ULTRACAM EAGLE MARK 3

One system for endless possibilities
The UltraCam Eagle Mark 3 is one of the most versatile aerial systems on the market.

**Specifications & details**

**Panes**
- 4 focal lengths: 80 mm, 100 mm, 120 mm, 210 mm
- Adjustable range: 2,000 m - 5,250 m
- Frame rate: 1 frame per 1.5 seconds
- Forward-motion compensation (FMC) through TDI
- Color physical pixel size: 4.0 µm
- Color image size: 8,820 x 5,668 pixels
- PAN physical pixel size: 4.0 µm
- PAN image size: 2,500 x 2,500 pixels
- Footprint: optimised under angle restrictions at 5 m height (across x along)
- Footprint: 8,000 x 8,000 pixels
- Footprint: 10,000 x 10,000 pixels
- Footprint: 12,000 x 12,000 pixels
- Footprint: 21,000 x 17,004 pixels
- GSD: 10 cm
- Ground sampling distance: 10 cm
- Frame rate: 1 frame per 1.5 seconds
- Forward-motion compensation (FMC) through TDI

**TDI**
- UltraCam operators are sure to appreciate the easy to configure and versatile aerial systems on the market.

**FLIGHT ALTITUDE**
- Flight altitude: ≤ 7,000 m
- Humidity: 5% to 95%
- Storage capacity: 10 TB
- Weight: max. 400 W
- Operation: -20 °C to +65 °C (storage)
- 0 °C to +45 °C (operation)
- Power consumption: max. 400 W
- Weight: 68 kg (f210)
- Weight: 61 kg
- Data unit storage: (~4,600 images)
- Input data quantity per image: 1,780 MB
- Configuration:
  - GNSS/INS/FMS
  - UltraMount (GSM 4000 & GSM 3000)
  - Most current third party mounts²

**SENSOR SYSTEM**
- Imaging sensor: CCD
- Sensors available: UltraMap, Ultra-Map, UltraMap
- Analog-to-digital-conversion: 14 bits
- Pansharpen ratio: 1:3

**LENS SYSTEM**
- Color (R, G, B & NIR) lens system focal length: 27 mm, 33 mm, 40 mm, 70 mm
- Color (R, G, B & NIR) lens aperture: f=1/4.8, f=1/4.8, f=1/4.8, f=1/5.6

**FLIGHT TRACK**
- Footprint: 26,460 pixels across track
- Footprint: 17,004 pixels across flight strip

**LENS EXCHANGEABLE**
- Exchangeable lens system offers versatile aerial systems on the market.
- Ultra-large footprint coupled with a unique user-exchangeable lens system makes the UltraCam Eagle one of the most versatile aerial systems on the market.

**VERSATILITY**
- The UltraCam Eagle Mark 3 boasts an ultra-large footprint of 450 mm × 450 mm — a groundbreaking technology, the UltraCam Eagle achieves aerial acquisition missions.
- 4 focal lengths: 80 mm, 100 mm, 120 mm, 210 mm — a groundbreaking enhancement in digital photography.
- A newly developed CCD sensor featuring outstanding signal/noise ratio and non-mechanical FMC by 4.0µ technology.
- For regions with flight altitude restrictions at the image edges.
- For photogrammetric applications requiring minimal flight altitude.
- For photogrammetric applications balancing flight altitude and footprint under lean restrictions at 5 m height.
- Performance of high-resolution images of highest photogrammetry. A key modification is maintenance even after multiple data unit exchanges.

**SOLID GLASS**
- Photogrammetric grade accuracy is maintained even after multiple data unit exchanges.
- No recalibration needed.

**OPEN ARCHITECTURE**
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**WORKHORSE**
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BENEFIT FROM OUR TECHNOLOGY

When you partner with Vexcel Imaging, you get more than a camera. You get cutting-edge technology combined with a progressive service concept for constant product upgrades, world-class support and one-stop solutions. Today and tomorrow.