

Mobile Surveillance Container (MSC) Base vehicle: Mercedes-Benz 416 CDI "Sprinter"

A container is installed onto the Mercedes-Benz 416 CDI "Sprinter" base vehicle:

- The retractable multi-sensor platform with customer-specific sensors is located in the rear of the container (equipment compartment).
- An electronic recording system, as well as the operating console with the control console (BSAE) and two 17" TFT monitors for surveillance are located in the operator compartment. Additional equipment also includes a computer with a GPS system and a compass. The electronic map with a display of the detected targets meets the demands of modern surveillance. The power supply unit ensures permanent, reliable operation. The vehicle is also equipped with heating and air conditioning for the comfort of the crew during longer missions. The workstation is designed for the later installation of a radar console.
- A separate radar compartment is prepared for the installation of retractable radar equipment. Installing marine radar makes it also possible to monitor the coastline.

The sprinter is a 4-wheel drive vehicle. It is loaded with reliable and robust standard equipment and is ready to roll in a very short time. It permits long-term observation with cost-effective mobility and flexibility.



All mobile surveillance systems from Carl Zeiss Optronics enable variable surveillance sequences that are unpredictable for illegal border crossers and invaders.

The surveillance system consists of reliable, tested standard system components (industry standard).

Technical data

Infrared surveillance systems

Vehicle: Mercedes-Benz	416 CDI Sprinter
Engine cubic capacity/ performance	2685 ccm ³ / 115 kW
Drive system	All-wheel
Tank capacity (l)	76
Vehicle dimensions (mm)	
Length	5885 mm
Height	2600 mm
Width	2100 mm
Wheelbase	3550 mm
Max. weight	4600 kg

Thermal imaging device

Thermal imaging device	ATTICA MW/LW
Spectral range	3 μ m to 5 μ m/8 μ m to 12 μ m
Cooling system	Low-noise linear cooling system
Wide field of view	4,7° x 6,2°; 11° x 15°
Narrow field of view	1,6° x 2°; 3,6° x 4,8°
Detector	MW: 288 x 384 or 240 x 320 LW: 288 x 384 oder 480 x 640
Video output	CCIR, Optional: video digital 16 bit
Power consumption	50 W (typical)



Technical data

CCD camera

Chip	1/3" Color
Pixels (h x v)	752 x 582 effective image elements
Zoom	10 x
Video signal	CCIR

MOLEM laser rangefinder

Transmitter	ND:YAG-Laser with Raman cells
Wavelength	1543 nm
Range display	50 m to approx. 20,000 m
Measuring accuracy	5 m
Laser class	1M as per IEC 60825/2001
Eye-safe distance NOHD	0 m

Pan and tilt head

Positioning range azimuth	n x 360° (with slip ring)
Positioning range elevation	≥ -30° to +30°
Positioning speed azimuth	≥ 40°/s
Positioning speed elevation	≥ 20°/s
Manual control	Joystick

Operating and video equipment

- BSAE for infrared device, CCD camera, laser rangefinder and pan and tilt head
- CRT and LCD monitors
- Video recording (analog and digital)

Option

- Visual Camera Complex consisting of CCD-camera and LLL TV

Computer options

- Virtual Console
- Electronic map
- Radio
- Tracking