

No Mercury is used in this product. The product does not create Ozone. It is safe to be in the same room while in operation. By-Products created from use of this product are harmless to humans (CO<sub>2</sub> & H<sub>2</sub>O). This product may discolour foam surfaces if exposed directly, however is completely harmless to metals and plastics.

Technical Information		
Model Ref: SHIVA-NRCS-1016		
Voltage	AC 100 – 240V	
Frequency	50/60Hz	
Power Consumption	10w	
Light Source Qty	UVC	2 Pieces
	UVA	8 Pieces
Light Source Power	UVC	1.3w
	UVA	5.3w
Radiant Power	UVC	20mW
	UVA	3100nW
Wavelength	UVC	254nm
	UVA	405nm
Operation Temperature	-40 – 120°C	
Storage Temperature	-40 – 85°C	
Expected Avg. Lifespan	10,000 Hours / 3 Years	

UVC Radiation Intensity Calculator	
UVC Radiation	20mW
Lighting Distance	26.0cm
Lighting Angle	130 degree
Lighting Range Length	111.86cm
Lighting Range Area	12512.52cm <sup>2</sup>
UVC Radiation Intensity	1.60μW/cm <sup>2</sup>

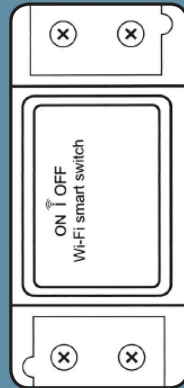
UVC Radiation Intensity Calculator	
UVC Radiation	20mW
Lighting Distance	73.0cm
Lighting Angle	130 degree
Lighting Range Length	313.44cm
Lighting Range Area	98246.52cm <sup>2</sup>
UVC Radiation Intensity	0.20μW/cm <sup>2</sup>

### Applications:

AC Split, VRF, Fan Coil Units.

For Models Incl. High Wall, Concealed Ducted, 4-Way Cassette, 600mm Cassette, Under-Ceiling, Concealed Chassis, etc

## SMART SWITCH INSTALLATION



### Specifications:

Power Supply: 90v ~250v AC  
 Max Current: 90v ~250v AC  
 WiFi: Standard 2.4GHz b/g/n  
 Material: ABS VO  
 Size (mm): 88×38×22

### Checklist:

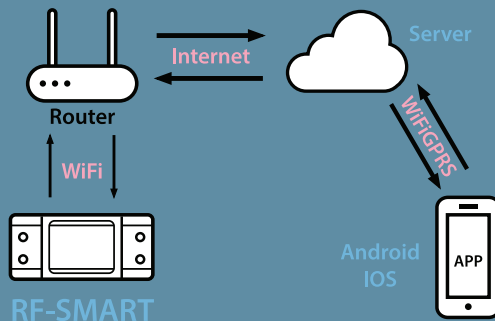
Have a Smartphone or Tablet with access to the Google Play or Apple App Store

Your Smartphone or Tablet to use the device is connected to the buildings 2.4G Wifi Internet.

(it is recommended the Customer / Building Manager purchase a dedicated device to leave on site for control of multiple units)

You have the correct WiFi Password to hand.

Your Router is MAC-open.



## CONNECTION GUIDE:

Download the "Smart Life" App  
 (May be called "Intelligent Life" in some regions)



1. Register an account.
2. If you already have an account, Log In.
3. Ensure Power is connected to the UVC Kit, (the connected devices operate via Live ON/OFF Principle)
4. Press and hold the pairing switch for approximately 5 seconds, until the WiFi Light starts blinking fast.
5. Enter the App, Tap "+" on the upper right of the page to enter the connection page.
6. There are 2 Connection Methods; 'Manual', and 'Auto Scan', Select 'Auto Scan'.
7. Ensure the Pairing Light is still rapidly flashing.
8. Press 'Config Wifi' and enter the network WiFi password.
9. 'Smart-Switch-(xxx)' will display as found. Select this device
10. Name your device accordingly (Open Plan 1, Canteen, Accounts, etc)
11. This Device is now Online, move to your next device (if applicable) and repeat above.

7-Day Timers can be set via the app. Local wireless controllers with still work independently however if needed.



