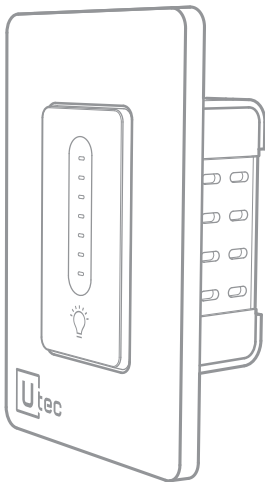


Smart Dimmer Switch

User Guide (v1.1)

US01



Neutral wire
Required

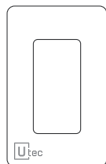
About Privacy

Before using all U-tec products, please read all applicable terms, rules, policies and usage provisions found at

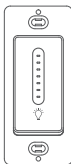
www.u-tec.com/company/privacy. By using your device, you agree to be bound by the U-tec Privacy Policy.

What's in the Box

Cover Panel



Switch



Wire Nuts



Cable Label



User Guide



Screws

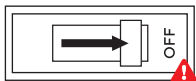







Need Help?

For technical documents and more
Please visit <https://support.u-tec.com>

Attention

To avoid fire, shock, or death, turn off power at circuit breaker or fuse, and test that the power is off before wiring.



-  Neutral Wire is required. (Please kindly check your house'wires if your house was built or remodeled before mid-80's.)
-  Make sure wall boxes with 18 cu in. vol. or above.
-  In a 3-Way installation, DO NOT use two smart dimmer switches to control one light.
-  Need 2.4GHz Wi-Fi (Not Support 5GHz Wi-Fi).
-  Only Non-smart Dimming Bulbs are Supported (300W Max. for INC, and 250W Max. for CFL & LED).



250W

Dimmable LED



250W

Dimmable CFL



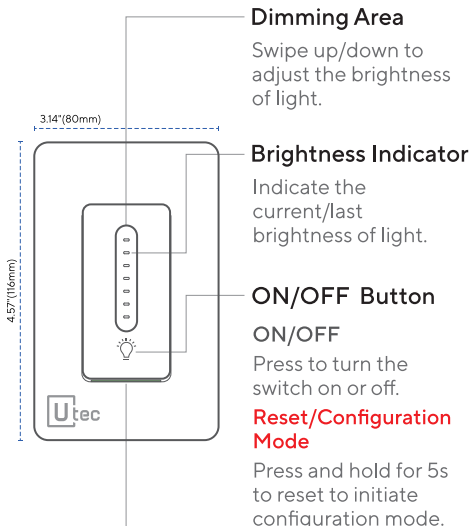
300W

Incandescent



Electricity can cause personal injury and property damage if handled improperly. If you are not sure about any part of these instructions, please seek professional assistance from a qualified electrician.

Product Outline



Status Indicator

Solid Green

Indicate that the light is switched on now.

Solid White

Indicate that the light is switched off now.

Flash Green (Slow)

Configuration mode initiated.

Flash Green (Fast)

Connecting to WiFi.

Technical Specifications

Input:

100-130V~, 60Hz, 15A

Max Load:

300 W Incandescent

250 W LED&CFL

Dimensions (W x D x H)

4.1 x 1.8 x 1.8 inch
(without cover panel)

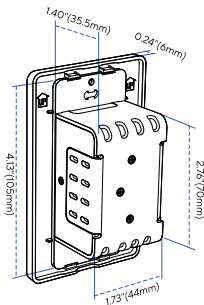
4.6 x 2.8 x 1.8 inch
(with faceplate)

Operating Temp.

14°F - 122°F / -10°C - 50°

Communication: WiFi 802.11 b/g/n 2.4 GHz

Weather resistant: Indoor Use Only



Tools you'll need



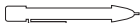
Phillips-head screwdriver



Flat-head screwdriver



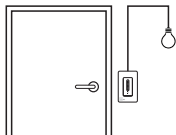
Pliers



Voltage tester

⚠ WARNING: Please refer to the voltagetester guide manual, or seek professional assistance from a qualified electrician.

