

# CIP-300 conveyor™

CAR INSPECTION PORTAL 300kV

Including transport system for the unmanned inspection of vehicles



## Feature Highlights

- **Inspection of the unmanned vehicle through advanced transport system**
- **No radiation exposure for driver, operator or bystanders**
- **Excellent image quality through optimized beam geometry**
- **Various options allow adaptation to individual requirements**
- **Proven Smiths Detection HiTraX technology**
- **Penetration typically 70 mm steel**

The Car Inspection Portal CIP-300 has specifically been designed for the screening of cars, light motor vehicles and mini buses including their chassis for bombs and smuggled goods.

The **CIP-300 conveyor** is equipped with an advanced vehicle transport system, allowing the inspection of the unmanned vehicle at a constant speed. As a result, the vehicle driver, system operator or bystanders are not exposed to any radiation risk.

The smooth passage of the scanned vehicle at a constant speed in combination with the optimized beam geometry ensures outstanding image quality.

The system is based on the reliable and proven Smiths Detection HiTraX technology, ensuring ease of use.

Various operating concepts and options facilitate the integration of the **CIP-300 conveyor** in existing infrastructures and make it adaptable to individual requirements.

The advanced detection capabilities reduce additional searches, keep the inspection process flowing and thus provides a cost-efficient inspection of vehicles to lower total cost of ownership.

**CIP-300 conveyor** is an ideal solution for the protection of critical infrastructure facilities, such as government buildings, military checkpoints, nuclear power plants and other utilities, as well as land and sea borders.

# Technical Data CIP-300 conveyor

## General Specifications

System dimensions	6.1 (W) x 4.9 (H) x 2.5 (L) [m] • 20.0 (W) x 16.1 (H) x 8.2 (L) [ft]
Conveyor dimensions	3.0 (W) x 0.5 (H) x 40 (L) [m] • 9.8 (W) x 1.6 (H) x 131 (L) [ft]
Max. vehicle size	2.5 (W) x 3.1 (H) x 7.0 (L) [m] • 8.2 (W) x 10.2 (H) x 23.0 (L) [ft]
Scanning speed	0.2 m/s • 5 mph, throughput 30 vehicles/h
Penetration steel <sup>1)</sup>	standard: 65 mm • typical : 70 mm
Resolution (wire detectability) <sup>1)</sup>	standard: 0.75 mm • typical : 0,5 mm

## X-ray Generator

Anode voltage • cooling	300 kV cp • hermetically sealed oil bath
Beam direction	From top to bottom (symmetrical)

## Image Generating System

X-ray converter	U-shaped detector line, high resolution (2.5 mm pixel width)
Data storage	4096
Image presentation	B/W, color
Digital video memory	1280 x 1024 / 24 bit
Image evaluation functions	VARI-MAT, O <sup>2</sup> OS, HIGH, NEG, electronic zoom; step-less enlargement up to 64 times
Monitor	24" flat Panel LCD monitor

## Additional Features

Options	Operator compartment Remote operator room (up to 100 m, other distances on request) Recheck workstation, data archive and image distribution features License plate recognition
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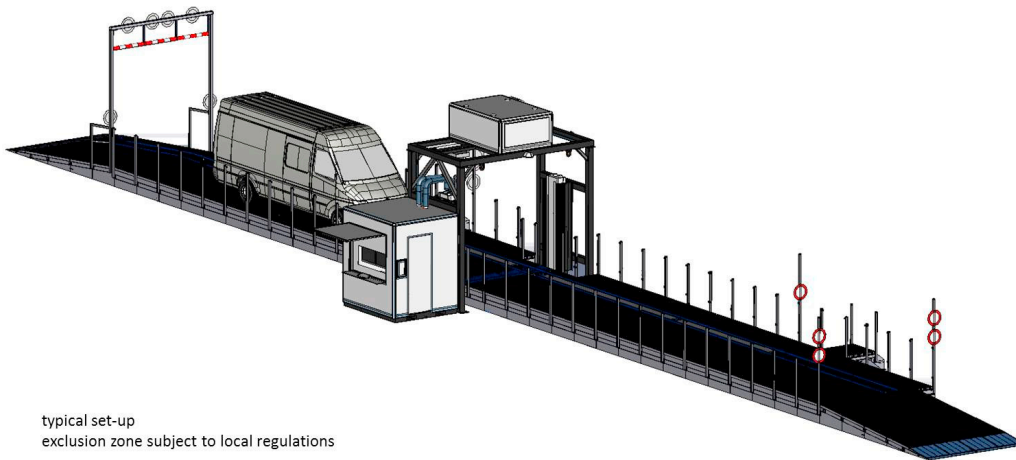
## Health and Safety

Radiation safety	In compliance with WHO, ICRP-60 13-17, EU & US guidelines Ongoing radiation monitoring, video surveillance, exclusion zone according to local regulations
CE-labelling	In compliance with guidelines 2004/108/EC, 2006/42/EC, 2006/95/EC

## Installation Data

Operating-/storage temperature	-20° - 50°C / -23°C - +60°C • -4°F - 122°F / -9°F - 140°F
Humidity	10% - 90% (not condensing)
Power supply	400 VAC ±15%, 3-phase 50Hz / 60 Hz ±3 Hz
Power consumption	approx. 15 kVA
Protection class	IP 44

<sup>1)</sup> proprietary test piece: steel step wedge, Cu wires



typical set-up  
exclusion zone subject to local regulations



For product information, sales or service, please go to [www.smithsdetection.com/locations](http://www.smithsdetection.com/locations)

Smiths Heimann GmbH, Im Herzen 4, 65205 Wiesbaden, Germany  
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