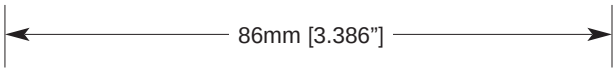
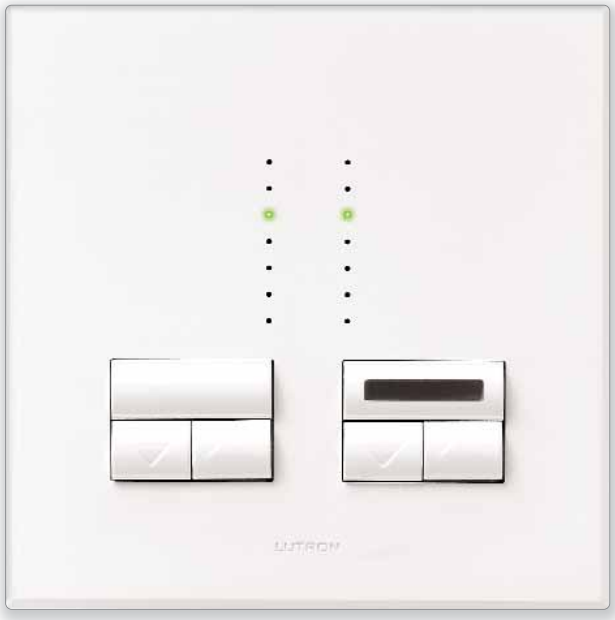
Lutron® | Rania® digital dimmer with remote control

Rania IR
For 230 V loads, multiway
Max. 500 W, min. 50 W
For 230 V and 12 V loads, multiway
Max. 450 W/VA, min. 50 W/VA

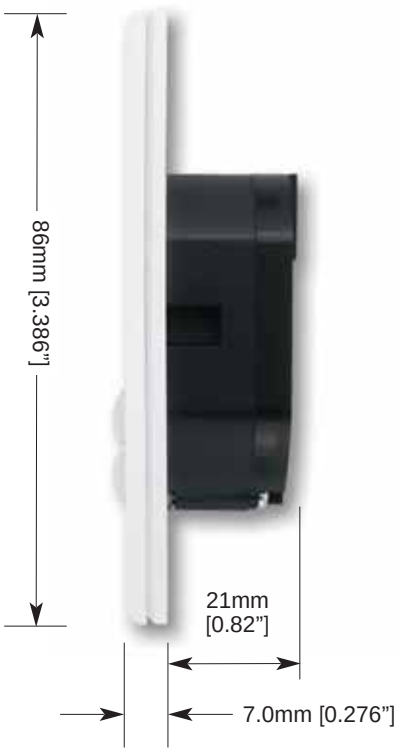




Rania IR dual
For 230 V or 12 V loads, multiway
Max. 2 x 250 W/VA, min. 2 x 50 W/VA

LUTRON®
LIGHTING CONTROLS

Lutron® | Rania® digital dimmer with remote control



Product family features:

- Single and dual dimmer available
- Green LEDs indicate light level
- Lights softly fade to on/off
- Auto load-sensing capability
- Acoustically quiet operation
- Dim your light from up to 10 locations (requires accessory dimmers)
- Double-tap to full on
- Memorises last light level
- Replaces a standard switch
- Full family of products for all modern lighting sources
- Family includes wiring accessories

Specifications for single and dual dimmer:

- 220 - 240 VAC, 50/60 Hz
- Capacity
  - Single dimmer for 230 V loads only: Max. 500 W, min. 50 W
  - Single dimmer for 230 V and 12 V loads (universal): 450 W/VA, min. 50 W/VA
  - Dual dimmer for 230 V loads only: Max. 2 x 250 W, min. 50 W
  - Dual dimmer for 230 V and 12 V loads (universal): Max. 2 x 250 W/VA, min. 2 x 50 W/VA
- CE approved
- Universal dimmer available with leading and trailing edge capability
- Auto-reset thermal overload protection
- Auto-reset short-circuit and over-current protection
- Lightning strike surge protection (6 kV, 200 A)
- 10-year power-failure memory
- Voltage regulation
- Wall box with a depth of at least 32mm recommended; square wall box required for dual dimmer
- Precise colour consistency

