



USER MANUAL



SP81479

**UV-C
DISINFECTION &
WORK LIGHT**

**RETAIN THESE INSTRUCTIONS
AND ATTACH RECEIPT TO
MANUAL FOR FUTURE
REFERENCE**

NOTE: Proof of purchase must be retained by the customer as it will be required in the event of a claim under warranty.



AFTER SALES SUPPORT:

WWW.SPTOOLS.COM

AUSTRALIA: Visit the website's **contact page** to get in touch with your local service department.

INTERNATIONAL: Use the **county selector** to get in touch with your service department in your country or region.



IMPORTANT

ALL PERSONS WHO ARE TO USE THIS EQUIPMENT MUST THOROUGHLY READ AND UNDERSTAND THIS INSTRUCTION MANUAL PRIOR TO OPERATION.

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WARNING



UV LIGHT HAZARD: EYE & SKIN DAMAGE MAY RESULT FROM DIRECT EXPOSURE TO THE LIGHT PRODUCED BY THESE LAMPS.

CAUTION: NEVER LOOK AT THE LAMPS WHILE THEY ARE LIT OR ILLUMINATED
GERMICIDAL LAMPS EMIT UV-C RADIATION HARMFUL TO SKIN & EYES

IMPORTANT

This manual contains information for your personal safety.
Read and understand all instructions before use.
Save this manual for future reference.



INTRODUCTION

Read these instructions completely with care and observe all advice given.

- Protect eyes and skin from Ultraviolet light exposure.

The operating instructions are part of the UV-C Disinfection Light and must be kept intact with the unit. The manufacturer does not accept any liability for the damage to the product or personal injury caused by non-observance of the safety instructions in this manual, or by negligence during use.

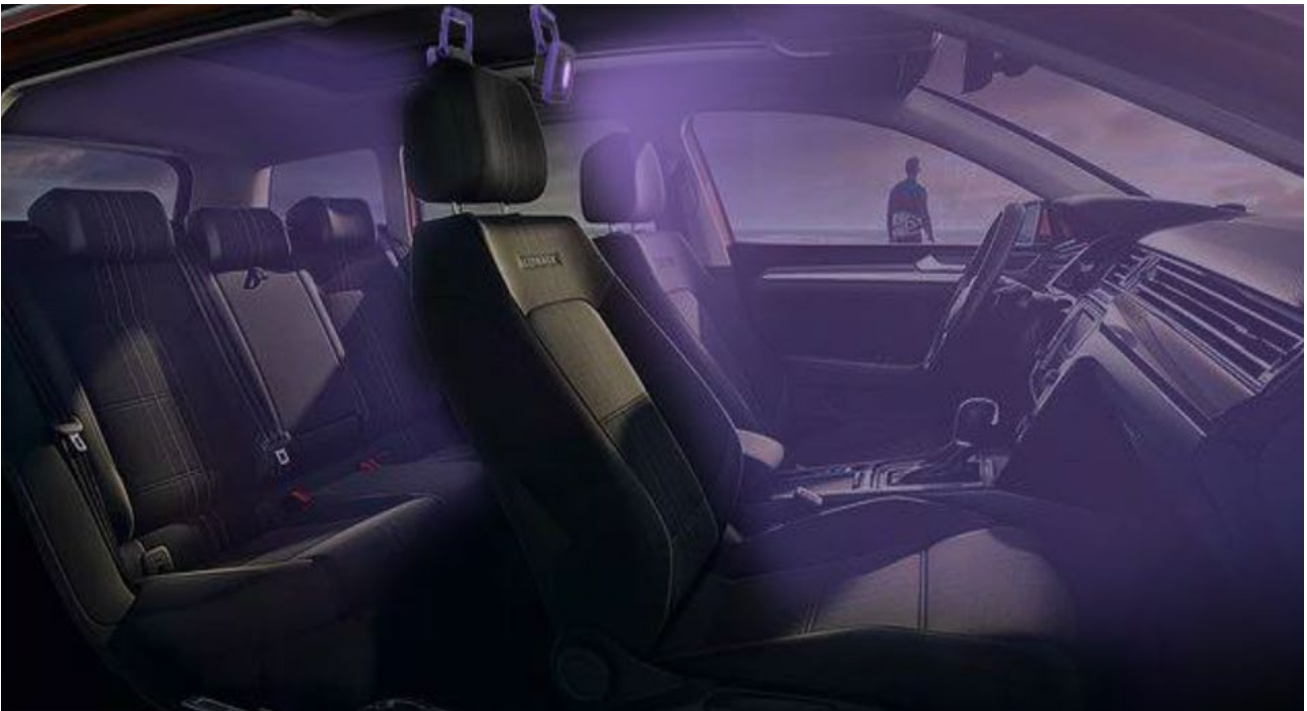
Not to be used where people or animals are at risk of exposure.

