



## CARVIEW PORTAL AS&E

MULTI-TECHNOLOGY, TOP-VIEW PASSENGER  
VEHICLE INSPECTION SYSTEM

- HIGH THROUGHPUT, DRIVE-THROUGH SCREENING
- MULTI-TECHNOLOGY SYSTEM FOR THREAT AND CONTRABAND DETECTION
- SMALL FOOTPRINT
- HIGHLY RELOCATABLE

The compact CarView system screens occupied cars and small trucks using innovative detector technology that simultaneously produces two views of the scanned vehicle : a high-quality, dual-energy transmission image and a photo-like Z Backscatter® image. Dual-energy transmission X-rays penetrate the vehicle and generate a colorized image that helps detect threats such as weapons and vehicle-borne improvised explosive devices (VBIEDs).

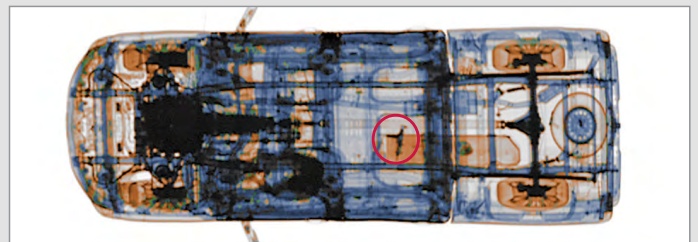
Our proven Z Backscatter technology produces a photo-like image of the contents of a vehicle, highlighting organic materials such as stowaways, explosives, drugs, currency, and other contraband.

The compact CarView system fits into existing traffic lanes and standard tollbooth lanes, while its high scan speeds make it ideal for either primary or secondary inspection applications.

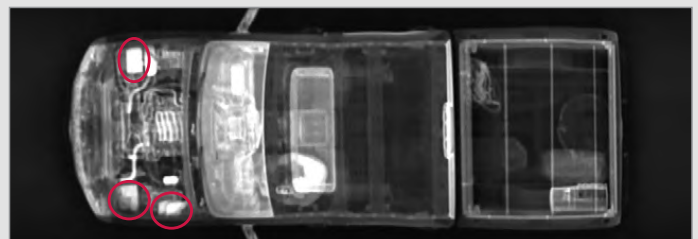
As mission objectives change with an ever-evolving threat landscape, the portal can be easily relocated to meet new requirements.



THE AS&E CARVIEW™ PORTAL OFFERS HIGH-THROUGHPUT, MULTI-TECHNOLOGY SCREENING OF PASSENGER VEHICLES, HELPING OPERATORS DETECT THREATS AND PREVENT THEM FROM CROSSING BORDERS AND ENTERING SECURE FACILITIES.



Dual-energy transmission image of a scanned vehicle reveals an automatic weapon



Z Backscatter image of the same vehicle reveals simulated drugs and currency



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## OPERATING FEATURES

X-ray source	225 keV
Crew	One X-ray system operator/inspector standard. Additional traffic coordinator is optional
Scan modes	Operator initiated or continuous
Scan speeds	4-20 kph (2.5-12.4 mph); Spatial correction software compensates for variations in vehicle speeds
Throughput	Up to 400 vehicles per hour
Power requirements	50 Hz: 400 V, 25 A, 12 kVA
	60 Hz: 480 V, 25 A, 12 kVA

## SYSTEM DIMENSIONS AND SPECIFICATIONS

Width	4.9 m
Height	4.4 m
Length	4.2 m
Weight	5,700 kg

## TUNNEL DIMENSIONS

Width	3.7 m
Height	2.8 m

## MAXIMUM VEHICLE DIMENSIONS

Width	2.7 m
Height	2.7 m

## ENVIRONMENT

Operating temperature	-30° C to 55° C
Storage temperature	-40° C to 70° C
Operable in rain, snow, wind, and blowing sand	

## HEALTH AND SAFETY

- Radiation exclusion zone dimensions (400 cars per hour): 7.5 m x 5.7 m
- Radiation dose at exclusion zone boundary: 0.5 µSv in any one hour
- Radiation dose: the typical dose to the scanned vehicle and driver is 0.04 µSv (4.0 uRem) per screening
- Radiation standards: system conforms to manufacturers' requirements of ANSI N43.17-2009 radiation safety for personnel security screening systems using X-ray or gamma radiation

## SYSTEM OPTIONS

- **Integrated peripheral devices** : license/number plate recognition system and under-vehicle inspection system.
- **Radiation portal monitor** : gamma or gamma/neutron.
- **CIM server networking solution** : enables images from one or more systems to be sent to a centralized database and connects one or more analyst workstations for local or remote image analysis
- **Vehicle protection kit** : vehicle guides and flags to direct traffic through the tunnel and decrease vehicle collisions with the system

## OPERATOR ALERT TOOLS

- **Fusion Imaging™ Technology**: utilizes key attributes of the transmission image to enhance the sharpness of the Z Backscatter image and improve detection capabilities
- **Reference vehicle compare**: based on a user-defined vehicle identifier field, the system automatically compares current and historical scans of a vehicle and highlights any differences between the scans

## HTDS

Parc d'Activités du Moulin de Massy - 3 rue du Saule Trapu  
BP246 - 91882 Massy Cedex France  
Tel : +33 (0) 1 64 86 28 28 - Fax : +33 (0) 1 69 07 69 54 - info@htds.fr - www.htds.fr

HTDS Algeria: +213 232 384 01/02

HTDS Morocco: +212 222 749 59

HTDS Egypt: +202 229 053 06

HTDS Lybia: +218 91 69 50 70 8

HTDS Madagascar: +261 34 40 664 72

HTDS Tunisia: +216 70 836 961

