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MicaSense series

ALTUM-PT™

Sensor

BY

KAMBILL SYSTEMS PVT. LTD.

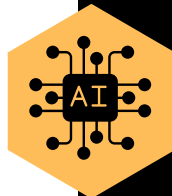




ABOUT THE PRODUCT

Seamlessly integrates a 12 MP high-resolution panchromatic sensor, a new thermal sensor that provides twice the ground resolution of the previous Altum, and five discrete spectral bands. Its high-resolution makes it the perfect sensor for machine learning plant-level applications such as early-stage crop counting. It also features a global shutter for distortion-free results, open APIs, and a new storage device allowing up to 2 captures/second.

FEATURES



POWERFUL AI CAPABILITIES

Thanks to the panchromatic band, Altum-PT enables high-resolution RGB, multispectral, and thermal imagery for machine learning applications such as plant counting and advanced vegetation research applications.

APPLICATIONS



Infrastructure Inspection



Precision Agriculture



Environmental Monitoring



THERMAL SENSOR

The built-in 320 x 256 FLIR Boson® thermal sensor enables accurate thermal maps at a GSD of 17 cm / 6.7 in from 60 m / 200 ft flight altitude.



OPEN INTERFACE FOR EASY INTEGRATION

The Altum-PT SkyPort ensures perfect compatibility with DJI's M300 RTK drones. The camera also features an open API interface for easy integration with many popular drone and software platforms.

CONTACT US



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Specifications

SENSOR SPECIFICATIONS

Weight

577 g / 20.35 oz. Altum-PT + Wi-Fi + CFexpress card + DLS2 & cables

Dimensions

11.0 x 8.0 x 6.9 cm / 4.3 in x 3.1 in x 2.7 in

External Power

7.0 V - 25.2 V

Power Input

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

Sensor Resolution

2064 x 1544 (3.2MP per MS band), 4112 x 3008 (12MP per PAN band), 320 × 256 thermal infrared

Spectral Bands

Blue (475nm ±32nm), Green (560nm ±27nm), Red (668nm ±14nm), Red Edge (717nm ±12nm), NIR (842nm ±57nm)

RGB Color Output

12.4 MP (global shutter, aligned with all bands)

Capture Rate

Up to 2 capture per second raw DNG - Capture rates vary based on write speed of USB storage device and user configuration settings

Thermal

FLIR LWIR thermal infrared 7.5-13.5um radiometrically calibrated

Multispec GSD (per multispec band)

5.28 cm per pixel at 120 m / 2 in per pixel at 400 ft

Thermal GSD

33.5 cm per pixel at 120 m / 13 in per pixel at 400 ft

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Panchro & Pansharpened GSD

2.49 cm per pixel at 120 m / 0.98 in per pixel at 400 ft

Interfaces

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 Ethernet. CFexpress for storage

Field of View

50° HFOV x 38° VFOV (multispectral), 46° HFOV x 35° VFOV (panchromatic),
48o x 39o (thermal)

Storage

CFexpress card

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