Everyone working with or on the product must be familiar with the contents of this manual and must strictly observe the instructions therein. The user of the product is always fully responsible for its safe use and application. Observe all safety instructions and regulations.

Intended Use

TO BE OPERATED ONLY BY PERSONNEL FOLLOWING THE GUIDELINES IN THIS INSTRUCTION MANUAL. Anyone intending to use this device; **MUST READ** and understand the manual thoroughly.

Intended for commercial and domestic applications in nonflammable environments. For the disinfection of surfaces inside vehicles, toolboxes, keyboards, phones, I-pads, door knobs, seats, personal protective equipment PPE, toilet areas, shared devices and the like.



Scope of Delivery

- 1 x Main UV-C Light assembly
- 1 x Safety Glasses
- 1 x USB-C charging cable
- 1 x UV-C Test Card
- 1 x Owner's Manual



Technical data

Capacity - White Light (500lm)	5 hrs. Run Time
Capacity - UV-C Light	7 hrs. Run Time
UV Wave Length	270~280nm
UV Radiant Illuminance	Max 18000 μ w/cm ² , close to surface
Lens material	Quartz
Light Source	SMD LED's
Beam Angle	120°
Charging Time	4.5 hours approx.
Battery Lithium – ion	3.7v / 4400mAh
Charge Voltage & Current	5v / 1000mA
Charging Cable	USB / USB-C
Water Resistant	IP65
Operating Temperature	-10°C - +40°C
Dimensions	145mm x 100mm x 45mm
Weight	385g

Safety Symbols



-----Read Manual



-----Eye Protection



-----Ultra Violet Emission



-----Skin protection

UV-C-----Ultra Violet wave length

V-----Volts

mA-----Milliamps

lm-----lumen



-----Recycle



-----Do Not Throw in Garbage

⚠️ WARNING

What are Ultraviolet emissions?

Ultraviolet (UV) emissions are a form of electromagnetic radiation that comes from the sun and man-made sources like tanning beds and welding torches. Ultraviolet light has shorter wavelengths than visible (white) light; this means that UV waves are invisible to the human eye.

Radiation is the emission (sending out) of energy from any source. There are many types of radiation, ranging from very high-energy (high-frequency) radiation – like x-rays and gamma rays – to very low-energy (low-frequency) radiation – like radio waves. UV rays are in the middle of this spectrum. They have more energy than visible light, but not as much as x-rays.

There are also different types of UV rays, based on how much energy they have. Higher-energy UV rays are a form of *ionizing radiation*. This means they have enough energy to remove an electron from (ionize) an atom or molecule. Ionizing radiation can damage the DNA, which in turn can destroy a virus on a surface but could also lead to cancer on a person. However even the highest-energy UV rays don't have enough energy to penetrate deeply into the body, so their main effect is on the skin.

UV emissions are divided into 3 main groups:

UV-A rays have the least energy among UV rays. These rays can cause skin cells to age and can cause some indirect damage to cells' DNA. UV-A rays are mainly linked to long-term skin damage such as wrinkles, but they are also thought to play a role in some skin cancers.

UV-B rays have slightly more energy than UV-A rays. They can damage the DNA in skin cells directly and are the main rays that cause sunburns. They are also thought to cause most skin cancers.

UV-C rays have more energy than the other types of UV rays. In nature, they react with ozone high in our atmosphere and generally don't reach the ground, so they are not normally a risk factor. However, UV-C rays from man-made sources, such as arc welders, mercury lamps, and UV disinfection bulbs used to kill bacteria and viruses in water, air, or surfaces **do present a risk factor**. The necessary PPE and operational precautions must be taken, just as when using arc welding equipment.

