

VEXCEL
IMAGING

ULTRAMOUNT GSM 4000

Because your jobs
hang in the balance



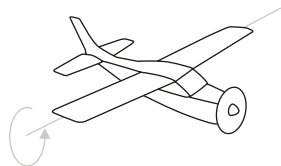
The UltraMount GSM 4000 is compatible with all UltraCam systems, ensuring aligned exposures and the best possible data collection quality by reducing the movement of the aerial system through gyro stabilization. Installed in the fuselage of the aircraft, the UltraMount maintains the system in a leveled position and offers optimal compensation for drift, roll, and pitch movements through

a hydraulic gimbal equipped with four cylinders and two servo pumps. The control panel on top of the mount enables the setup and monitoring of various parameters, firmware upgrades and checks on the system's health condition. For enhanced stabilization accuracy, the UltraMount GSM 4000 can be complemented with the UltraNav system for IMU support.

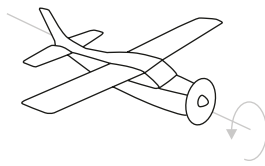


SPECIFICATIONS & DETAILS

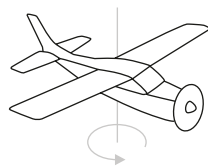
STABILIZATION SPECIFICATIONS



Pitch



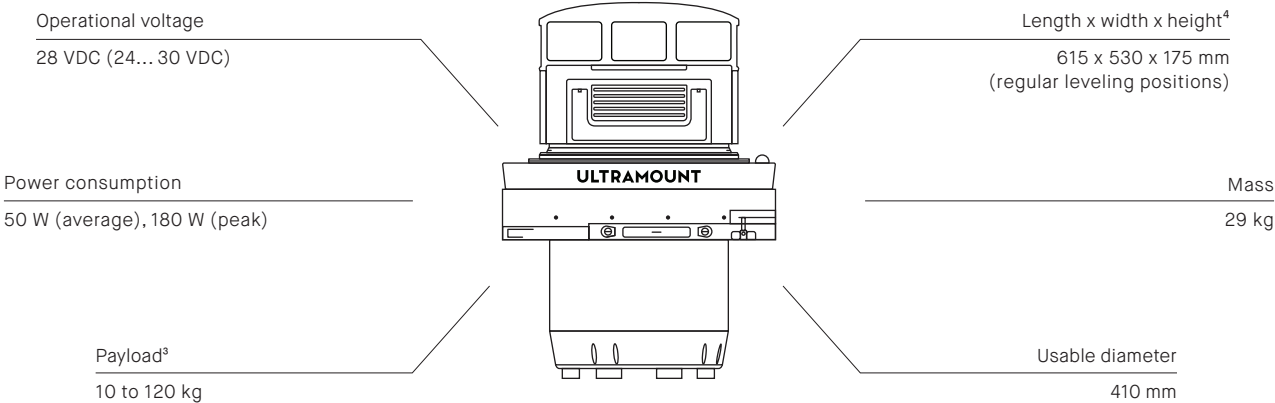
Roll



Yaw

Angular stabilization ranges	
Pitch at 0° roll	$\leq \pm 8.8^\circ$
Roll at 0° pitch	$\leq \pm 7.0^\circ$
Yaw (drift)	$\leq \pm 25.0^\circ$
Residual deviation	
without IMU support ¹	$\leq 0.3^\circ$ rms
with IMU support ^{1 2}	$\leq 0.02^\circ$ rms
Residual angular rate ¹	$\leq \pm 0.2^\circ/\text{s}$ rms

MOUNT SPECIFICATIONS



TEMPERATURE

Operation: -15 °C to +55 °C
Storage: -55 °C to +85 °C



LIFT-UP FUNCTION

For easy access to the
bottom of the system



COMPATIBILITY

4th & 3rd generation
UltraCams

¹ Vehicle angular motion <10 °/s and with typical data acquisition profile frequency spectrum

² Deviation from perpendicular dependent on accuracy of used IMU

³ Minimum payload based on usage of passive vibration isolation ring

⁴ Minimum 149.5 mm | Maximum 200.5 mm

