

Fully integrated, easy to swap and well protected

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SONY RX1 RII

RGB Camera

The Sony RX1 RII meets the highest demands for RGB image quality and resolution in everyday surveying and monitoring applications, especially in the mining, civil survey, and agricultural sector.



With its resolution of 42.4 megapixels, the Sony RX1RII is ideal for all applications where the highest requirements are placed on the images. The output possibilities vary from precise data sets like digital ortho photos

(DOP), digital terrain models (DTM), digital surface models (DSM), high-resolution point clouds and detailed 3D models.

SONY RX1 RII Technical Specifications





Sensor Resolution GSD Trigger Interval Sensor Type Sensor Format Sensor Size Lens Payload Weight RTF Storage 42.4 MP (7952 × 5304 px) 1.29 cm @100m AGL 1.4 seconds CMOS Full frame 35.9 mm × 24.0 mm f=35 mm, F2.0 693,7 g SD-Card (internal slot)

Sample Data



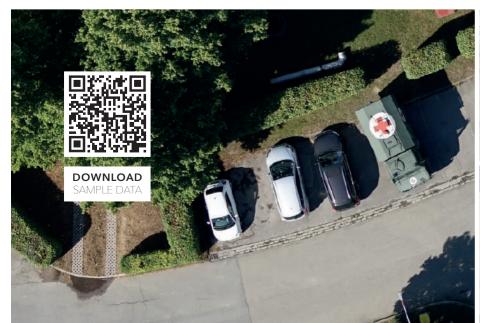
FLIGHT ALTITUDE 120 m | 393 ft AGL



FLIGHT SPEED 17 m/s



GSD 1.55 cm/px









Oblique D2M

Five-lens RGB Camera

The Oblique D2M is a powerful oblique imaging system consisting of five high-resolution multidirectional cameras, making it the ideal tool for large scale 3D photogrammetry.



A fast trigger interval along with custom high-speed storage provides class-leading time efficiency without compromising data quality. The payload combines four oblique and one NADIR camera to capture complex

geometries with ease. This ensures remarkable detail even on slanted surfaces and makes Oblique D2M destined for 3D mesh generation of high-rise areas, industrial environments, archaeological sites and alike.

Oblique D2M Technical Specifications





GSD
Cameras
Sensor Resolution
Total Resolution
Trigger Interval
Sensor Type
Sensor Format
Sensor Size
Focal Length
Payload Weight RTF
Flight Time
Storage

1.50 cm @100m AGL
1 x NADIR, 4 x oblique
26 MP (6252 x 4168 px)
130 MP
≥ 0.8 seconds
CMOS
APS-C
23.5 x 15.6 mm
25 mm NADIR, 35 mm (oblique)
833.7 g
60 minutes
High speed data storage device (640 GB)

Sample Data



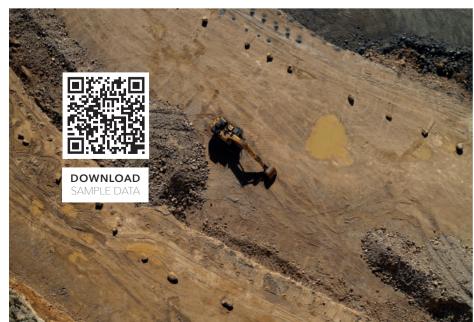
FLIGHT ALTITUDE 120 m | 393 ft AGL



FLIGHT SPEED 17 m/s



GSD 1.8 cm/px







Qube 240 LiDAR Scanner

The Qube 240 is a geomatics grade LiDAR scanner providing essential information by generating an accurate point cloud of the processed environment through 240,000 distance measurements per second.



The Qube 240 produces images with an unmatched level of accuracy that is achieved with the help of the integrated Applanix APX15 INS. It generates precise, three-dimensional information using the shape of the earth and its surface characteristics. This information can then be used in appli-

cations, such as calculating stock volumes in mines, inspecting power lines, gathering elevation models of ground under dense vegetation, or for calculating biomass feedstocks. LiDAR technology can also be used for mapping infrastructure and for surveying large areas, even at night.

Qube 240 Technical Specifications



Wavelength Maximum Altitude Suggested Altitude Precision Accuracy Scanner Field of View Shots per Second Point Density @100 m Multi-echo Technology Payload Weight RTF Flight Time

905 nm 140 m AGL 100 m AGL 1.8 - 2.5 cm* < 3 cm** 70° 240,000 50 -100 points/m² up to 3 echoes per shot 948.7 g 60 minutes

- Class 1 (Eye Safe)
- Applanix POSPacTM UAV, GNSS and INS software for PPK (license for one year included)
- YellowScan Cloudstation Software to generate survey grade LAS files (license must be bought separately)
- * Precision, also called reproducibility or repeatability, accounts for the variation in successive measurements taken on the same target. Depends on altitude AGL **Accuracy is the degree of conformity of a measured position to its actual (true) value.

Sample Data



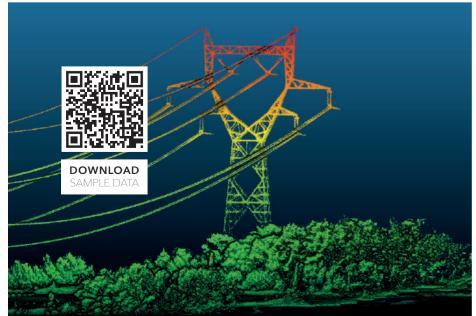
FLIGHT ALTITUDE 80 m | 262 ft AGL

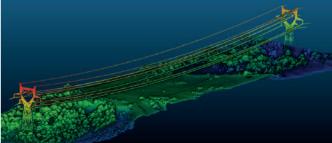


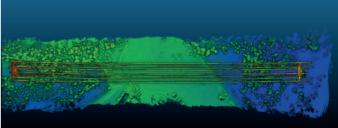
FLIGHT SPEED 18 m/s



GSD 118 pts/sqm









MicaSense RedEdge-P

RGB and Multispectral Data

The RedEdge-P is the ultimate solution for collecting high-resolution RGB and multispectral data for agriculture, forestry, environmental monitoring and more.



