COAPS
Commander Open Architecture Panoramic Sight

COAPS is an advanced, modular dual-axis stabilized sight for MBTs and AFVs. Based on open architecture, it is easily adaptable to sensor additions and changes.

Main Advantages & Features

- Facilitates long-range target acquisition day and night, in both stationary and mobile situations
- Wide-range of advanced sensors, including 3-5μm or 8-12μm thermal imagers, color zoom camera and eyesafe laser range finder (ELRF), as well as:
  - Built-in electronic unit
  - Independently stabilized dual-axis
  - Dedicated ballistic protection
- Independent 360º panoramic view
- Provides hunter-killer capabilities with the turret system through the existing GMS

Applications

- Fire control computation
- Long-range target acquisition
- Independent surveillance

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Technical Data

Sight
- Line of sight freedom   El: -20º to +60º

         Az: n x 360º
- Stabilization accuracy   Better than 100 μrad (1ð)
- Positioning/slaving accuracy   Better than 150 μrad (1ð)
- Tracking speed
- -E- l, Az   0,2 mil/s to 800 mil/s
- -E- l acceleration   3 Rad/s2
- -A- z acceleration   1 Rad/s2

Sensors

FLIR

	Option 1	Option 2
Spectral waveband	3-5 μm	8-12μm
Detector	640 x 512 / 1024 x 768	640 x 512 / 1280 x 1024
Video output	CCIR-B or digital 10 bit format	CCIR-B or digital 10 bit format
FOVs	Continuous optical zoom 1.7º-25º	NFOV: 3.2º(H) x 2.4º(V) WFOV: 9.6º(H) x 7.2º(V)
Range performance (km) NFOV NATO target	10.5/4.5/2.2 (DRI)	10.5/4.5/2.2 (DRI)

Day Channel Camera

Wavelength	Visible range
Technology	CCD / CMOS HDTV
Sensitivity	Color mode: 12 Lux Black & white mode: 2 Lux
Video output	CCIR-B/PAL
FOV	Continuous optical zoom x21 NFOV: 1.7º x 1.3º
Range performance (km) NFOV NATO target	11.5/5.1/2.3 (DRI)

ELRF

Wavelength	1.54μm (eyesafe)
Range	200 to 7000 ± 5 m for NATO size target 2.3 x 2.3
Discrimination between targets	5 mrad, 30 m
Pulse repetetion rate	10 ppm

Environmental conditions
- Operating temperature   -20ºC to +55ºC
- Storage temperature   -30ºC to +70ºC
- Vibration   MIL-STD-810E, Method 514.4

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