

ULTRACAM EAGLE MARK 3 One system for endless possibilities



26,460 pixels across track

An 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.

The UltraCam Eagle Mark 3 boasts an ultra-large footprint of 450 Megapixels. It is the only digital photogrammetric aerial sensor that features a user-exchangeable lens system, providing you with a "workhorse" sensor to serve all your aerial acquisition missions.

Thanks to the latest sensor technology, the UltraCam Eagle achieves an excellent minimum capture interval of one frame per 1.5 seconds. The exchangeable lens system offers the option of four lens kits at focal lengths of 80mm, 100mm, 120mm and 210mm — a groundbreaking enhancement in digital photogrammetry. A key modification to the new UltraCam Eagle M3 is a newly developed CCD sensor based on new 4.0µ technology, featuring outstanding signal/noise ratio and non-mechanical FMC by TDI. UltraCam operators are sure to appreciate the easy to configure and operate new user-focused interface panel with touchscreen technology for in-flight quality control of each image. The result is an ultra-efficient, ultra-flexible, ultra-reliable camera for streamlined image acquisition for all your mission needs.



PROF. DI DR. HARALD MEIXNER ULTRACAM EAGLE CUSTOMER

"Without the UltraCam Eagle on board our aircraft, our operations would not be nearly as efficient. The state-of-the-art technology from Vexcel enables our teams to work more efficiently and economically than our competitors."

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FLEXIBILITY

With the UltraCam Eagle, customers can capture more data in less time to complete mapping projects in fewer flight lines and with greater efficiency than previously possible.

O USER-EXCHANGEABLE

Exchange the lens kits on-site by trained personnel within 3-4 hours.







NO RECALIBRATION

Ο

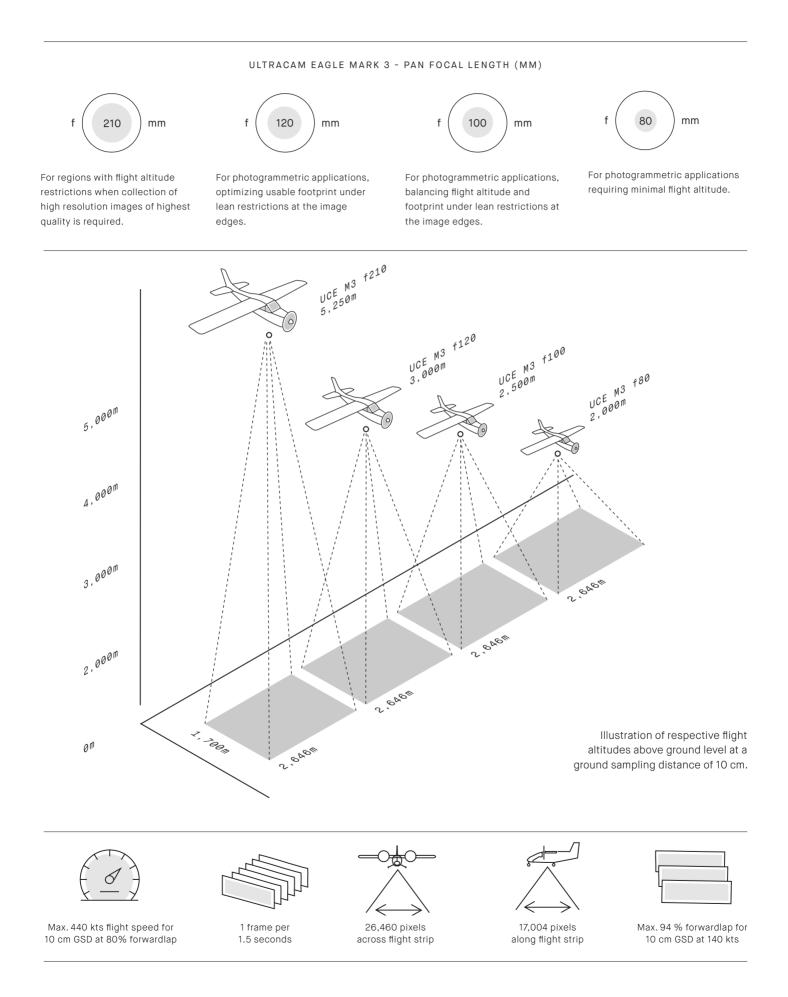
Photogrammetric grade accuracy is maintained even after multiple lens exchanges.



