



FINGERPRINT PRODUCTS
INFRA-RED DOCUMENT EXAMINATION
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FRONT LINE DOCUMENT EXAMINATION
SEARCH EQUIPMENT



MDV-05

Mobile Document Verification Kit

Portable technology for travel document authentication

The mobile document verification kit MDV-05 is a compact system for the easy verification of document security safeguards and for the detection of counterfeit and forged documents. Particularly well suited for passport and identity card checks at airports, border crossings, on board ships or during field operations targeted at illegal immigrants, the MDV-05 kit is lightweight and easily carried in a pocket or worn on a belt.

The MDV-05 comprises two parts, a compact magnifying device with five lighting modes and a specialised viewer for verifying retroreflective security features such as the 3M Confirm™ laminate. The magnifier is a high quality two lens system giving the MDV-05 superb, very low distortion imaging.

To save battery energy the MDV-05 Magnifier can be also powered via a USB cable from a PC or laptop or from a mains adapter – also supplied. The MDV-05 is supplied in an attractive presentation box ready for use, with all batteries included, an instruction leaflet and a cloth for cleaning the lenses.



MDV-05

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OPERATING INSTRUCTIONS FOR THE MDV-05 MAGNIFIER

(See separate instruction leaflet for the MDV-05 Retroviewer)

Battery Installation

Open the battery compartment by pressing the release tab and lifting off the battery compartment door. Fit 3 x AAA batteries with the negative [-] of the batteries to the 3 springs

USB Power

Plug the supplied USB cable into the USB socket at the front of the MDV-05 Magnifier and connect to the USB outlet of a PC or Laptop computer or use the supplied mains adapter. (If batteries are already fitted they may be left in the MDV-05 Magnifier as there is no battery drain when USB power is used)



OPERATION

- 1 To switch on press the power button for approximately 1 second and release, four overhead white LEDs will come on initially and then run alternatively
- 2 Press the white light button and all four overhead white LEDs will come on constantly
- 3 Press the white light button again and the oblique LEDs will be powered; on pressing the white light button again the oblique and overhead LEDs will alternate
- 4 Repeated pressing will sequence between overhead, oblique and overhead/oblique alternate
- 5 To revert to the alternative mode of the overhead white LEDs press the power button again
- 6 Press the UV light button to switch off any white LEDs and switch on the 365nm UV light source
- 7 Press the UV light button again to switch on the infrared (IR) light source for the visualisation of Anti-Stokes inks, (as the IR source is invisible, a low power white LED indicates that the IR source is on)
- 8 Press the UV light button twice more to return to the UV light source
- 9 To switch off hold the power button for approximately 2 seconds

If no button is pressed for a few minutes the MDV-05 Magnifier will switch off automatically to prolong battery life.

SPECIFICATION

Light Sources MDV-05 Magnifier and Retroviewer

- 1 Four white LED light evenly illuminate the inspection area for examination of fine print and microprint
- 2 Four alternating white LEDs at 90° for the visualisation of OVDs, DOVDs such as holograms and kinograms
- 3 Two white LEDs mounted close to the document surface providing oblique illumination for the inspection of dry stamps and for visualising mechanical alterations
- 4 A UV LED emitting at 365nm for the checking of invisible fluorescent printing, UV planchettes and other UV security safeguards
- 5 A 980nm high power infrared (IR) LED for the excitation of Anti-Stokes security features. (A visible LED is also switched on with the IR LED as an indicator that this light source is activated)
- 6 Retroviewer - a single pre-focused tungsten bulb illuminating a partially reflecting internal mirror for visualising of retroreflective security features

Optics

The MDV-05 magnifier lens comprises a two part high quality optical system with minimum distortion and aberration. The highest quality lens system available in this type of device. diameter 30mm, magnification 10X.

Power

MDV-05 Magnifier – 3 x AAA size batteries (Alkaline preferred)
PC or laptop with supplied USB cable
A mains adapter with a USB cable

The batteries are disconnected when the USB cable power is used in order
MDV-05 Retroviewer – 2 x AA size batteries (Alkaline preferred).

Mechanical

MDV-05 Magnifier – 95x65x52mm, weight 55 grams (without batteries)

MDV-05 Retroviewer – 105x50x18mm, weight 24 grams (without batteries)

Additional features MDV-05 Magnifier

Power save - When being used on batteries the unit will switch off after a few minutes if no switch is pressed.

Safety - The lens system has a special coating that will not transmit any ultraviolet light to the user's eye.

The plastic moulding of the Magnifier has a special soft feel non slip finish so that it is easy to hold in adverse conditions.

Cleaning - A soft lint free cleaning cloth is supplied with each kit for lens cleaning.

Carrying Pouch

Supplied with each kit is a soft carrying pouch with separate compartments for the MDV-05 Magnifier and Retroviewer, and with an additional compartment for spare batteries; the pouch has a loop and lockable hook for attaching to the user's belt.

In the Box

MDV-05 Magnifier, Retroviewer, carrying pouch, 3 x AAA alkaline batteries, 2 x AA alkaline batteries, mains power adapter, USB cable, cleaning cloth, instruction leaflet.



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