

Parameters

Electrical Parameters:

Working power	5V DC (From USB)
Working current	20mA
IR emission carrier frequency	38KHz
IR Control distance (channel 1)	5m
Indoor communication distance	<=30m (Barrier free)
RSSI Received Signal Strength Indication	>-80dbm
RSSI	>-80dbm

Frequency allocation:

China (WPAN)	780MHz to 786MHz
Europe (SRD)	864MHz to 870MHz
North America (ISM)	904MHz to 928MHz
Default PSK	Piero-SecurityKeyO

Environmental Conditions:

Working temperature	-5°~45°C
Working relative humidity	Up to 90%
Storage temperature	-20°~+60°C
Storage relative humidity	Up to 93%

Approved:

CE, RoHS

Product Information:

Dimensions	Ø120x37mm
Net weight	125g
Housing material	PC
Installation	Desk or hanging
Protection rating	IP20
Battery	LIR2032 3.6V

Installation Steps

- Installation, Desk or hanging, Can be placed near the equipment, connection installed with IR probe, also can be hanging on the wall or roof.

Overview



W-IR1 Wireless IR Emitter, adopt Piero wireless communication way, download IR codes are saved in database or that learning by IR learner via PieroNet programming software, such as to control the IR equipments such as AC, TV, Fan and so on.

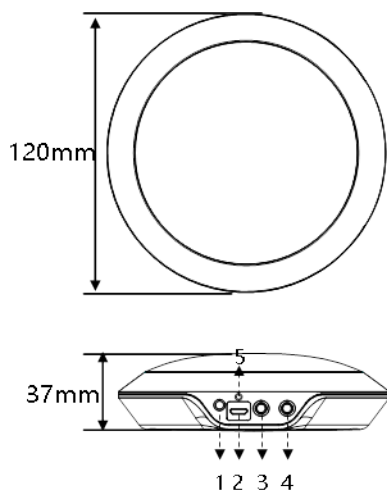
Functions

- Drive the LED transmitting tube directly
- 3 IR emission channels
- Supports 10 devices and 100 learning IR codes.
- Temperature detect and broadcasting functions
- Build in time chip, time and clock function
- Supports IEEE.802.15.4
- Supports online upgrading
- Supports easy programming

Important Notes

- IR Emitter cable, the length is 1.5m, interface is 3.5mm, and it should be next to the control target
- Temperature probe-10Kohm
- It should be worked with the mesh gateway
- Its subnet ID should be same as mesh gateway ID
- Avoid to be next to the large area of metal

Dimmensions and Wiring



1. Programming button: If it is working fine, the top LED light will flash green. Press the button 3 times continuously, it will turn red and flash quickly, it means that it enters the setup mode (The mesh gateway should enter the setup mode too, later you can set the configuration.)

2. Power input: From USB

3. IR channel 3, connect to IR emitter cable.

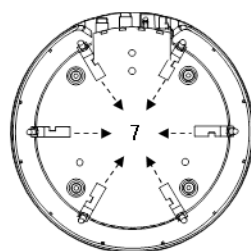
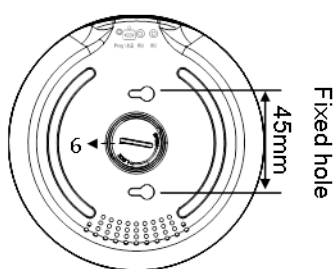
4. IR channel 2, connect to IR emitter cable.

5. Temperature probe.

6. Battery: LIR2032 3.6V, provide the power to the time chip.

7. IR channel 1, total 6 IR LED, control up to 360 degrees.

Fixed hole: when you want to use hanging way for installation, you need to use it to fix the device. The spacing is 45mm.



Inside view

Safety Precautions



- Ensure good ventilation
- Do not connect the module to AC power.
- Do not let the module come into contact with hazardous liquids or corrosive gases.

Package Contents

- Wireless IR Emitterx1
- USB Cable x1
- IR probe x2
- Datasheetx1