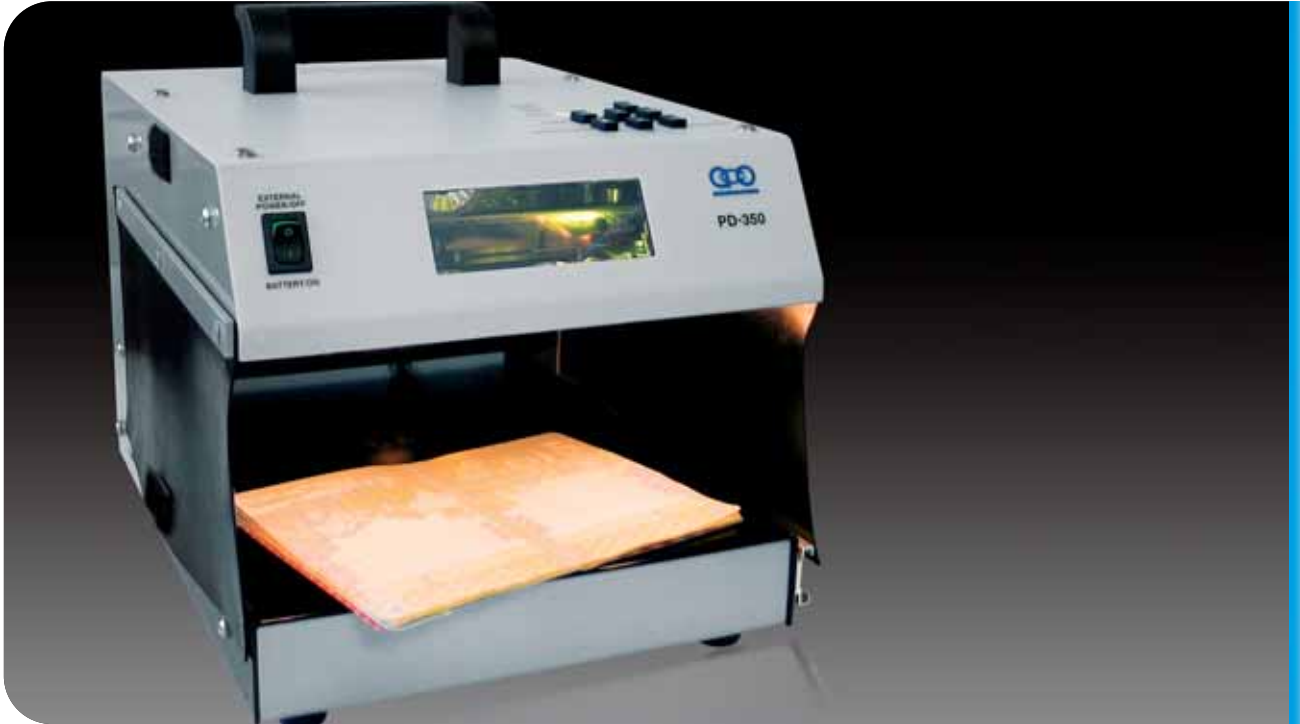




FINGERPRINT PRODUCTS
INFRA-RED DOCUMENT EXAMINATION
ULTRA-VIOLET LAMPS
FRONT LINE DOCUMENT EXAMINATION



PD-350

Portable Forgery Detection System

*A mobile system for the detection
of all types of false documents*

Features:

Rechargeable 7Ah NiMH Batteries

Fast Charge

Battery Charge Indicators

Soft Carrying Case

Six Light Sources

Sleep Timer

Lightweight

Unobstructed Working Area

New version with LED Light Source



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PD-350 Specification

Standard System

LIGHT SOURCES

Ultraviolet:

Long wave (365nm) Ultraviolet compact 9 watt lamp housed in a stainless steel reflector housing provides intense UV illumination over the working area.

