

Universal Electronic Dual Dimmer

RNDU-252 (Dual Dimmer)

RIDU-252 (Dual Dimmer with IR Receiver)

Rated at: 220–240 V~ 50/60 Hz 50–250 W/VA per Dimmer

Compatible Load Types:

Incandescent/Halogen 240 V~ Magnetic and Electronic Low-Voltage



Infrared Wireless Transmitter

RID-REMOT: 3 V⁻⁻⁻ 420 mW

Important Notes

Please read before installing.

- The Dual Dimmer does not require an earth wire. Follow the local and national wiring codes to terminate the earth wire in your backbox.
- The Dual Dimmer cannot be used to replace a dual switch controlling light fixtures that are on different circuits – e.g., upstairs/downstairs.** Verify that this is not the case before installing the Dual Dimmer by confirming that all lights to be controlled no longer function when **one** MCB is turned off (or **one** fuse is removed).
- To avoid overheating and possible damage to other equipment, do not use to control receptacles, fluorescent lighting fixtures, motor-operated or transformer-supplied appliances.**
- For new installations, test the circuit with a conventional switch before installing the Dual Dimmer.
- Turn OFF MCB or remove fuse before performing any installation work or maintenance of lighting circuit. Ensure that it is not possible for another person to restore power while you are working.
- Install in accordance with all national and local electrical codes.
- This Dimmer complies with IEC and EN60669-2-1.
- Do not paint Dual Dimmer or Accessory Dimmers.
- Protect Dual Dimmer from dust and dirt when painting or during construction.
- Accessory Dimmers (extension units) are available to enable multi-way switching and dimming at a possible nine other locations. Contact Lutron® for details.
- It is possible to use the Dual Dimmer with existing 2-way switches **for remote on/off switching only**. Connection and configuration details can be found at www.lutron.com/rania. Note that dimming control is only possible from a remote location using the RDSU, RDDU, or RDEU Accessory Dimmer.
- Maximum wire length between the Dual Dimmer and the furthest Accessory Dimmer is 50 m.
- Operate between 0 °C and 40 °C. For indoor use only.
- It is normal for the Dual Dimmer to feel warm to the touch during operation.
- The Dual Dimmer requires a minimum total wattage of 50 W / VA on each circuit. Do not exceed the maximum rating of 250 W / VA per dimmed circuit.
- This Dual Dimmer is overload protected. If the rated wattage is exceeded, power to the load will shut off until the Dual Dimmer cools. If this occurs, reduce the wattage connected to the Dual Dimmer.
- Recommended backbox depth is 35 mm.
- Maximum torque for terminal screws is 0,5 N•m. Recommended torque for mounting screws is 0,2 N•m.
- Clean with a soft damp cloth only. **DO NOT** use any chemical cleaners.
- Use fully loaded electronic or magnetic low-voltage transformers for best performance.
- DO NOT** mix magnetic and electronic low-voltage transformers on the same dimmed circuit.
- Dimmer may not work with dioded lamps.
- Use only magnetic low-voltage transformers with built-in thermal protection.
- For use with compatible electronic low-voltage loads. For an up to date list of compatible transformers, see our web site at www.lutron.com/rania/elv.

Limited Warranty

Lutron EA Ltd. ("Lutron EA") warrants each unit to be free from defects in material and workmanship and to perform under normal use and service. To the extent permitted by law, Lutron EA and Lutron Electronics Co. Inc. ("Lutron") make no warranties or representations as to the units except as set forth herein. This warranty shall run for a period of two years from the date of purchase and Lutron's obligations under this warranty are limited to remedying any defect, replacing any defective part or replacement (at Lutron EA's sole option) and shall be effective only if the defective unit is shipped to Lutron EA postage prepaid within 24 months after purchase of the unit. Repair or replacement of the unit does not affect the expiry date of the warranty. This warranty does not cover damage or deficiencies due to abuse, misuse, inadequate wiring or insulation or use or installation other than in accordance with instructions accompanying the unit. To the extent permitted by law, neither Lutron EA nor Lutron shall be liable for any other loss or damage including consequential or special loss or damages, loss of profits, loss of income, or loss of contracts arising out of or relating to the supply of the unit or the use of the unit and the purchaser assumes and will hold harmless Lutron EA and Lutron in respect of all such loss or damage. Nothing in this warranty shall have the effect of limiting or excluding Lutron EA's or Lutron's liability for fraud or for death or personal injury resulting from its own negligence, or any other liability, if and to the extent that the same may not be limited or excluded as a matter of law. **This warranty does not affect the statutory rights of consumer purchasers of this product.** Although every attempt is made to ensure that catalogue information is accurate and up-to-date, please check with Lutron EA before specifying or purchasing this equipment to confirm availability, exact specifications, and suitability for your application. These products may be covered under one or more of the following European patents: 0587878; 0876741; 1145603; and the following European design registration: 000315136-0001; and corresponding patents and design registrations of other countries. Patents pending. Lutron is a registered trademark in the United Kingdom and the Community Trademark System and Rania is a registered trademark of CTM and U.S.A. © 2009 Lutron Electronics Co., Inc.

