





Our product portfolio







ULTRACAM

EAGLE

26,460 pixels across track together with a unique user-exchangeable lens system make one of the most versatile aerial systems on the market.





Ultra-large footprint of 450 Megapixels.

It is the only digital aerial sensor that features a user-exchangeable lens system to serve all your aerial acquisition missions.







One camera – four lens kits

The UltraCam Eagle features a user-exchangeable lens system



80 mm PAN



100 mm PAN



120 mm PAN



210 mm PAN

40 mm RGB & NIR

70 mm RGB & NIR

27 mm RGB & NIR

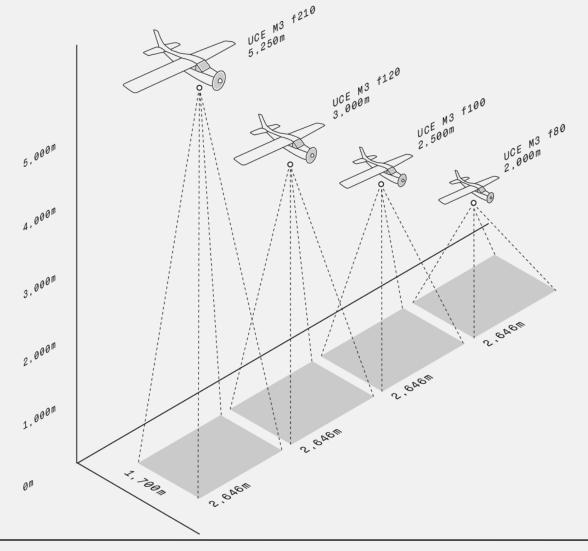
33 mm RGB & NIR





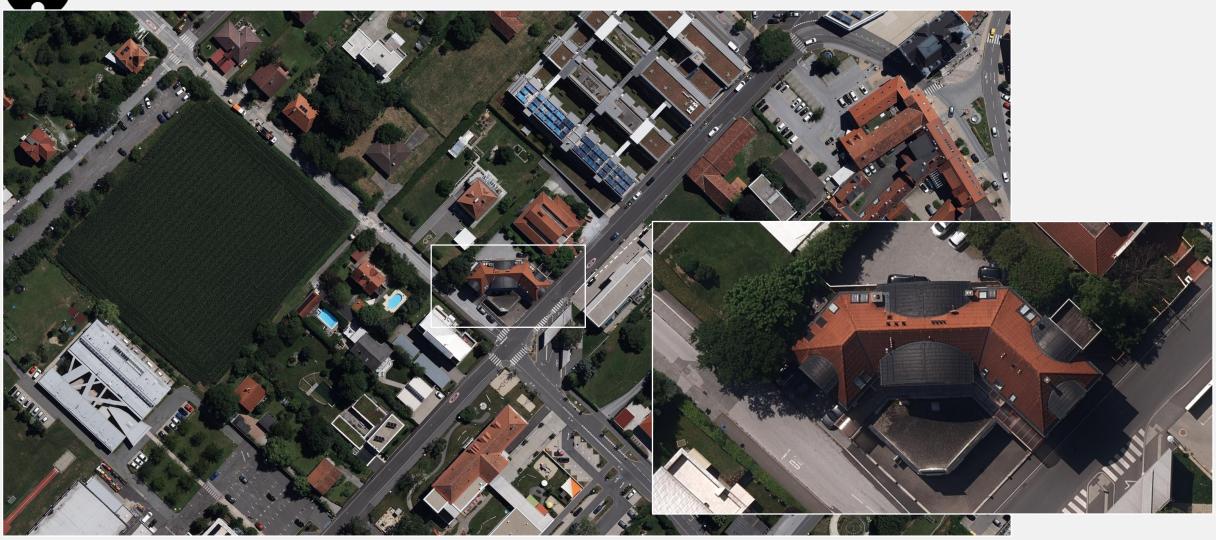
Greater efficiency than ever before.

From lower-altitude engineering applications to high-altitude orthophotography projects:
Customers can exchange lens systems based on their mission needs.









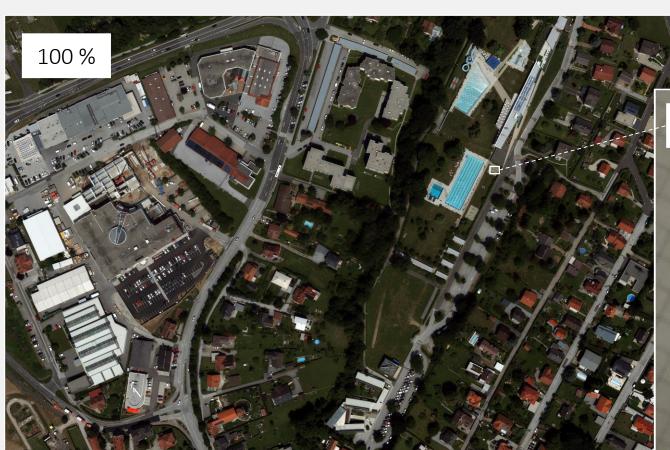
Gleisdorf, Austria 2017 • UltraCam Eagle Mark 3 • GSD 5 cm • RGB



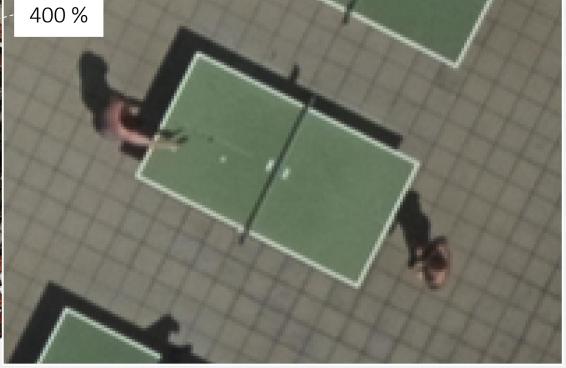




Capture the smallest details with an ultra-large footprint



A ping pong balls has a diameter of 40 mm.



