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.

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
- **Number of cameras**: 9
- **Field of view**: 360° x 256°
- **Max. frame rate**: 8 frames/second
- **Sensor resolution**: 54 Megapixels
- **Distance between optical centers**: ~10 cm
- **Synchronisation**: frame-by-frame, time stamped data

**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)

**Computer & Data Storage System**
- **Type**: 4 Industrial PC Core i7, SATA 6G
- **Storage capacity**: 10 TB exchangeable storage (HDD) per data unit
- **Data**: 22.5 GB/km, 8 GB of LiDAR data/hr; @ 4 m spacing
- **Interface**: Ruggedized tablet PC
- **Weight**: 46 kg
- **Size**: 56 x 44 x 42 cm

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