

VERTEX-MEP™

VERTEX™ MULTI ENERGY PORTAL (MEP) FOR COMMERCIAL VEHICLE INSPECTION

Future proof detection at the convergence of multi modal imaging and AI

MULTI ENERGY PORTAL

SEE MORE. MISS NOTHING. MOVE FASTER.

Next Generation Commercial Vehicle Inspection

Integrated low energy multi view backscatter and high energy transmission imaging in a single platform.

Dual, Orthogonal X-ray Technologies

HARRIER™ multi view backscatter paired with high-energy transmission (powered with VAREX) for complementary views of vehicles and cargo.

Full Spectrum Threat Detection

Enhanced visibility through vehicle structures, cargo compartments, and dense loads — exposing what single energy systems miss.

No Blind Spots

Multi angle backscatter and deep penetration transmission close coverage gaps and increase detection confidence.

Operational Speed Performance

Built for high throughput checkpoints (100+ vehicles per hour) without compromising inspection depth.



**VERTEX-MEP. ENGINEERED TO ADAPT.
CONFIGURED TO PERFORM — ANYWHERE.**



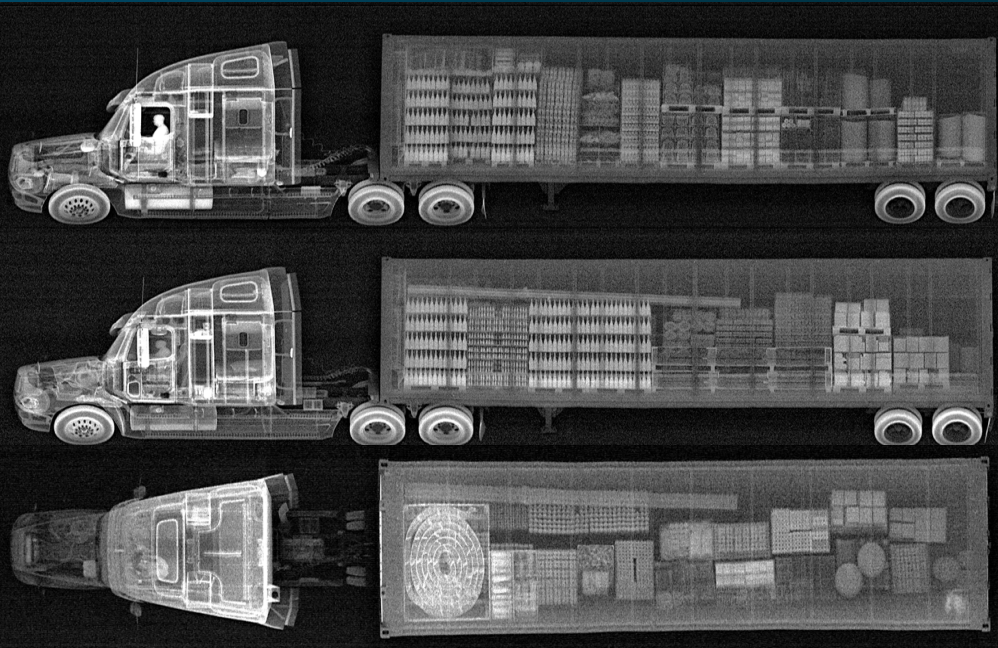
- / Customs and Border Security
- / Critical Infrastructure
- / Military and Defense
- / Embassy and Government
- / Facility Protection
- / Seaports
- / Airports

Ai

Multi View Intelligence. Multi Energy Insight.

- / True multi energy detection fusing deep penetration high energy transmission with high resolution low energy backscatter
- / Advanced threat classification and material density discrimination by correlating backscatter signatures with high energy transmission attenuation
- / Threat driven, configurable backscatter imaging (1-4 views) tailored to mission needs for rapid, confident threat assessment
- / Future ready enabling seamless upgrades including AI/ML, low energy transmission views, and under vehicle X ray

MULTI VIEW BACKSCATTER (UP TO FOUR VIEWS)



HIGH ENERGY TRANSMISSION VIEW



Advanced Detection. Superior Classification. Operational Confidence.

x-ray generators

225 KeV X-ray tubes, no live source
6-4 MeV Linatron

detectors

Multiple backscatter detector modules to cover the full vehicle and cargo with zero cutoff
L-Shaped Transmission detector array

scan activation

Automated scan activation integrated with traffic management and safety systems
Low-energy cab scanning option for Linatron

modalities of detection

Backscatter imaging for organic contraband and threat detection with right, left and top-down (and optional bottom-up) views
High-energy dual-energy transmission imaging for various cargo types with material discrimination

scan tunnel - standard

Width: 14 (4.26m)
Height: 15.22' (4.64m)

image quality

Market-leading performance for backscatter and transmission imaging per ANSI N42.46

safety

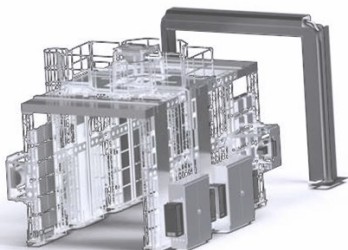
ANSI compliant safety devices for emergency stop, radiation dose to operator, visual/ audible alarms, radiation area monitors and external lighting

operating environment

Temperature: -15°C to 55°C
Relative humidity: 0-90% (non-condensing)

options

Under vehicle backscatter for 360-degree inspection
Transmission detectors for backscatter (fused imaging)
Traffic Management - lights, gate arms
command center integration, remote operations, etc.



Additional VERTEX-MEP Specifications and Information

x-ray generators

Low Energy Portal X-ray tubes, no live source

- Maximum Voltage - 225 KeV
- Maximum Current - 10.5 mA
- Maximum Power - 2,310 W

High Energy Portal 6-4 MeV Linatron, no live source

- Maximum Voltage - 6,000 KeV
- Maximum Current - 0.15mA
- Maximum Power - 900 W

Compliance and Conformity

- ANSI N43.3, ANSI N43.17, Euratom, ICRP, ACRP
- EU Directives: 2006/42/EC - Machinery Directive, 2014/35/EC - Low Voltage Directive, 2006/30/EC - Electromagnetic Compatibility Directive, 2011/65/EC - Restriction of Hazardous Substance (RoHS), 2012/19/EC - Waste Electrical and Electronic Equipment (WEEE), UKCA-CE Compliant
- ANSI N42.46-2008 Imaging Performance