Incident Visible:

Two arrays of four 1.3 watt tungsten filament lamps provide an even illumination of the working area for the examination of documents when the PD-350 is used in areas of poor ambient lighting

Transmission:

An array of nine 1.3 watt tungsten filament lamps for the examination of transmissive security features. A diffusing window ensures very even illumination.

Oblique:

An array of five high intensity white LED lamps mounted at the rear of the working area produce low level glancing illumination for the examination of indented writing, dry stamps and erasures.

Retroreflective:

A 5 watt dichroic reflector lamp which together with a special front window allows the visualisation of retroreflective security features such as the 3M confirm™ laminate.

Lamp Switching:

All the lamps are separately controlled by push button switches, each with an indicator. To save battery power an energy saving circuit will switch off any lamp that is on after approximately nine minutes of inactivity. The power on indicator then switches from green to red to show that the PD-350 is in the energy saving mode.

ELECTRICAL POWER

Internal:

A 7.0 Ampere hour (Ah) internal Nickel Metal Hydride (NiMH) battery which gives more than two hours continuous use when fully charged. Operational battery life will be much greater than two hours and will depend upon operator usage.

External:

Nominal 12 volts dc at 5 amps required. Any 12 volt dc power supply capable of sourcing 12 volts at 5 amps may be used. With suitable connecting cables the PD-350 may be run from a vehicle supply.

A switched mode external power supply with mains cable is supplied with each standard system. Specification: Power input 100 to 240 volts ac at 1.8 amps, power output 12 volts dc at 5 amps. Dimensions 110 x 60 x 35 mm, weight 550 grams with cable. A cable is supplied to suit local power outlets.

Two DC cables are supplied as standard, one for connection to the cigarette lighter socket of a vehicle and one with battery clips for connection to a vehicle or other battery.

Battery Management:

The PD-350 has a sophisticated charge management system which controls a fast charge system. From an empty battery to full charge takes approximately two hours and charging then switches to a stand by mode. Indicators on the PD-350 control panel show the mode of charge at any time.

To ensure that the PD-350 is not taken on a field operation undercharged, the PD-350 has a five indicator charge status display which shows the amount of charge left in the battery.

Charging is automatic on application of power to the external power socket. All lamps are then powered from the external power source and there is no battery discharge.

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MECHANICAL

Open sided construction with flexible neoprene shrouds allowing documents to be examined easily with minimum ambient light interference.

Open at rear of working area so long documents can be pushed through.

Fitted with a top comfortable handle for easy transport.

Width: 235 mm Height: 125 mm (excluding handle) Depth: 345 (including rear connectors)

Weight of PD-350 alone is 4.6Kg when fitted with option SW-350, 4.4Kg without this option.

Weight of PD-350 in the carrying case, with power supply, all leads and tools is 6kg.

COMPONENTS OF STANDARD PD-350 SYSTEM

- PD-350 chassis with internal 7Ah internal battery
- Switched mode charging power supply
- Mains cable with plug to suit local power outlet
- Vehicle cigarette lighter power lead
- Battery power lead with battery clips fitted
- Soft carrying case with two tool pockets
- Handheld Magnifier with 2.5X magnification and a highlight section of 5X
- Stand Loupe with magnification of 10X and a reticule
- Tweezers type 7A
- Handheld Microscope with magnification of 30X for checking Microprint
- Eye Loupe for hands free investigation, 7.5X magnification
- Plastic Template for measuring and comparing print sizes

OPTION

Option 1:

SW-350 - Short Wave Ultraviolet Lamp

An additional 9 watt short wave (254nm) lamp mounted behind a visible blocking UV filter. This lamp will highlight certain security features that are not visible with the standard long wave (365nm) lamp. The UV radiation from this lamp is dangerous to the eye and skin and so with this option a pair of eye protection goggles and soft gloves is supplied. With SW-350 option the power on indicator flashes from green to red as a warning that this lamp is switched on.