Gleisdorf, Austria 2015 • UltraCam Eagle • GSD 3 cm • RGB • 1200 m AGL





ULTRACAM

OSPREY

Extending a full photogrammetric nadir camera with oblique capture capability in four directions.





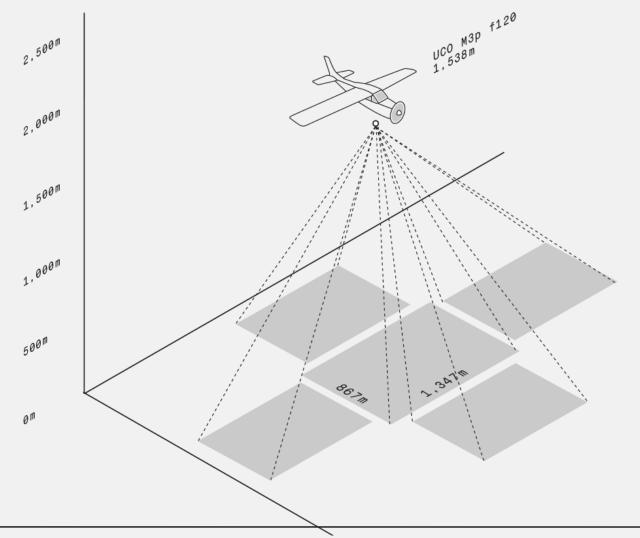


More than a standard camera.

The UltraCam Osprey offers cutting edge technology to collect photogrammetry-grade nadir images (PAN, RGB and NIR) and oblique images (80 Mega pixel RGB) simultaneously.







Best-in-class flight collection efficiency.

The UltraCam Osprey Mark 3 Premium uses the full swath width of the photogrammetric nadir cone (13,470 pixel) in conjunction with the perfectly configured oblique image overlap.



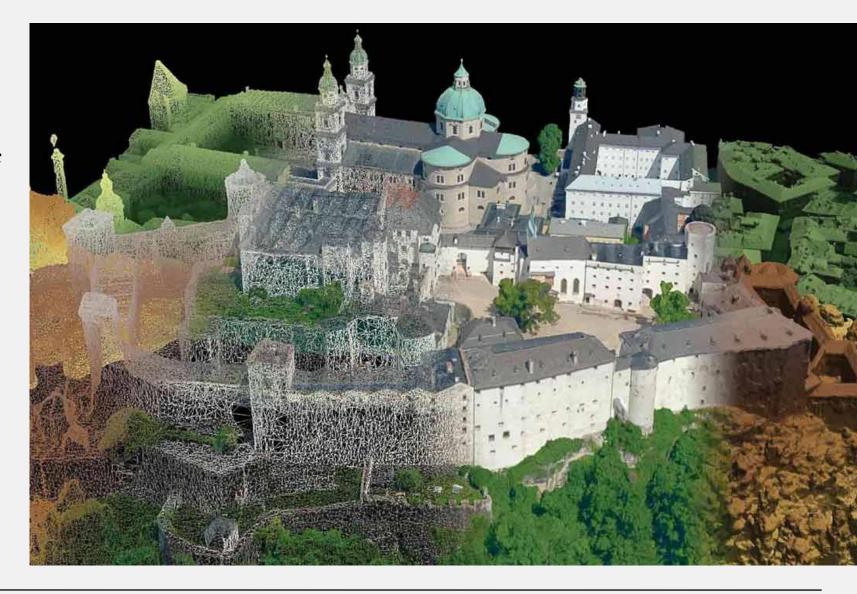






Create 3D models of amazing fidelity & accuracy.

The intuitive end-to-end UltraMap workflow features color-balancing and dehazing of nadir and oblique imagery as well as the ability to automatically generate 3D cities.







ULTRACAM

CONDOR

The UltraCam Condor Mark

1 is the single-source data
acquisition solution for
wide-area and
high-altitude mapping





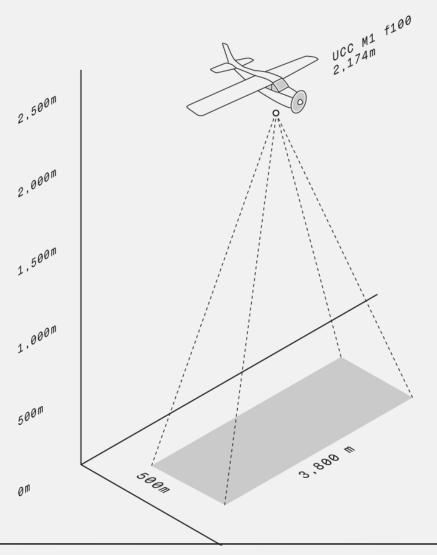


Setting a new standard.

By collecting data much faster for wide-area mapping than smaller cameras, the UltraCam Condor is redefining the efficiency / quality ratio in this segment.







Everything you need.