A. Installation for Single Pole

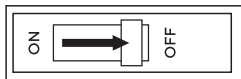


Please scan this QR code to watch the step by step installation video before attempting to install U-tec Smart Switch, or you can access our website here.

www.u-tec.com/power/dimmer_switch/guide

Before Installation: Turn Off Power

Turn off the power at the circuit breaker or fuse, and test that the power is off before installation.



⚠ CAUTION: Compatible bulb type/Max Load:
Incandescent/300W, LED&CFL/250W. Please
check your bulb/load before installation.

STEP 1

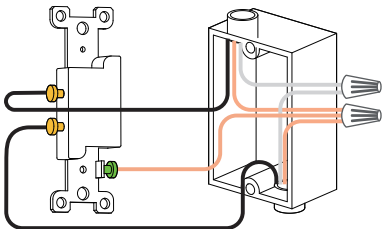
Pull out Old Switch

⚠ WARNING: Before pulling out, turn off power at circuit breaker or fuse, and use a voltage tester to confirm whether power is off before wiring.

Unscrew the switch plate, old switch and pull it out of the wall. **Do not remove any wires.**

STEP 2

Get to know the wires



⚠ WARNING: Neutral wire is required to install the smart switch. If not, please call an electrician for help.

Line: Usually black.

Load: Usually black, connected to the light.

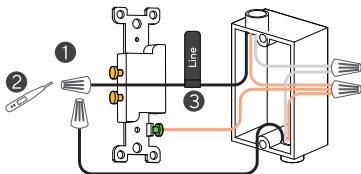
Neutral: Usually white.

Ground: Usually green or copper.

STEP 3

Identify and label "Line" wire

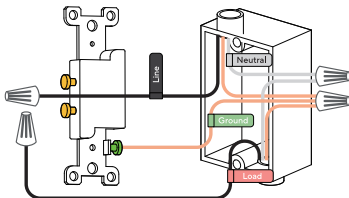
1. Disconnect the Line and Load wires from the dumb switch, then cover them with provided wire nuts for the sake of security.
2. Turn on the circuit breaker and use a voltage tester to identify the energized wire (Line wire).
3. Turn off the circuit breaker and label the Line wire.



STEP 4

Label the other wires

Label the other wire as Load wire. Label the Ground and Neutral wires.



STEP 5

Take Pictures of the Wires

Take one or two pictures of the old switch and where each wire is connected to it, in case you need guidance to repeat the installation.

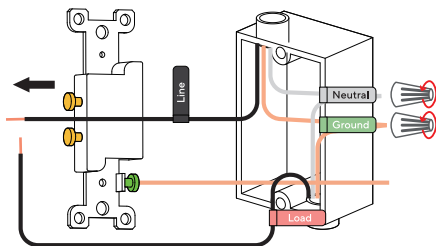
⚠ NOTE: Make sure all of the text on the labels in the pictures are clearly displayed.

STEP 6

Remove existing Dumb Switch

⚠ WARNING: Before removing, turn off power at circuit breaker or fuse and use a voltage tester to **confirm the power is off.**

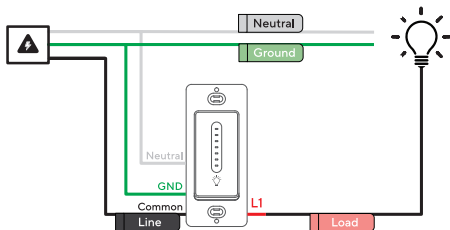
Disconnect all wires and remove the dumb switch, then connect them to the smart switch.



STEP 7

Connect the Smart Switch

Connect the wires to the smart switch.



Single Pole (Only 1 Smart Switch)

⚠ WARNING: Make sure the power is **turned OFF** before you proceed. Your existing wires may have different colors than those shown.

