

SE0SS200

2-AXIS STABILIZED SENSOR HEAD



SEOSS 200 is Rheinmetall's compact and cost-effective Military Sight System, combining essential functionalities for precision targeting in any environment:

Daylight Camera

Equipped with a high-resolution daylight camera, our system provides clear imagery for daytime operations, ensuring visual clarity and target identification with precision.

Thermal Imager

Integrated thermal imaging technology offers enhanced visibility in low-light or obscured conditions, allowing for effective target detection and engagement regardless of lighting constraints.

Laser Range Finder

Featuring a laser range finder, our system enables quick and accurate target distance assessment, facilitating precise engagements and minimizing ammunition wastage.

Designed for versatility and efficiency, our SEOSS 200 packs essential features into a compact form factor, providing military personnel with a reliable and cost-effective solution for mission-critical operations. Best fit for APC and RCWS.

DESCRIPTION

The SEOSS 200 is a 2-axis stabilized sensor head with daysight- and IR-camera as well as a laser range finder. Due to its compact and light-weight design it fits all vehicles for surveillance and targeting applications.

Basic functions:

- Provision of daysight images
- Provision of infrared images
- Laser range finder
- Inertially stabilized

SPECIFICATION SEOSS 200		
Length x width x height (w/o connector panel)	203 x 391 x 203 mm	
Weight	12 kg	
Interfaces	Ethernet 100 Mbit/s	
Control	2x HD-SDI	
	DL/IR Video	
Motion control		
AZ-range	360°	
EL-range	-20° to 70°	
Angular rate and acceleration	Azimuth up to 120°/s	
	Elevation up to 120°/s	
	Angular acceleration per axis up to 120°/s2	
Angular position report accuracy	0.1 mrad	
LOS stabilization	Static vehicle ≤50 µrad	
	Road type I ≤120 µrad	
	Road typeII ≤100 µrad	
Power supply	≤50 watt, 28 V nominal, 20 – 33 VDC, MIL-STD-1275 E	
Heavy movement	150 – 280 watt	
Temperature range		
Operational	-32°C to +50°C AECTP 300 (Ed3)	
Storage	-40°C to +70°C AECTP 300 (Ed3)	
Shock/vibration	MIL-STD-810	
MTBF	2000h	

SPECIFICATION DAYSIGHT CAMERA	
Image sensor	
Technology	CMOS, RGB
Resolution	1920 x 1080
Framerate	25/30 Hz
Wavelength	350-1,100 nm
FoV	2° to 54°, continuous zoom and distinct fields of view
Additional information	Global shutter; up to x16 electronic zoom
IR Cutoff filter	Transmission range 400 – 700 nm
Dynamic range	72 dB
DRI	
B3 Armoured vehicle (2.3 m x 2.3 m)	
1/3/6 LP STANAG 4347	D:>16.5 km R:>7.5 km I:>4 km

SPECIFICATION THERMAL IMAGER	
Image sensor	
Technology	Cooled MWIR
FPA Resolution	640 x 512
Framerate	25/30 Hz
Pixelpitch	15 μm
Wavelength	3.6 µm to 4.2 µm
FoV	2° to 27°, continuous zoom and distinct fields of view
Cool down time	6 min. @25°C, typ.
DRI	
B3 Armoured vehicle (2.3 m x 2.3 m)	
1/3/6 LP STANAG 4347	D:>14km R:>5.2km I:>2.6km

SPECIFICATION LASER RANGE FINDER	
Measureable range min./max.	50 m to 20 km
Wavelength	1.54 nm
Firing rate	1 PPS
Beam divergence	0.6 mrad
Range accuracy	±5 m 1σ
Extinction ratio	36dB
Safety classification	Class 1 – eye safe

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