

# HCVM™ e35 T

## LIGHT WEIGHT MEDIUM ENERGY X-RAY MOBILE SCREENING SYSTEM



### Feature Highlights

- **Ultra compact mobile scanner for an easy operation in busy city environments**
- **The smallest mobile scanner available using a 4MeV accelerator**
- **Ultimate steel (IEC) penetration of 170mm (6.7in) @ 7km/h**
- **High throughput of up to 80 trucks per hour**

The HCVM e35 T series is a powerful, ultra compact and fully integrated light mobile trailer 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 T is the smallest mobile trailer screening system available using a 4MeV accelerator. This robust system offers up to 170mm (6.7in) 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 T 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 T**

## General specifications

Nominal energy (MeV)	4
Scanning principle	Pass through x-ray system with target vehicle driven through at slow speed

## System specifications

Chassis	Trailer
Weight	Less than 15t
Towing	2 inches King pin
System dimensions (L x W x H)	9.3 x 2.6 x 3.6m (30.5 x 8.5 x 11.8ft)
Scanning speed	Passage of the trucks in pass through mode between 5 to 7km/h
Speed	NA
Footprint (L x W)	10 x 8.5m (32.75 x 27.88ft)
Scanning height	330mm to 4.5m (13in to 14.75ft)
Installation time	Less than 30min (average 15min)
Inspection throughput	80 18m (59ft) trucks per hour @7km/h
Minimum crew requirement	1 image operator/driver 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 (78.75 x 9.83 x 14.83ft)
Number of seats	1 seats

## Computer system

Image workstation (RIW)	One 22in flat LCD 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
Data archiving	DVD burner (standard)
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
Infrared barriers
Snapshot

## Configuration

	<b>HCVM e35 T</b>
Steel penetration (mm) @ 7km/h	170
Safety area* (ground to 2.5m) for a 18m long truck: @ 0.5 - 80c/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](http://www.smithsdetection.com/locations)

Smiths Heimann S.A.S., 36, rue Charles Heller, 94400 Vitry sur Seine, France  
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