Ο 4 FOCAL LENGTHS

Take full advantage of the entire camera footprint of 26,460 pixels across the flight strip at different altitudes.

Specifications & details



14 bits

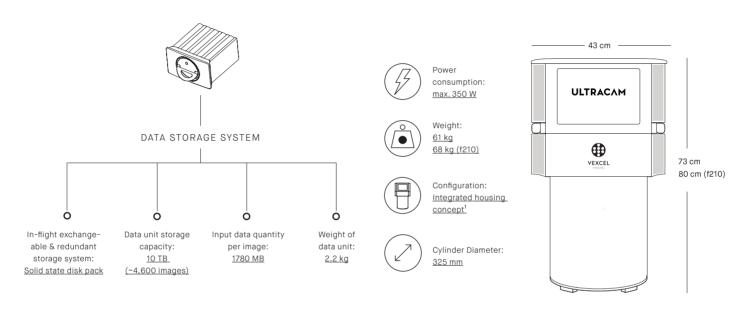
Technical changes, printing errors, mistakes and amendments reserved.

SENSOR SYSTEM

| PAN image size | 26,460 x 17,004 pixels |
|-----------------------------------|----------------------------|
| PAN physical pixel size | 4.0 µm |
| Color capability (multi-spectral) | 4 channels - R, G, B & NIR |
| Color image size | 8,820 x 5,668 pixels |
| Color physical pixel size | 4.0 µm |
| Pansharpen ratio | 1:3 |
| | |

Imaging sensorCCDShutter (longlife central leaf)1/1000 to 1/64Forward-motion compensation (FMC)TDI controlledMaximum FMC capacity50 pixelsFrame rate (minimum inter-image interval)1 frame per 1.5 secondsDynamic range>72 db

Analog-to-digital-conversion at



¹ For separated housing concept options please contact our sales team.

| | LENS SYSTEM | | | | |
|---------------|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| (f80) | (f100) | (f120) | (f210) | | |
| 80 mm | 100 mm | 120 mm | 210 mm | | |
| f=1/5.6 | f=1/5.6 | f=1/5.6 | f=1/7.8 | | |
| 27 mm | 33 mm | 40 mm | 70 mm | | |
| f=1/4.8 | f=1/4.8 | f=1/4.8 | f=1/5.6 | | |
| 67,0° (46,1°) | 55,8° (37,6°) | 47,6° (31,6°) | 28,3° (18,4°) | | |
| 2,000 m | 2,500 m | 3,000 m | 5,250 m | | |
| 8,000 x 8,000 | 10,000 x 10,000 | 12,000 x 12,000 | 21,000 x 17,004 | | |
| | 80 mm f=1/5.6 27 mm f=1/4.8 67,0° (46,1°) 2,000 m | 80 mm 100 mm f=1/5.6 f=1/5.6 27 mm 33 mm f=1/4.8 f=1/4.8 67,0° (46,1°) 55,8° (37,6°) 2,000 m 2,500 m | 80 mm 100 mm 120 mm f=1/5.6 f=1/5.6 f=1/5.6 27 mm 33 mm 40 mm f=1/4.8 f=1/4.8 f=1/4.8 67,0° (46,1°) 55,8° (37,6°) 47,6° (31,6°) 2,000 m 2,500 m 3,000 m | | |



Flight altitude: ≤ 7000 m above sea level

Humidity: <u>5 % to 95 %</u> no condensation

² Please contact our sales team for detailed information.

OPERATIONAL SPECIFICATION



<u>0 °C to +45 °C</u> (operation, computer stack) -20 °C to +45 °C (operation, sensor stack) -20 °C to +65 °C (storage)



Mounting: UltraMount (GSM 4000 & GSM 3000) and most current third party mounts²



GNSS/INS/FMS system support: <u>UltraNav (Applanix</u> <u>POSTrack OEM) and</u> <u>most current third</u> <u>party systems²</u>



Data processing: <u>UltraMap</u> processing suite including data export in standard formats

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.

Vexcel1maging GmbH

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