



CSM 40

The CSM 40 is designed to stabilize single medium format cameras and sensors in the roll, pitch and yaw axis. The Moun features an electro-mechanical gimbal system and is extra small and cost efficient. The device is characterized by its minimum dimensions and low weight. The compact design and highly functional modularity enable a powerful mounting system, which is particularly suitable for ultralight aircraft and UAVs.

TECHNICAL SPECIFICATIONS

Angular Stabilization Ranges		Pitch at 0° Roll: $\leq \pm 15.0^\circ$
		Roll at 0° Pitch: $\leq \pm 15.0^\circ$
		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} :	$\leq 0.08^\circ \text{ rms}$
Payload		0...15 kg 0...33.07 lbs
Mass		5.2 kg 11.5 lbs
Dimensions (Regular Leveling Positions)	Length:	290 mm 11.4 in
	Width:	275 mm 10.8 in
	Height ³ :	121 mm 4.8 in
Usable Diameter		Ø130 mm Ø5.1 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 Consumption⁴ at Operational Voltage		15 W
Peak Power Consumption⁴ at Operational Voltage		60 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 $<10^\circ/\text{s}$ and with typical data acquisition profile frequency spectrum

² Deviation from perpendicular depends on accuracy of used IMU

³ Payload installation level: 110 mm | Minimum: 86 mm | Maximum 134 mm

CSM 40

COMPACT STABILIZATION MOUNT

**COMPACT AIRBORNE GIMBAL**

for single medium format cameras
and scanners

**LARGEST ANGULAR STABILIZATION
RANGE**

of SOMAG Airborne Gyro Stabilization
Mounts

**SMALL FORM FACTOR AND
LIGHTWEIGHT DESIGN**

suitable for ultralight aircraft and
drones

**MOST COST-EFFECTIVE MOUNT**

for entry level users

Field of Application



AIRBORNE

Application Examples



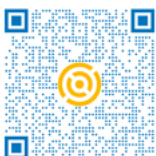
Phase One Cameras



Telops Hyperspectral
Camera



Specim
AisaKESTREL



SCAN ME.

Scan this QR-Code with
your phone to get further
information about the
CSM 40.

SOMAG AG Jena

Am Zementwerk 2 | 07745 Jena | Germany
+49 3641 633 68 0 | www.somag-ag.de | info@somag-ag.de