

VW T5 Transporter Surveillance Vehicle



The base vehicle is the VW T5 Transporter (standard model). 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 T5 is equipped with all-wheel drive and is suitable for off-road missions. 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).



Technical data

Vehicle

Engine cubic capacity/ performance	2500 ccm ³ / 96 kW
All-wheel drive	Yes
Vehicle dimensions (approx.)	
Length	4890 mm
Height	1964 mm
Width	3000 kg
Wheelbase	3000 mm
Max. weight	3000 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 output	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° bis 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	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° bis + 30°
Positioning speed azimuth	≥ 40°/s
Positioning speed elevation	≥ 20°/s
Manual control	Joystick

Monitors

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

Operating and video equipment

- Control console (BSAE) 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