

Mercedes-Benz 270 CDI Surveillance Vehicle



The base vehicle is the Mercedes-Benz 270 CDI. The elevation mast with the multi-sensor platform is located in the rear of the vehicle (equipment compartment).

It also accommodates the control console (BSAE) in the operator compartment. The images from the camera are displayed on a monitor while a second monitor shows the electronic map with a display of the detected targets. Videos from the thermal imager or from the CCD-camera are recorded on a video recorder.

The G 270 CDI is an all-terrain vehicle with outstanding camouflage. It is loaded with reliable and robust standard equipment and is ready to roll in a very short time.

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).



We make it visible.

Technical data



Mercedes-Benz 270 CDI surveillance vehicle

Vehicle

2.7 l engine; performance	115 kW
All-wheel drive	Yes
Maximum speed	160 km/h
Tank volume	96 l
Vehicle dimensions (approx.)	
Length	4662 mm
Height	2200 mm
Width	2007 mm
Wheelbase	2850 mm
Max. weight	3200 kg

OPHELIOS thermal imaging device

Spectral range	7.5 μm to 10.5 μm
Cooling system	Low-noise linear cooling system
Wide field of view	5.2° x 7°; 9° x 12°; 12.3° x 16.4°
Narrow field of view	1.5° x 2°; 2.7° x 3.5°; 3.6° x 4.8°
Detector	CMT IRCCD 96 x 4
Video outputport	CCIR
Power consumption	80 W (typical)

CCD camera

Chip	1/3" Color
Pixels (h x v)	752 x 582 effective image elements
Resolution	480 TV lines
Zoom	10 x
Video signal	CCIR 624 B/G Pal
Signal-to-noise ratio	> 50 dB
Field of view	0.9° x 1.2° to 9° x 12°

MOLEM laser rangefinder

Type	ND:YAG-Laser with Raman cells
Wavelength	1543 nm
Range display	50 m to approx. 20,000 m
Measuring accuracy (m)	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	$\geq -30^\circ$ to $+30^\circ$
Positioning speed azimuth	$\geq 40^\circ/\text{s}$
Positioning speed elevation	$\geq 20^\circ/\text{s}$
Manual control	Joystick

Monitors

Size	17", TFT monitor
Video output	CCIR standard
Computer monitor	15", TFT monitor
Pixels (h x v)	768 x 1024

Operating and video equipment:

- Control console for thermal imaging device, CCD camera, laser rangefinder and pan and tilt head
- Monitors
- Video recording (analog or digital)

Computer options

- Electronic map
- Voice and data transmission
- Tracking

Carl Zeiss Optronics GmbH

Carl Zeiss Group
73446 Oberkochen
Germany

Telefon: +49 73 64 20-65 30
Telefax: +49 73 64 20-36 97
www.zeiss.com/optronics