SOMAG

NSM 400

The NSM 400 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 ≤± 20.0° 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]		≤0.4° 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		-30 °C … +55 °C | -22 °F … +131 °F
Storage Temperature		-55 °C … +85 °C | -67 °F … +185 °F
Communication Interfaces		Ethernet | RS422 | RS232
Operational Voltage		28 VDC (24...30 VDC)
Average Power Consumption[4] **at Operational Voltage**		90 W
Peak Power Consumption[4] **at Operational Voltage**		450 W
		IACS E10, DNV GL, 2006/42/EC Machinery

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)

[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

www.somag-ag.de

NSM 400
NIMBLE STABILIZATION MOUNT

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 400 - Land.

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