## TiO<sub>2</sub> UVC LED Air Sterilisation Kit INSTALLATION INSTRUCTIONS

### !!WARNING!!

UVC Wavelengths can cause damage to human eyes and skin if exposed directly.

UVC is at its most dangerous levels within 230mm distance from the lamp.

**ALWAYS** ensure there is no power connected to the AC system you are installing or servicing.

**NEVER** look at the UVC LED Lamps directly while in operation, or work on a system with the Lamps in operation.

**NEVER** install the UVC LED Lamps in a way that they can be visible to any member of the public, at any height level.

### CAUTION

#### UVC radiation hazard.

Use only with shielding in place. Protect eyes and skin from exposure to UV light.

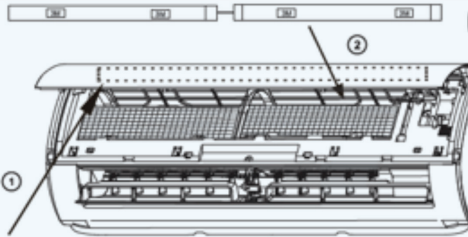


### Contents:

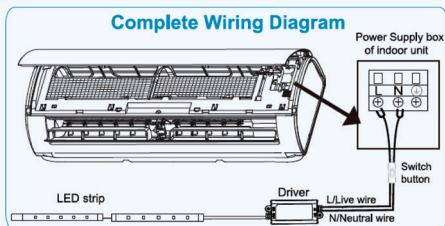
- x2 Shiva TiO<sub>2</sub> LED UVC Lamps,
- x1 Driver, x1 Wifi Smart Switch,
- x4 Photocatalyst Film,
- x4 Film Protect Sticker (For High Wall),
- x1 Wireless Wall Mount Controller,
- x1 Keychain Wireless Controller,
- x8 Cable Ties, x24 3M Pads (Small- for Film)
- x8 3M Pads (Medium- for LED Lamps)
- x2 3M Pads (Large- for Drivers & Smart Switch),
- x1 UVC Radiation Warning Sticker

## High Wall Installation

1. Power Off AC System.
2. Open the Front Panel.
3. On the inside of the Panel, lightly mark-up to the centre point of each OEM filter. Also mark which side of the unit the electrical box is on (to remind you)
4. Remove the Panel from the AC Unit and wipe down any dust or dirt build-up, to ensure 3M pads stick to surface.
5. Using the 8 x Medium 3M Adhesive Pads, Stick the LED Lamps to the inside of the panel, ensuring the Gold Coloured LED is aligned with the centre point you marked up previously.

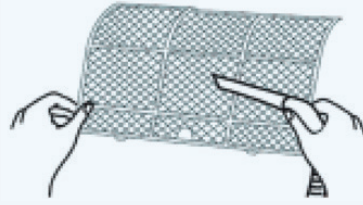


6. Replace Panel back on the unit and thread the Smart Switch, and Driver, through to the top of the unit.
7. Remove AC Units' Electrical Box Panel and neatly fish down the Device's cable into the electrical supply box. Use a draw cable if required.
8. Connect the Device's Live and Neutral cable to the L, N, connections of the indoor unit. Close the Electrical Panel when complete.



9. Using the 2 x large 3M Adhesive Pads, Stick the Driver, and the Smart Switch to the Unit in desired location.
10. Remove the OEM Filters and thoroughly clean and dry if required.
11. Take out the Photocatalyst Film and stick to the front of the OEM filters using the small 3M Adhesive Pads provided. Cut Off the excess using a Scissors. On some models it

is advisable to place a layer of 1" electrical tape around the edge of the filter to further secure the film in place.

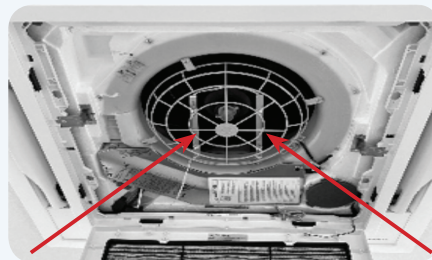


12. Replace the Filters to the unit. Install the Protective Sticker to the Film in front of the Gold LED. Film can be removed or lightly vacuumed during service visits.
13. Apply 'UVC Radiation Warning' Sticker to the outside of the Front Panel.

