SOMAG

OSM 5000

The OSM 5000 is the most powerful gyro-based stabilization platform ever developed by SOMAG and aims to stabilize heavy single- or multi-sensor payloads in marine settings. The Mountis equipped with high-precision built-in sensors to detect movements and automatically compensate them to keep the payload in a leveled position for razor-sharp imagery and comprehensive situational awareness.

TECHNICAL SPECIFICATIONS

Angular Stabilization Ranges	Pitch at 0° Roll: Roll at 0° Pitch: Yaw (Drift):	≤± 12.2° | 14.1° (optional) ≤± 17.4° | 14.1° (optional) no drift correction
Residual Deviation[1]		≤0.3° rms
Payload[2]		300 kg | 250 kg | 200 kg 660 lbs | 550 lbs | 440 lbs
Continuous Torque		275 Nm
Dynamic Peak Torque[3]		550 Nm
Mass		55 kg | 120 lbs
Dimensions		290 mm | 11.4 in Ø665 mm | Ø26.1 in
IP Class		IP 67
Operating Temperature		-32 °C … +55 °C | -22 °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 Consumption[4] **at Operational Voltage**		100 W
Peak Power Consumption[4] **at Operational Voltage**		950 W
		IACS E10, DNV GL, 2006/42/EC Machinery

Preliminary data, subject to change

[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

www.somag-ag.de

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OSM 5000
OFFSHORE STABILIZATION MOUNT

HIGHEST PAYLOAD STABILIZATION
of SOMAG Marine
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 integration in ship's
infrastructure

Field of Application

MARINE

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 - Marine.

SOMAG AG Jena
Am Zementwerk 8 | 07745 Jena | Germany
+49 3641 633 68 0 | www.somag-ag.de | info@somag-ag.de