LUTRON®

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Made and printed in the U.S.A. 2/09 P/N 030-891-12 Rev. C

Operation

Models: RNDU-252, RIDU-252

For the RIDU model Dual Dimmer, use *Lutron* infrared hand-held remote controls for programming and recalling lighting scenes, remote dimming, and switching from the palm of your hand.

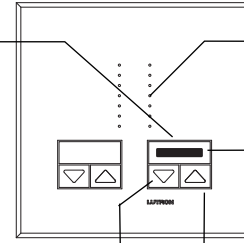
Tap Button

Basic Operation

- Tap once when unit is Off: Lights brighten smoothly to preset intensity.
- Tap once when unit is On: Lights dim smoothly to off.
- Tap twice quickly: Lights brighten rapidly to full intensity.

Advanced Operation

Fade to off: Press and hold to activate delayed fade to off. As tap button is held, LEDs will begin to flash. The first flashing LED represents a 10 second fade to off. Each additional flashing LED represents an additional 10 seconds of delay before lights fade to off (up to 60 seconds).



LEDs

Indicate light level or glow softly when unit is Off.

Infrared Receiver
(RIDU model only).

Lower
Press to dim.

Raise
Press to brighten.

Models: RID-REMOT

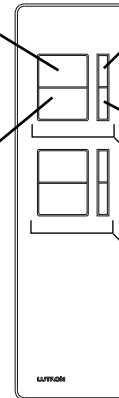
For use with RIDU model Dual Dimmer. Point the transmitter at the *Rania* Dual Dimmer, then use the buttons as outlined below.

One Touch Button:

To recall a favourite light level. To store a favourite level, press and hold for 3 seconds until the LED begins to flash. (Off is a valid preset.)

Off:

Tap once:
3 seconds fade to off.
Press and hold:
10–60 seconds delayed fade to off.



Brighten:

Press to brighten lights.

Dim:

Press to dim lights.

Right Side Dimmer

Left Side Dimmer

This transmitter is compatible with most learning remote controls. Please see the learning remote control manufacturer's instructions for programming information.

Advanced Programming

The *Rania* Dimmer allows a number of advanced features to be accessed. These include:

- Locked-in Preset:** Sets the level that the lights always turn on to.
- Fade to On time:** Sets the rate at which the Dimmer switches On.
- Fade to Off time:** Sets the rate at which the Dimmer switches Off.

For details on the Advanced Programming options, visit

www.lutron.com/techInfo/InstallGuides/AdvancedProgramming.pdf or call +44.(0)20.7702.0657

Problems

If the Dimmer does not work, check that the light bulb has not burned out before contacting **Lutron Technical Assistance**.

Technical Assistance

For questions concerning the installation or operation of this product, call **Lutron Headquarters**. Please provide exact model number when calling.

Lutron EA LTD

Tel: +44.(0)20.7702.0657

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www.lutron.com/europe

Freephone:

U.K.: 0800.282.107

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France: 0800.90.12.18

Germany: 00800.5887.6635

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Southern China: 10.800.120.1536

Macau: 0800.401

Hong Kong: 800.901.849

Singapore: 800.120.4491

Taiwan: 00.801.137.737

Thailand: 001.800.120.665853

Indonesia: 001.803.011.3994

Lutron GL LTD

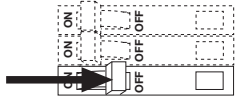
Tel: +65.6220.4666

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www.lutron.com/asia

Installation

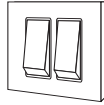
1 Turn Power OFF at MCB (Circuit Breaker) or Remove Fuse



WARNING: Verify power to each switch is OFF before proceeding. Failing to do so could cause death or serious injury.

