

Revealite™

uv-ban™

User Manual

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Revealite™



A high performance UV torch for the detection of fluorescent marks and surface residues.

Product Description

Revealite™ has been designed specifically for the detection of fluorescent marks made by the **Audit™** Marker Pen as part of the **Visible-Trace™** Cleaning Assessment Programme. It may also be used for the detection of surface residues and should not be used for any other purpose.

Contents

The **Revealite™** comes complete with 2 Li-ion rechargeable batteries, a battery charger with European plug and a UK adapter.

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How does it work?

When surfaces are illuminated with invisible UV light any residues present on the surface absorb the light and re-emit light of a longer wavelength, which is visible. This is known as fluorescence and makes otherwise invisible residues appear visible to the human eye. The **Audit™** marker pen places an invisible residue on the surface, which produces a bright white fluorescence when highlighted by **Revealite™**.

To aid visibility of residues, goggles using coloured lenses filter extraneous emitted wavelengths producing greater contrast of the residues against the background.

Virtually all animal and human cells and any material containing protein such as food and dairy products produce fluorescence when illuminated with UV light.

We recommend the use of **uv-ban™ glasses with **Revealite™**.**

Operation

Before using the **Revealite™** UV detector for the first time please make sure it is fully charged. See instructions for charging.

Caution: Always use the **uv-ban™** goggles when operating the **Revealite™** UV detector. Do not point the detector directly into the eyes.

Operation of the detector is straightforward. Switch on by pressing the on/off switch at the bottom end of the torch once. To switch off, press once more.

To detect **Audit™** marks or surface residues shine the light on the surface or object to be tested after cleaning. Fluorescent marks will appear bright white and surface residues will also appear as white marks against the background.

Battery Charging

*** Only use the battery charger supplied
with the Revealite™**

Remove the 2 rechargeable batteries from the detector by unscrewing the bottom of the torch.

Place the batteries into the charger in the direction indicated and plug the charger into the mains power (230V/50Hz) and switch on.

There are LEDs for each battery to indicate the state of charge. The LEDs will be red until the batteries are fully charged when they will turn green.

When fully charged, switch off the charger and remove the batteries. Re-insert batteries and screw the bottom of the torch back into place. Ensure it is tightly in place and seal is not damaged to maintain watertight integrity. Test by switching on briefly.

Technical Data

UV source	High output 395nm LED chip x 5
UV source lifetime (L70)	60,000 hours (estimated)
Warm up	Instant
Wavelength range	395nm - 410nm
Reflector material	Aluminium
Construction material (body)	Aluminium
Power supply	2 x TR18650 re-chargeable batteries. 3.7V Li-ion 2400mAH
Battery run time	Approximately 2-3 hours cont.
Weight (including batteries)	126g
Dimensions	207mm x 55mm (head dia.)
Rating	IP64 waterproof



Due to our policy of continual development we reserve the right to amend technical data.

Contact Us

If you require any assistance or further information:

Call: + 44 (0) 2920 660 148

Email: info@klenitise.com

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UV Protection and Contrast Goggles

Product Features

- Recommended for use with **Revealite™**
- Amber filter lenses reduce interference from extraneous fluorescence providing greater contrast for viewing surface residues
- Lenses are scratch and chemical resistant.
- Lens made from high impact-resistant polycarbonate with integrated side protectors
- Lenses provide total protection from UV allowing extended use
- Complies with EN166 & EN170
- Can be worn comfortably over prescription glasses, with 4-stage sidepiece length adjustment for a good fit
- Includes neck cord and pouch.

Care instructions

- Clean and inspect frequently.
- Pitted or scratched eyewear reduces protection and should be replaced immediately.
- Clean all eyewear surfaces with a mild soap solution, which should then be carefully rinsed off.
- Air dry or pat dry with a clean, soft cloth or tissue.
- Do not use solvent on lenses.



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