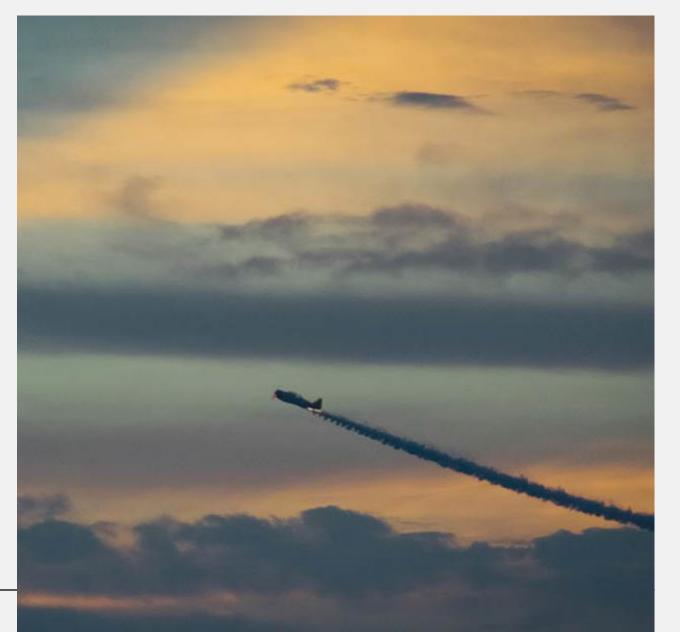
Basic classification needs are supported by a NIR channel.





Long years of experience.

The predecessor model was used exclusively to provide Bing Maps imagery with stunning 30 cm blanket coverage of the continental US and Western Europe in two flight seasons.







UltraCam Condor Results



Flight Mission Baden Württemberg 2019 Detail: City of Stuttgart UltraCam Condor, 20 cm GSD









