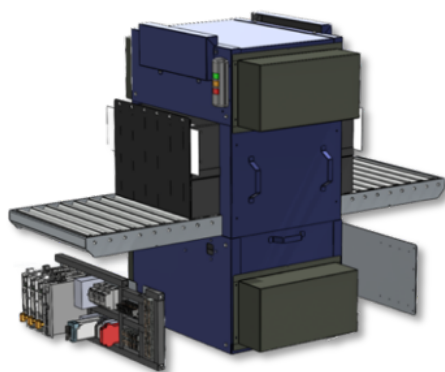# HXT264 Narcotics Detection System

Illicit Substances Detection for Customs & Border Protection

HALO X-ray Technologies designs and manufactures X-ray diffraction screening equipment for both Customs and Borders Protection and aviation security. These new X-ray based screening systems can be tuned to detect all manner of illicit and explosive materials, including **narcotic substances** that have been specifically cut with other, benign materials to evade detection through traditional X-ray screening systems.

The HXT264 is the most mature and advanced X-ray based screening solution currently available, having an optimised combination of small footprint (similar size to standard single-view X-ray systems), reliability and reduced cost (standard commercial-off-the-shelf components throughout), and exceptional speed of operation.

The online HXT264 system offers a TRL9 solution for rapid integration with existing logistics infrastructure, and which can be scaled for higher package sizes as needed.

The HXT264 can be preloaded with a limited set of libraries for the detection of various narcotic substances, which can be rapidly adapted to match the requirements of specific national borders or jurisdictions.

The HXT264 can be supplied as an OEM unit for rapid integration with new or existing equipment or can be retrofitted to existing X-ray fleet.

Open-source aviation security software, such as DICOS[1] for image management or the HALO REST API and EOS[2] API for low-level systems control, is provided as standard.

Electrical integration is via standard Ethernet, and the mechanical interface is designed to fast-track integration with 3rd-party solutions.

HALO also develops X-ray diffraction technology for aviation security. Please refer to our website for further information on all our areas of application.
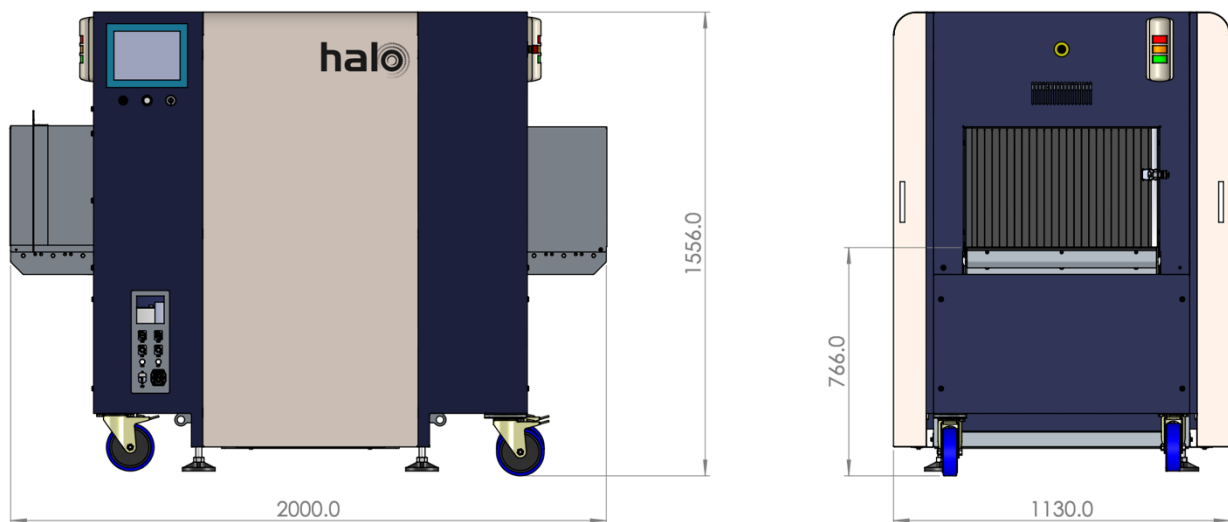
HALO knows what it sees

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[1] Digital Imaging and Communications in Security
[2] European Organisation of Security Manufacturer API

Dimensions

Connection

X-ray generator: 200kv @ 2.5mA
X-ray detector: Energy dispersive X-ray diffraction
Materials detection: Programmable/Automatic
Conveyor:
 Multiple rollers or belt
 Removable/adjustable bed length
 Variable speed to 0.3m/s
 Tray/bin operation

Integration:
 Threat information: DICOS in / DICOS out
 Systems control: OPSL / HALO REST interface
Supply: 240v single phase @ 6A
Height: 1367mm (adjustable)
Weight: 1,100kgs ± 5%
Length: 2000mm (including standard conveyor)
Inspection tunnel: 600mm x 400mm (wxh)

Software

- Windows IoT platform
- .NET compliant
- Software REST interfaces (HALO, EOS)
- Automatic threat recognition library targeting EU ECAC EDSCB C3 standard & US APSS
- Onboard HMI for setup, configuration, and daily operational validation (via OTK)

Data format

- Internal or external storage media
- Open Architecture Threat Data Report & DICOS