



Ground-breaking versatility

The UltraCam Panther defines a new class of 3D capture systems.



Stunning high resolution spherical image capture.

Full panoramic coverage of imagery and LIDAR data.

Industry-leading technology for data capture at renowned UltraCam quality.

Designed for low cost of ownership. Easy to deploy, operate and repair.

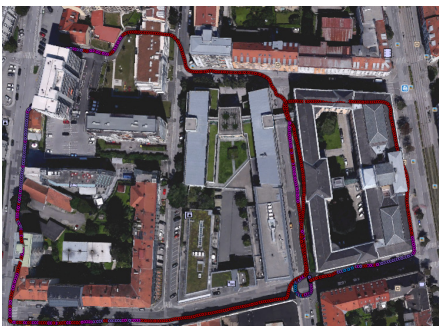


Precisely geo-referenced data products.

Dense 3D point clouds from multi-beam LIDAR.

Geometrically calibrated and time synchronized sensor rig.

Portable and ruggedized for use in a wide range of environments.



The UltraCam Panther is currently under redesign and will be coming back allowing even more efficient 3D reality capture from every perspective.

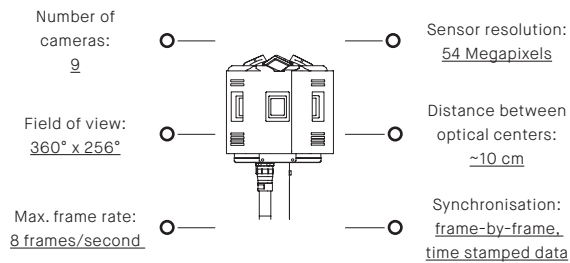


Reliable partner on the road

With over 5 million linear kilometers on the road collected and a history of more than nine years, the UltraCam Mustang has proven itself as a state-of-the-art mobile mapping system.

CAMERA & PANORAMIC HEAD

Sensor type	Global-Shutter CCD
Sensor size	2752 x 2200 pixels
Pixel size	4.54 µm
F-number	F2.8 - F9.0, fixed focus
Lens	8.0 mm p-iris, diffraction-limited
Depth of field	1 m to infinity (@ ≥ F4)
Radiometry	Bayer pattern, 12 bit raw; average (lossless) compression ratio 1:1.5



GLOBAL POSITIONING

Type	GNSS/INS receiver, GPS L1/L2/L2C, GLONASS L1/L2, SBAS and L-Band
Antenna	Dual frequency GPS and GLONASS Pinwheel
Frequency	100 Hz (IMU/INS), 20 Hz (GNSS)
Gyroscope performance	Input range ± 375 deg/sec
Accelerometer performance	Range ± 10 g, Bias 50 mg, Scale Factor 4000 ppm
Post-processing accuracy RMS	0.020 m horizontal, 0.020 m vertical, 0.008 degrees pitch/roll, 0.013 degrees heading
Synchronization	Time stamped data



GEOMETRY

Type	Multi beam rotating LiDAR
Field of view	360° horizontal x 40° vertical
Channels	32
Data rate	700.000 points/second
Useable range	70 m
Accuracy	+/- 2 cm (@ 25 m)
Rotation speed	10 Hz (max. 1200 rpm)



Total power consumption: **660 W**
(system powered by car battery)



Dimensions: 134 x 63 x 41 cm (hinged)
110 x 63 x 142 cm (upright)



Temperature: -10°C to +40°C (operation)
-10°C to +70°C (storage)



COMPUTER & DATA STORAGE SYSTEM

Type:	Storage capacity:	Data:	Interface:	Weight:	Size:
4 Industrial PC Core i7, SATA 6G	10 TB exchangeable storage (HDD) per data unit	22,5 GB/km, 8 GB of LiDAR data/hr @ 4 m spacing	Ruggedized tablet PC	46 kg	56 x 44 x 42 cm