UC Gen. 2 UC Gen 1 UC Gen. 3

2003 **UltraCam D** 90 MP

2006 **UltraCam X** 136 MP

2008 **UltraCam Xp** 196 MP

2011 Eagle M1 260 MP

2014 Eagle M2 349 MP



2017 Eagle M3 450 MPixel





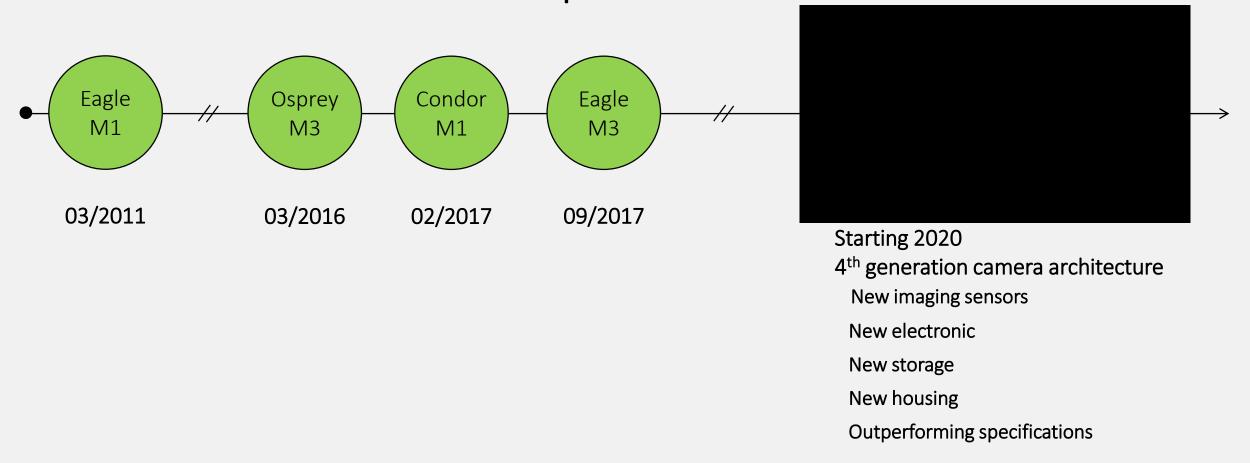


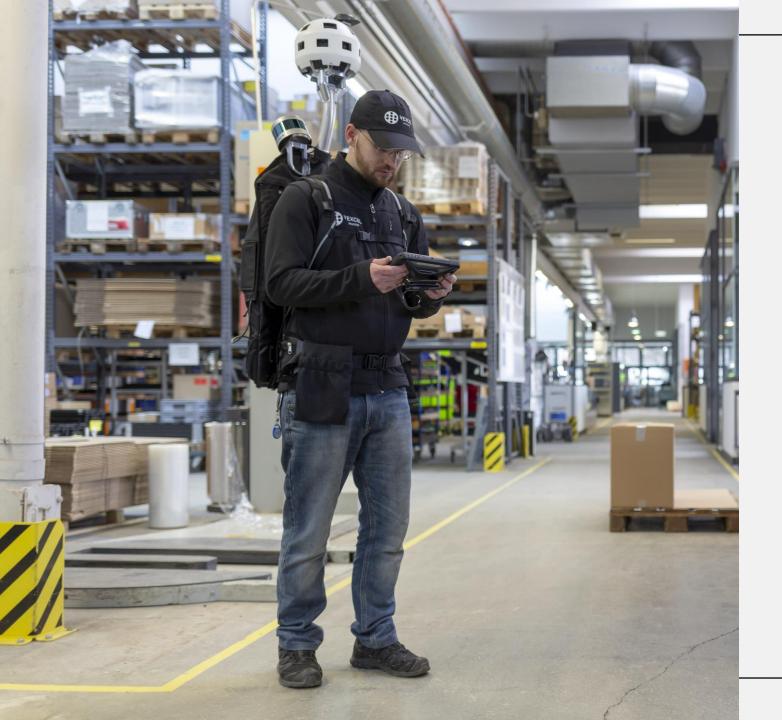






Aerial camera roadmap







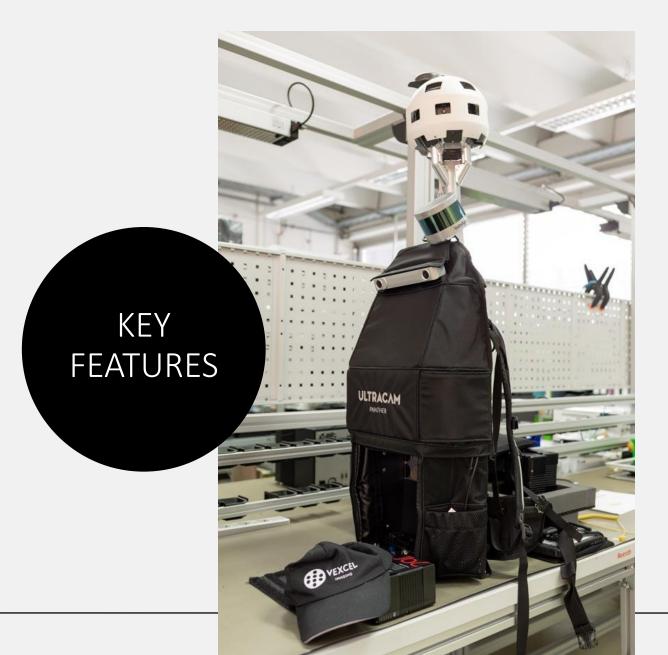
ULTRACAM

PANTHER

The UltraCam Panther defines a new class of 3D Reality Capture Systems.













Perfectly exposed.

Even images with high variations in luminance provide detailed information in every part of the image.

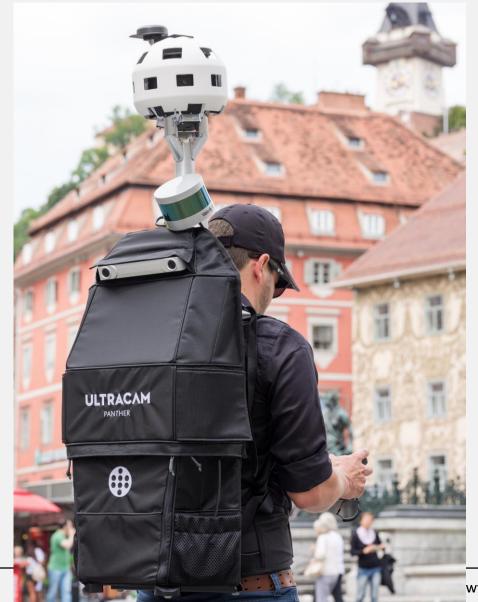






High geometric accuracy.

Each individual orientation-, LiDAR- and odometrymodule is factory adjusted for perfect system integration.

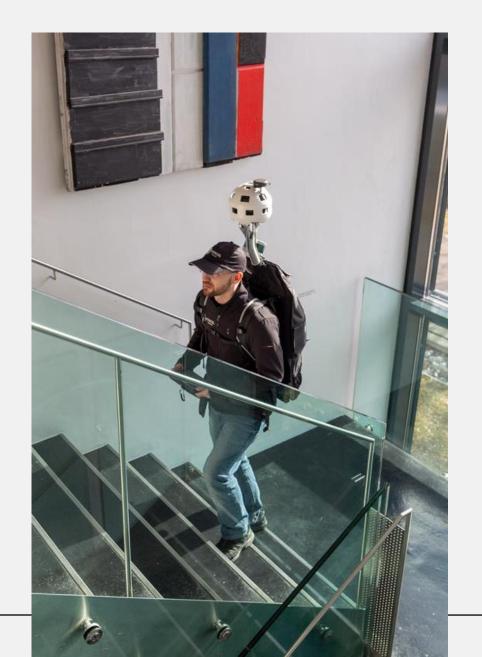






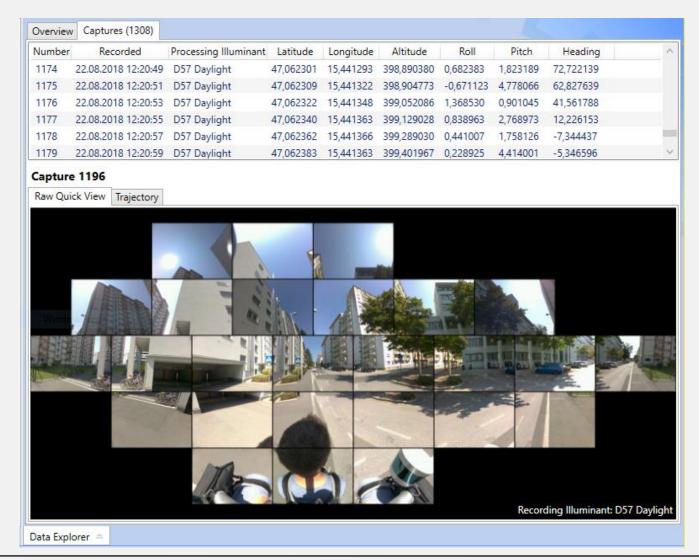
Modular design.

Modular concept allows customization to meet varying needs.







