



QDX-630BE

QUESTIONED DOCUMENT EXAMINATION SYSTEM



The new **QDX-630BE Questioned Document Examination System** utilises the latest dual colour /monochrome technology for the detailed examination of all types of suspect documents. Fraudulent practices such as additions, alterations, obscurations and erasures to documents may be easily exposed using a variety of non-destructive optical techniques, which include Infrared Reflectance and Fluorescence.

An essential tool for the Forensic laboratory, Immigration Control, Fraud Investigation and for the Independent Document Examiner, the **QDX-630BE** is a most cost-effective system for combating the increasing problem of document crime.

STANDARD FEATURES

- Low light Colour Camera
- High power Ultraviolet
- Infrared Illumination
- Motorised Lens Control
- 16 Camera Filters
- Oblique Illumination
- Coaxial Illumination Option
- 5 sets of Lamp Filters

QDX-630BE SPECIFICATION

Light Sources

Ultraviolet

Two 9 watt compact lamps. 365nm Long wave illumination

Infrared/Visible

Two 10 watt tungsten halogen lamps housed in diffuser housings give a very even illumination of the working area.

Infrared Fluorescence

Two 75 watt Tungsten Halogen reflector lamps with heat and IR blocking filters, producing an intense blue/green illumination. A set of filters supplied as standard for modification of the illumination wavelength.

IR Source

Three High intensity Infrared LEDs. Almost monochromatic at 880nm.

Oblique

IR Pen (IR-630B). Two high power IRLEDs mounted in a convenient hand held probe. Additionally two 20w light sources mounted either side of the working area.

External Fluorescence (BG-630B)

A single 20 watt tungsten halogen reflector lamp mounted in a handy hand held housing with a push button switch. With integral heat and IR blocking filters, the BG-630B may be used to contribute additional light power to the internal IR Fluorescence source or may be used as a visible oblique light.

Transmission (LB-630B)

Two linear 30 watt incandescent lamps mounted behind a diffusing window below the working area. Intensity of the lamps is adjustable. Additionally a UV lamp at 365nm.

Coaxial Light Source

A 20w adjustable intensity light source for visualising retroreflective security features.

Monitor

LCD/TFT 15" 1024 x 768 pixels. High resolution colour monitor with menu control of all functions. This monitor is both a video and computer monitor.

Camera

Ultra Super high sensitivity near infrared imager, with both colour and monochrome capability. 1/3 inch interline CCD with 752(H) x 582 (V) resolution.

Minimum illumination 0.005 lux at F0.75. Auto iris operation. 400 to 1100 nm range.

Video Output

BNC female socket for connection to monitor or video accessories. 1 volt p-p @ 75 ohm.

Lens system

10:1 motorised zoom lens system with additional high quality close-up lens. Motor control of zoom, fine focus and iris.

An additional focus control compensates for focus changes with filter wavelength.

Magnification on 14 inch monitor: 21X

Image sizes: 130(H) x 100(V) to 13(H) x 10(V)mm

Camera Filters

Two filter slides with one bandpass and 15 longpass 22 mm filters. Filter slide one FS/1: 400-700, 475, 515, 570, 610, 645, 665, 695nm
Filter slide two FS/2: 630, 715, 735, 760, 780, 830, 850, 930, 1000nm

IR Fluorescence Filters

Eight sets of lowpass and longpass filters for modification of the IR fluorescence excitation wavelength. The filters are installed in filter slide FS/3 and positioned under the IR Fluorescence lamps.

All the filters and slides are supplied housed in a padded plastic case.

Mechanical

Size: 580 (width) x 405 (depth) x 340 (height)

Document capacity: 525 width with unrestricted length.

Power

240/220/110 volts a.c 50/60 Hz. (To be specified when ordering)

Accessories

Video printers

Various video printers are available. The model illustrated is the Mitsubishi CP910E colour printer. This is supplied with a paper and print roll pack capable of 200 prints.

Spares Kit (SK-630BE)

A 1st line spares kit for the QDX-630B containing spare lamps, filters and fuses. (A detailed parts list is available)

Forenpix Analysis System

A sophisticated PC based measurement and image enhancement system. Among the many features available are image comparison, image overlay, contrast enhancement and image archiving. A separate data sheet is available.



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