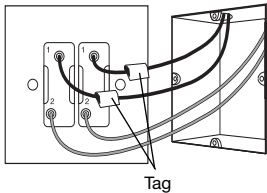
2 Remove the Switch Mounting Screws and Remove the Switches from the Wall

Note: DO NOT disconnect wires from the switches at this time.



3 Tag the Wire(s)

Single-Location Control



One switch controlling one light fixture, the other switch controlling another light fixture. Each switch will be a 1-way switch. Each switch will have insulated wires connected to two terminals. **Tag** the wire(s) connected to a terminal labeled 1 or COMMON for identification during rewiring.

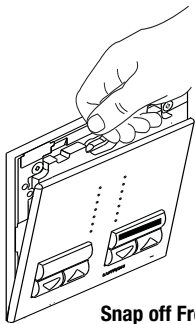
Note: Terminal placement may be different on your switch.

Important Note:

Your wall switch may have two wires attached to the same screw. Tape these two wires together before disconnecting, and connect them to the same terminal when rewiring.

4 Disconnect the Switch Wires

5 Prepare the Dual Dimmer for Installation

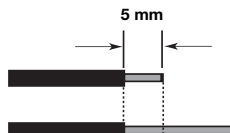


Snap off Front Plate
Grab front plate on top and pull forward.

6 Wire the Dual Dimmers

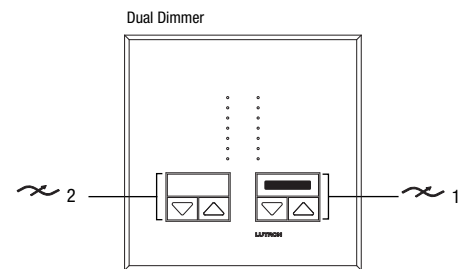
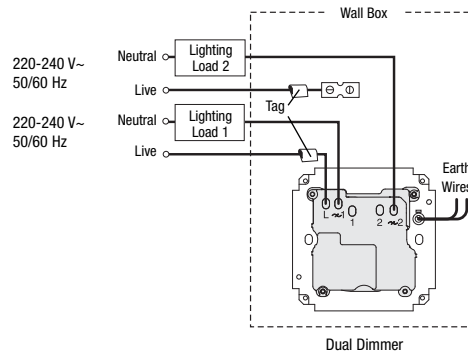
Important Wiring Information

Trim or strip backbox wires to 5 mm. Insert wires fully into the terminals and tighten screws.

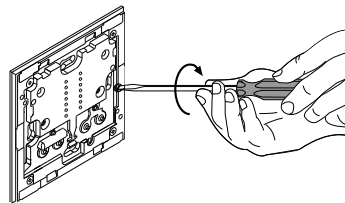


Single-Location Wiring

- Connect one of the tagged wires, disconnected from the removed switch, to terminal L.
- Leave the other tagged wire unconnected. Ensure that that wire is properly insulated; e.g., use an insulated terminal block.
- Connect one of the remaining wires, disconnected from the removed switch, to the \sim 1 terminal (right Dimmer).
- Connect the last remaining wire, disconnected from the removed switch, to the \sim 2 terminal (left Dimmer).



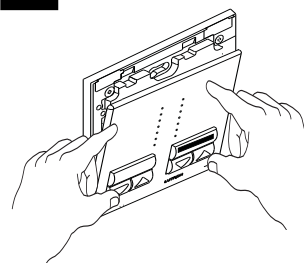
7 Mount and Align the Dual Dimmer



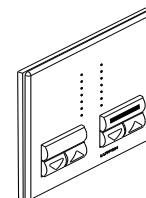
Secure the Dual Dimmer to the backbox using the backbox screws.

Note: Do not pinch wires. Permanent damage can be caused by overtightening the terminal screws.

8 Snap on the Front Plate



Engage the Front Plate with the notches on the bottom of the Dual Dimmer. Press the front plate forward, making sure all sides are flush with the Dual Dimmer.



9 Turn the Power ON at the MCB (Circuit Breaker) or Replace the Fuse

