



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			Ø270 mm Ø10.6 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.

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 angular motion <10°/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

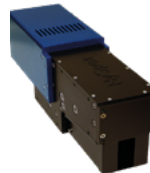
Application Examples



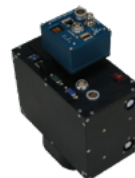
Phase One Aerial
Systems



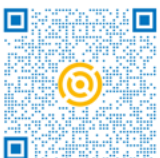
Riegl VUX Series



HySpex VNIR - 1800



Itres micaroCASI 1920



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information about the
DSM 400.

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