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 (CO2 & H20). This product may discolour foam surfaces if exposed directly, however is completely harmless to metals and plastics.

Technical Information		
Voltage	AC 100 – 240V	
Frequency	50/60Hz	
Power Consumption	10w	
Light Source Qty	UVC	2 Pieces
	UVA	8 Pieces
Light Source Power Input	UVC	1.3w
	UVA	5.3w
Radiant Power	UVC	20mW
	UVA	3100nW
Wavelength (nm)	UVC	254nm
	UVA	405nm
(Chamber) UVC Radiation Intensity	59.60μW/cm²	
Operation Temperature Range	-40 – 85°C	
Expected Avg. Lifespan	10,000 Hours / 3 Years	

UVC Radiation Safety Tests		
UVC Radiation	20mW	
Lighting Distance	26.0cm	
Lighting Angle	130 degree	
Lighting Range Length	111.86cm	
Lighting Range Area	12512.52cm2	
UVC Radiation Intesity	1.60μW/cm2	

UVC Radiation Safety Tests		
UVC Radiation	20mW	
Lighting Distance	73.0cm	
Lighting Angle	130 degree	
Lighting Range Length	313.44cm	
Lighting Range Area	98246.52cm2	
UVC Radiation Intesity	0.20μW/cm2	

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/a/n Material: ABS VO Size (mm): 88×38×22

Checklist:

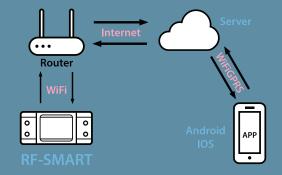
Have a Smartphone or Tablet with access to the Google Play or Apple App Store

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 "Tuya" or "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. Select 'Air Conditioner Wi-Fi' from the Large Home Appliance section.
- 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

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

Use this product only in the manner

This product is to be installed by competent trade professionals. Amateur / DIY installation is prohibited.

manufacturer directly.

'Trade professionals' is deemed as a qualified HVAC technician, or qualified Electrical Contractor. Do not bend the UV Lamps to avoid

to another manufacturer's product

Before installing product, ensure power supply is switched off at local power supply and/or electrical panel. Do not install the LIV lamps in a way which they can be visible to members of

UVC LED's contained in this product emiultraviolet radiation when in operation, which is harmful to eyes and skin. These

LED's are not visible to the human eye.

Do not interconnect parts of this product

If you have any questions please contact your distributor or the product The expected beneficial lifespan of this product is 10,000hrs or 3 Years before replacement is required

SHIVA-NRCS-1016

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



Protect eyes and skin from exposure to UV light.



Contents:

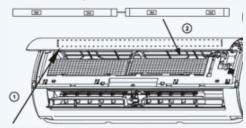
x2 NRCS-1016 UVA & UVC LED Lamps, x1 Driver, x1 WiFi Smart Switch, x1 TiO² Solution Spray,

x4 Film Protect Sticker (For High Wall), x1 Wireless Wall Mount Controller, x1 Keychain Wireless Controller, x8 Cable Ties,

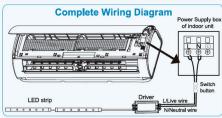
x8 3M Pads (Medium- for LED Lamps) x2 3M Pads (Large- for Drivers & Smart Switch), x1 UVC Radiation Warning Sticker

High Wall Installation

- 1. Power Off AC System.
- 2. Open the Front Panel.
- 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)
- Remove the Panel from the AC Unit and wipe down any dust or dirt build-up, to ensure 3M pads stick to surface.
- 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.



- Replace Panel back on the unit and thread the Smart Switch, and Driver, through to the top of the unit.
- 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.



- 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.
- Spray the TiO² Solution lightly over the Front (Air-On) Side of the filter. Reapply a coat of Solution Spray after each service.

If using TiO² PM2.5 Filter: Cut the fabric size to completely cover the OEM filter. Additional Spray applications are not required for the PM2.5 Filters, they are pre-coated..

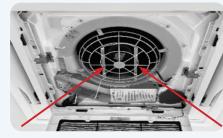


- 12. Replace the Filters to the unit. If High Wall Install the Protective Sticker to the Film in front of the Gold LED. Film can be removed or lightly vacuumed during service visits.
- 13. Apply 'UVC Radiation Warning' Sticker to the outside of the Front Panel.

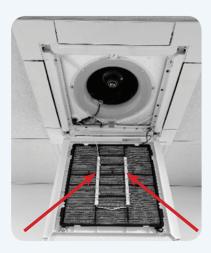


Cassette Installation

- 1. Power Off AC System.
- 2. Open the Front Panel.
- Install LED UVC Lamps into the Unit, via the OEM cable access route, leave the Driver and Smart Switch outside the Unit.
- 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.

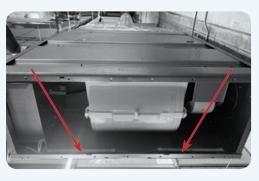


Note: **NEVER EVER** install the lamps to the underside of the filter in direct contact with the OEM Filter, as UVC LED Light will be visible to the public, causing potential harm to eyes. Check the UVC Lamps are secured and cannot fl ip over to either side. Do not block any LED's with Cable Ties

- Remove AC Units' Electrical Box Panel and neatly bring the Device's cable into the electrical supply box. Use a draw cable if required.
- 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. Spray TiO² Solution on the OEM filter. If using PM2.5 Filter- stick to OEM Filter 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 PM2.5 Filter in place).
- 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.

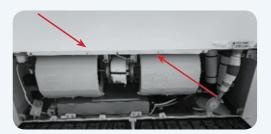
Lightly apply TiO² Solution as previously explained to outside of OEM filter & replace filter to unit.

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.



SHIVA-NRCS-1016 TiO² UVC Air Sterilisation Kit

for new or existing Fan Coil, VRF, or AC Split Systems

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