

F3-S, F3-S(CJ), F3-S(DJ)

RGB LED Mini IR Controller

IR Remote LED Controller



F3-S

Cable In / Cable Out Version



F3-S(CJ)

Cable In / 4P Female Jack Out Version



F3-S(DJ)

DC Female Jack In / 4P Female Jack Out Version

Model List



Model	Photo	Power Connector	LED Connector
F3-S		Red/Black Cable 10cm	4-color Flat Cable 10cm
F3-S(CJ)		Red/Black Cable 10cm	4-pin Flat Female Jack
F3-S(DJ)		5.5mm DC Female Jack	4-pin Flat Female Jack

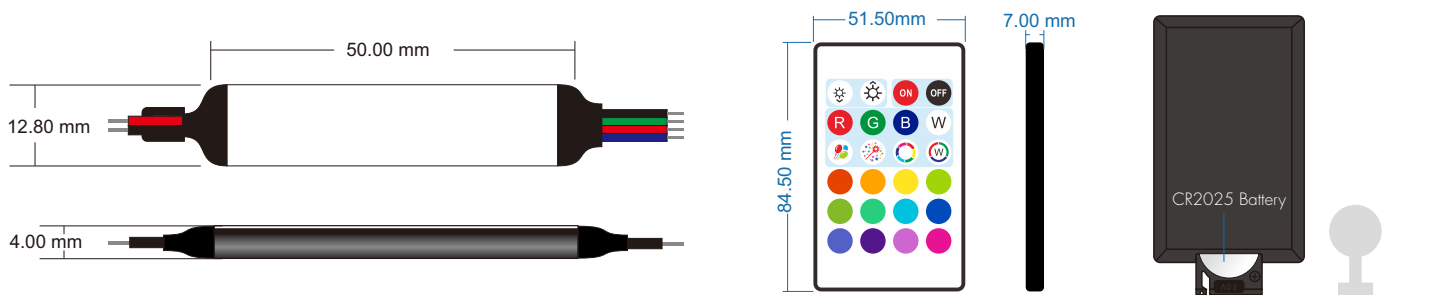
Features

- 3 channel constant voltage RGB LED mini IR controller.
- 1.5A per channel, output connect with 5 meters RGB LED strip.
- 256 levels 0-100% dimming smoothly without any flash.

Technical Parameters

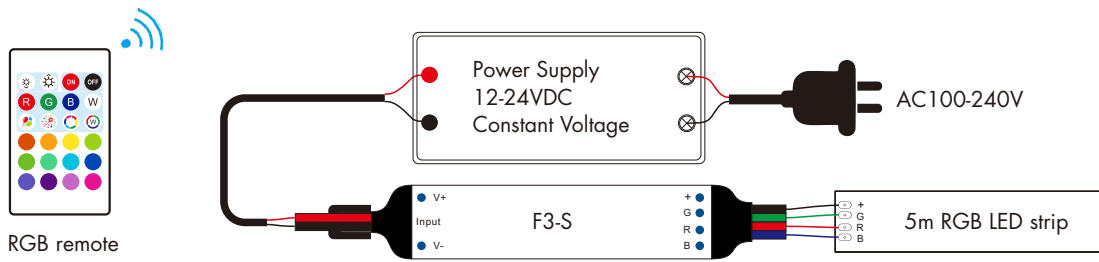
Input and Output		Dimming data		Safety and EMC	
Input voltage	12-24VDC	Input signal	IR	EMC standard	EN IEC 55015:2019+A11:2020
Output voltage	12-24VDC	Control distance	5m(Barrier-free space)		EN 61547:2009
Output current	1.5A/CH, Total Max. 4.5A	Dimming gray scale	256 levels		EN IEC 61000-3-2:2019+A1:2021
Output type	Constant voltage	Dimming range	0-100%	Certification	CE
Environment		Dimming curve	Linear	Package	
Operation temperature	Ta: -30°C ~ +55°C	PWM frequency	2000Hz (default)	Size	L90 x H130mm
Case temperature (Max.)	Tc: +85°C	Warranty and Protection		Gross weight	0.030kg
IP rating	IP20	Warranty	5 years		
		Protection	Reverse polarity, Over heat		

Dimension



Note: Before the first use, please remove the protective film on the battery.

Wiring Diagram



Key function

ON OFF — Turn on/off all zone light.

Static color, adjust brightness, short press 10 levels, long press 1-6s for continuous 256 levels adjustment. Dynamic mode, adjust speed, short press 10 levels, long press 2s get the fastest or slowest speed.

R G B — Short press get red, green or blue color directly, long press 1-6s adjust R/G/B brightness continuously to achieve millions of colors.

W — Get white color(RGB mix)directly.

Get 12 kinds static RGB color directly.

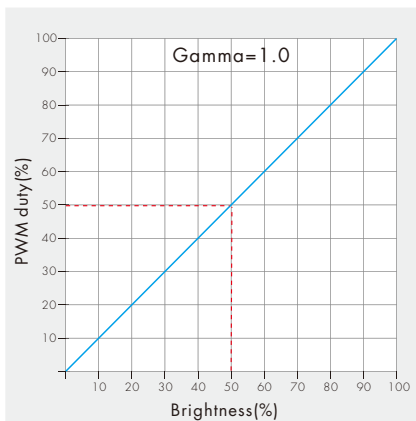
RGB jump mode

RGB fade in and out mode

6 color smooth mode

W — For static RGB light, adjust saturation, short press 5 levels, long press 1-6s for continuous 256 levels adjustment. namely change current static RGB color to mixed white slowly.

Dimming curve



Malfunctions analysis & troubleshooting

Malfunctions	Causes	Troubleshooting
No light	1. No power. 2. Wrong connection or insecure.	1. Check the power. 2. Check the connection.
Wrong color	1. Wrong connection of R/G/B wires.	1. Reconnect R/G/B wires.
No response from the remote	1. The battery has no power. 2. Beyond controllable distance.	1. Replace battery. 2. Reduce remote distance.