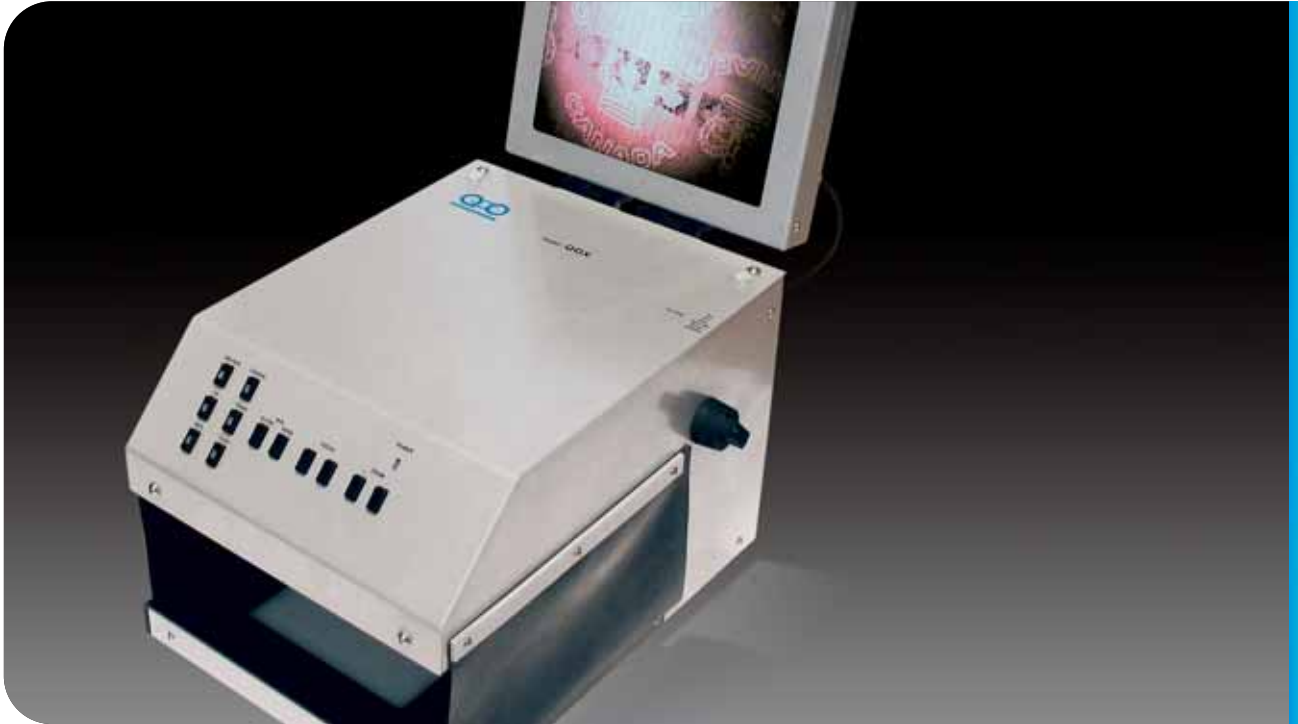




FINGERPRINT PRODUCTS  
INFRA-RED DOCUMENT EXAMINATION  
ULTRA-VIOLET LAMPS  
FRONT LINE DOCUMENT EXAMINATION



# *mini-QDX*

*Portable Infrared Document Examination*

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

**Features:**

- Rugged construction*
- Colour system*
- Extremely compact*
- High performance*
- Motorised lens system*
- Easily transportable*
- Power saving sleep function*
- Soft carrying case option*





## mini-QDX Specification

### Standard System

The mini-QDX is a compact Infrared Document Examination System for the inspection of security documents in areas where space is limited, such as at immigration control desks or where portability is essential, such as on mobile patrols. With six light sources, a colour camera and monitor and a motorised zoom lens, the mini-QDX has all the features of larger systems, but in a very compact package and at a fraction of the cost. For countries with illegal immigration problems, the mini-QDX will prove an invaluable tool in detecting falsified and counterfeit travel documents at border crossings, either at static control points or in mobile operations.

The standard mini-QDX is supplied with a universal external power supply, but it may be powered from any external 12 volt dc source, such as a vehicle battery. Where portability is required the mini-QDX can be supplied with a padded carrying case.

### LIGHT SOURCES

Six integral light sources with push button control and LED lamps to indicate which lamp is being used.

#### Infrared/Visible:

6 x 1.3 watt T6.2 lamps arranged to give even illumination over the working area.

#### Infrared Fluorescence:

A single 20watt tungsten halogen lamp with heat and IR blocking filters for infrared fluorescence work.

#### Ultraviolet:

A single compact 9 watt 365nm (long wave) lamp for visible fluorescence work and the examination of invisible security safeguards.

#### Transmission:

12 x 1.3 watt T6.2 lamps mounted behind a diffusing window for the examination of transmissive security features such as watermarks and perfect resolution printing.

#### 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 tungsten halogen reflector lamp mounted to give coaxial illumination for the examination of retroreflective security laminates.

#### Monitor:

An 8.4 inch (diagonal) LCD monitor mounted at the rear of the Mini-QDX. Position adjustable to suit the operator. The monitor folds flat on top of the mini-QDX for transport.

#### Camera:

1/3 inch Inter-line colour CCD camera with visible and infrared sensitivity (400 -1100nm range). Electronic iris, 752 x 582 lines – 437,664 pixels. PAL standard TV system, but NTSC available to order.

#### Camera Filters:

Visible 400-700 nm  
Blue longpass 435nm  
Orange longpass 570nm  
Red longpass 610nm  
IR 1 longpass 715nm  
IR2 longpass 780nm

### ACO Electronics Limited

Unit 3, Manor Farm Business Park, Wendy, Royston,  
Hertfordshire SG8 0HW United Kingdom

Tel: +44 (0)1223 208 222 Fax: +44 (0)1223 208 150

sales@acoelectronics.com

The filters are mounted in a manual filter wheel with a rotary control at the right side of the mini-QDX.

#### Lens System:

A motorised 7 x zoom lens with push button control of zoom, focus and iris.

Image size: 122 (H) x 87(V) to 19.5(H) x 14(V) mm

#### Video Output:

A BNC socket at the rear for connection to other video equipment such as a VCR or computer video card.

1 volt p-p @ 75 ohms.

### ADDITIONAL FUNCTIONS

#### Sleep timer:

Unit switches to standby after approximately 10 minutes of operation if none of the lamp switches have been pressed in that period. Normal operation is resumed when any lamp switch is pressed.

### MECHANICAL

#### Document Capacity

210 mm into instrument and unrestricted width. Two neoprene removable side shrouds exclude ambient light when working on weak fluorescing inks or when using the oblique light source.

#### Footprint:

230mm(width) x 310mm(depth). Height 202mm (excluding monitor). Weight 6.5Kg

#### Power:

Nominal 12 volts DC at 4.5 Amps maximum. Working range 10 to 15 volts. Input via a 2.5mm jack socket (centre positive). An external switched mode power supply is supplied as standard.

#### Power supply specification:

Input: 100-240 volts ac at 1.8 amps  
Output: 12 volts dc at 5 amps

### OPTION

#### mini-QDX Carrying Bag

A soft padded carrying bag with foam padding gives complete protection during transit. The bag has a storage area for the power supply and other document examination tools. With this option two power leads are supplied for running the mini-QDX from a vehicle power, either from a cigarette lighter socket or directly from the battery with battery clips.

