

PERI-CDR

Gyro-stabilized Panoramic Periscope



- For the commander
- For integration into fire control systems of armored vehicles
- Easy operation
- Large elevation angle



We make it visible.

Safety Improvements by better visibility

PERI-CDR is a stabilized panoramic periscope, which expands Carl Zeiss Optronics GmbH's successful series of periscopes for armored vehicles. Due to its features and its design it can be very easily integrated into a fire control system.

PERI-CDR is insensitive to shock and vibration influences as well as extreme temperatures.

PERI-CDR delivers – thanks to its two-axis self-stabilizing line of sight – a clear, unambiguous image, even when driving in rough terrain: Perfect 360° panoramic observation, detection, recognition and identification.

PERI-CDR is a improved design of the PER-R17A1 used in the Leopard 2. The proven modules and subassemblies have been retained. This means that the PERI-CDR is in a high degree similar to the PERI R17 A1.

PERI-CDR is already used in armored personnel carriers by the Armed Forces of Kuwait, Qatar and Saudi Arabia.

PERI-CDR provides four operational modes, which fulfill the entire profile a modern fire control system requires.

- The commander controls the PERI-CDR (observation mode)
Independent orientation, regardless of gun position.
- The commander monitors the target (alignment mode)
The periscope follows the gun automatically.
- The commander controls the main weapon by the periscope (designation mode).
- The periscope is positioned at 0° or 180° to the major vehicle axis (index position).

Features

Data for daylight vision

Magnification	2x and 8x
Field of view	27° and 7°
Entrance pupil	8 mm/40 mm
Diopter setting eyepiece	± 4 D
Eyepiece	monocular
Sun protection filter transmission	$\tau = 0.1$
Laser protection filter	against radiation of 1064 nm and 694 nm
Elevation range	Elevation: -13° to + 60° Azimuth: n x 360°
Residual stabilization error	< 50 μ rad (rms) (when driving on AGP track)
Speed of drives:	
Maximum: Elevation	≥ 45 °/sec ≥ 800 mils per sec
Azimuth	≥ 57 °/sec ≥ 1000 mils per sec
Maximum: Elevation	≥ 0.5 mrad/s
Azimuth	≥ 0.5 mrad/s
Power supply:	according to MIL-STD 1275A <u>if not otherwise defined</u>
Supply voltage:	18 - 32 VDC
Nominal current:	9 A continuous. 17 A peak.
Temperature range:	
Operation:	-35 °C to + 63 °C
Storage:	-40 °C to + 71 °C
Overall dimensions:	<u>PERI-CDR Periscope</u>
	Width 330 mm
	Height 660 mm
	Length 310 mm
	Weight approx. 67 kg
	<u>PERI CDR Electronics</u>
	Width 200 mm
	Height 210 mm
	Length 450 mm
	Weight approx. 17 kg

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