

# Installation Manual

## Switch

# Switch

**USER MANUAL**

ENGLISH

**用户手册**

简体中文

**用戶手冊**

繁體中文

**This Installation Manual applies to the following products:**

<b>Product No.</b>	<b>Description</b>
U201SRY2KW	1-Gang 2000VA Switch
U202SRY2KW	2-Gang 2 x 1000VA Switch

IMPORTANT NOTES

HOW TO USE THIS MANUAL

This manual explains how to install and operate your ULTI 1-Gang and 2-Gang Switches.

PRODUCT SAFETY

The ULTI unit complies with IEC60669-2-1. The Remote Control Unit operates at a RF frequency band of 315MHz or 434MHz. Please contact local sales representatives for specifications in various countries. The effective radiated power of the Remote Control Units does not exceed 10mW.

WARRANTY

ULTI products come with a one-year, equipment-only warranty. For more details, please visit [www.clipsal-ulti.com](http://www.clipsal-ulti.com)

To enjoy product warranty, simply:  
register on line by visiting the Warranty Registration section on [www.clipsal-ulti.com](http://www.clipsal-ulti.com)

Customer Service Email: [infocal@clipsal.com.hk](mailto:infocal@clipsal.com.hk)  
URL: [www.clipsal-ulti.com](http://www.clipsal-ulti.com)

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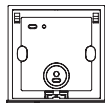
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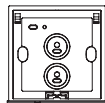
## ULTI PACKAGE COMPONENTS

Control Unit  
(Cover Plates are to be purchased separately)



1-Gang Switch Module

or



2-Gang Switch Module



Installation Manual



Screws x 4

### Optional Items :



3.5mm

10mm

Universal Deco Spacer Set  
Product No. : UAX-001

## INTRODUCTION

### ULTI CONCEPT

ULTI, The Ultimate Switch, is a Clipsal Concept. It is a state-of-the-art lighting control and electrical automation scheme for residential, hotel and office use, offering sophisticated design, operational simplicity and flexibility to control electrical devices.

### ULTI WIRELESS LIGHTING CONTROL SOLUTION

With ULTI, you can use a Remote Control Unit to control all functions, including pre-programming of multi-combination light groups and electronic home appliances for up to five different scenarios. With a simple touch of a button, you can call upon the preferred lighting for your chosen activity.

This product operates as a standard wall-mounted Switch / Dimmer and can be retrofitted into British standard wall box.

### ULTI TERMINOLOGY:

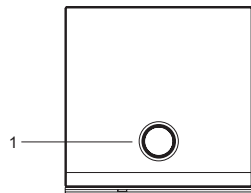
- Zone - An area illuminated / controlled by a single lighting circuit.
- Switch - A switch that controls the on / off of a zone.
- Dimmer - A switch that controls the on / off and dimming level of a zone.
- Scene - A "Scene" is defined as a combination of lights and electronic appliances across various zones with different light levels. You can set your favourite scenes by following Programming Procedures in the Remote Control Unit manual.

## OPERATING FUNCTION

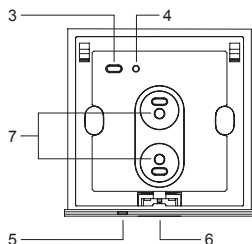
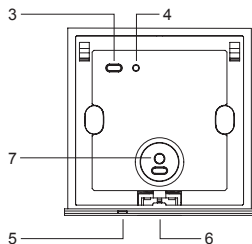
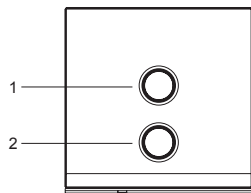
### Functions of ULTI Switch

ULTI allows you to create different scenes and select scenes with ULTI Switch / Dimmer and Remote Control Unit, which detailed programming procedures are available in Remote Control Unit manual.

#### 1-Gang Switch



#### 2-Gang Switch



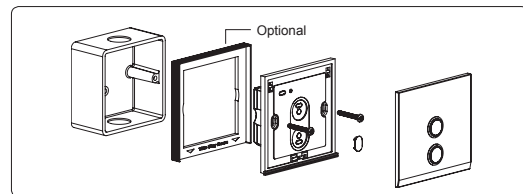
- 1-2** • Control Buttons 1 and 2:
  - Button 1 : Short press to toggle the first channel on and off.
  - Button 2 : Short press to toggle the second channel on and off.
- 3** • Program Button
  - Press and hold for 5 seconds to switch between the two backlight colours amber and blue.
  - Press 6 times repeatedly within 1 minute will disable/enable the RF wireless control.
  - Used to pre-set scenes. Refer to Remote Control Unit Manual.
- 4** • Clear Button
  - Used to clear programmed scenes. Refer to Remote Control Unit Manual.
- 5** • Program LED