• Connect Neutral and Ground Wires

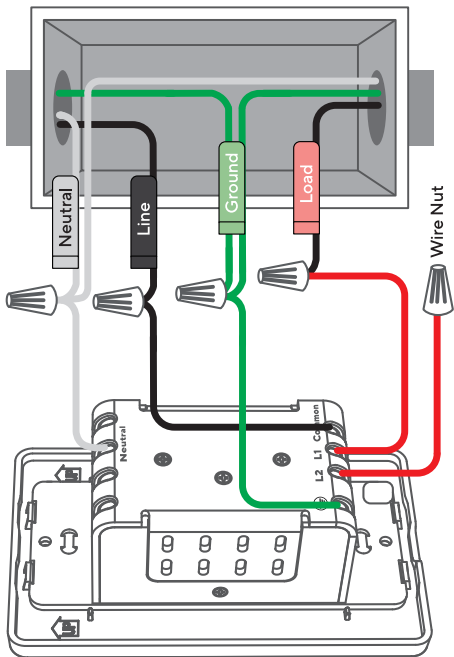
⚠ Note: Neutral: usually white.

Ground: usually green or copper.

Use wire nuts to connect the Neutral and Ground wires from the wallbox to the labeled wires coming from the Smart Switch.

• Connect Line wire

Use a wire nut to connect the labeled Line wire from the wallbox to the wire come from Common port on the Smart Switch.



- **Connect Load wire**

Use a wire nut to connect the labeled Load wire from the wallbox to the wire come from L1 port on the Smart Switch.

- Cap off the remaining L2 wire from the Smart Switch with a wire nut.

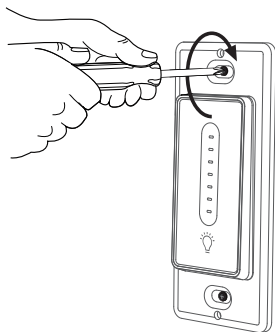
⚠ WARNING: All wires from the Smart Switch must be capped with wire nuts.

⚠ WARNING: Death or serious injury may occur if instructions are not properly followed.

STEP 8

Mount the switch

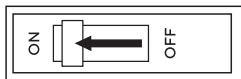
Form all wires carefully into wall box, and mount switch with screws supplied.



STEP 9

Turn on Power

Turn power back on at the circuit breaker.

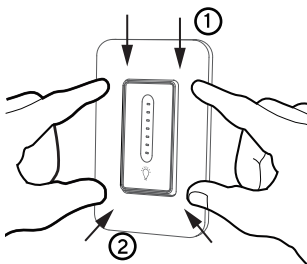


- Press the ON/OFF button to confirm whether the switch is powered on/off normally.

STEP 10

Snap on Cover Panel

Push cover panel onto the fixing plate and snap it into place.

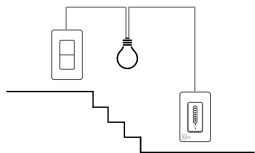


- ⚠ NOTICE:** Please turn on the switch first, adjust the light to the maximum brightness, press and hold ON/OFF for 5s to initiate configuration mode.



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B. Installation for Three Way

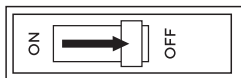


Please scan this QR code to watch the step by step installation video before attempting to install U-tec Smart Switch, or you can access our website here.

www.u-tec.com/power/dimmer_switch/guide

Before Installation: Turn Off Power

Turn off the power at the circuit breaker or fuse, and test that the power is off before installation.



⚠ CAUTION: Compatible bulb type/Max Load: Incandescent/300W, LED&CFL/250W Please check your bulb/load before installation.

STEP 1

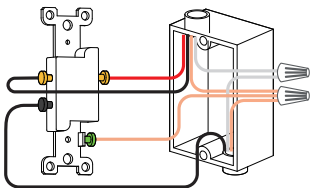
Pull out Old Switch

⚠ WARNING: Before pulling out, turn off power at circuit breaker or fuse, and use a voltage tester to confirm whether power is off before wiring.

Unscrew the switch plate, old switch, and pull it out of the wall. **Do not remove any wires.**

STEP 2

Get to know the wires.



⚠ WARNING: Neutral wire is required to install the smart switch. If not present, please call an electrician for help.

