



OSM 5000

The OSM 5000 is SOMAG's most powerful gimbal system for precise sensor stabilization in on-the-move environments. The gimbal is designed to ensure the best possible mobile data capturing whether on the road or off-road with heavy single- or multisensor payloads of up to 300 kg (660 lbs). IP class 67 protects the offroad gimbal from environmental influences such as dust, salt- and splash water.

TECHNICAL SPECIFICATIONS

Angular Stabilization Ranges	Pitch at 0° Roll:	≤± 12.2° 14.1° (optional)
	Roll at 0° Pitch:	≤± 17.4° 14.1° (optional)
	Yaw (Drift):	no drift correction
Residual Deviation¹	≤0.3° rms	
Payload²	300 kg 250 kg 200 kg 661 lbs 551 lbs 441 lbs	
Continuous Torque	275 Nm	
Dynamic Peak Torque³	550 Nm	
Mass	54 kg 119 lbs	
Dimensions	290 mm 11.42 in Ø665 mm Ø26.18 in	
IP Class	IP 67	
Operating Temperature	-32 °C ... +67 °C -26 °F ... +131 °F	
Storage Temperature	-55 °C ... +85 °C -67 °F ... +185 °F	
Communication Interfaces	Ethernet RS422 RS232 (optional)	
Operational Voltage	48 VDC (44...52 VDC)	
Average Power Consumption⁴ at Operational Voltage	100 W	
Peak Power Consumption⁴ at Operational Voltage	950 W	

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 ≤± 12° / 12°/s / 10°/s² - small periodical lateral accelerations (≤ 0.5 g) acceptable, constant lateral accelerations for more than 1 minute resulting from vehicle's turning maneuvers are compensated by internal or external GPS input. No GPS input could reduce the performance of the Mount during turning maneuvers.

² Possible payload weight depends on lateral acceleration and CoG of payload / shown data is based on 0.5 g lateral acceleration and a CoG payload offset to the Mount surface of: 370 mm (14.6 in) | 450 mm (17.7 in) | 550 mm (21.7 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

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OFFROAD STABILIZATION MOUNT



HIGHEST PAYLOAD STABILIZATION

of SOMAG Land
Gyro Stabilization Mounts



IP class 67

for high performance stabilization
in rough maritime environments



TWO STABILIZATION RANGES AVAILABLE

for best stabilization results tailored to
individual application



ETHERNET INTERFACE

for network integration

Field of Application



LAND

Application Examples



Pan/Tilt Surveillance
System



Radar System



SCAN ME.

Scan this QR-Code with
your phone to get further
information about the
OSM 5000 - Land.

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