

CIP-300 compact™

CAR INSPECTION PORTAL 300kV



Feature Highlights

- “Drive-through” configuration for increased throughput
- Compact footprint
- Radiation safety in compliance with ANSI 43.17 for general use applications
- 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, vans and mini buses including their chassis for bombs and smuggled goods.

The **CIP-300 compact** is configured for drive-through inspection. The optimized footprint is the result of the re-engineering of the established CIP-300 portal with a focus on the core components which simplifies the integration into existing infrastructures.

The drive-through concept enables a throughput of up to 100 vehicles per hour and thus is tailored for busy checkpoints. The **CIP-300 compact** complies with ANSI 43.17 (2009) for general use applications.

The horizontal part of the U-shaped detector line is integrated in a flat bar that is easily installed. Gradual ramps allow a smooth transition over the detector line and ensure that Smiths Detection’s high standards in image quality are not compromised.

The system is based on the reliable and proven Smiths Detection HiTraX technology and provides ease-of-use for operators.

With a variety of options, the **CIP-300 compact** is adaptable to individual requirements.

The drive-through system configuration of the **CIP-300 compact**, in combination with the minimized footprint, provides a rapid and cost-efficient inspection of vehicles, thus reducing total cost of ownership.

The **CIP-300 compact** 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 compact

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]
Max. vehicle size	2.5 (W) x 3.5 (H) x 7.0 (L) [m] • 8.2 (W) x 11.5 (H) x 23.0 (L) [ft]
Scanning speed	8 km/h • 5 mph, throughput 100 vehicles/h
Penetration steel ¹⁾	standard: 60 mm • typical : 65 mm
Resolution (wire detectability) ¹⁾	standard: 1 mm • typical : 0,75 mm

X-ray Generator

Anode voltage • cooling	300 kV cp • hermetically sealed oil bath
Beam direction	From top to bottom (symmetrical)
X-ray dose	< 0,1 µSv / inspection at 8 km/h • 5 mph < 0,2 µSv / inspection at 4 km/h • 2.5 mph

Image Generating System

X-ray converter	U-shaped detector line, high resolution (2.5 mm pixel width)
Data storage	4096 grey levels stored
Image presentation	B/W, color
Digital video memory	1280 x 1024 / 24 bit
Image evaluation functions	VARI-MAT, O ² 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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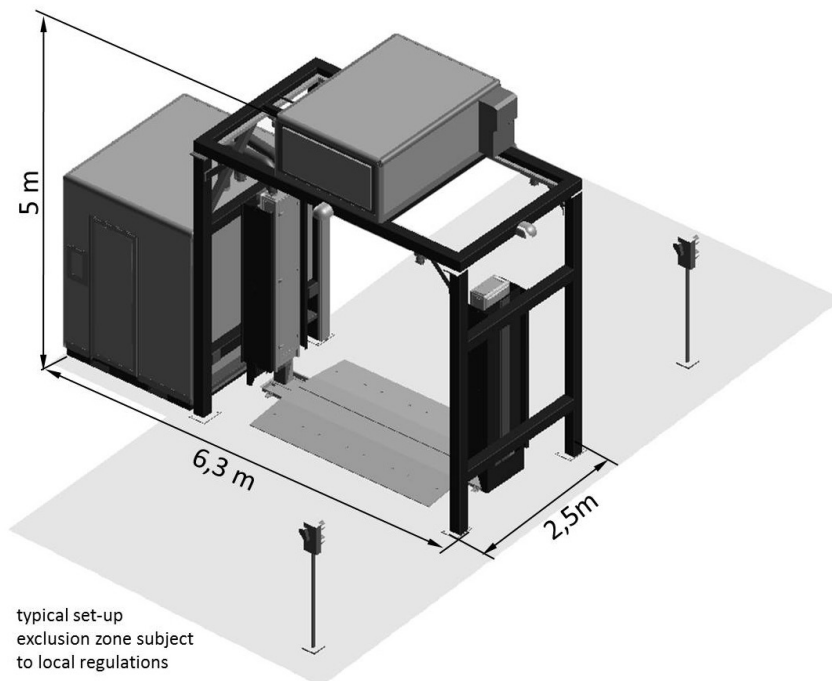
Health and Safety

Radiation safety	In compliance with ANSI 43.17, 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. 8 kVA
Protection class	IP 44

¹⁾ proprietary test piece: steel step wedge, Cu wires, inspection speed 8km/h • 5mph



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

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