

VEXCEL
IMAGING





About us

We are a leader in the geospatial industry

For almost 30 years, Vexcel Imaging has pushed the envelope in the photogrammetric and remote sensing industry and has become a market leader in the geospatial industry. We offer state-of-the-art digital aerial cameras and software solutions, based on the latest and most-advanced technology.


The broad UltraCam aerial camera portfolio covers all applications in airborne photogrammetry — from nadir to oblique to wide-area data collection. The processing of UltraCam data is done within the UltraMap photogrammetric software suite. In addition, high-resolution aerial imagery is offered through the Vexcel Data Program (VDP), a cloud-based imagery service providing a highly detailed image collection covering entire states and countries.

Our aim is to help customers to generate high-quality geospatial data in the most efficient way.



These are the most important milestones of our history:

- 1992 Vexcel Imaging GmbH was founded in Graz, Austria and started with its photogrammetric scanner, UltraScan 5000.
- 2003 The first digital photogrammetric camera, UltraCam D, was launched.
- 2006 The company was acquired by Microsoft Corporation and, as a subsidiary, contributed to the success of Microsoft's Bing program. The UltraCam X and Xprime were launched, a terrestrial initiative with the UltraCam Panther and Mustang was started, and the 3rd generation of aerial cameras was introduced with the release of the UltraCam Eagle.
- 2016 Vexcel Imaging GmbH becomes a privately owned company again with even greater flexibility and agility. Ongoing evolution of UltraCam 3rd generation cameras.
- 2017 Launch of the Vexcel Data Program (VDP).
- 2020 Vexcel Imaging acquired Geomni image resources from Verisk and grew to more than 450 employees and more than 100 survey planes.



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The UltraCam family

Family means trust. The right business partner can often determine a company's success at present and in the future. Our customers put their trust in us when they choose one of our UltraCam products. This confidence placed in us by our customers bolsters our commitment to include the UltraCam family in shaping the future of our products.

This family means for us:

- Partnership
- Exchange
- Network
- Innovation Process

Partnership

We believe in a transparent and partnership-based business relationship with our customers, aiming for satisfaction and economic success for both sides.

Exchange

Joining the UltraCam family means joining a strong network of family members that span the globe. Profit from an active professional and personal exchange among family members. Such fruitful interactions often bring about new business opportunities.

Network

You also gain access to an exclusive network of experts and to a series of exclusive internal user group meetings, webinars, or live meetings, to name just a few.

Innovation Process

At Vexcel Imaging, we listen to our customers and partners. As a member of our family, you are involved in the innovation process. Our products are developed with your needs and ideas in mind.



The UltraCams

Covered from all angles: Our state-of-the-art aerial cameras offer a wide range of imaging capabilities from nadir to oblique to wide-area mapping.

UltraCam aerial cameras stand for:

- Superior image quality

With its high-performance lens system and state-of-the-art electronics, an UltraCam delivers imagery of unprecedented quality in terms of detail resolution, clarity and dynamic range.

- Fastest collection rate

With the highly parallel architecture for data transfer and data storage, an UltraCam captures images at a fast frame rate. Customers can capture more data in less time and complete mapping projects in fewer flight lines and with greater efficiency than ever before.

- Biggest footprint

From 13,000 pixels to more than 48,400 pixels, an UltraCam covers all applications in airborne photogrammetry.

With the introduction of the 4th camera generation, the cameras are equipped with new industry-leading customized lenses, next generation CMOS imaging sensors with custom electronics, and a best-in-class image workflow to deliver imagery of unprecedented quality.

Whatever the project size, stage of business or budget, Vexcel Imaging has a system that is just right for you.





UltraCam Osprey 4.1

Nadir and oblique images taken by one camera

The UltraCam Osprey 4.1, a highly versatile large-format aerial camera, simultaneously collects photogrammetry grade nadir images (PAN, RGB and NIR) and oblique images (RGB) in four directions.

As a result of a combination of industry-leading customized lens systems, next-generation image sensors with custom electronics, and a best-in-class image processing pipeline, the UltraCam Osprey 4.1 produces imagery of unprecedented vividness and sharpness.

Collecting 1.2 Gigapixels every 0.7 seconds with an impressive image footprint of 20,544 pixels across the flight strip, the system pushes urban flight productivity to new levels. Customers can fly faster, cover more area and see more detail. From orthophotos to point clouds and 3D models, the UltraCam Osprey 4.1 high-performance system sets new standards in urban mapping and 3D city modelling.

