RAPTORTRON · USER MANUAL · INFRARED DEVICE

IR W

Installation, connection and safety instructions for the IR W wireless infrared blaster that replaces the remote controls of air conditioners, TVs and fans.



User manual · English edition

01 Product overview



IR W infrared blaster.

Wireless infrared blaster that replaces the remote controls of air conditioners, TVs, fans and other IR devices.

ITEM	DETAIL
Model	IR W
Category	Infrared device

02 Features

1. Wireless infrared blaster designed to replace the conventional remote controls of air conditioners, TVs, fans and other devices that use infrared signals.
2. Built-in Raptortron Mesh wireless connection to link with the central control system.
3. Remote control and monitoring through the Raptortron mobile app.
4. Precise operating schedules and automation scenarios can be set for air conditioners, multimedia equipment and other infrared-controlled devices.

03 Technical specifications

01 Design & dimensions

SPECIFICATION	VALUE
Housing colour	White
Housing material	Flame-retardant PC + ABS plastic
Dimensions	75mm x 25mm

02 Infrared characteristics

SPECIFICATION	VALUE
IR data length	50~1000 pulses / 30 commands per channel, carrier frequency 38kHz
IR emitter	4 integrated channels, multi-directional transmission

03 Control interface

SPECIFICATION	VALUE
Control type	Infrared (IR) signal command emulation
Control interface	1 setup/reset button

04 Power

SPECIFICATION	VALUE
Input voltage	5VDC - 1A
Standby power consumption	< 1W

05 Wireless connectivity

SPECIFICATION	VALUE
Wireless communication	Raptortron Mesh
Wireless range	100m open air / 30m indoor

06 Indicators & alerts

SPECIFICATION	VALUE
Audible alert	Buzzer

04 Installation guide

In the box

- Infrared controller
- USB power cable / adapter
- 3M adhesive pad / stand
- Quick guide & warranty card

Installation steps

1. **Choose the location.** Place the device in a central position with a direct line of sight to all the devices to be controlled by infrared.
2. **Connect the power.** Plug the USB cable into a 5V DC adapter or a USB port. The LED lights up to confirm that power is supplied.
3. **Wait for start-up.** Wait 10–15 seconds for the device to enter standby. The LED changes to slow blinking when it is ready to pair.
4. **Learn remote commands.** In the Raptortron app, select the target device and tap Learn command; point the original remote at the Raptortron device and press the corresponding key.

05 Connection guide

Preparation

- Raptortron smart switch
- 1 central hub with an Internet connection
- Raptortron app already connected to the central controller (make sure the phone and the central controller are on the same Internet network)

Download the Raptortron app for Android or iOS.

In the Raptortron app: auto learn

1. **Tap.** Open the Raptortron app, tap the "Menu" icon at the top of the screen, then select "Devices".
2. **Tap.** Tap the "Auto learn" icon.
3. **Tap.** When the "Auto learn" dialog appears, tick the "I have understood and agree" box, then tap **"OK"** to confirm.
4. The system starts a 60-second countdown to scan automatically and complete the device connection.

In the Raptortron app: manual learn

1. Open the "Menu" in the app, then go to "Devices".
2. **Press and hold.** Press and hold the icon of the device that you want to re-learn or replace.
3. In the list of options that appears, select "Manual learn".
4. **Tap.** When the "Manual learn" dialog appears, tap the "Learn" button. The dialog shows the Device code and the Serial number of the device.
5. The app counts down 60 seconds to finish synchronising and remembering the new device.

Teaching the device ID to the central controller

Do this on the device while the app is counting down.

1. **Press and hold.** Press and hold the device to enter the MENU. Release the button after you hear 2 beeps.
2. **Press.** Press the device button to teach the ID.

Result

- **If successful:** the device exits automatically once the ID is taught.
- **If it fails:** you keep hearing beeps. Press the control button on the infrared device to try teaching the ID again.

Important

- Auto learn fails if the number of devices exceeds the capacity limit of the central controller.
- In that case, see the Technical specifications of the central controller for the number of devices allowed, or switch to the manual learn method.

06 Safety notes

! Use only a power supply that matches the technical specifications in this document. Using the wrong power supply can damage the device and be dangerous.

! Do not open or repair the device while it is powered. All electrical wiring must be done by a qualified electrician.

! Keep the device in a dry place, away from direct water splashes (except models explicitly rated as water-resistant, IP xx).

! The product is covered by the official Raptortron warranty policy. Please keep your purchase invoice for the best support.

English edition translated in full from the manufacturer's original manual. Specifications are subject to change; current data: https://raptortron.com/product-ir-w.html. Online version: https://raptortron.com/manuals/ir-w/