

RGB LED Mini IR Controller

Model No.: F3-S Set, F3-S(CJ) Set, F3-S(DJ) Set

3 channel constant voltage/Max 4.5A output/Stepless dimming/IR remote control



F3-S Set Cable In /Cable Out Version
F3-S(CJ) Set Cable In /4P Female Jack Out Version
F3-S(DJ) Set DC Female Jack In /4P Female Jack Out Version

Model List

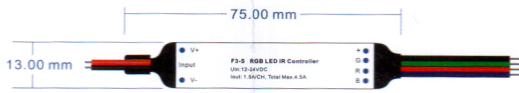
CE RoHS LVD

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

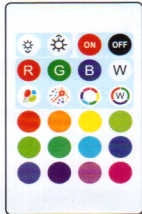
- 3 channel constant voltage RGB LED mini IR controller.
- 1.5A per channel, output connect with 5 meters RGB LED strip.
- 256 levels 0-100% dimming smoothly without any flash.

Dimension



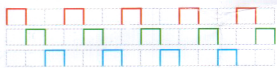
User Manual Ver 1.0.5

Key function

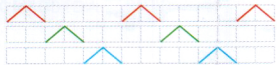


- ON OFF** — Turn on/off all zone light.
- Static color**, adjust brightness, short press 10 levels, long press 1-6s for continuous 256 levels adjustment. Dynamic mode, adjust speed, short press 10 levels, long press 2s get the fastest or slowest speed.
- R G B** — Short press get red, green or blue color directly, long press 1-6s adjust R/G/B brightness continuously to achieve millions of colors.
- W** — Get white color(RGB mix) directly.

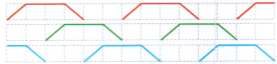
RGB jump mode



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.



User Manual Ver 1.0.5

Technical Parameters

Input and Output	
Input voltage	12-24VDC
Output voltage	12-24VDC
Output current	1.5A/CH, Total Max. 4.5A
Output type	Constant voltage

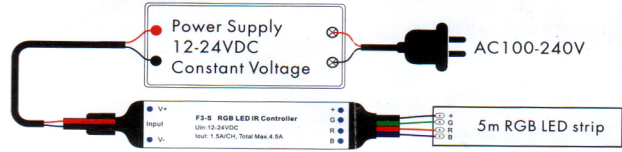
Environment	
Operation temperature	Ta: -30°C ~ +55°C
Case temperature (Max.)	Tc: +85°C
IP rating	IP20

Warranty and Protection	
Warranty	5 years
Protection	Reverse polarity Over heat

Dimming data	
Input signal	IR
Control distance	5m(Barrier-free space)
Dimming gray scale	256x256x256 levels
Dimming range	0-100%
Dimming curve	Linear
PWM Frequency	750Hz (default)

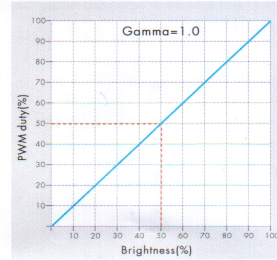
Safety and EMC	
EMC standard (EMC)	EN301 489, EN 62479
Safety standard(LVD)	EN60950
Radio Equipment(REDE)	EN300 328
Certification	CE,EMC,LVD

Wiring Diagram



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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.

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