For more information click here:



UltraCam Condor 4.1

48,462 pixels across the flight strip

Specifically designed and optimized for nationwide mapping up to 10-20 cm GSD, the UltraCam Condor 4.1 boasts an impressive image footprint of 48,462 pixels across the flight strip. Combining a high-resolution RGB strip and lower resolution rectangular PAN and NIR images, the Condor 4.1 delivers imagery of the utmost quality.

The rectangular PAN channel enables automated dense matching, DSM/DTM and ortho image generation. This eliminates the need for additional flights by other sensors as all necessary data sets can be derived from a single flight with the Condor 4.1. The camera features numerous enhancements, beginning with a fully CMOS based architecture that enables a fast frame rate of 1 frame per 0.7 seconds, allowing customers to operate the system even with jets and turboprops at rapid speeds.

For more information click here:



UltraCam Eagle

One solution. Endless possibilities.

An ultra-large footprint and a fast frame rate coupled with a unique user-exchangeable lens system makes the UltraCam Eagle M3 a highly versatile photogrammetric nadir aerial system. The ability to simultaneously collect RGB and NIR channels at a rapid frame rate of one frame per 1.5 seconds produces high-quality data suitable for a variety of applications.

The exchangeable lens system with four focal lengths—80mm, 100mm, 120mm, 210mm—allows the user to select the right lens for each job. Lens kits can be exchanged by the customer to allow them to take full advantage of the entire camera footprint of more than 26,460 pixels across the flight strip at different altitudes.

For projects requiring high resolution over areas with altitude restrictions, the 210mm lens is ideal for high-altitude orthophotography collection, while the 80mm lens is the right choice for photogrammetric applications with low-altitude collection requirements. From lower altitude engineering applications to high-altitude orthophotography projects, the UltraCam Eagle is the single system solution to serve your mission needs.

For more information click here:





UltraCam Falcon

Versatile and flexible

Our UltraCam Falcon is a nadir photogrammetric aerial camera with optimized productivity and image quality. The UltraCam Falcon is ideal for your organization if...

- you want to capture large areas in a short time, because of its image footprint of 17,310 x 11,310 pixels.
- you want to fly at high aircraft speeds and your projects require high forward overlap.
- you want to fly high resolution projects at a lower altitude, leveraging the UltraCam Falcon 1.35 second frame rate.

At the time of purchase, customers can choose between two different focal lengths, 70mm and 100mm. PAN focal length of 70mm is the best choice for photogrammetric applications requiring minimal flight altitude while PAN focal length of 100mm balances flight altitude and footprint under lean restrictions at the image edges. In addition to PAN and RGB channels, the UltraCam Falcon M2 includes, like our other UltraCam systems, a near-infrared channel to make the identification of water and vegetation features easier during the classification.

For more information click here:





UltraNav

The flight management and geo-referencing solution

The UltraNav flight planning and direct georeferencing solution optimizes your flight mission for utmost productivity of the highest precision. To get the most out of the flight mission, the UltraNav flight management and GNSS-inertial direct georeferencing solution supports customers in the planning and execution of their projects for maximum productivity. For highest operational flexibility, the solution is available in different configurations. Also, the IMUs integrated into UltraNav are ITAR-free.

For more information click here:



UltraMount

For optimized camera stabilization

The UltraMount product line dynamically stabilizes UltraCam systems in the aircraft allowing for blur-free, consistent and aligned exposures. The gyro-stabilization mounts dynamically counterbalance arbitrary rotational movements in aircraft and stabilizes the camera during exposure for the best possible image quality.

For more information click here:



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Software UltraMap

The all-in-one photogrammetric processing software

Rounding out the UltraCam offerings is UltraMap the fully integrated, end-to-end workflow processing software. Consisting of five consecutive modules, UltraMap delivers exceptional quality point clouds, DSMs, DTMs, ortho imagery and 3D textured TINs, leading to optimal output in all areas of applications of the UltraCam product family. A highly automated and streamlined workflow for processing, combined with the option of manual interaction when needed, makes UltraMap a flexible and powerful instrument for creating true photogrammetric quality products.

A revolutionary software-based feature, available with all 4th generation UltraCam aerial sensors, is the Adaptive Motion Compensation (AMC). AMC is a unique software-based approach to compensate for multi-directional and multi-scale motion blur. In addition to correcting image blur in the direction of flight (the so-called Forward Motion Compensation or FMC), AMC also addresses blur caused by multi-directional camera movements during the flight and opens up a new chapter in motion compensation.

