



The NSM 500 is designed to provide the best possible data acquisition and transmission in mobile land applications. The two-axis gimbal ensures a stabilized field of view and high-resolution images by compensating the roll and pitch of vehicles up to $\leq \pm 20.0^{\circ}$ in the roll and pitch axis. The gimbal is suitable for both commercial applications and demanding military missions.

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 lbs 154 lbs 121 lbs
Continuous Torque		125 Nm
Dynamic Peak Torque ³		250 Nm
Mass		33 kg 72.8 lbs
Dimensions		290 mm 11.42 in
		Ø486 mm Ø19.13 in
IP Class		IP 67
Operating Temperature		-32 °C +55 °C -26 °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
Applied Standards		IACS E10, DNV GL, 2006/42/EC Machinery

Preliminary data, subject to change.

The technical specifications in the metric system represent the binding reference values. The imperial units are rounded approximations and are provided for reference only.

- 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)
- 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 $^{\circ}$ C surrounding temperature | longer if temperature inside the unit is < 55 $^{\circ}$ C
- ⁴ Horizontal payload CoG offsets are not considered; without wind force and other possible external forces





MEDIUM-SIZED GIMBAL

for precie sensor stabilization on ground vehicles



IP class 67

for high performance stabilization in rough maritime environments



COMPACT HYDRAULIC SYSTEM

for sensor stabilization up to 100 kg (220.5 lbs) at only 33 kg self-weight



ETHERNET INTERFACE

for integration in ship's infrastructure

Field of Application



LAND

Application Examples



Antenna System



Pan/Tilt Camera



SCAN ME.

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

SOMAG AG Jena