Health issues related to Ultraviolet emissions:

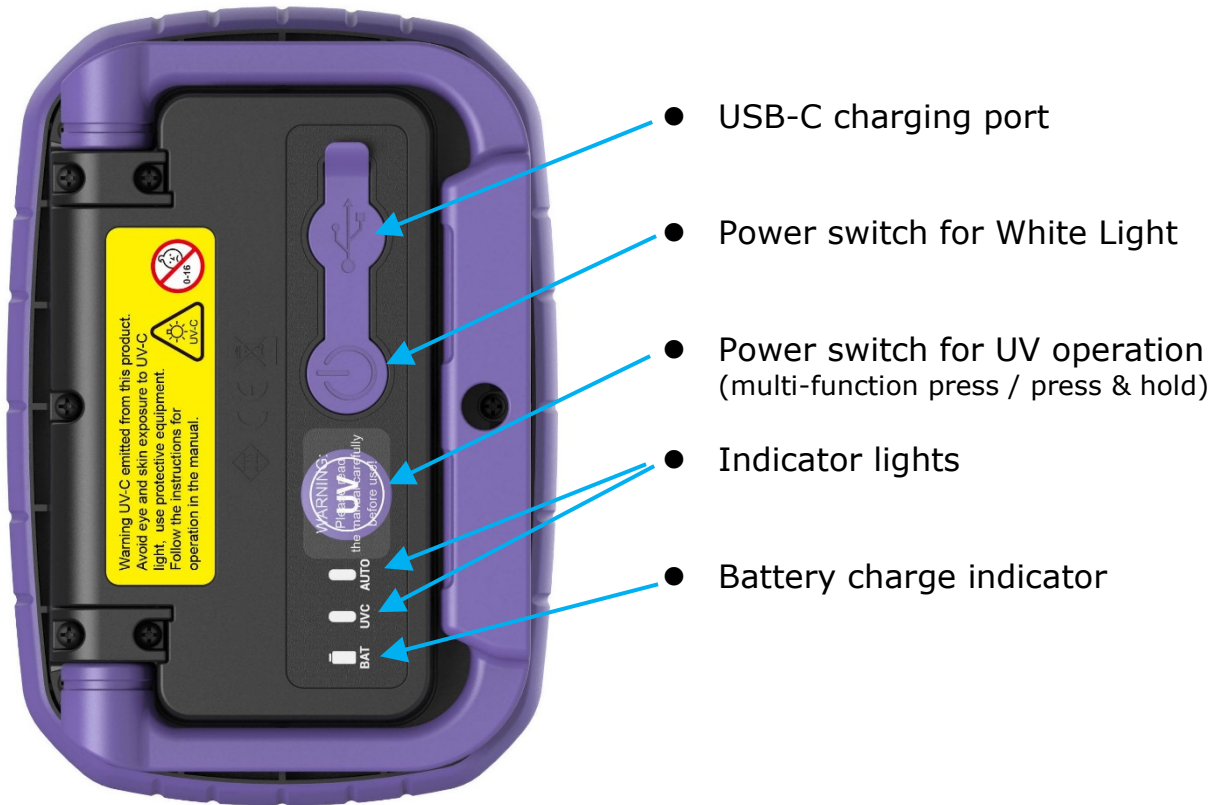
In addition to skin cancer, exposure to UV rays from the sun or artificial sources like tanning beds can cause sunburn, premature aging of the skin and signs of sun damage such as wrinkles, leathery skin, liver spots, actinic keratosis, and solar elastosis. UV rays can also cause eye problems and weaken the immune system.

Product Features:

- Water resistant, compact light and easy use or carrying
- Quartz Lens, for high penetrability of non-visible UV rays
- 210 degree pivoting handle bracket, with strong magnets for hands free operation
- A 3 second time delay ON for safe UV operation in fixed mode use
- Auto Time OFF (15 min) avoids harm from over exposure in fixed mode use
- Motion OFF turns UV rays off when movement is detected during fixed mode operation
- Kills 99.9% of pathogens such as bacteria, viruses and protozoa
- Visible violet light provides visible confirmation of when UV rays are being emitted
- Work light mode provides a useful dual-purpose function, adding value to this tool
- Powerful li-ion battery provides long run times
- USB-C port allows for convenient charging
- Battery level indicator inbuilt



Rear View of unit:



Operation:

UV Manual Mode: - Used for hand held Surface Disinfection

Allows you to sweep surfaces or objects at close range, it is for the handheld sterilization of small areas or items.