High load and fluorescent interfaces for use with RISI and RIDI dimmers

- To increase load capacity:
  - Max. 1840 W of 230 V loads, use RN-PB-B-AW-M
  - Max. 1200 W/VA of 12 V loads, use NGRX-ELVI-CE-WH-CGP1858
- To control fluorescent loads, use GRX-TVI-CGP1859; Max. switched load 10A, 0-10 V output rating 10 A - 300 mA sinks current only (max. 150 ballasts)

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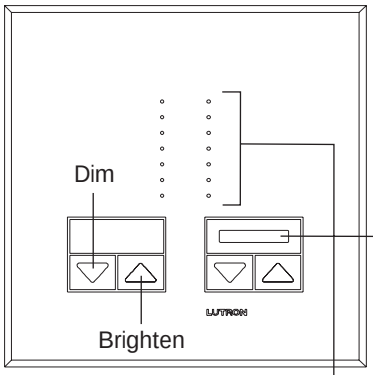
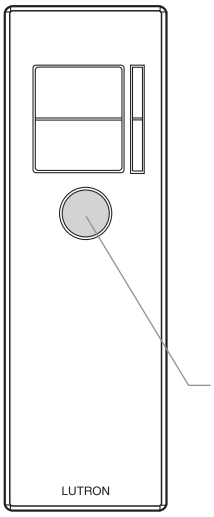
Rania IR dimmer





IR Transmitter

Operation

LEDs indicate light level.

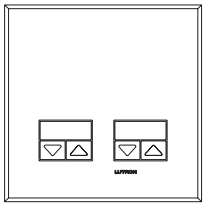
IR receiver

On/Off tapswitch: Fades lights on or off.

TURN ON: Tap once (lights fade to the preset level), tap twice (lights turn on to full brightness).

TURN OFF: Tap once (lights fade-to-off), press and hold (for delayed fade-to-off).

Rania accessory dimmer

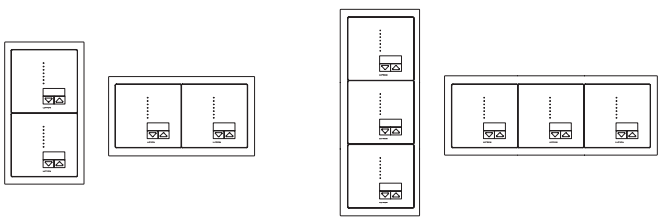


Multi-location dimming

For use with multi-location dimming only – use up to nine accessory dimmers with one Rania IR multi-location dimmer.

Ganging and derating

When ganging this product with other Lutron dimmers derate maximum capacity to 350 W/VA.



Use Lutron 2-gang or 3-gang frames to gang Lutron dimmers and wiring accessories.

Point the transmitter at the Rania IR dimmer(s), then use the buttons as outlined below.

ON FULL: Tap once - lights brighten smoothly to full brightness.

OFF: Tap once: 3 sec fade to off. Press and hold: 10-60 second delayed fade to off.

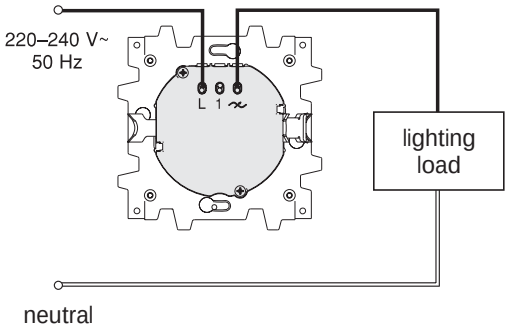
BRIGHTEN: Press to brighten lights.

DIM: Press to dim lights.

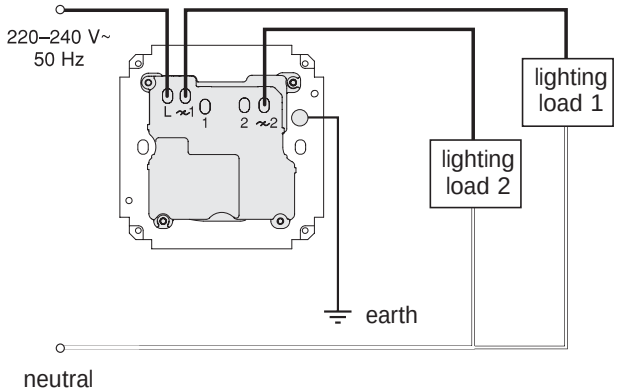
ONE-TOUCH BUTTON: Tap once to recall your favourite light level.