Status	Connotation
Turns on red	Program Button has been pressed meaning Switch/Dimmer is in Programming mode
Flashes 3 times	Clear Button has been pressed & command is carried out.
Flashes continuously	Memory is full. Refer to Memory Clearing Procedure to clear memory.
Flashes continuously in pattern of 2 flashes	RF wireless control is disabled; hence Remote Control Unit can no longer control this Switch/Dimmer.
- 6** • Release Button
  - Press to release cover plate.
- 7** • LED Backlight
  - 2 colour options, amber and blue.
  - Turns on when the Switch / Dimmer is turned off.

## INSTALLATION PROCEDURES

### 1. Important:

- **Always turn OFF the Miniature Circuit Breaker (MCB) before installation, maintenance or servicing of electrical appliance.**
  - **Excessive load will damage the product (Please refer to Load table for permissible maximum loading).**
2. Make sure the cover plate is separated from the Switch / Dimmer module before installation takes place.
  3. Make sure there is sufficient depth (40mm) on the wall to install ULTI Switch / Dimmer. A standard BS wall box must be used for installation.
  4. Connect the load cables to the Load terminal first and then the power cables to the Live terminal after.

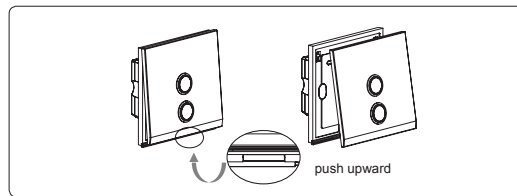


Note: In case of insufficient depth, attach the Deco Spacer at the back of the module before continuing the procedures follow.

5. Fasten the screws of both terminals and make sure wires are properly secured.
6. Switch on the power source from the MCB to test the Switch / Dimmer is functioning. LED backlight should turn ON when the Switch / Dimmer is off.
7. Directly place ULTI Switch / Dimmer into the wall box and mount it on the wall by fastening the two screws and then put the screw caps on.
8. Set your favourite scene by following the programming procedures in Remote Control Unit manual.
9. Clip the cover plate back in place.

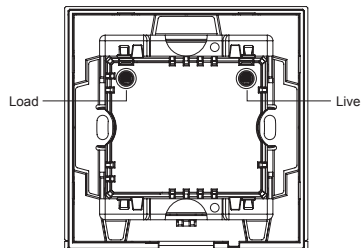
## COVER PLATE REMOVAL

1. Push the release button upward to disengage the clip. Release button is located on the bottom of the Switch / Dimmer module. The cover plate will spring outwards.
2. Hold the cover plate and push upwards and away from the Switch / Dimmer module.

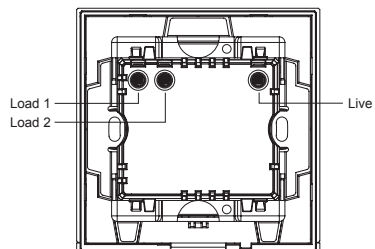


## WIRING DIAGRAM

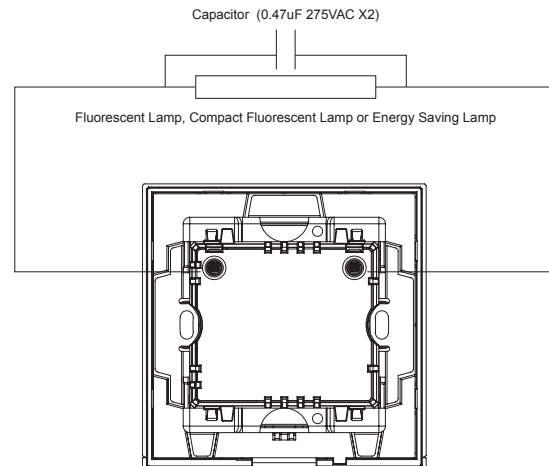
### 1-Gang 2000VA Switch



### 2-Gang 2 x 1000VA Switch



Wiring diagram for connecting energy saving lamp or compact fluorescent lamp with ULTI.





