RAPTORTRON · USER MANUAL · SMART SWITCH

DR2 REC

Installation, wiring, pairing and safety instructions for the DR2 REC smart switch with 2 ON/OFF channels and 1 dimmer channel.



User manual · English edition

01 Product overview



DR2 REC smart combination switch.

Combination switch with 2 ON/OFF channels + 1 dimmer channel, an OLED display and 4 scene-activation keys.

ITEM	DETAIL
Model	DR2 REC
Category	Smart switch

02 Features

1. An integrated smart switch designed to replace conventional switches, controlling standard ON/OFF loads and dimmable lighting at the same time.
2. Direct hardware control with 2 independent ON/OFF relay outputs and 1 Triac dimmer channel.
3. Built-in Raptortron Mesh network for connection to the smart home system.
4. Remote configuration and control through the Raptortron mobile app.
5. Comprehensive operating schedules can be set for all connected circuits.
6. Equipped with 4 dedicated scene-activation keys, linked to the Raptortron central controller.

03 Technical specifications

01 Design & dimensions

SPECIFICATION	VALUE
Glass colour	Black / White
Bezel colour	Silver / Gold
Dimensions	72mm x 125mm x 30mm (REC)
Compatible flush box	50mm x 100mm

02 Control interface

SPECIFICATION	VALUE
Control interface	6 capacitive touch keys
Display	0.96 inch monochrome OLED display
On-device control configuration	2 ON/OFF channels + 1 Dimmer channel + 4 central scenes

03 Control type

SPECIFICATION	VALUE
Control type	2 ON/OFF relay channels + 1 Triac Dimmer channel

04 Power & load

SPECIFICATION	VALUE
Input voltage	80 VAC ~ 240VAC / 50~60Hz
Resistive load rating	5A/Relay channel; 300W/Dimmer channel
LED load rating	150W/Relay channel; 150W/Dimmer channel
Maximum inrush current	10A/Relay channel; 5A/Dimmer channel
Standby power consumption	< 1W
Protective fuse	20A

05 Wireless connectivity

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

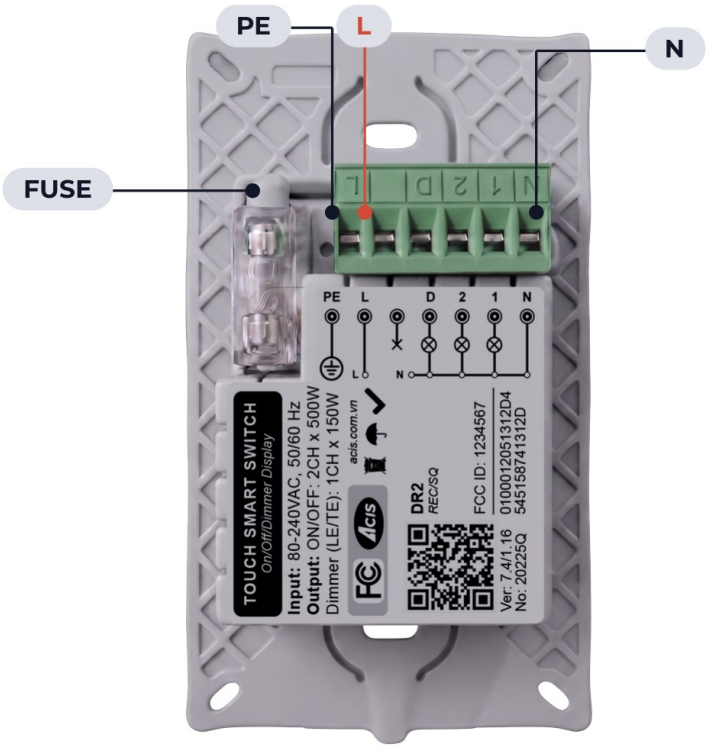
06 Indicators & alerts

SPECIFICATION	VALUE
Status indicator LED	Blue
Night locator light	Yes
Audible alert	Yes

04 Installation guide



Front view. Keys 1 to 6; plate 72 mm x 125 mm.



Wiring diagram (rear view of the switch body).

Diagram legend

MARK	MEANING
1	ON/OFF Channel 1
2	Brightness up, Dimmer
3	ON/OFF Channel 2
4	Brightness down, Dimmer
5	Menu key
6	Back key
FUSE	Protective fuse: breaks the circuit when the current exceeds the safe limit.
PE	Protective Earth: safety conductor that connects the device housing to earth (ground).
L	Live: the hot conductor that supplies power to the device.
N	Neutral: the return-current conductor.

In the box

- Smart switch body
- Touch glass panel with bezel
- 2 wall screws
- Quick guide & warranty card

Installation steps

1. **Switch off the power.** Turn off the main circuit breaker for the area where the switch is installed. Use a voltage tester to confirm that there is no power at the switch location.
2. **Connect the wires.** Connect the L (Live) and N (Neutral) wires to the matching terminals on the switch body. For a switch that controls loads: connect the load wire (L-out) to the device. For a curtain switch: connect the 2 dry contacts (NO) to the Open/Close motor.
3. **Mount in the flush box.** Place the switch body in the 75×75mm flush box and tighten the 2 screws evenly; make sure the face sits flat against the wall.
4. **Fit the glass panel.** Align the touch glass panel with the body and press all 4 corners evenly until it clicks into place; fit the decorative bezel on the outside.
5. **Restore power.** Switch the circuit breaker back on. The indicator LED lights up and the device enters standby, waiting to be connected.

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.

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.

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 **key '5'** to enter the MENU.
2. **Press.** Press **key 1** to teach the ID. Make sure the MCE is in ID-teaching mode.



Key positions.

Result

- If the ID is taught successfully: the device exits automatically.
- If ID teaching fails: press key 1 to try again, or press key 6 to exit.

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-dr2.html. Online version: https://raptortron.com/manuals/dr2-rec/