or down.		33.5 mm, 19.0 mm, 10.0 mm	Dimming range: 0-100% PWM Frequency: 2KHz Detective distance: ≤5cm
EC Touch Sensor	Short touch the LED to turn on or turn off light; long touch the LED to dimming up or down.		33.5 mm, 19.0 mm, H4.5mm, Ø5mm, 14.0 mm	Dimming range: 0-100% PWM Frequency: 128Hz
ED ED(C) Door Sensor	When the door open, or no obstacle ahead, the light turn on gradually; when the door close, or obstacle ahead, the light turn off gradually.	ED / ED(C)	33.5 mm, 19.0 mm, 12.5 mm, 32.30 mm, 31.50 mm, 13.00 mm	Detective distance: ≤10cm Detevtive angle: 15-30
EB EB(C) Hand Sweep Sensor	When hand sweep, the light turn on gradually; when hand sweep again, the light turn off gradually.	EB / EB(C)	33.5 mm, 19.0 mm, 12.5 mm, 32.30 mm, 31.50 mm, 13.00 mm	Detective distance: ≤8cm Detevtive angle: 15-30
EM Microwave motion Sensor	Turns on the light upon detection of motion, and turns off after a pre-selected hold time when there is no movement.		67.0 mm, 73.5 mm, 42.5 mm, 1 meter, 22.0 mm	Detection zone: Max.(DxH) 20 x 15m Detection angle: 150˚ (wall installation), 360˚ (ceilling installation) Hold time: 10s/30s/90s/3min/ 10min/20min/30min

Light on/off fade time

Long press match key 5s, then short press match key 3 times, the light on/off time will be set to 3s, the indicator light blink 3 times.

Long press match key 10s, restore factory default parameter, the light on/off time also restore to 0.5s.

Match Remote Control

The control box can match with RF 2.4G dimming remote control optional, except PIR motion sensor input.

For PIR motion sensor input, please long press the MATCH key 10s to disable the RF remote match function.

For other sensor input, please long press the Match key 5s to enable the RF remote match function.

The user can choose the suitable match/delete ways. Two options are offered for selection:

Use Match key

Match:

Short press match key, immediately press on/off key (single zone remote) or zone key (multiple zone remote) of the remote.

Delete:

Press and hold match key for 5s to delete all match, The light blinks 5 times means all matched remotes were deleted.

Use Power Restart

Match:

Switch off the power, then switch on power, repeat again.
Immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 3 times on the remote.
The light blinks 3 times means match is successful.

Delete:

Switch off the power, then switch on power, repeat again.
Immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 5 times on the remote.
The light blinks 5 times means all matched remotes were deleted.

Installation precautions
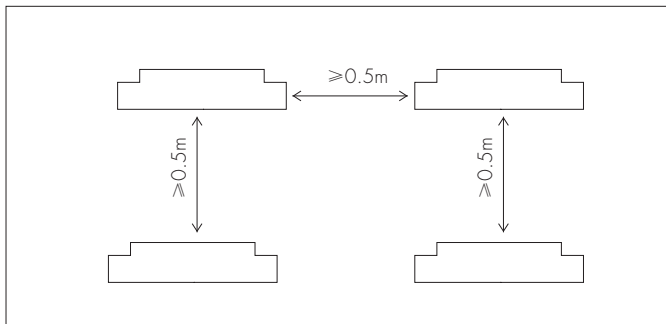
Please do not stack the products.

The distance between two products should be ≥0.5m, so as not to affect heat dissipation and lifespan of the products.

Dimming Curve
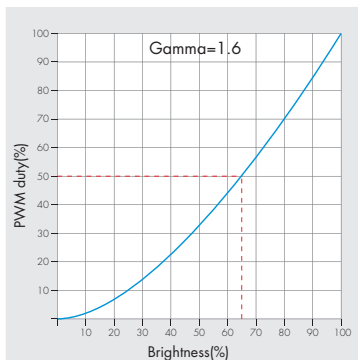
Failure analysis and troubleshooting

fault	cause	solution
The light can not be turned on	1. no power 2. Wrong wiring	1. Check the power supply 2. Connection test
Remote control nonresponse	1. run out of battery 2. Beyond remote control range 3. No matching	1. Replace the battery 2. Move the remote to controller closer 3. Match the remote to LED driver
Hiccup flashing	Overload	Check the power of the light
Controlled by other remote	Wrong pairing	Delete all pairing and pair with remote again
Multiple LED drivers are out of sync	Inconsistent fade on/off time	Set the same fade on/off time