

NSM 500

The NSM 500 provides effective gyro stabilization for electro-optical reconnaissance and surveillance sensor systems to improve situational awareness in rough sea conditions. The two-axis gimbal ensures a stabilized field of view and high-resolution images by compensating the roll and pitch movements of the vessel.

TECHNICAL SPECIFICATIONS

Angular Stabilization Ranges	Pitch at 0° Roll:	≤± 20.0°
	Roll at 0° Pitch:	≤± 20.0°
	Yaw (Drift):	no drift correction
Residual Deviation ¹		≤0.3° rms
Payload ²		100 kg 70 kg 55 kg
		220.5 lbs 154.3 lbs 121.3 lbs
Continuous Torque		125 Nm
Dynamic Peak Torque ³		250 Nm
Mass		33 kg 72.5 lbs
Dimensions		290 mm 11.4 in
		Ø486 mm Ø19.1 in
IP Class		IP 67
Operating Temperature		-32 °C +55 °C -25.6 °F +131 °F
Storage Temperature		-55 °C +85 °C -67 °F +185 °F
Communication Interfaces		Ethernet RS422 RS232
Operational Voltage		24 VDC (2430 VDC)
Average Power Consumption ⁴ at Operational Voltage		70 W
Peak Power Consumption ⁴ at Operational Voltage		450 W
		IACS E10, DNV GL, 2006/42/EC Machinery

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Preliminary data, subject to change

¹ Vehicle motion <± 18° / 15°/s / 40°/s2 - small periodical lateral accelerations (≤ 0.5 g) acceptable, constant lateral accelerations for more than 1 minute reduce the performance of the Mount (can be compensated by external GPS input)</p>

² Possible payload weight depends on lateral acceleration and CoG of payload / shown data is based on 0.9 g lateral acceleration and a CoG payload offset to the Mount surface of: 250 mm (9.8 in) | 400 mm (15.7 in) | 500 mm (19.7 in)

³ Maximum duration 90 s at 55 °C surrounding temperature | longer if temperature inside the unit is < 55 °C

⁴ Horizontal payload CoG offsets are not considered; without wind force and other possible external forces



NSM 500 NAUTICAL STABILIZATION MOUNT



PRECISE SENSOR STABILIZATION

on medium to large maritime vessels

IP 67 for high performance stabilization

in rough maritime environments

MEDIUM-SIZED GIMBAL of SOMAG Marine Gyro Stabilization Mounts

ETHERNET INTERFACE

for integration in ship's infrastructure

Field of Application



Application Examples



Antenna System



Pan/Tilt Camera



Scan this QR-Code with your phone to get further information about the NSM 500 - Marine.