

Z BACKSCATTER® VAN (ZBV®) C-CLASS SPRINTER 515/516
MOBILE X-RAY SYSTEM FOR SCREENING CARGO AND VEHICLES



APPLICATIONS

- Government and high-risk facilities
- Event and VIP security
- Law enforcement
- Security checkpoints
- Customs cargo screening
- Protection of military forces

Credited with countless threat and contraband seizures, the easy-to-use, highly flexible ZBV system is the mobile screening system of choice around the world.

ZBV C-Class is the original ZBV system, built with a custom coach on a Mercedes Sprinter cab chassis.

Non-intrusive, low-cost, highly mobile

With hundreds of systems sold, AS&E's mobile Z Backscatter Van is the top-selling non-intrusive cargo and vehicle inspection system in the world.

Low-cost, easy to use, and highly reliable, the ZBV system is built into a commercially available delivery van and can screen vehicles, sea containers, and other cargo for threats and contraband simply by driving past the objects.

The ZBV system's single-sided configuration and varied operating modes provide maximum maneuverability and flexibility for multiple applications, and it can be immediately deployed in response to security threats. With photo-like imaging for rapid analysis, the ZBV system enables high-throughput screening of vehicles and cargo. For personnel safety in dangerous environments, a remote console is available for operating the system in stationary scan mode from a distance of up to 500 meters.



Z Backscatter plus Forwardscatter®

The ZBV system employs Z Backscatter technology—pioneered and perfected by AS&E. Z Backscatter produces a clear, photo-like image and reveals threats and contraband that transmission X-ray systems miss, including explosives, currency, and drugs. It can also be equipped with Forwardscatter technology, which provides a second scatter perspective to display dense regions of images.

The ZBV system can image 10 lbs (4.5 kg) of organic material, such as C4 or cocaine, placed behind 0.24 inches (6 mm) of steel when scanned from a distance of 5 ft (1.5 m). The ZBV system's optional Radioactive Threat Detection feature is capable of identifying low levels of radioactivity from both gamma rays and neutrons. The ZBV system is ideal for screening vehicles for large quantities of concealed cigarettes, currency, drugs, car and truck bombs, and stowaways.

Also available*:



ZBV R-Class is built on a Ford F550 chassis with crew cab for extra space and 4WD for additional ground clearance and rugged terrain.



ZBV S-Class, the newest addition to the ZBV line, is built in a standard Mercedes Sprinter panel van for a contemporary appearance with a reduced operational footprint for scanning objects in the tightest confines.

* As determined by country of deployment



ZBV system drug seizure image



This ZBV image revealed smuggled alcohol, hidden to avoid paying duties.



Z Backscatter X-ray with RTD alert



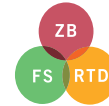
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TECHNICAL SPECIFICATIONS



Detect the difference.

OPERATING FEATURES

X-ray Source: 225 keV X-ray tube
Resolution: 0.28" (7 mm), normal to the side of the ZBV at a distance of 5' (1.5 m) at a scan speed of 1 mph (1.5 kph)
Scan Speeds (Operator Selectable): 1, 3, and 6 mph (1.5, 5, and 10 kph)
Scan Field of View: 12' (3.6 m) in height at 5' (1.5 m) from the side of the ZBV; or 14' (4.3 m) in height at 7.5' (2.3 m) to scan a hi-cube container in one pass

VEHICLE SPECIFICATIONS

Manufacturer: Mercedes-Benz
Model*: Sprinter 515 CDI 4x2 or 516 CDI 4x2
Engine Type*: 4-cylinder (2,148 cm³) or 4-cylinder (2,143 cm³)
Steering: Power
Right- or left-hand drive
Fuel: Diesel**
Dimensions
Length: 21'4" (6.5 m)
Width : 8' (2.4 m)
Height : 9'1" (2.8 m)
Weight: 10,745 lbs (4,874 kg)

*Determined by country homologation requirements.