Line: Usually black.

Load: Usually black.

Traveler 1 / 2: Usually one is black and the other is red.

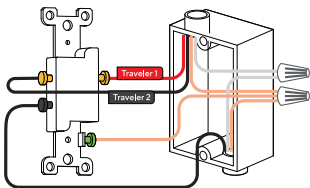
Neutral: Usually white.

Ground: Usually green or copper.

STEP 3

Label "Traveler" wires

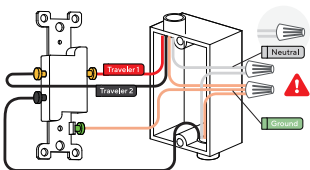
Do not cross Traveler 1 and Traveler 2 wires between the two wallboxes. For example, label the red wire as Traveler 1 for both wallboxes.



STEP 4

Label "Neutral" and "Ground" wire

A neutral wire is required to install the smart switch. Make sure there are NEUTRAL wires (most likely a bundle of one or more white wires) in the wall. Unless you are replacing an existing smart switch, it's probably not connected to your old switch.



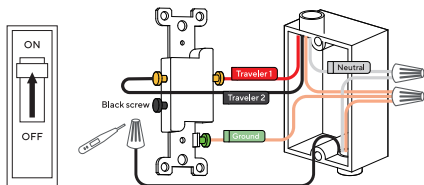
⚠ WARNING: If there is no neutral wire, please try another location or call an electrician for help.

STEP 5

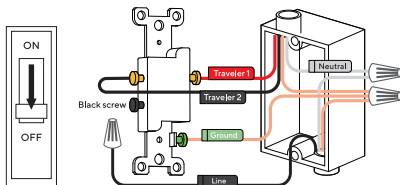
Identify and label "Line" wire

⚠ WARNING: Before removing, turn off power at circuit breaker or fuse, and use a voltage tester to confirm the power is off.

1. Disconnect the remain wire (usually BLACK, attached with a black screw)
2. Turn on the circuit breaker and use a voltage detector to identify the Line wire.



3. Turn off the circuit breaker and label the Line wire.



STEP 6

Take Pictures of the Wires

Take one or two pictures of the old switch and where each wire is connected to it, in case you need guidance to repeat the installation.

⚠ NOTE: Make sure all of the text on the labels in the pictures are clearly displayed.

STEP 7

Remove existing Dumb Switch

⚠ WARNING: Make sure the power is **turned OFF** before you proceed. Your existing wires may have different colors than those shown.

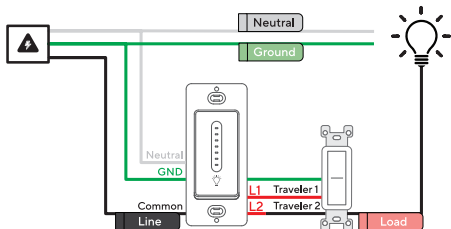
Disconnect all wires from the dumb switch, then connect them to the new switch.

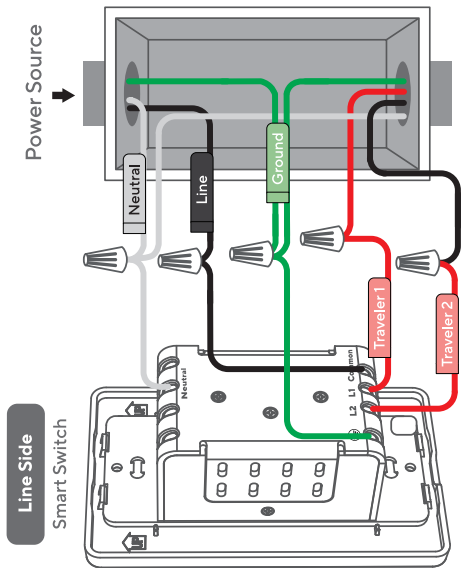
STEP 8

Connect the Smart Switch

3-Way Connection - Line Side

(1 Smart Switch and 1 Dumb Switch)





• Connect Neutral and Ground Wires

Use wire nuts to connect the Neutral and Ground wires from the wallbox to the labeled wires coming from the Smart Switch.

