

HCVM™ e35

LIGHT WEIGHT MEDIUM ENERGY X-RAY MOBILE SCREENING SYSTEM



Feature Highlights

- **Ultra compact mobile scanner for easy operation in busy city environments**
- **The smallest mobile scanner available using a 4MeV accelerator**
- **Ultimate steel (IEC) penetration of 200mm (7.85in) @ 24m/min**
- **High throughput of up to 20 trucks per hour in mobile mode and up to 80 in pass through mode**

The HCVM e35 series is a powerful, ultra compact and fully integrated light mobile platform ideal for inspecting whole trucks, containers and vehicles for threats such as explosives, narcotics, weapons of mass destruction (WMDs), contraband, as well as manifest verification; reducing the need for manual inspection.

The HCVM e35 is the smallest mobile screening system available using a 4MeV accelerator, offering up to 200mm of steel penetration. This robust system offers up to 200mm (7.9in) of steel penetration, without a radioactive source, while providing high throughput of up to 80 trucks per hour in pass through mode.

Due to the compact size and weight of the system, the HCVM e35 is ideally suited to operation in small areas, such as busy city environments.

Enhanced system capabilities are integrated into our CargoVision™ platform. The ARD™ gamma option detects the presence of radioactive gamma materials within the container or vehicle simultaneously during the X-ray inspection.

The superior computer system provides a data management tool for image operators, to view real time images of the vehicle's cargo, providing quick and accurate analysis.

Technical Data **HCVM e35**

General specifications

Nominal energy (MeV)	4
Scanning principle	Mobile and pass through mode

System specifications

Chassis	Mercedes
Weight	Less than 15t
Engine	Approx. 240Cv
Truck dimensions (L x W x H)	9.2 x 2.6 x 3m (30.2 x 9.8 x 8.8ft)
Scanning speed	24m/min Passage of the trucks in pass through mode between 5 to 7km/h
Speed	90km/h
Footprint (L x W)	10 x 8.5m (32.8 x 27.9ft)
Scanning height	330mm to 4.5m (13in to 14.75ft)
Installation time	Less than 30 min (average 15 mn)
Inspection throughput	20 18m (59ft) trucks per hour in mobile mode at 24m/min and up to 80 in pass through mode at 6km/h
Minimum crew requirement	1 image operator and 1 traffic marshal
Operating temperature	-20° to 43°C (-30° to 50°C in option) -4° to 110°F (-22° to 122°F in option)
Storage temperature	-35° to 60°C (-31° to 140°F)
Relative humidity	Up to 95% non condensing
Size of the inspected truck (L x W x H)	24 x 3 x 4.5m (78.7 x 9.8 x 14.8ft)
Number of seats	4 seats

Computer system

Image workstation (RIW)	One 22in flat screen workstation
Image analysis tools	New DalSy CargoVision software with contrast and edge enhancement, filters, marks and annotations, histogram equalization, review of stored images and manifest data for comparison, image conversion to standard formats, objects measurement
Database workstation (DBW)	SQL data base
Data storage	Raid 1
Printer	A4 color laser printer

Radiation protection safety

Surveillance	Cameras + radio intercom
Markings	3 color safety light + siren
Regulations	Compliant with WHO, ICPR-60 13-17, EU & US regulations (depending on version)

Health & security

Dose in the environment	Average <0.5µSv/h <1mSv/year
Dose rate in operator cabin	Average <0.5µSv/h <1mSv/year

Options

ARD gamma
Infra red barriers
Snapshot

Configuration

HCVM e35

Steel penetration (mm)	
@24m/min	200
@7km/h	170
Safety area* (ground to 2.5m) for a 18m truck:	
@ 0.5µSv 20c/h @ 24m/min(L x W)	35 x 18m (115 x 59ft)
@ 0.5µSv/h 80t/h @7km/h (L x W)	24 x 21m (78.8 x 68.9 ft)

Not contractual, please contact our sales department.

* Safety area may differ from operating area depending of conditions of use

For product information, sales or service, please go to www.smithsdetection.com/locations

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