Ultraviolet Lamps
from SAS RAD

Introducing an exciting and innovative range of ultraviolet lamps for criminology, document examination, and forensics.

Border Control - passport examination

Banking - counterfeit currency & cheque fraud

Police - scene of crime

Social Security - identification documents

Airlines - inadmissable passengers

Criminology - document examination

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Tough and robust

High quality construction

High output lamps

Designed for the professional

Battery or mains power

Rechargeable versions

SUV-1140

Twin lamp ultraviolet document viewer fitted with two 4 watt linear tubes. Stainless steel reflector with access so that large documents may be pushed through rear. Applications include checking of ultraviolet safeguards on documents and observation of mechanical and chemical erasures. Additional shrouding SUV-S available for high ambient light working areas.

Dimensions: 220 (width) x 180 (depth) x 125 (height)
Weight: 2.0Kg
Power: 220/230/240 volts AC 50Hz

SUV-1160

A larger twin lamp ultraviolet document viewer fitted with two 6 watt linear tubes. Stainless steel reflector and access so that large documents (long edge A4 size), may be pushed through rear. Applications include checking of ultraviolet safeguards on documents and observation of mechanical and chemical erasures. Additional shrouding SUV-S available for high ambient light working areas.

Dimensions: 306 (width) x 180 (depth) x 125 (height)
Weight: 2.5Kg
Power: 220/230/240 volts AC 50Hz
110 Volt version available

SUV-1160C

A larger ultraviolet document viewer, but fitted with two new compact lamps giving the most intense UV light output of all our document viewers. Used for checking UV safeguards on larger documents in areas of high ambient lighting.

Dimensions: 306 (width) x 180 (depth) x 125 (height)
Weight: 2.5Kg
Power: 220/230/240 volts AC 50Hz
110 Volt version available

SUV-1140B

Battery/mains powered versions of the SUV-1140 with integral rechargeable nickel-metal-hydride cells. In-built charger charges battery when connected to the mains supply, even when lamps are on. An overnight charge gives 2 hours continuous lamp use. Two 4 watt ultraviolet tubes mounted on a stainless steel reflector, with access so that large documents may be pushed through rear of the unit. Convenient carrying handle.

Dimensions: (exhandle) 230 (width) x 205 (depth) x 125 (height)
Power: 110/220/230/240 volts AC 50Hz
Integral batteries: 4x Ni-MH D cells
Indicators: Mains on + Charging

SUV-Investigator with SPP-7A

A powerful portable search lamp for scene of crime, leak detection and environmental health applications. A 9 watt compact lamp, housed in a specially designed reflector housing, gives an equivalent UV light output to much more powerful mercury arc lamps. Other advantages over mercury arc lamps are the instant start, with full light output achieved in a few minutes, low heat output, longer effective life (5000 hours plus), lower cost and instant re-start after being switched off. The Investigator is very lightweight and has a convenient pistol-grip handle. Power is from any 12 volt DC source, and when used with our PP-12A battery pack the whole system becomes completely portable, and may be used in any location.

Dimensions: 270 (length) x diameter 170 at front and 100 at rear
Weight: 1.2Kg
Power: 12 volts DC at 1 amp

SUV-1140C

Single lamp version of the SUV-1140, but using a new compact ultraviolet lamp which gives approximately 5 times more UV light output than linear tubes. Applications are for checking UV safeguards in areas of high ambient light or for examination of documents for solvent staining and erasures. An eye protection window is fitted so that it is not possible to view the lamp directly in normal use.

Dimensions: 220 (width) x 180 (depth) x 125 (height)
Weight: 2.0Kg
Power: 110/220/230/240 volts AC 50Hz

SUV-Examiner

A mains powered ultraviolet bench lamp for examination in a laboratory environment. Using a similar housing to that of the Investigator, but mounted on an articulated support arm. The new 9 watt compact lamp used produces a powerful concentrated UV light beam with the advantages over mercury arc lamps of long life, instant start and re-start, and low heating. Applications include the detailed examination of documents, examination of crime evidence or location of security markings under high ambient lighting. The articulated arm comes with a "C" clamp as standard for edge of bench mounting. Alternatively, the "C" clamp may be removed and the articulated arm screwed to a bench or wall.

Power: 110/220/230/240 volts AC 50Hz

SUV-Investigator II

Identical in all respects to the Investigator, but power is from the mains supply. The lamp ballast is in a plug-top housing and the standard 5 metres of cable allows easy movement for room searches.

Power: 110/220/230/240 volts AC 50Hz

SPP-7A

A rugged portable battery pack for use with our UV Investigator. When fully charged, the SPP-7A will give over 4 hours continuous use with the UV Investigator.

Built to a very high specification, the SPP-12A has been designed to withstand hard day to day usage by professionals. Housed in a tough welded steel case, with a protective lip to prevent damage to fron panel components, the PP-12A comes with a carrying case with shoulder strap.

The SPP-7A is supplied with a plug-top charger and has a built in battery status indicator. The indicator is a 10 segment bar graph controlled by a battery status switch.

Dimensions: 175 (height), 170 (width), 95 (depth)
Weight: 4.5Kg
Output: 12 volts DC at 10 amps max
Capacity: 7Ah

SUV-Illuminator

A very robust battery powered portable lamp, with two 4 watt lamps, housed in a strong aluminium extrusion. The internal nickel-cadmium rechargeable battery will give over 2 hours continuous use after an overnight charge, equivalent to a normal day's usage. A separate power supply is supplied for charging, but the Illuminator may be charged from any DC source between 9 and 18 volts. Applications include checking of security marks on property, checking security safeguards on passports, visas, driving licenses, checking documents for erasures and alterations and scene of crime usage.