## SPECIFICATIONS

	1-Gang Switch	2-Gang Switch
Operation	Toggle on/off	
Memory	Up to 8 Remote Control Units	
LED Backlight	Changeable Amber / Blue colour	
Load Type	Please Refer to Load Table	
Minimum Load	25W	
Maximum Load	Please Refer to Load Table	
Operating Temperature	0 °C to + 40 °C	
Operating Humidity	0% to 95%	
Operating Voltage & Frequency	110-130V AC, 60Hz 220-240V AC, 50/60Hz	
Radio Frequency	Available in 315MHz & 434MHz (Please consult your regional office)	
Mounting Centres	60.3mm	
Dimensions (H) x (W) x (D)	87mm x 87mm x 39mm	

## LOAD TYPE

The table below shows the maximum rating for 1-gang and 2-gang switch operating at 220-240V AC. However, they can also operate at 110-130V AC, its maximum rating would be half of the rating shown below.

Lamp Type	1-Gang Switch Total Load		2-Gang Switch Total Load
Incandescent Lamp	2000W	Max power for one gang	2000W
		Max total power for all gangs added	2000W
Fluorescent Lamp With Electronic Ballast*	1800W	Max power for one gang	1800W
		Max total power for all gangs added	1800W
Fluorescent Lamp With Magnetic Ballast AND Power Factor Correction Capacitor*	1800W	Max power for one gang	1800W
		Max total power for all gangs added	1800W

### Remarks:

\* Each 0.47uF/275VAC, "X2" bypass capacitor is required to connect parallel to the load in the gang(s) with energy saving lamp or compact fluorescent lamp. Please refer to the section of Wiring Diagram.

## LOAD TYPE (con't)

Lamp Type	1-Gang Switch Total Load		2-Gang Switch Total Load
Fluorescent Lamp With Magnetic Ballast but Without Power Factor Correction Capacitor*	1000W	Max power for one gang	1000W
		Max total power for all gangs added	1000W
Low Voltage Halogen (12V) With Magnetic Transformer	1900W	Max power for one gang	1900W
		Max total power for all gangs added	1900W
Low Voltage Halogen (12V) With Electronic Transformer	1900W	Max power for one gang	1900W
		Max total power for all gangs added	1900W
Energy Saving Lamp*	1400W	Max power for one gang	1400W
		Max total power for all gangs added	1400W
Exhaust Fan*	Applicable		

### Remarks:

\* Each 0.47uF/275VAC, "X2" bypass capacitor is required to connect parallel to the load in the gang(s) with energy saving lamp or compact fluorescent lamp. Please refer to the section of Wiring Diagram.

## TROUBLE SHOOTING GUIDE

Symptom	Possible Cause	Solution
Switch / Dimmer is not responding to the Remote Control Unit.	1. Not previously programmed or improper programming.	Repeat the Programming Procedures explained in Remote Control Unit Manual.
	2. Switch/Dimmer is set to Programme mode.	The LED indicator is turned on red now, indicating the unit is in Programming mode. If programming is not required, press the Programme Button to exit Programming mode.
	3. Voltage is too low.	Make sure the operating voltage range is within the requirement (Refer to P.12).
	4. Power rating is too low.	Replace a load that meets the minimum loading requirement (Refer to P.12).
	5. RF wireless control is disabled. (Programme LED flashes continuously in the pattern of 2)	Press the Programme Button of the Switch / Dimmer 6 times within 1 minute. Programme LED should stop flashing.

## TROUBLE SHOOTING GUIDE (con't)

Symptom	Possible Cause	Solution
Unable to programme	1.Red Programme LED flashes after the Programme Button is pressed.	This indicates the memory is full. (Refer to Memory Clearing Procedures in Remote Control Unit Manual).
	2.The Switch does not receive programming commands.	Check the position of the function selector at the back of the Remote Control Unit. Make sure it is in the Programme position.
	3.RF wireless control is disabled. (Programme LED flashes continuously in the pattern of 2)	Press the Programme Button of the Switch 6 times within 1 minute. Programme LED should stop flashing.
Main light or LED backlight does not turn on.	1.Wires are not properly secured or connected in the terminals.	Make sure the wires are secured, screws are fastened and the Live or Load wires have been connected to the correct terminals.
	2.MCB is OFF or has been tripped.	Switch on the MCB. If a breaker continually trips, contact a registered electrician to find out the cause of the problem.
	3.Temporary disorder.	Switch off the MCB and then on again to reset the switch.

Symptom	Possible Cause	Solution
Main load is turned off automatically	1.Power rating is too low.	Replace the load that meets the minimum loading requirement (Refer to P.12).
	2.Wires are not properly secured in the terminals.	Make sure the wires are secured and screws are fastened properly.
	3.Controlled by other remote control unit within the area	Determine which remote control unit(s) is (are) controlling the particular main light. (Refer to Memory Clearing Procedures in Remote Control Unit Manual).