

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

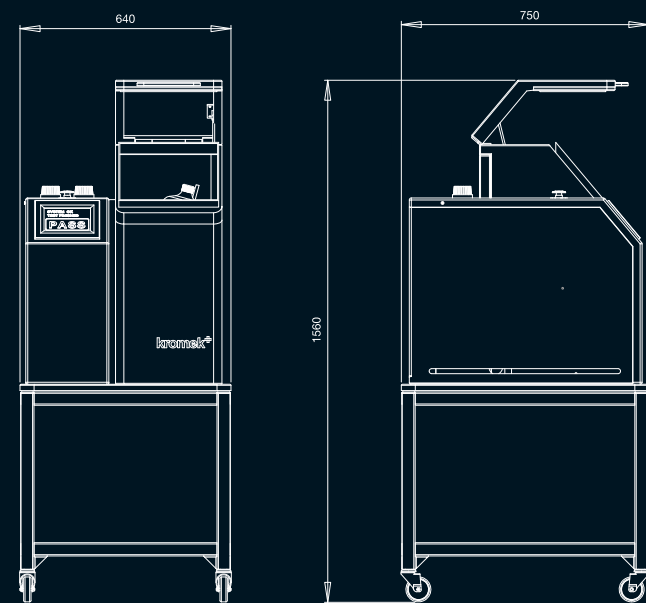
■ Safety

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.



Bottle Scanner: Verifier



kromek⁺
detect image identify

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The system scans and analyses the contents of any container type including metal, coloured and opaque.

The results are available in less than 30 seconds.

The Kromek Verifier

The Kromek Verifier is a desktop inspection system that uses an x-ray spectral imaging technique to verify or confirm the contents of any container with volumes up to 2 litres.

The Verifier is particularly appropriate where a known set of items require scanning and where the tampering with contents either by substitution or addition presents a measurable risk.

With its existing and upgradeable database of over 1000 commonly sold duty-free items, the Verifier is ideally suited to airport transit area security checkpoints for transfer passengers to screen containers originating from duty free stores, outlets and warehouses.

For areas in which items entering buildings require to be controlled, the Verifier provides simple and efficient screening for banned items such as alcohol substituted for water or narcotic substances dissolved in carrier liquids.

How the technology works

The system uses leading edge, multi-spectral x-ray techniques to categorise the item against a digital spectral database record and verify whether the item matches the database. The Verifier incorporates Kromek proprietary detector technology and material analysis algorithm to directly convert the multiple energy x-ray levels for comparison against the database and translate into a simple PASS/FAIL screen readout for the User.

The database can be easily upgraded to add new items or to modify existing records and can be tailored to specific customer requirements. This database is transferable between machines.

The system cycle time is under 30 seconds and there is no requirement for any sample preparation of the container to be tested, regardless of container type, size or shape.

Key features

Quick

- Fast, accurate and simple operator decision-making process (less than 30 seconds).

Easy

- Easy to use, portable, non-invasive desktop unit
- No sample preparation or consumables required
- Easy to use bar code or menu-driven identification of the item to be scanned
- Minimal operator training required
- Minimal routine maintenance required.

Versatile

- Scans all container types regardless of container type, shape and including opaque and metallic containers, in volumes up to 2 litres
- Comprehensive, transferable and updatable item database.

Key Applications

- Transfer screening in airports for duty-free items
- Screening of bottles on controlled lists for building access
- Screening for dissolved narcotics
- Detection of counterfeit items
- Verification of integrity of products in supply chains.

