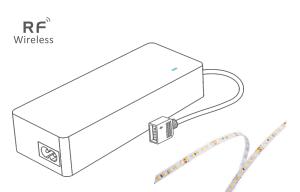


### Intelligent LED Driver

Model: ST-75-12-W1R ST-75-12-W2R ST-75-12-W3R ST-75-24-W1R ST-75-24-W2R ST-75-24-W3R



Manual









# **Product Introduction**

Xiaolei intelligent LED driver is one of products in Xiaolei Intelligent Lighting System. It is suitable for home lighting, enable to adjust the color of light and stepless dimming without flicker. It also supports a variety of control modes: when equipped with a gateway, APP control, intelligent audio voice control, scene control, timing control can be realized. Also can be controlled by remote and wireless dimmer panel, which meets the application of different scenes to make life more intelligent.

### **Product Features**

- Wireless signal: RF 2.4GHz.
- Controlled by wireless panel, remote and intelligent gateway via RF signal.
- Controlled by mobile phone.
- Multiple driver's effect synchronization can be achieved.
- Dimming range from 0-100%, LED start at 0.1% possible.
- 0~100% flicker-free, achieve the level of exemption assessment.
- Active PFC function.
- 100~240Vac wide voltage input.
- Over-heat / Over voltage / Over load / Short circuit protection, recover automatically.
- Class 2 power supply. Full protective plastic housing.
- Compliant with Safety Extra Low Voltage standard.
- Suitable for indoor application for I / Ⅲ / Ⅲ .
- 2 years warranty.

### Accessories









LED strip wiring cable 1pcs Power cord 1pcs Technical brochure 1pcs

#### **Product Size**

Unit: mm



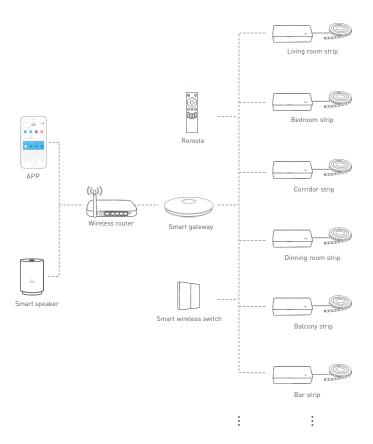


### **Product Parameters**

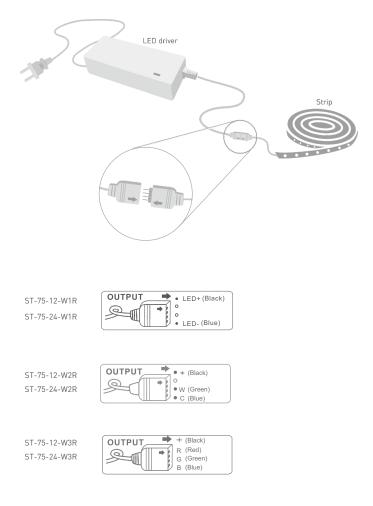
Model		ST-75-12-W1R	ST-75-12-W2R	ST-75-12-W3R	
оитрит	Туре	Dimming	Color temperature	RGB	
	Output Voltage	12Vdc			
	Output Current	5A	2.5A×2CH	1.67A×3CH	
	Output Power	Max. 60W			
	Strobe Level	High frequency exemption level.			
	Dimming Range	0~100%, 0.1% dimming depth.			
	Overload Power Limitation	≥102%			
	Ripple & Noise	≤200mV			
	PWM Dimming Frequency	3600Hz			
INPUT	Wireless Frequency	RF 2.4GHz			
	Input Voltage	100-240Vac			
	Frequency	50/60Hz			
	Input Current	Max. 0.77A			
	Power Factor	PF>0.99/115Vac PF>0.95/230Vac, at full load			
	THD	115Vac@THD≤9% 230Vac@THD≤17%			
	Efficiency(typ.)	91%			
	Inrush Current(typ.)	Cold start 40A at 230Vac			
	Anti Surge	L-N: 1KV			
	Leakage Current	Max. 0.5mA			
ENVIRONMENT	Working Humidity	20 ~ 95%RH, non-condensing			
	Storage Temp., Humidity	-40°C ~ 80°C, 10~95%RH			
	Vibration	10~500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axe			
	Over-heat Protection	Intelligently adjusting or turning off the output current if the PCB temperature ≥110°C, auto recovers.			
PROTECTION	Over Voltage Protection	Shut down the output when non-load voltage≥13V, auto recovers.			
	Over Load Protection	Shut down the output when power load≥102%, auto recovers.			
	Short Circuit Protection	Enter hiccup mode if short circuit occurs, auto recovers.			
	Withstand Voltage	I/P-0/P: 3750Vac			
	Isolation Resistance	I/P-0/P: 100MΩ/500VDC/25°C/70%RH			
SAFETY & EMC	Safety Standards	UL8750, IEC/EN61347-1, IEC/EN61347-2-13			
	EMC Emission	EN55015, EN61000-3-2 Class C, IEC61000-3-3			
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11 EN61547			
	Strobe Test Standard	IEEE-PAR 1789			
OTHERS	Dimension	L143×W58×H32(mm)			
	Packing	L168×W123×H35(mm)			
	Weight(G.W.)	430g			