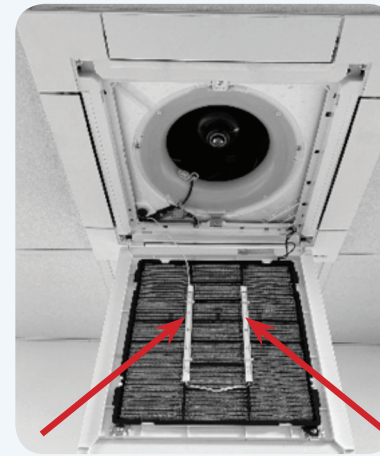


## Cassette Installation

1. Power Off AC System.
2. Open the Front Panel.
3. Install LED UVC Lamps into the Unit, via the OEM cable access route, leave the Driver and Smart Switch outside the Unit.
4. If unit has protective guard at fan blade; Using 8 x Cable Ties provided, strap UVC LED Lamps onto guard **FACING UP INTO THE COIL OF THE UNIT** as shown below.



5. If unit has no protective guard at fan blade; Carry out steps 9, 10, & 11, first. Using 8 x Cable Ties provided, strap UVC LED Lamps on the **SIDE OF THE FILTER FACING THE FAN BLADE** (thread Cable Ties via the filters PVC frame) **FACING UP INTO THE COIL OF THE UNIT** as shown left.

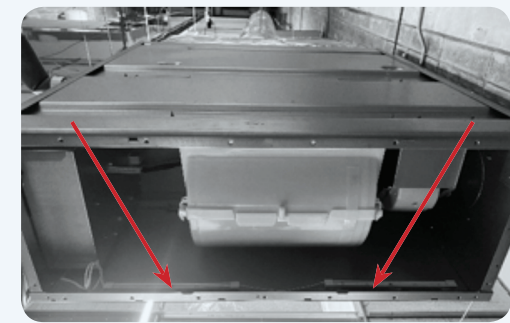


*Note: **NEVER EVER** install the lamps to the underside of the filter in direct contact with the Photocatalytic Film, as UVC LED Light will be visible to the public, causing potential harm to eyes. Check the UVC Lamps are secured and cannot flip over to either side. Do not block any LED's with Cable Ties*

6. Remove AC Units' Electrical Box Panel and neatly bring the Device's cable into the electrical supply box. Use a draw cable if required.
7. Connect the Device's Live and Neutral cable to the L, N, connections of the indoor unit. Close the Electrical Panel when complete.
8. Using the 2 x large 3M Adhesive Pads, stick the Driver, and the Smart Switch to the Unit in desired accessible location.

*For Cassette units with no guard the below steps should be carried out first before installing the lamps.*

9. Remove the OEM Filters and thoroughly clean and dry if required.
10. Take out the Photocatalyst Film and stick to the front of the OEM filters using the small 3M Adhesive Pads provided. Cut Off the excess using a Scissors. On some models it is advisable to place a layer of 1" electrical tape around the edge of the filter to further secure the film in place.
11. Replace the Filters to the unit. Film can be removed or lightly vacuumed during service visits.
12. Apply 'UVC Radiation Warning' Sticker to the outside of the Front Panel.



## Ducted Installation Variants

UVC LED Lamps are to be installed inside the Ducted Unit Return-Air Intake on the bottom of the Unit, facing up in a way which ensures UVC LED Lamps cannot be seen from Ground Level.

Apply Photocatalytic Film as previously explained to outside of OEM filter & replace filter to unit.

## For Hotel Bedroom Installations:

*The Wifi Smart Switch can be Removed from the wiring circuit and replaced with a basic switch, the Device can then be wired directly into a mains circuit which operates via the Hotel Keycard (Light Fixture for example) this ensures the UVC Kit will only power up when bedroom is in use.*

## Under-Ceiling Installation Variants

UVC LED Lamps are to be installed inside the Return Air Section of the Under-Ceiling Unit facing up in a way which ensures UVC LED Lamps cannot be seen from Ground Level.

