



# 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

<b>Angular Stabilization Ranges</b>	Pitch at 0° Roll: $\leq \pm 15.0^\circ$ Roll at 0° Pitch: $\leq \pm 15.0^\circ$ Yaw (Drift): $\leq \pm 25.0^\circ$
<b>Residual Angular Rate<sup>1</sup></b>	$\leq \pm 0.5^\circ/\text{s rms}$
<b>Residual Deviation</b>	without IMU support <sup>1</sup> : $\leq 0.3^\circ \text{ rms}$ with IMU support <sup>1,2</sup> : $\leq 0.08^\circ \text{ rms}$
<b>Payload</b>	0...15 kg   0...33.1 lbs
<b>Mass</b>	5.2 kg   11.5 lbs
<b>Dimensions</b> (Regular Leveling Positions)	Length: 290 mm   11.4 in Width: 275 mm   10.8 in Height <sup>3</sup> : 121 mm   4.8 in
<b>Usable Diameter</b>	$\varnothing 130 \text{ mm}   \varnothing 5.1 \text{ in}$
<b>Operating Temperature</b>	-15 °C ... +55 °C   -5 °F ... +131 °F
<b>Storage Temperature</b>	-55 °C ... +85 °C   -40 °F ... +185 °F
<b>Communication Interfaces</b>	RS 232   USB
<b>Operational Voltage</b>	28 VDC (24...30 VDC)
<b>Average Power Consumption at Operational Voltage</b>	15 W
<b>Peak Power Consumption at Operational Voltage</b>	60 W
<b>Applied Standards</b>	RTCA DO-160-G, EUROCAE-14G, ISO 7137, 2006/42/EC Machinery

Preliminary data, subject to change

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

<sup>2</sup> Deviation from perpendicular depends on accuracy of used IMU

<sup>3</sup> 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



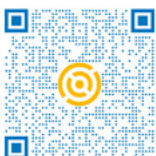
Phase One Cameras



Telops Hyperspectral  
Camera



Specim  
AisaKESTREL



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CSM 40.

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