The RedEdge-P is the premium multispectral camera for monitoring general plant health as well as plant counting, early weed detection and other tasks requiring machine learning.

RedEdge-P **Technical Specifications**

Sensor Resolution Wavelength

RGB Color Output GSD

Trigger Interval Interfaces

Field of View Storage Payload Weight RTF Dimensions **External Power**

*with appropriate post-processing

Power Input

1456 x 1088 (1.6MP per MS band), 2464 x 2056 (5.1MP panchromatic band) Blue (475 nm center, 32 nm bandwidth), Green (560 nm center, 27 nm bandwidth), Red (668 nm center, 14 nm bandwidth), RedEdge (717 nm center, 12 nm bandwidth), near-IR (842 nm center, 57 nm bandwidth)

5.1 MP (global shutter, aligned with all bands)*

7.7 cm per pixel (per MS band) at 120m (393 ft) AGL 3.98 cm per pixel (panchromatic band) at 120m (393 ft) AGL

0.8 seconds

3 configurable GPIO / select from trigger input, PPS input, PPS output, and top of frame signals. Host virtual button. USB 2.0 port for WiFi. Serial. 10/100/1000

50° HFOV x 38° VFOV (MS), 44° HFOV x 38° VFOV (PAN)

CFexpress Card

503.7 g

8.9 x 7.0 x 6.7 cm (3.5in x 2.8in x 2.6in)

7.0 V - 25.2 V

5.5/7.0/10W (standby, average, peak)

Sample Data



FLIGHT ALTITUDE 120 m | 393 ft AGL



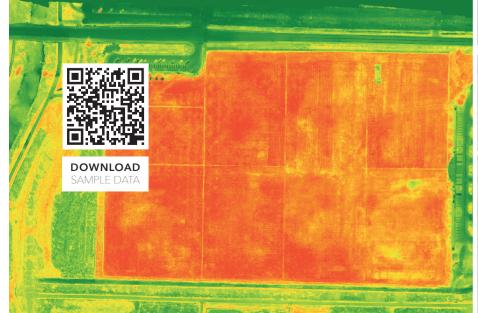
FLIGHT SPEED 17 m/s



GSD 4.01 cm/px

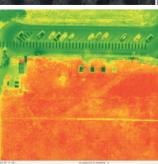














MicaSense Altum-PT

RGB, Multispectral and Thermal Camera

The Altum-PT is the best-in-class multispectral camera with synchronized thermal images ideal for production agriculture, phenotyping, and environmental monitoring.



The MicaSense Altum-PT captures synchronized multispectral, thermal, and panchromatic data for pixel-aligned outputs at high resolutions for advanced vegetation research

applications. This includes plant health monitoring from early emergence on, with thermal data for water stress and irrigation system monitoring.

Altum-PT **Technical Specifications**

Sensor Resolution 2064 x 1544 (3.2MP per MS band), 4112 x 3008 (12MP per PAN band)

320 × 256 thermal infrared

Blue (475 nm center, 32 nm bandwidth), Green (560 nm center, 27 nm bandwidth), Spectral Bands

Red (668 nm center, 14 nm bandwidth),

Red Edge (717 nm center, 12 nm bandwidth), NIR 842 nm center, 57 nm bandwidth)

12.4 MP (global shutter, aligned with all bands)

FLIR LWIR thermal infrared 7.5-13.5um radiometrically calibrated

5.28 cm per pixel at 120 m (per multispectral band)

33.5 cm per pixel at 120 m 2.49 cm per pixel at 120 m

1.0 seconds

3 configurable GPI /select from trigger input, PPS input, PPS output, and top of frame signals. Host virtual button. USB 2.0 port for WiFi. Serial. 10/100/1000 Ethernet.

50° HFOV x 38° VFOV (multispectral) 46° HFOV x 35° VFOV (panchromatic)

48° x 39° (thermal) **CFexpress Card**

733.7 g 60 min

11.0 x 8.0 x 6.9 cm (4.3 in x 3.1 in x 2.7 in)

7.0 V - 25.2 V

5.5/7.0/10W (standby, average, peak)

Sample Data



RGB Color Output

Multispectral GSD

Panchromatic GSD

Payload Weight RTF

Thermal GSD

Trigger Interval

Thermal

Interfaces

Storage

Flight Time

Dimensions

Power Input

External Power

Field of View

FLIGHT ALTITUDE 60 m | 197 ft AGL



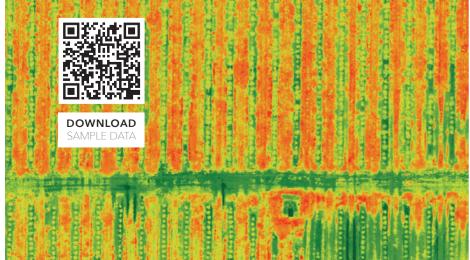
FLIGHT SPEED 17 m/s

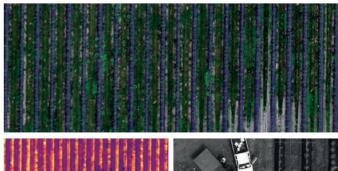


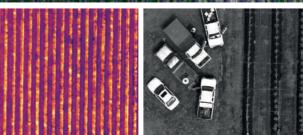
1.27 cm/px











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