UltraMap Essentials

Radiometrically adjusts and converts raw UltraCam images into standard file formats to be used for further processing steps into UltraMap and/or third-party software systems.

UltraMap AT

Provides an interactive workflow for nadir & oblique cameras while calculating image correspondences in order to generate a precise exterior orientation for an entire image block by means of least-squares bundle adjustment.

UltraMap Dense Matcher

Creates high-density point clouds, DSMs and DTMs from aerial images by extrapolating precise exterior orientation data to generate per-pixel height values.

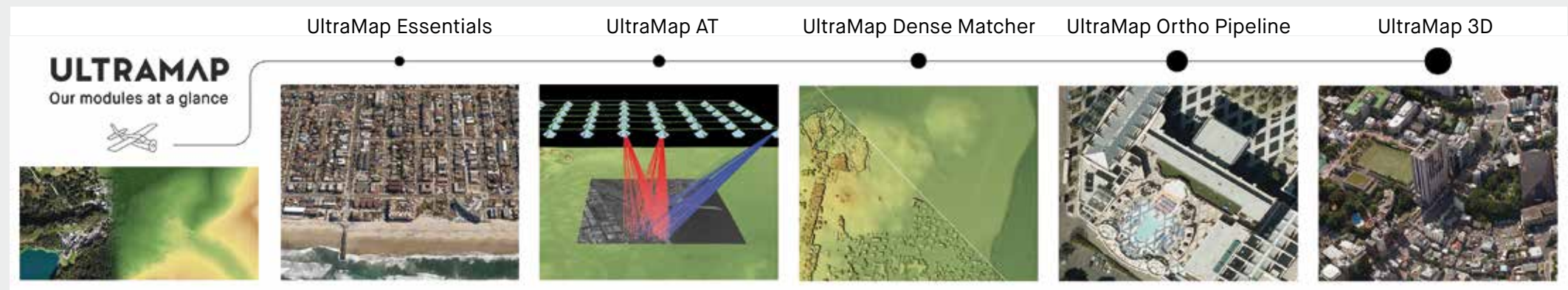
UltraMap Ortho Pipeline

Generates the final ortho mosaics (DSMOrtho and DTMOrtho) from all available inputs such as aerial imagery, AT results, radiometric settings & height field.

UltraMap 3D

UltraMap enables basic automated 3D textured TIN functionality. The package provides 3D data generation as well as interactive view & export options.

For more information click here:



Vexcel Data Program

Comprehensive image library

High-resolution aerial UltraCam imagery along with derivative 3D data products is available through the Vexcel Data Program (VDP), a cloud-based imagery service, providing the most diverse image collection of its kind.

The Vexcel Data Program is an imagery-as-a-service offering, providing access to a library of content via a cloud-based platform. VDP currently collects aerial data in over 20 countries, including the United States, Canada, U.K., Western Europe, Australia, New Zealand, Puerto Rico and Japan. It's the only professional aerial imagery program to capture both, urban and rural areas with photogrammetric accuracy so customers are assured that they are working with the best in location intelligence.

What does VDP offer?

- Global Coverage
- Accurate & Consistent imagery
- Integrations & APIs

For more information click here:



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Service is our passion

With decades of experience servicing UltraCam systems, the Vexcel Imaging Global Support Team is your reliable partner in each step from system installation, operator training to all other support scenarios. Our support team and partners are located strategically across the globe to guarantee 24/7 support to our customers.

Feel free to contact one of the 3 primary service centers – also equipped with a calibration lab – anytime. We will gladly help out!

Europe

Support Hours 08:00–17:00 CET
+43 (0) 316 376100

support@vexcel-imaging.com
Graz, Austria

North America

Support Hours 09:00–18:00 MST
+1 646 568 7669

support@vexcel-imaging.com
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Technische Produktion Gertrude Gotthard e.U. · A-8504 Preding · Mettersdorf 55 · Tel. +43 (0)3185 6124-11 · office@gotthard-technik.at

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Löschner Elektronik GmbH · Wirtschaftspark 24 · A-8530 Deutschlandsberg · Tel. +43 (0)3462 2510 · info@loescher-elektronik.at · www.loescher-elektronik.at



Vexcel Imaging GmbH
Anzengrurgasse 8/4
8010 Graz
Austria

info@vexcel-imaging.com
www.vexcel-imaging.com