Model		ST-75-24-W1R	ST-75-24-W2R	ST-75-24-W3R	
ОИТРИТ	Туре	Dimming	Color temperature	RGB	
	Output Voltage	24Vdc			
	Output Current	3.125A	1.56A×2CH	1.04A×3CH	
	Output Power	Max. 75W	<u>'</u>		
	Strobe Level	High frequency exemption level.			
	Dimming Range	0~100%, 0.1% dimming depth.			
	Overload Power Limitation	≥102%			
	Ripple & Noise	≤300mV			
	PWM Dimming Frequency	3600Hz			
INPUT	Wireless Frequency	RF 2.4GHz			
	Input Voltage	100-240Vac			
	Frequency	50/60Hz			
	Input Current	Max. 0.95A			
	Power Factor	PF>0.99/115Vac PF>0.95/230Vac, at full load			
	THD	115Vac@THD≤8% 230Vac@THD≤15%			
	Efficiency(typ.)	91%			
	Inrush Current(typ.)	Cold start 40A at 230Vac			
	Anti Surge	L-N: 1KV			
	Leakage Current	Max. 0.5mA			
ENVIRONMENT	Working Humidity	20 ~ 95%RH, non-condensing			
	Storage Temp., Humidity	-40°C ~ 80°C, 10~95%RH			
	Vibration	10~500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes			
PROTECTION	Over-heat Protection	Intelligently adjusting or turning off the output current if the PCB temperature ≥110°C, auto recovers.			
	Over Voltage Protection	Shut down the output when non-load voltage≥26V, auto recovers.			
	Over Load Protection	Shut down the output when power load≥102%, auto recovers.			
	Short Circuit Protection	Enter hiccup mode if short circuit occurs, auto recovers.			
SAFETY & EMC	Withstand Voltage	I/P-0/P: 3750Vac			
	Isolation Resistance	I/P-0/P: 100MΩ/500VDC/25°C/70%RH			
	Safety Standards	UL8750, IEC/EN61347-1, IEC/EN61347-2-13			
	EMC Emission	EN55015, EN61000-3-2 Class C, IEC61000-3-3			
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11 EN61547			
	Strobe Test Standard	IEEE-PAR 1789			
OTHERS	Dimension	L143×W58×H32(mm)			
	Packing	L168×W123×H35(mm)			
	Weight(G.W.)	430g			

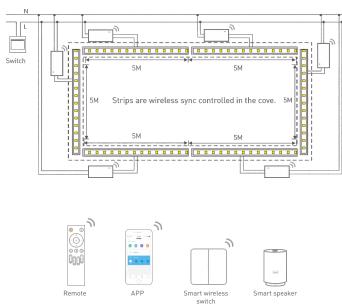
## System Diagram



### Wiring



## Multiple Products Applications



It is recommended that same zone lamps connect with the same circuit, when the lamps match up with the remotes, smart phone, smart wireless switch or smart speaker, the simultaneous switch and dimming can be achieved, which can solve complex wiring, and installation problems.

### Operation Method

This product can be used with remote, gateway, smart wireless switch, etc. For the specific operation method, please refer to the instruction manual of the relevant product.



# **About Wire**

Please use above no. 22 wire to connect this product.

### Attention

Thank you for purchasing Xiaolei products. In order to prevent lamp damage and personal safety accidents, please install and use in accordance with the instructions strictly.

- Power supplies that exceed the rated voltage range cannot be used.
- Do not install lamps above high temperature objects or in damp places. Do not install lamps in places with metal shielding to avoid affecting signal reception.
- When inspecting and repairing lamps, please entrust electrical professionals to operate.
- · Please don't open, alter, repair or maintenance the remote, or it will not be guaranteed.
- Electronic parts warranty for two years from the date of purchase



RISK OF ELECTRIC SHOCK. DO NOT OPEN.

Do not use in high temperature environments. Long-term use in such environments will affect the lifespan. No covers on the surface when in use.



CAUTION

Indoor use only For use with LED lighting only.