

# HCV™ CAB 2000 MA

RELOCATABLE HIGH ENERGY X-RAY SCREENING SOLUTION FOR NON INTRUSIVE INSPECTION OF TRUCKS, TRAILERS AND CARGO



## Feature Highlights

- **Rapid system setup / stowing can be ready to scan in less than one hour**
- **High throughput and outstanding image quality with advanced HiTraX electronics and imaging software**
- **Features a radiography system providing 24-bit real time image processing**
- **High penetration with low radiation dosage**

HCV CAB 2000 MA is an X-ray inspection system designed for the detection of illegal contraband inside trucks and sealed containers for customs applications. Combining powerful X-ray penetration with low radiation dosage makes the CAB 2000 MA an excellent X-ray inspection tool. The system consists of two parts: the operation module, based on a standard 20ft. container platform and the transport module, which is a standard road transport trailer equipped with a rapid unload/load system platform (Class C 745, EN 284). The system configuration allows for a rapid cargo inspection process without the need to open the container or truck.

The concept of the system allows the integration into nearly every existing examination concept and infrastructure. System setup as well as dismantling takes less than one hour. Due to extremely limited down time the system supports especially short-term requirements coming up at various locations as part of the inspection strategy. The system is based on the leading-edge HI-SCAN X-ray scanning technique already used in thousands of installations worldwide.

# Technical Data **HCV CAB 2000 MA**

## General specifications

Nominal energy (MeV)	4 MeV pulsed beam
Scanning principle	Pass through X-ray system
Penetration	250mm (9.8in) of steel penetration
X-ray dose / inspection	Typical 0.5 $\mu$ Sv (0.05 mrem)

## System specifications

Footprint (W x L x H)	9m x 15m x 6m (29.5ft x 49.2ft x 19.7ft)
Scanning height	0.2m to 4.2m (.7ft to 13.8ft)
Maximum height bellow gantry	4.5m (14.7ft)
Min crew	2 operators
Recommended crew	1 receptionist, 1 system operator, 2 image operators
Operating- / storage temperature	-10°C - 40°C / -25°C - +60°C (14°F - +104° F/ -13°F - +140°F)
Humidity	10% - 90% (non-condensing)
Power supply	400 VAC, three phases • 50Hz / 60Hz $\pm$ 3Hz Integrated power generator, external power supply
Power consumption	Approx. 20kVA
Maximum standard dimensions (W x L x H)	2.6m x 20.0m x 4.2m • 98.4in x 787.4in x 165.4in • other object dimensions on request

## Computer system

Monitor	22in-color monitor
Image presentation	B/W, color
Image evaluation functions	HIGH, LOW, NEG, VARI-CAT, SEN, REVIEW-feature (to recall image areas no more visible) electronic zoom: enlargement 2-, 3-, 4- times IMS (image management system)
Digital video memory	1280 x 1024 / 24 bit

## Radiation protection safety

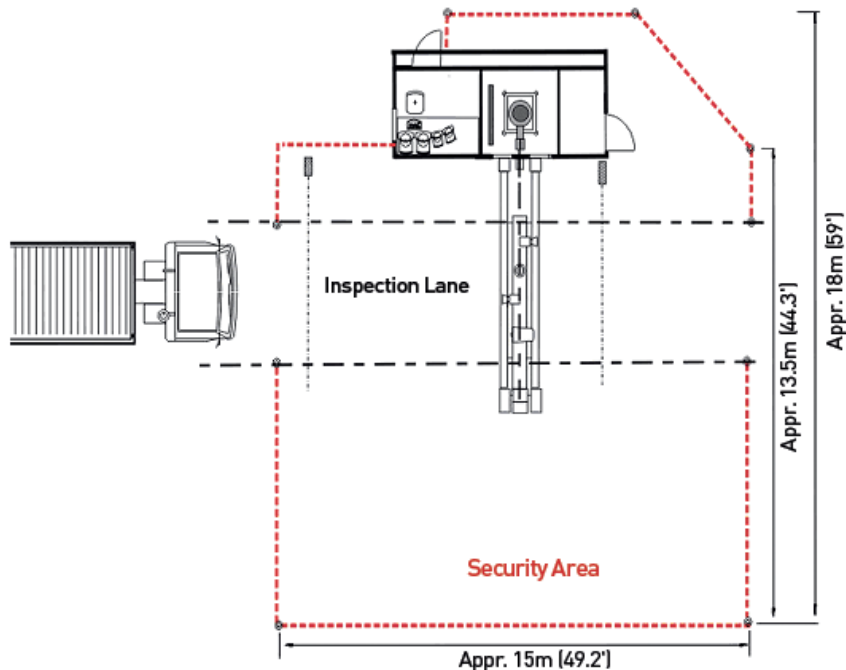
Surveillance	CCTV monitoring system, light barriers
X-ray leakage	Meets all applicable laws and regulations with respect to X-ray emitting devices.
Regulations	CE-labelling in compliance with guidelines 98/37/EWG, 73/23/EWG, 89/336/EWG
Film safety	Guaranteed up to ISO 1600 [33 DIN]

## Health & security

Dose in the environment	Less than 0.5 $\mu$ Sv/hour (average outside safety area) and less than 1mSv/year
Dose rate in operator room	Less than 0.5 $\mu$ Sv/hour (average) and less than 1mSv/year

## System consists of two parts:

1. Operation module, built on a 20ft container platform
2. Transport module, 25 tons standard road transport vehicle equipped with a swap body (Class C 745)



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  
 Modifications reserved. 95593423 10/24/2011 © Smiths Detection  
 HCV is a trademark of Smiths Detection Group Ltd.