

CIP-300™

CAR INSPECTION PORTAL 300kV



Feature Highlights

- **Compact, optimized design**
- **High throughput due to “drive through” mode**
- **Optional: Vehicle transport system**
- **Various options allow adaptation to individual requirements**
- **Small footprint**
- **Excellent image quality**
- **Proven Smiths Heimann HiTraX technology**
- **Penetration typically 60 mm steel**

The Car Inspection Portal CIP-300 has specifically been designed for the screening of cars, light motor vehicles and mini busses for car bombs and smuggled goods. The portal's clearance allows the passage of vehicles of up to 2.5m in width, 3.1m in height and a length of 7m, while the max. weight can be up to 3.5 tons.

The system is based on the reliable and proven Smiths Heimann HiTraX technology. CIP-300 embodies a basic system for easy and immediate use.

Thanks to the low energy 300kV X-ray source the vehicle scanner can be used in a “drive through” mode where compliant with local regulations. The “drive through” mode provides a high throughput as the inspection is carried out continuously while traffic lights accurately control the inspection process. Where drive through operation is not feasible, the CIP-300 can be equipped

with an optional vehicle transport system, allowing the inspection of the unmanned vehicle at a constant speed.

Various operating concepts and available options facilitate the integration of the CIP-300 in existing infrastructures and allow the adaptation to the designated application.

With the beam geometry of a symmetric top view the CIP-300 is perfectly suited for the inspection of cars and light motor vehicles, offering an excellent image quality at minimized distortion.

In combination with the state-of-the-art HiTraX technology the CIP-300 provides an efficient and flexible solution as for the protection of critical infrastructures such as governmental facilities, military checkpoints, nuclear power plants etc. as well as land and sea borders.

Technical Data CIP-300

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 3.1 (H) x 7.0 (L) [m] • 8.2 (W) x 10.2 (H) x 23.0 (L) [ft]
Scanning speed (drive through)	Approx. 8 km/h (5 mph)
Scanning speed (conveyor)	0.2 m/s (0.7 ft/s)
Penetration	60 mm (2.4")

X-ray Generator

Anode voltage • cooling	300 kV cp • hermetically sealed oil bath
Beam direction	From top to bottom (symmetrical)
X-ray dose (drive through)	< 0,1 µSv / inspection

Image Generating System

X-ray converter	U-shaped detector line, ceramic scintillator • high resolution (2.5 mm pixel width)
Data storage	13000 images standard, others on request • data archiving with DVD burner
Workstation	2 x 24", 1920 x 1200 pixels, LCD screen 1 x image interpretation 1 x monitoring (4x CCD camera, light barriers, sensor system)
Image evaluation	MAT, HIGH, LOW, NEG, SEN, VARI-CAT, REVIEW, ZOOM

Additional Features

Options	Vehicle transport system Operator compartment Remote operator room (up to 100 m, other distances on request) Extreme temperature package
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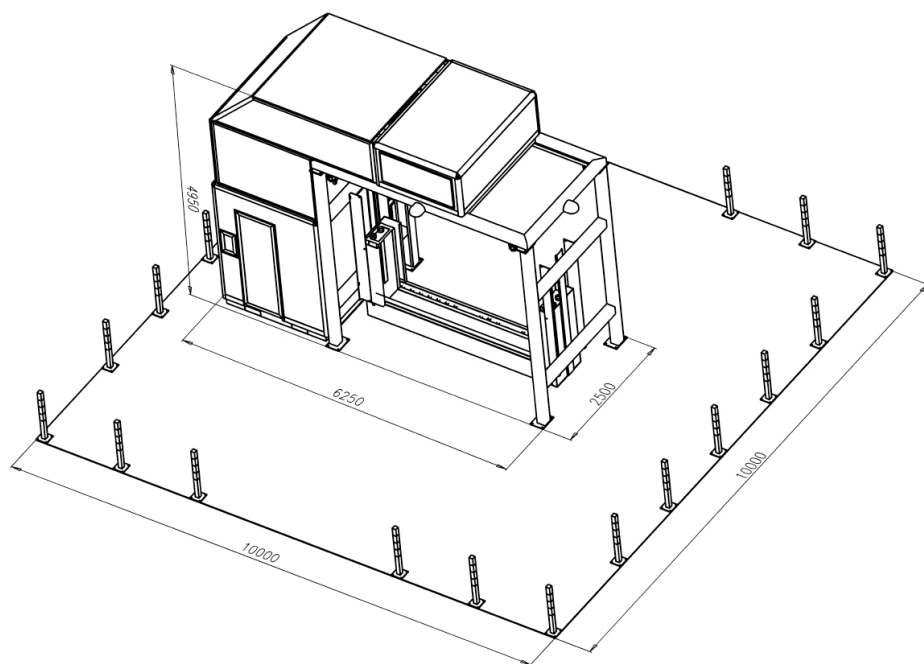
Health and Safety

Radiation safety	In compliance with ANSI 43.17, WHO, ICRP-60 13-17, EU & US guidelines
CE-labelling	In compliance with guidelines 2004/108/EC, 2006/42/EC, 2006/95/EC

Installation Data

Operating-/storage temperature ⁴⁾	-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. 12 kVA
Protection class	IP 44
Exclusion zone	Approx. 10m x 10m • 33ft x 33ft

⁴⁾ extended temperature range on request



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

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