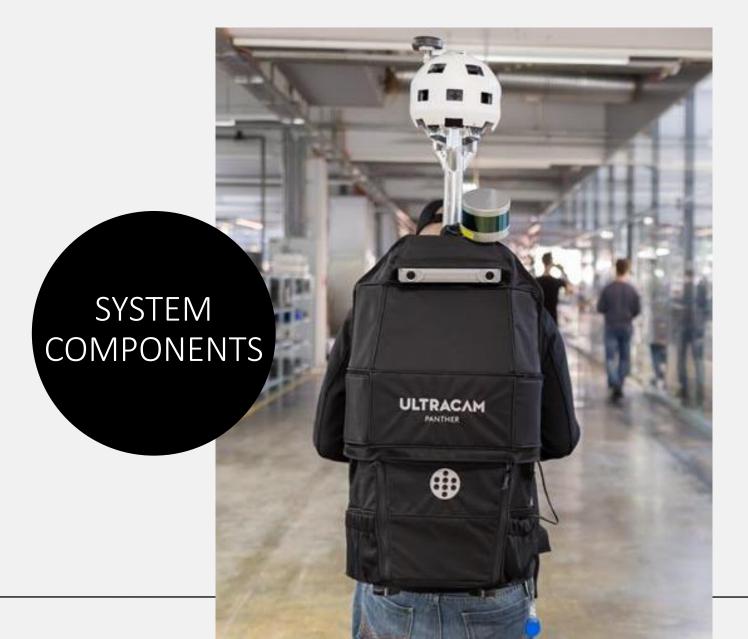


Straightforward processing.

Intuitive raw data processing using UltraMap Terrestrial, available within UltraMap Studio.











GNSS antenna

LiDAR module

ULTRACAM

Orientation module

Battery system Panoramic head

Odometry module

Storage system







Panoramic Head

Field of view: 360° full spherical coverage

Camera resolution: 172 Megapixels

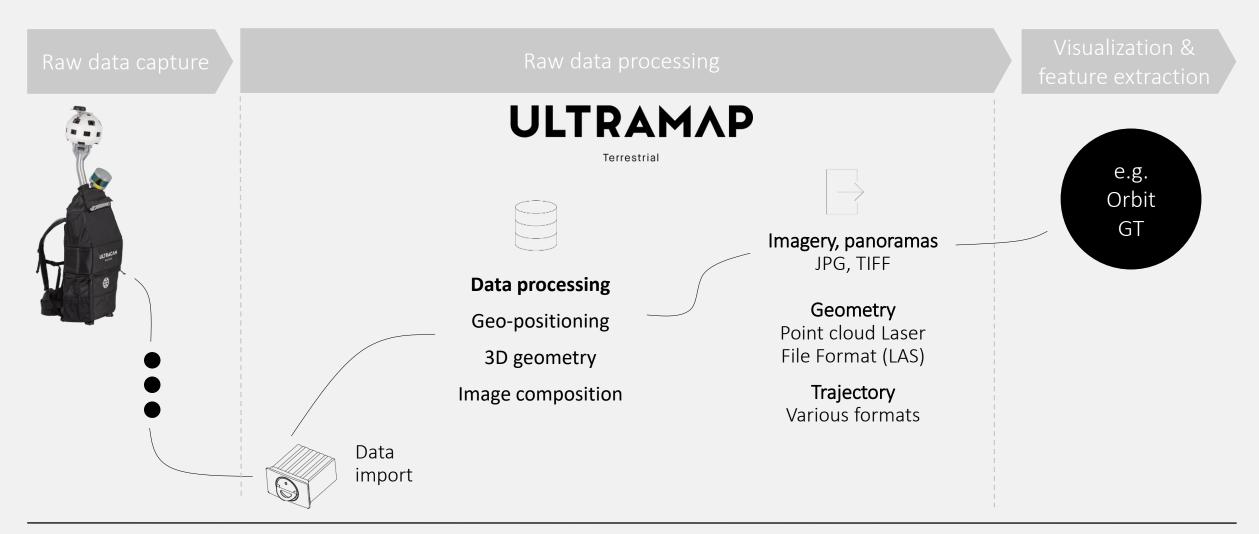
Maximum frame rate: 1.5 frames/second

Number of cameras: $\underline{26}$





More than the sum of its parts





L1_00_00000640_24.jpg



Planar Images (26 per capture)







