



DSM 400

Featuring a usable mounting space of 270 mm the DSM 400 provides industry-leading stabilization for multiple medium format aerial sensors and scanners up to 35 kg. The electromechanical gimbal system compensates automatically for movements in all three rotational space axes ensuring blur-free exposures.

TECHNICAL SPECIFICATIONS

Angular Stabilization Ranges	Pitch at 0° Roll: $\leq \pm 10.5^\circ$ Roll at 0° Pitch: $\leq \pm 10.5^\circ$ Yaw (Drift): $\leq \pm 25.0^\circ$
Residual Angular Rate¹	$\leq \pm 0.5^\circ/\text{s rms}$
Residual Deviation	without IMU support ¹ : $\leq 0.3^\circ \text{ rms}$ with IMU support ^{1,2} : $\leq 0.08^\circ \text{ rms}$
Payload³	5...35 kg 11...77.2 lbs
Mass	14 kg 30.9 lbs
Dimensions (Regular Leveling Positions)	Length: 460 mm 18.1 in Width: 430 mm 16.9 in Height ⁴ : 165 mm 6.5 in
Usable Diameter	$\varnothing 270 \text{ mm} \varnothing 10.6 \text{ in}$
Operating Temperature	-15 °C ... +55 °C -5 °F ... +131 °F
Storage Temperature	-55 °C ... +85 °C -40 °F ... +185 °F
Communication Interfaces	RS 232 USB
Operational Voltage	28 VDC (24...30 VDC)
Average Power Consumption at Operational Voltage	30 W
Peak Power Consumption at Operational Voltage	120 W
Applied Standards	RTCA DO-160-G, EUROCAE-14G, ISO 7137, 2006/42/EC Machinery

Preliminary data, subject to change

¹ Vehicle angular motion $< 10^\circ/\text{s}$ and with typical data acquisition profile frequency spectrum

² Deviation from perpendicular depends on accuracy of used IMU

³ Minimum payload is based on usage of Passive Vibration Isolation Ring

⁴ Minimum 131 mm (5.1 in) | Maximum 199 mm (7.8 in)

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DYNAMIC STABILIZATION MOUNT



MEDIUM-SIZED MOUNT

for multiple medium format cameras and scanners



PASSIVE VIBRATION ISOLATION RING

for payloads from 15-25 kg
(33.1-55.1 lbs)



EASY INSTALLATION AND SETUP

suitable for ultralight aircraft and drones



SOMAG MOUNT CONTROL APP

for analysis and setup functionalities

Field of Application



AIRBORNE

Application Examples



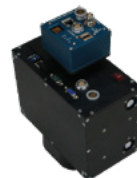
Phase One Aerial Systems



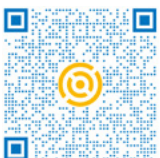
Riegl VUX Series



HySpex VNIR - 1800



Itres micaroCASI 1920



SCAN ME.

Scan this QR-Code with your phone to get further information about the DSM 400.

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