To activate “Manual Mode”: Press the UV power switch, this will activate the proximity sensor and allow the UV rays to be emitted once the lens of the unit is held within 3cm of an object or surface. Hold the lens close to the surface and sweep the unit slowly across the area to be sterilized aim to travel at 1cm per second and be sure to overlay each track slightly. Be aware that the UV rays will be extinguished if the unit is moved more than 3cm away from the surface. This is a safety measure to prevent accidental exposure and ensure that the optimal distance for manual mode sterilization is maintained.

You can tell that the UV-C light is working from the UVC indicator lamp on rear of the unit, when UVC indicator lamp is on continuously, the disinfection function is on. When UVC indicator lamp is flashing, the disinfection function is off.

Note: In manual mode, the movement deactivation system is disabled.


UV Fixed Mode: - Stationary use to sterilize a surface for 15 min

To Activate “Fixed Mode” double press the power switch for UV Operation For safety reasons there is a three second delay between activating fixed mode and the UV-C rays coming on.

For added safety, there is also a motion sensor which deactivates the UV rays whenever movement is detected. For visual confirmation when in fixed mode, the UVC and AUTO indicator lamps (on rear of unit) will stay on continuously.

Pushing the UV switch again, will turn the UV function off.

Work light Mode: Used for normal lighting requirements, in the work place, home, outdoors, hiking, camping fishing etc. Note: Turning the work light on automatically turns the UV light off, both cannot be on at the same time.

To Activate “Work Light Mode”: Press the  power switch once, for white light and the unit can be used as a normal work light. Press the power switch again to turn off.

UV-C Test Mode: Used to turn on UV-C emitters only (without any visible light). Test mode is used to test the operation of the UV-C emitters. Enter test mode and hold the lens close to the test card, If the words “**UV-C LIGHT**” become visible on the test card you have confirmed that the UV-C emitters are working.

To Activate “Test Mode”: Press and hold the UV button in, after 2 seconds the UV-C emitters will turn on, now only invisible UV-C light is coming out of the lens - for as long as you hold the UV button in. Once you stop pressing the UV button the emitters turn off.



Battery charger indicator

The battery charger indicator is located on the back of the lamp and consists of a color change LED.

Charging Mode: Green LED flashing when charging, Green LED on when charged.

Charge Level: Green > 90%, Yellow: 89%-16%, Red < 15%.

Charging Port

Next to the on/off switch on the back of the light, underneath the rubberized protective cover, a USB-C charging socket is located. Pull the water-resistant cover up to expose the USB-C port. Plug the USB-C cable end into the light and the USB end into an appropriate USB port (e.g. Computer / Phone Charger/240v USB plug). While charging the process is symbolized by flashing green LED on the battery indicator. When fully charged the Battery indicator LED will be illuminated solid green.

Maintenance:

- Fully charge the light before first use
- Recharge after every use
- When not in use recharge every 3 months
- The lamp must not be switched on whilst being charged
- Use only 5v / 1A charger to charge lamp

Disposal & Recycling Information

When the tool reaches its end of life, take it to a collection point designated by local Authorities for E-wast. The separate collection and recycling of your product at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human, health and the environment.



- The safety features should be regularly checked for proper function
- The product must not be used, if damaged or defective in any way
- Modification of the product is not allowed
- Store in a safe place away from children and untrained personal
- This Disinfection lamp is not a toy - store away from children
- This Disinfection Light must be operated by adults only
NEVER look directly at the UV light while it is illuminated – doing so could temporarily or chronically damage your eyesight or may even result in loss of vision. Failure to follow all instructions listed may result in serious personal injury.
- Use objects to block UV rays for example when disinfecting inside a car, keeping all the windows up prevents UV-C rays escaping the vehicle as they cannot pass through the glass of the vehicles windows. Short wave ultraviolet with wavelength 200~280nm (UVC,) has the weakest penetration ability and cannot penetrate most transparent glass and plastic products. Quartz is an exception and reason this unit is fitted with a quartz lens.
- Avoid using on valuable
- Always wear long sleeved cloths to cover bare skin
- Always wear Glasses with glass or resin lenses
- Always wear gloves to cover hands
- Most importantly, make sure people, pets and plants cannot be exposed to UV rays during sterilization.
- The warnings, cautions and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. The operator must exercise common sense and caution when using this UV-C Disinfection lamp.