Equirectangular Panorama







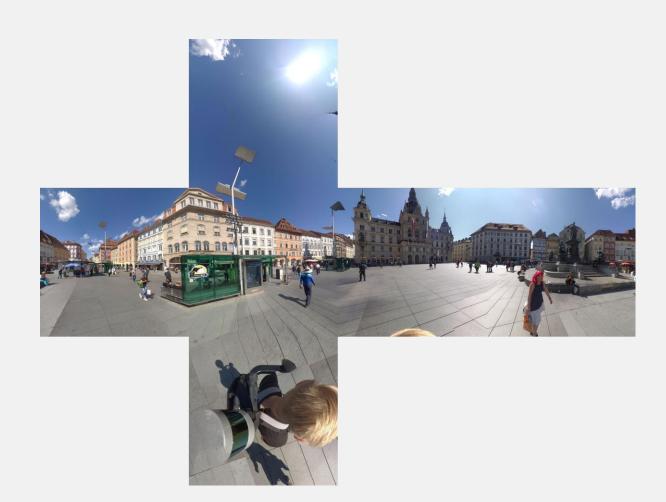


In-door application





Cube Face Panorama







Castle of Eggenberg Graz, Austria



UltraCam Panther 2.5 mm GSD





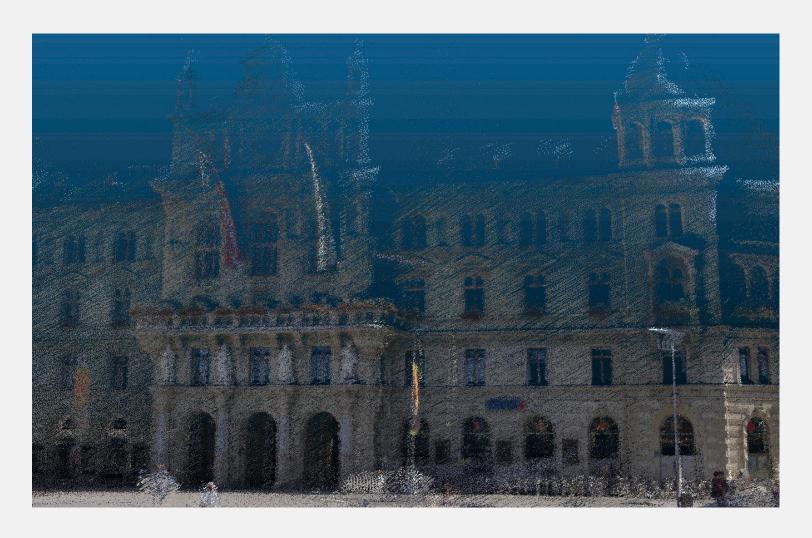
Device Trajectory





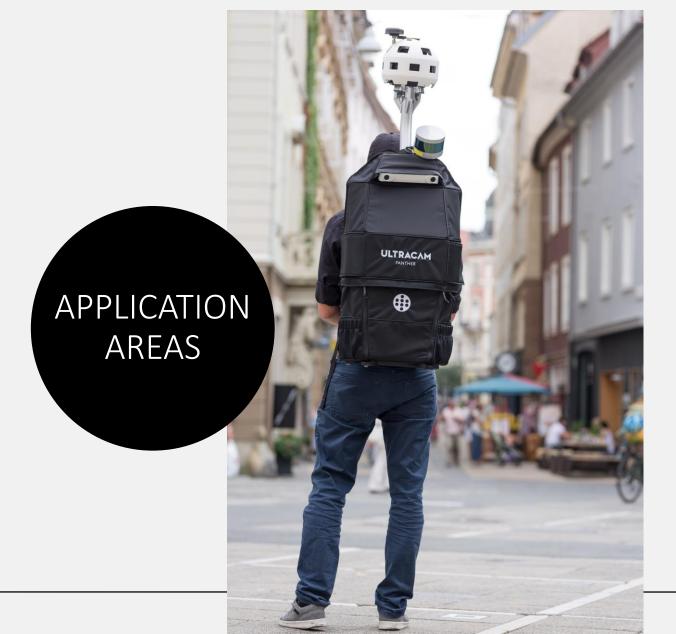


Colored Point Cloud





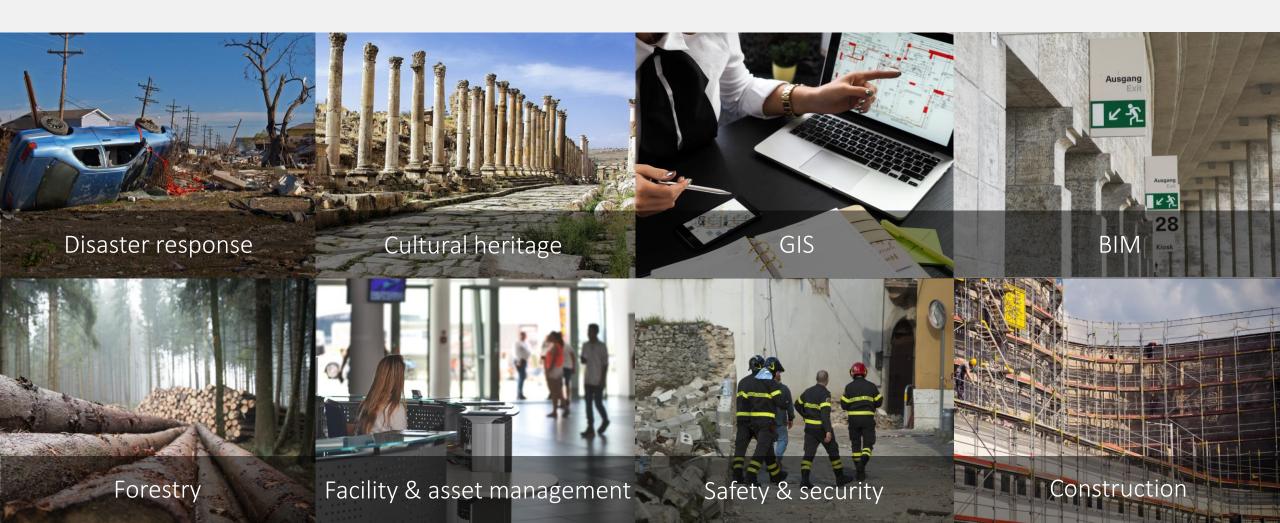








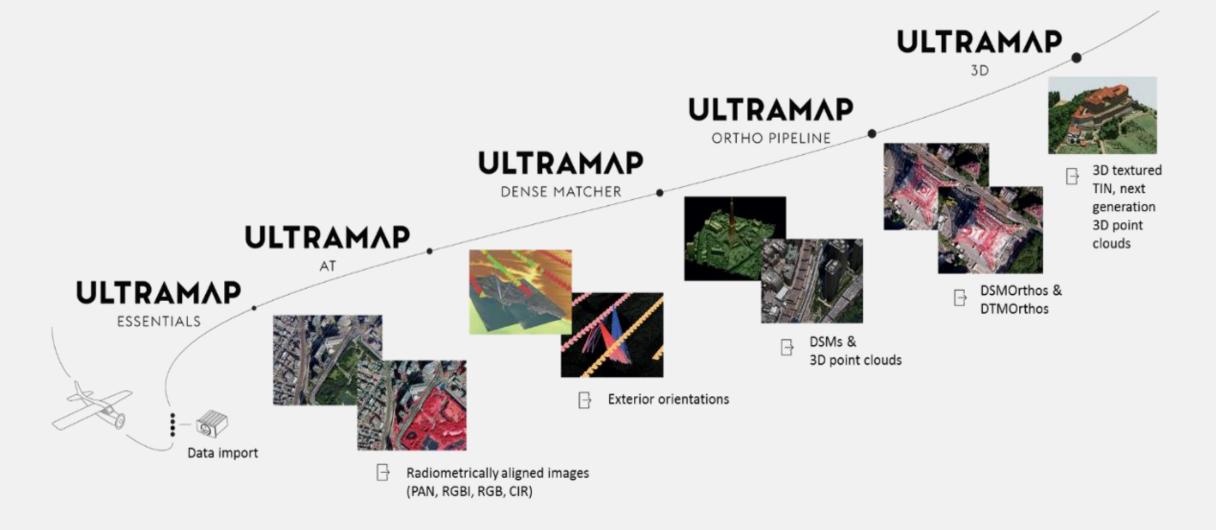
Industries

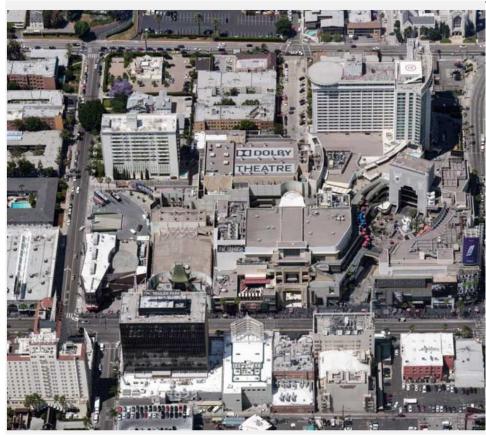




UltraMap Software

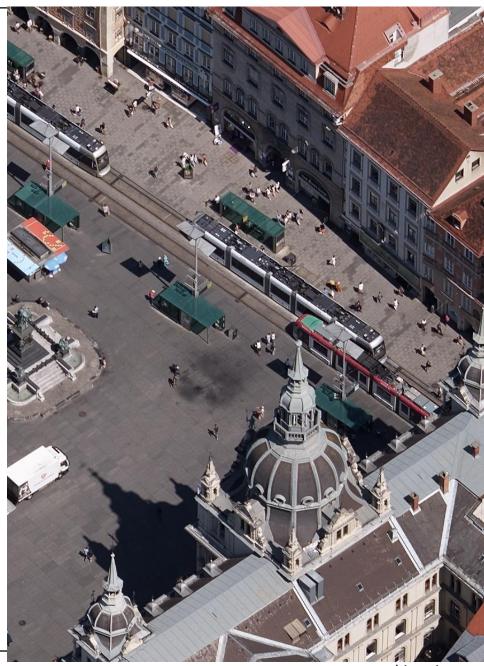












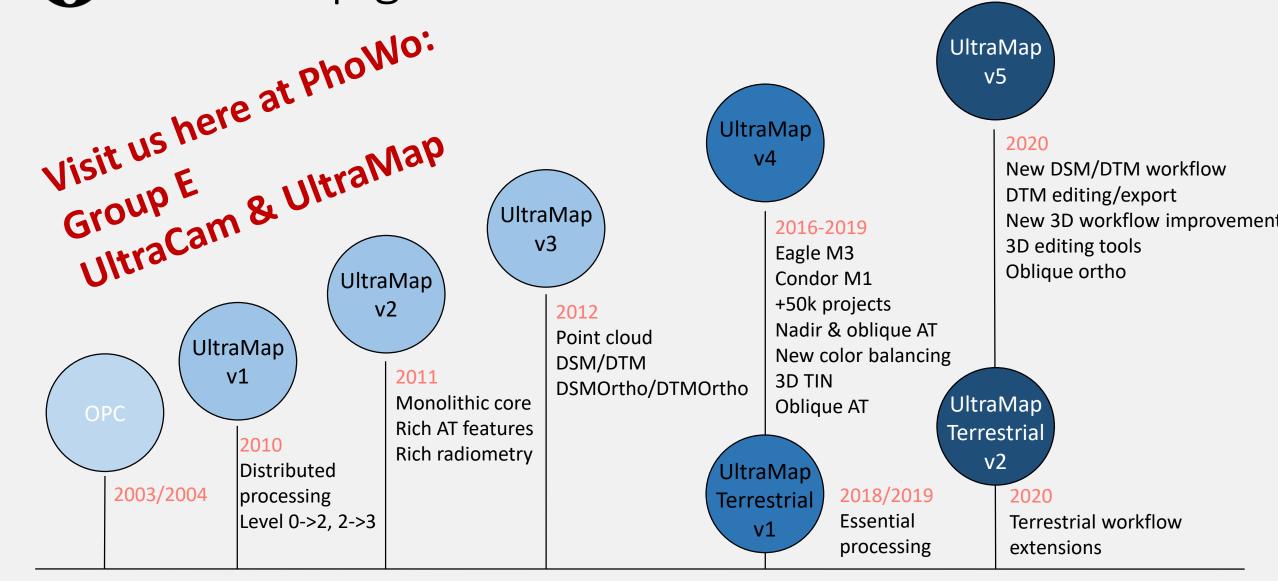
Vexcel Imaging GmbH

www.vexcel-imaging.com



UltraMap generations





Vexcel Imaging GmbH

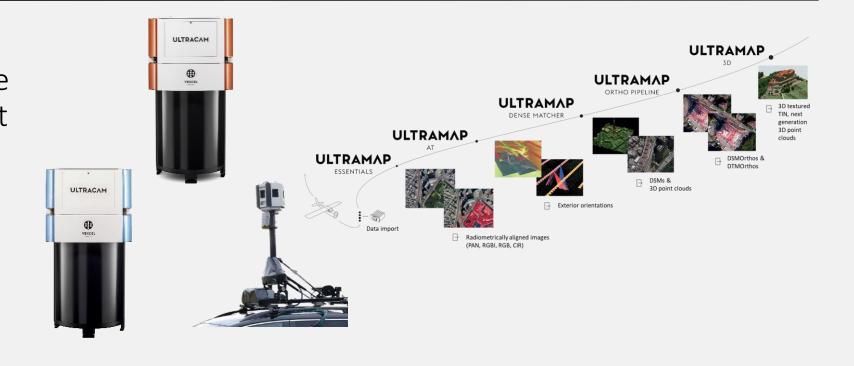
www.vexcel-imaging.com





Vexcel Data Program

Cloud-based imagery service "powered by UltraCam" that offers an unprecedented highly detailed image collection covering entire states and countries.









- Covering entire states and countries
- Currently capturing: USA, Australia, Europe
- Annual collections
- Catastrophe monitoring & disaster response
- High-resolution vertical & oblique aerial imagery
- Street-level 360° imagery
- Derivative products
- Advanced analytics
- Ressources
 - > 25 UltraCam cameras in the air, mixed fleet of UltraCam Osprey M3 and UltraCam Condor M1
 - Mass production by UltraMap in Denver/Boulder & Graz
 - > 4000 processing cores
 - > 6 peta byte of storage on-premise