• Connect Line wire

Use a wire nut to connect the labeled Line wire from the wallbox to the wire come from Common port on the Smart Switch.

• Connect Traveler wires

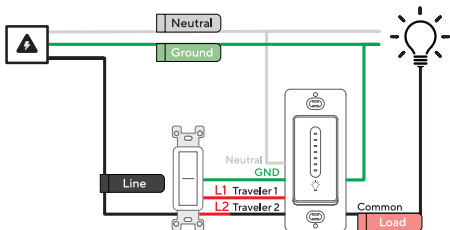
Use wire nuts to connect the labeled Traveler1 with L1, and connect labeled Traveler2 with L2.

⚠ WARNING: All wires from the Smart Switch must be capped with wire nuts.

⚠ WARNING: Death or serious injury may occur if instructions are not properly followed.

3-Way Connection - Load Side

(1 Smart Switch and 1 Dumb Switch)



- **Connect Neutral and Ground Wires**

Use wire nuts to connect the Neutral and Ground wires from the wallbox to the labeled wires coming from the Smart Switch.

- **Connect Load wire**

Use a wire nut to connect the labeled Load wire from the wallbox to the wire come from Common port on the Smart Switch.

- **Connect Traveler wires**

Use wire nuts to connect the labeled Traveler1 with L1, and connect labeled Traveler2 with L2.

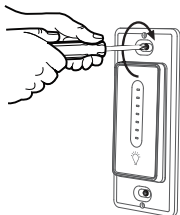
⚠ WARNING: All wires from the Smart Switch must be capped with wire nuts.

⚠ WARNING: Death or serious injury may occur if instructions are not properly followed.

STEP 9

Mount the switch

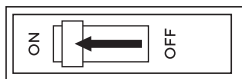
Form all wires carefully into wall box, and mount switch with screws supplied.



STEP 10

Turn on Power

Turn power back on at the circuit breaker.

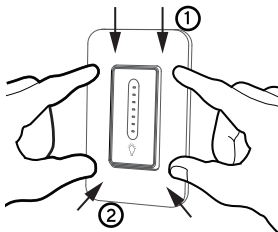


- Press the ON/OFF button to confirm whether the switch is powered on/off normally.

STEP 11

Snap on Cover Panel

Push cover panel onto the fixing plate and snap it into place.



⚠ NOTICE: Please turn on the switch first, adjust the light to the maximum brightness, press and hold ON/OFF for 5s to initiate configuration mode.

Easy Setup



Scan QR code to download the App

1. Get U-tec App Ready

1.1 Scan QR Code

Scan above QR code to download the App, or search "U-tec" in APP Store (iOS) and Google Play (Android).



1.2 Download App



1.3 Create Account and Log in

2. Add New Device

Select the "+" icon in the App main interface to add the new device, then follow the App instructions to finish the setup process.



More Ways to Control

Smart Dimmer Switch also supports to work with Amazon Alexa, Google Assistant, IFTTT and SmartThings when the device is setting up in the U-tec App.

FCC compliance information statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

FCC RF Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

To comply with FCC RF exposure compliance requirements, this grant is applicable to only Mobile Configurations. The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

We, U-tec Group Inc. , has determined that the equipment shown as above has been shown to comply with the applicable technical standards, FCC part 15. There is no unauthorized change is made in the equipment and the equipment is properly maintained and operated.

Canadian Compliance Statement

This device complies with Industry Canada license-exempt RSSs. Operation is subject to the following two conditions:

1. This device may not cause interference, and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

Radiation Exposure Statement

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Safety Information

Keep the device away from water, fire, humidity or hot environments.

- Do not attempt to disassemble, repair, or modify the device.
- Do not use the device where wireless devices are not allowed.

Please read and follow the above safety information when operating the device. We cannot guarantee that no accidents or damage will occur due to improper use of the device. Please use this product with care and operate at your own risk.