Dimensions: 255 (width) x 70 (depth) x 90 (height)
Weight: 1.45Kg
Power: 9 to 12 volts DC at 500mA

SUV-Illuminator II

A mains powered version of the Illuminator, with a single compact UV lamp, in a similar aluminium extruded housing. The compact lamp gives approximately 5 times the UV light output of a single conventional linear tube. Light and easy to handle, the Illuminator II has similar uses to that of the Illuminator, but with the increased light output the Illuminator II is particularly useful in scene of crime investigations.

Dimensions: 275 (width) x 70 (depth) x 90 (height)
Weight: 1.2kg
Power: 110/220/230/240 volts AC 50Hz

SUV-300

A pocket UV Lamp which is useful for the rapid checking of currency and property security markings. Powered by two AA size batteries

Dimensions: 85(length), 65 (depth), 20 (width)
Weight: 45 gms (excluding batteries)

Stand Loupe

A useful stand magnifier for the checking of the size of printed features and typeface sizes. Has 10 x magnification and a graduated reticule in millimetres and degrees for angular measurements.

Dimensions: 45 (height) x 50 (diameter)
Weight: 42 gms

SUV-500

A convenient hand-held 4 watt ultraviolet source with an additional white torch for checking indented writing, raised paper fibres caused by mechanical erasures and for checking transmissive security features such as watermarks, security threads and perfect resolution. The ultraviolet light is one of the most widely accepted light sources for document examination. UV can visualize invisible security safeguards, check paper quality and highlight chemical erasures.

Dimensions: 152 (length) x 52 (depth) x 20 (width)
Weight: 87 gms (without batteries)
Batteries: 4 x AA size

SUV-400

A hand held UV lamp with a single 4 watt tube. Requires four AA size batteries. Similar to the SUV-500 but without the white light torch.

Dimensions: 160 (length), 54 (depth), 25 (width)
Weight: 90 gms (excluding batteries)

SMS-30

An illuminated portable microscope with 30x magnification and a pull-out 8x magnifying glass. Useful in security document examination for the checking of microprint and the investigation of stitching on passports. Microprint is very fine printing which to the naked eye appears as a continuous line, but under high magnification printed logos or words are revealed.

Dimensions: 20 (width) x 45 (depth) x 140 (height)
Weight: 64 gms (excluding batteries)
Batteries: 2 x AA size

Retroviewer

A hand-held viewer for checking the 3M Confirm™ security laminate. The Confirm™ laminate is used on many passports and identity cards primarily to discourage the substitution of the holder's photograph, but it also protects any biographical details on the document. The Confirm™ laminate has an embedded hidden image which may only be seen with the special retroviewer. Any damage caused by photograph substitution or attempts to lift the laminate is readily seen, as is the substitution of the whole laminate.

Batteries: 2 x AA size
Dimensions: 105 (length) x 50 (width) x 18 (depth)
Weight: 24gms (excluding batteries)

Goggles

A pair of eye protection spectacles. Useful with prolonged and close up use of our criminal investigation lamps. The goggles will prevent any possibility of eye strain where usage exceeds the recommended safe periods or distances.

Note: All our lamps have been tested by the National Radiological Protection Board and are safe to use without eye protection during a normal 8 hour working day. This information is available on request.

SUV Lamp Accessories and Spares

SUV-S

A pair of neoprene shrouds to give additional ambient protection at the sides of the SUV-1140, SUV-1140B, SUV-1140C, SUV-1160, SUV-1160C. Attached with Velcro tape to the side of the instruments.

Dimensions: 90 x 100 x 1mm

Spare Lamps

SUVA-400	4 watt 150mm black light blue, 366nm
SUVA-600	6 watt 220mm black light blue, 366nm
SWL-400	4 watt 150mm cool white lamp
SUVA-900	9 watt compact black light blue, 366nm

SDK-02 Forgery Detection Kit

The *SDK*-02 is a handy kit for the detection of many types of fraudulent documents in Front Line areas such as at Airports, Borders, on board ships or for Mobile Patrols. Particularly suited for passport and identity card control, the *SDK*-02 will be useful for airline security personnel and immigration officers who need to check for forged travel documents at departure gates or at airline steps where mains power is not available.

Resulting from the first-hand experience of immigration officers and border guards over many years, the *SDK*-02 contains all the necessary tools for the detection of forgeries, alterations, erasures and for the checking of security safeguards.

All the tools are housed in a soft nylon bag and are protected from damage by deep cut-outs in a foam lining. The kit is available ready for use with all batteries fitted and with a full complement of spare lamps if required. A comprehensive easy to read manual enables the user to become rapidly familiar with the contents of the kit and how to carry out simple document checks as well as giving service guidance.

- *SDK*-02 dimensions: Size: 260 x 180 x80 mm
- Weight: 720 gms with spare lamps and one set of batteries.
- 25 mm wide adjustable shoulder strap with soft pad.
- Internal clear wallet for location of the size template, instruction manual and users documents.

Contents

Ultraviolet Lamp SUV-500
Retroviewer
Microscope SMS-30
Stand Loupe
Eye Loupe
Size Template
Tweezers
Carry Case

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