 - Data access through AWS, Azure and web services

BLUE SKY ANNUAL IMAGERY

VDP collects high-resolution imagery and data for every of whole states.

Currently capturing US, Australia and Europe



BLUE SKY ANNUAL IMAGERY

NATIONAL MAPS:

High-resolution imagery @ 20 cm resolution over a two-year collection period by UltraCam Condor



BLUE SKY ANNUAL IMAGERY



Metro Maps:

- Ultra-high-resolution imagery and data @
 7.5cm resolution repeated annually buy
 UltraCam Osprey
- Coverage includes top metro areas = >>75%
 of countries population.
- 360-degree aerial imagery
- 5 views of a property



GRAY SKY Disaster Response

- GIC Responds to every major catastrophe in the United States
- Imagery is available to members within 24 hours of collection
- Free access for 1st Responders
- Best possible resolution



VEXCEL

SONOMA COUNTY FLOOD



LEE COUNTY TORNADO



Vexcel Imaging GmbH

www.vexcel-imaging.com

Camp Fire and Woolsey

November 2018

- Over 2,500 sq. km. of imagery
- Flown during active flight restrictions
- Additional imagery each day
- Under 24-hour turnaround
- USAF, National Guard, and FEMA priority imagery



Hurricane Florence

September 2018

- 65,000 sq. km. collected
- Active partnership with FEMA and NOAA
- First deployment of Condor wide-area sensor



Hurricane Michael

October 2018

- 85,000 sq. km. collected, processed and delivered in 3 days
- Implemented daily member briefing
- Coordinated with FEMA and NOAA