Training record:

By my signature, I acknowledge that I have read, and understand, the safety procedures as detailed in this manual:

Date of Training	Name	Signature

- Always wear gloves to cover hands
- Always wear glasses with glass or resin lenses
- Always wear long sleeved cloths to cover bare skin
- Most importantly, make sure people, pets and plants cannot be exposed to UV rays during the sterilization process.

LIMITED WARRANTY

This Limited Warranty applies only to new products* distributed by SP Tools Pty Ltd ("SP Tools"). It is a condition of this Limited Warranty Policy that the purchaser read the owner's manual for the product and only use the product to the extent or for the purposes stated therein. The purchaser must also ensure that all servicing requirements are completed as listed in the owner's manual (said servicing is at the owner's expense). We recommend that all servicing is completed by an authorised service agent and that records of said servicing are retained by the purchaser as proof in the event of a warranty claim.

Whilst the owner's manual, packaging, and/or other documentation supplied with SP Tools' products may provide details in respect of a Limited Warranty, the terms set out herein supersede these matters, and this Limited Warranty applies in their place. This warranty is no less advantageous than otherwise described in such other documentation.

SP Tools agrees, subject to the terms and conditions specified below, to repair or replace at SP Tools' cost, the product purchased by you when the product does not perform in accordance with its specifications during the limited warranty period, due to any fault in manufacturing, materials and/or workmanship. SP Tools is not liable to repair or replace products that the purchaser uses in a manner that is inconsistent with the owner's manual or in the circumstances set out in paragraphs 1.1 – 1.7 below.

The benefits to the purchaser under this warranty are in addition to other rights and remedies under the *Competition and Consumer Act 2010* (Cth). The limited warranty period, within which a defect in the product must appear, commences from the date of purchase and ceases on expiration of the specified term below.

THE LIMITED WARRANTY PERIOD

- SP Speciality Tools – 12 Months



THE PURCHASERS ATTENTION IS DRAWN TO THE FOLLOWING

To the extent permitted by law and subject to this Limited Warranty, and as part of the terms of the sale of the equipment or part thereof: SP Tools shall not be liable for any form of loss, damage, cost, injury or harm of any kind (whether direct, indirect, special or consequential) howsoever arising from the use or supply of the equipment to the purchaser.

EXCLUSIONS TO LIMITED WARRANTY POLICY

This Limited Warranty will not apply where the equipment or any part thereof:

- 1.1 Fails due to an accident (including liquid spillage), abuse, misuse, neglect or normal wear and tear;
- 1.2 Has been used in a manner other than for which it was originally designed;
- 1.3 Has been tampered with or is otherwise than as supplied by SP Tools;
- 1.4 Where any damage, malfunction or other failure of the equipment or any part thereof resulted directly or indirectly from unauthorized persons, adjusting or failing to adjust any part requiring normal maintenance and service (examples include adjustment of tappets, air filter maintenance, lubrication and tightening of screws nuts and bolts);
- 1.5 Malfunctions due to the use of defective or incompatible accessories;
- 1.6 Is damaged by lightning or thunderstorm activity; or
- 1.7 Has been transported to a country where no authorised Service Agents exist.

CLAIMING WARRANTY

This Limited Warranty may be claimed on in the following manner:

- 2.1 In order to make a claim under this Limited Warranty, the purchaser must deliver the equipment or any part thereof to an SP Tools authorised repair agent and pay all costs of transportation and all costs incidental to making a claim under this Limited Warranty. The purchaser must first contact SP Tools (contact details described above) and request the delivery address of an SP Tools authorised repair agent.
- 2.2 The purchaser must deliver to the repair agent written reasons why the purchaser considers that the purchaser has a claim under this Limited Warranty and must provide all necessary details, including:
 - The place, date and from whom the unit or part was purchased.
 - The unit or part involved, Model and Serial Number.
 - The defect, malfunction or failure in respect of which the claim is being made.
 - Proof of service of the unit or part (if applicable)
 - Proof of purchase in respect of the unit or part.
- 2.3 If the Limited Warranty claim is valid, the repair agent will carry out repairs and return the product at no charge to the purchaser. These repairs are limited to the Limited Warranty fault identified and as such will not include any other faults due to misuse, abuse, failure to maintain, fair wear and tear or the replacement of serviceable items such as oil, spark plugs, air filters, fuel etc.

Our goods come with guarantees that cannot be excluded under Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Note: Units which are failing to perform in accordance with specifications due to non-warrantable causes will be subject to freight, repair and or quote charge