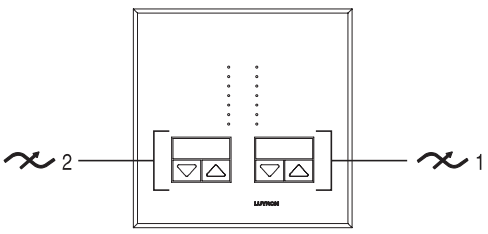
This transmitter is compatible with most learning remote controls.

Rania IR single dimmer



Rania IR dual dimmer





For multi-location wiring diagram please refer to Rania installation instructions.

Choosing your dimmer

You know the mood you want. The next question is: how do you create it? Here's how to choose the right dimmers for your project.

Step 1
Choose the style and colour that best matches or complements the décor of the room.

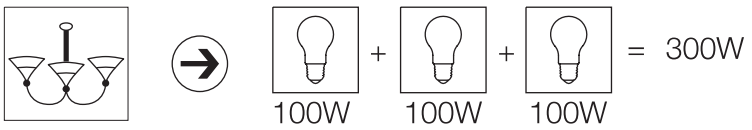
Step 2
Choose the dimmer designed to control the kind of lights you have in the room, for example, incandescent or low voltage.

Types of lighting

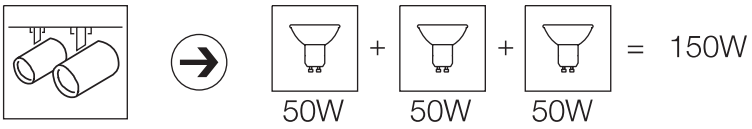
	INC Incandescent 230/240 V		**MVH** Mains voltage halogen 230/240 V		**LV** Electronic and magnetic low voltage 12 V

Step 3
Calculate the total load.
Incandescent light bulbs have wattage ratings marked on the bulb. Add up the wattage of all the bulbs in the fixture and select a dimmer that is rated above or equal to your total wattage.

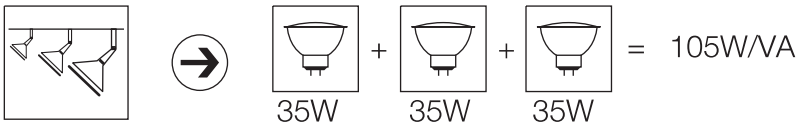
Incandescent 230/240 V



Mains voltage halogen 230/240 V

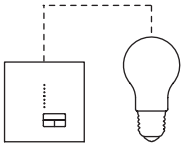


Electronic and magnetic low voltage 12 V

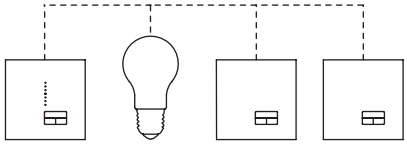


Step 4
Decide how many dimmers/switches control the same light fixture and choose from these options.

If there is only one switch, use a single-pole dimmer to dim a light from one location. (2-way or multi-location dimmers will work in this application.)



Multi-location dimming to dim a light from more than one location – up to ten. Choose one Rania IR dimmer and up to nine Rania accessory dimmers. Accessory dimmers work together with the intelligent dimmer, enabling more than one control to dim a light fixture.



Step 1	Step 2			Step 3	Step 4		
Product	**INC 230/240 V**	**MVH 230/240 V**	**LV 12 V**	**Load**	**1 way**	**2 way**	**Multi way**
Rania IR single (INC)	x	x		500 W	x	x	x
Rania IR single	x	x	x	450 W/VA	x	x	x
Rania IR dual	x	x	x	2 x 250 W/VA	x	x	x

Ordering your dimmer

Here is an example of how to order Rania IR dimmers for the look and function you desire.