70012323 Henry Roberts

25562 Vio Road San Juan, CA 92675

Show policy details

Adjust address

0575199720101033 2018-10-26 - 13:52

Client claims that recent storm damaged roof Of the house and needs full replacement

Show full claim Attachments

ROOF DAMAGE

0% 20% 60% 80% 100%

Cannot detect any roof damage

MARK AS

☐ Onsite inspection needed
☐ Elevate to supervisor
✓ Potential fraud
☐ Unable to assess at this time

Share Back









American Red Cross



















An important mission of the GIC is to have **the insurance industry lead the way** in improving response and relief efforts following disasters, and reducing FRAUD after major events.

The GIC is doing this by **transforming how critical information and imagery is collected and disseminated**, driving a coordinated effort across local, state and federal agencies and responders.

The GIC also aims to **increase public awareness** of these important initiatives, and in doing so improve the perception of the insurance industry's positive impact when it matters most



Currently for the CA wildfires, FEMA and the National Guard calculate that the GIC Imagery has been the definitive source in 60% of the

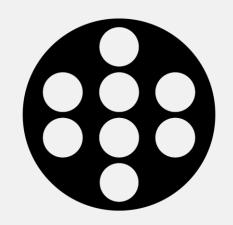
overall damage assessment and response.

Vexcel Imaging GmbH





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UltraCam & UltraMap



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IMAGING