



Bottle Scanner
Technical Specification



The Kromek Bottle Scanner is a desktop inspection unit designed to screen liquids in bottles where threat items may be present. The unit identifies scanned items against a database of materials and gives a response within twenty seconds. Multi-spectral digital detectors and the Kromek ADMiT™ algorithm provide fast, accurate identification with very low false alarms.

Product Description

The Kromek Bottle Scanner is a desktop inspection unit which uses a non-invasive patented x-ray technique to analyse the content of bottles and other containers to determine if they contain any threat liquid. The system performs the analysis of sealed bottles without the need for any sample preparation and the results are available in less than 20 seconds.

Technical Description

The Kromek Bottle Scanner uses digital multi-spectral x-ray detectors with a single x-ray source. The system is capable of the simultaneous analysis of typically 16 programmable energy levels in the 40 to 140KeV range. This produces spectral information on the contents of the bottle, which is then analysed by the ADMIT™ algorithm. The system then displays whether the liquid is a pass or fail.

Product Operation

- The bottle is placed in the scanner and the lid is closed
- The scan is initiated by means of a single push button
- The result is clearly displayed on the LCD screen showing either pass or fail.



Key Benefits

Quick

Less than 20 seconds scan time

■ **Non-invasive scanning**

The bottle does not need to be opened for scanning

■ **Accuracy**

Provides highly accurate liquid identification using multi-spectral analysis and Kromek's ADMIT™ algorithm

Easy

Automated analysis and categorization

■ **Convenience**

The bottle is placed on a cradle and the system is closed. Single button operation results in a simple pass or fail indication on the LCD screen

■ **Minimal operator training**

Simple to use and hence minimal operator training required

■ **No sample preparation**

No sample preparation ie removal of labels, etc

Versatile

User-configurable categorization

■ **No consumables or waste**

No swabs or other consumables are needed for system operation

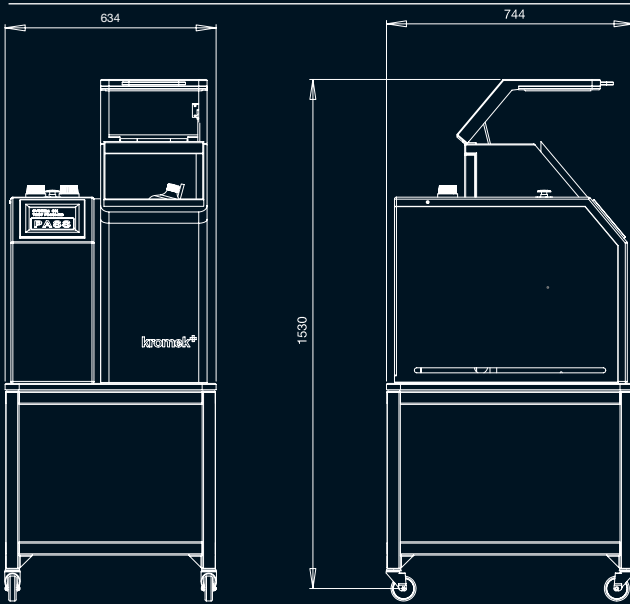
■ **Self-calibrating**

The system performs a self-calibration on start-up

■ **Future proof**

The programmable database allows for updating as new threats are identified

Specifications



■ Maximum Bottle Dimensions

From 20mm – 100mm diameter.
From 50mm – 300mm high

■ Bottle shape

Any

■ Liquid Volume

80 – 2000ml

■ Types of bottles

Glass, plastic, metal and cardboard. Labels and surface finish do not affect accuracy of detection

■ Power Requirement

Voltage: 110V (60Hz) / 240V (50Hz)
Auto sensing
Current: 13 amp single phase

■ Safety

CE Marked
X-ray emission: <0.1mrem at 10cm
Designed to comply with US Federal Standards

■ Operating Environment

Temperature: 0°C to 40°C
Relative humidity: 5% to 85% non condensing.

Whilst all efforts have been made to ensure accuracy at the time of publication, the information contained in this Technical Specification is subject to change without prior notice.

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