OBLIQUE IMAGERY

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NV5G EDGE

NV5 Geospatial is the industry leader for acquisition and analysis of aerial imagery data. With the addition of the Vexcel UlraCam Opsprey, we can provide our clients a new angle to view the world.

LATEST SENSOR TECHNOLOGY

Continuing our mission to provide the highest quality and most accurate data for our clients, NV5 Geospatial has added the UltraCam Osprey 4.1 to our sensor portfolio to support oblique imagery missions.

The UltraCam Osprey 4.1 simultaneously acquires photogrammetry-grade nadir (PAN, RGB, and NIR) and 3-band (RGB) images in the four cardinal directions. From emergency response, to planning improvement projects, to remote inspections for utilities, the sensor sets the new standard for ultra-efficient, high quality dataset for a variety of use cases.

HIGHLIGHTS

- Achieves a simultaneous collection of both NADIR and Oblique images
- Collect at sun angles of up to 40-degrees
- Acquire 1.2 Gigapixels of data every 0.7 seconds
- Wide swadth at 20,544 pixels

The UltraCam Osprey 4.1

For more information or to schedule a meeting contact rick.wallace@nv5.com

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APPLICATIONS

TECHNICAL CAPABILITIES

At a 45-degree angle, the UltraCam Osprey 4.1 is capable of providing optimal 3D aerial mapping data unlike other sensors in the oblique category. With the new Adaptive Motion Compensation images are clearer to achieve first-time-right flights in a range of locations and challenging terrains.

Nadir	
PAN image size	20,544 x 14,016 pixels
Nadir color image size	12,840 x 8,760 pixels
Color capability	4-band (RGB & NIR)

Oblique	
Color image size	14,144 x 10,560 pixels
Color capability	3-band (RGB)

Sensor Specifications	
Motion compensation	Adaptive Motion Compensation (AMC)
Frame rate	1 frame per 0.7 seconds
Dynamic range	83 dB at base ISO
Spectral bands	R (580 - 690 nm) G (480 - 600 nm) B (420 - 510 nm) IR (690 - 800 nm) PAN (430 - 690 nm)

Sample image aquired using the UltraCam Osprey 4.1 in Gleisdorf, Austria

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