

# **OSM 5000**

The OSM 5000 is SOMAG's most powerful gimbal system for precise sensor stabilization in on-themove environments. The gimbal is designed to ensure the best possible mobile data capturing wether 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**

Pitch at 0° Poll-	. 10 00 1 1 4 10 (
i itoriat o itori.	≤± 12.2°   14.1° (optional)
Roll at 0° Pitch:	≤± 17.4°   14.1° (optional)
Yaw (Drift):	no drift correction
	≤0.3° rms
	300 kg   250 kg   200 kg
	660 lbs   550 lbs   440 lbs
	275 Nm
	550 Nm
	55 kg   120 lbs
	290 mm   11.4 in
	Ø665 mm   Ø26.1 in
	IP 67
	-32 °C +55 °C   -22 °F +131 °F
	-55 °C +85 °C   -67 °F +185 °F
	Ethernet   RS422   RS232 (optional)
	48 VDC (4452 VDC)
	100 W
	950 W
	IACS E10, DNV GL, 2006/42/EC Machinery
	Roll at 0° Pitch:

Preliminary data, subject to change

<sup>1</sup> Vehicle motion  $\leq \pm 12^{\circ} / 12^{\circ}/s / 10^{\circ}/s^2$  - small periodical lateral accelerations ( $\leq 0.5$  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.

<sup>2</sup> 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)

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

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



# **OSM 5000** OFFROAD STABILIZATION MOUNT



#### HIGHEST PAYLOAD STABILIZATION

of SOMAG Land Gyro Stabilization Mounts  $\bigotimes$ 

**IP class 67** for high performance stabilization in rough maritime environments

 $\checkmark$ 

**TWO STABILIZATION RANGES AVAILABLE** for best stabilization results tailored to individual application 5 |

#### ETHERNET INTERFACE

for network integration

#### **Field of Application**



#### **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.