**Diesel fuel runs vehicle and X-ray equipment generator. System uses two gallons of diesel fuel per hour when scanning.

With mirrors extended
To top of scanning lights

SYSTEM OPTIONS

Stationary Scan Mode: Scans vehicles driven past parked ZBV; includes shore power (230 VAC +/-10, 50/60 Hz, 80 amps, single phase)
Remote Operators Console: Console can be located up to 1,640' (500 m) from parked ZBV; includes stationary scan mode
Forwardscatter Technology: Provides a second scatter perspective to display dense regions of images; includes additional detectors and transport trailer. For use in stationary scan mode.
Scan Area Monitoring Kit: For applications where vehicle occupants may be scanned; designed for compliance with ANSI 43.172009 for personnel scanning; monitors the scan area and stationary scan mode exclusion zone to prevent exposure above the specified limits.
Radioactive Threat Detection: Automatically detects both gamma rays and neutrons
Isotope Identifier: Digital, handheld, multi-channel spectrometer providing gamma and neutron isotope identification
Color Printer: Located in ZBV cab
Shipping Tie-Downs: Includes 10 D-rings
Diesel/JP8 Generator: For use with Remote Console, Cold Weather, and Harsh Environment
Local Language: Available upon request
Custom Paint Colors: Available upon request
Dark Window Tint: Available upon request
Backup Camera: Displays area immediately behind ZBV
Wireless Networking Kit: For use with ASE Connect
Four-Wheel Drive: Driver-selectable

SYSTEM SOFTWARE AND IMAGING TOOLS

Operators Console: 14.1" LCD high-intensity monitor
Operating System: Windows XP Professional
ASE Inspection Software and Features
ASE Inspection is the Windows-based application software used to convert X-ray data into images. ASE Inspection contains a suite of tools for manipulating and enhancing images, and it is used for image storage and retrieval.
Mark and Annotate: Attaches pointers and comment fields to images
Database Function: Provides ability to create records relating to specific scans
Quick Save: Allows operator to save any part of a multi-target image as well as the entire image
Full Save: Automatically saves the current image to hard disk when its accompanying database record is saved
Suspect Save: Saves images identified as suspect
Archive: Manually saves stored image files on a CD/DVD-RW disk, and creates a reference to the disk in the database
Export Image: Provides capability to export what-you-see-is-what-you-get (WYSIWYG) image or full image into TIF/JPEG formatted files
Image Analysis Tools
Density Expand: Controls and continuously adjusts the contrast of the displayed image, thus enhancing the differences in objects
Auto Enhance: Automatically optimizes contrast throughout the image
Sharpen: Accentuates the edges of objects in the image
Reverse Video: Displays the normal, positive image or the reverse black-and-white negative image
High Contrast: Intensifies subtle differences in contrast
Region of Interest: Allows analysis tools to be applied to a selected region of the image
Color Palettes: Adds the ability to evaluate images in greater depth using up to 11 color palettes
Historical Compare: Side-by-side comparison of a current image to a saved image
Zoom: 2x, 3x, 4x, 8x, 16x magnification with the ability to roam continuously through full field of view
Pan and Scroll: Ability to examine any part of the image at preset display magnifications

HEALTH AND SAFETY

Dose to Cargo: Less than 0.01 mR (0.1 µSv) per scan, at an average speed of 3 mph (5 kph) at 5' (1.5 m) distance
Environmental/Operator Dose: Less than 0.1 mR (1 µSv) in any one hour
Radiation Standard: Conforms to ANSI N43.32008 For General Radiation Safety Installations using non-medical X-ray and sealed gamma-ray sources, energies up to 10 MeV

ENVIRONMENT

Ambient Operating: 32°F to 108°F (0°C to 42°C)
Storage: -20°F to 140°F (-29°C to 60°C)
Operable in: rain, snow, high winds, and altitudes up to 9,845 ft (3,000 m) nominally
Hot Weather Package (option): Guarantees operation up to 122°F (50°C)
Cold Weather Package (option): Guarantees operation down to -20°F (-29°C)
Harsh Environment (option): Includes hot and cold weather packages