RISU-452B-FAW-M

Rania IR	RI
Rania IR dimmer and remote kit (available in blister pack only)	RP
Single	S
Dual	D
Incandescent (INC)/Mains voltage halogen (MVH)	I
Universal (INC / MVH and low voltage halogen)	U
Capacity dual 2 x 250 W/VA	25
Capacity single Universal model: 450 W/VA Incandescent model: 500 W	45
2-way / Multi-location	2
Hanging blister pack	H
Box packaging	B
Insert + Frame	I
Frameless	F
Faceplate colour Arctic White (AW) Argentum (AR) Mica (MC) Satin Nickel (SN) Bright Chrome (BC) Bright Brass (BB)	AW
Language of installation instructions Multilanguage (M) Chinese (C) English (E) Spanish/Portuguese (S)	M

Rania IR dimmer
Shown in Arctic White
Model # RISU-452B-FAW-M

To order remote control only
Hanging blister pack RIS-REMOTH-AW-_*
Box packaging RIS-REMOTB-AW-M
Colour: Arctic White (AW)
38.5 x 117 x 14.5mm

* Select language of installation instructions

Colour options

Arctic White (AW)

Argentum (AR)

Mica (MC)

Metals

Satin Nickel (SN)

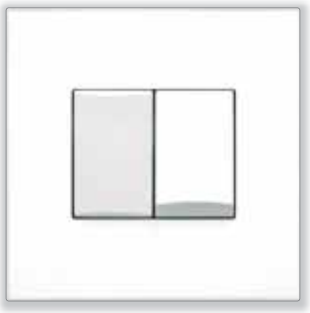
Bright Chrome (BC)

Bright Brass (BB)

Other colours and finishes available upon request.

Ordering your accessories

Single switch
2-way, 250 V / 10 A



Dual switch
2-way, 250 V / 10 A

Intermediate switch
4-way, 250 V / 10 A

Phone/tv jack

Product	Model number
Single switch	RN-SS10-**X**-**SYY**-**Z**
Dual switch	RN-DS10-**X**-**SYY**-**Z**
Intermediate switch	RN-IS10-**X**-**SYY**-**Z**
16 A schuko socket	RN-RF16-**X**-I**YY**-**Z**
16 A French socket	RN-RE16-**X**-I**YY**-**Z**
13 A UK switched socket	RN-SRSU-**X**-F**YY**-**Z**
Twin UK switched socket	RN-DRSU-**X**-F**YY**-**Z**
10 A Chinese socket	RN-RC10-**X**-F**YY**-**Z**
UK phone jack	RN-UKPJ-**X**-F**YY**-**Z**
RJ11 phone jack cat 3	RN-RJ11-**X**-**SYY**-**Z**
French phone jack	RN-FRPJ-**X**-I**YY**-**Z**
RJ45 network jack cat 5	RN-RJ45-**X**-**SYY**-**Z**
SAT jack (75 Ohm)	RN-TF75-**X**-**SYY**-**Z**
Triplexer – terminated	RN-TRI1-**X**-I**YY**-**Z**
Triplexer – intermediate	RN-TRI2-**X**-I**YY**-**Z**
2-port frame (frame only)	RN-2PFR-**X**-**SYY**-**Z**
RJ11 connector	CON-1P-C3-**YY**
RJ45 connector cat 5	CON-1P-C6-**YY**
RJ45 connector cat 6	CON-1P-C5E-**YY**
Coax cable connector	CON-1C-**YY**
BNC jack	CON-1B-**YY**
MT-RJ fibre jack	CON-1F-MTRJ-**YY**
SC simplex fibre jack	CON-1F-SC-**YY**
LC fibre jack	CON-1F-LC-**YY**
ST fibre jack	CON-1F-ST-**YY**
1 gang frame	RN-1GANG-**X**-**YY**-**Z**
2 gang frame	RN-2GANG-**X**-**YY**-**Z**
3 gang frame	RN-3GANG-**X**-**YY**-**Z**
Blank faceplate	RN-BLFP-**X**-**SYY**-**Z**

Key to model numbers:

RN-SS10-**X**-SYY-**Z**

- RN – product
- SS10 – accessory
- **X** – package type
- S – frame style
- YY – colour/form
- **Z** – language code

Example:

RN-SS10-**B**-FAW-**M**

- RN – Rania
- SS10 – single switch
- **B** – boxed
- F – frameless
- AW – Arctic White
- **M** – multi-language

X = Package type
B = Boxes
H = Hanging clamshell

YY = Colour/finish
AW = Arctic White
AR = Argentum
MC = Mica
SN = Satin Nickel
BC = Bright Chrome
BB = Bright Brass

S = Frame style
F = Frameless
I = Frame inset

Z = Language code
For boxes select:
M = Multi-language
(Chinese, Dutch, English, French, German, Italian, Portuguese, Spanish)
For hanging clamshells:
E = English
S = Spanish
C = Chinese

LUTRON®
LIGHTING CONTROLS

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