



SEOSS 200

2-AXIS STABILIZED SENSOR HEAD

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 100Mbit/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°/s ²
Angular position report accuracy	0.1 mrad
LOS stabilization	Static vehicle ≤50 μrad Road type I ≤120 μrad Road type II ≤100 μrad
Power supply	≤50 watt, 28V nominal, 20 – 33VDC, MIL-STD-1275E
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
Pixel pitch	15 μ m
Wavelength	3.6 μ m to 4.2 μ m
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: >14 km R: >5.2 km I: >2.6 km

SPECIFICATION LASER RANGE FINDER

Measureable range min./max.	50 m to 20 km
Wavelength	1.54 μ m
Firing rate	1 PPS
Beam divergence	0.6 mrad
Range accuracy	\pm 5 m 1 σ
Extinction ratio	36 dB
Safety classification	Class 1 – eye safe

Rheinmetall Electronics GmbH

Brüggeweg 54

28309 Bremen, Germany

www.rheinmetall.com