EAGLENXT

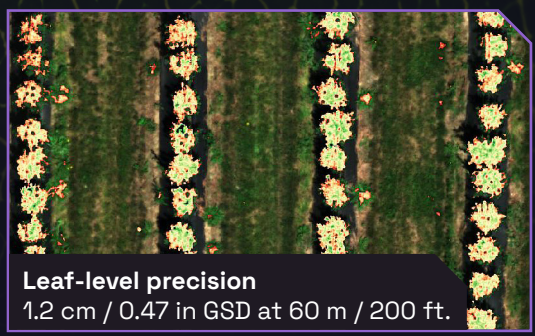


ALTUM-PT™ *Pro*

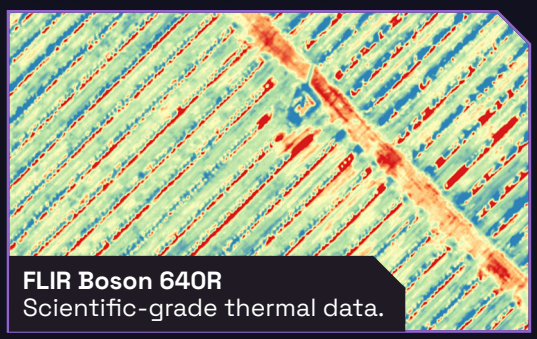
Science-grade thermal, multispectral, and RGB insights

Altum-PT Pro combines next-generation multispectral, high-resolution RGB, and advanced radiometric thermal imaging, all in a single, drone-flexible sensor.

Built for advanced agricultural, environmental, industrial, and government applications, the sensor delivers calibrated, distortion-free, pixel-aligned data.



Leaf-level precision
1.2 cm / 0.47 in GSD at 60 m / 200 ft.



FLIR Boson 640R
Scientific-grade thermal data.

Advanced thermal performance

The new built-in FLIR Boson 640R delivers sharp thermal maps (8.75 cm / 3.44 in GSD at 60 m / 200 ft), providing greater accuracy for the most demanding use cases in irrigation management, plant stress, environmental monitoring and asset inspection, including solar power panels and power lines.

Key Features

- **Built-in FLIR Boson 640R thermal sensor** to capture micro-changes in water stress, irrigation leaks, and canopy temperature.
- **Five dedicated multispectral bands plus a panchromatic sensor** to deliver high-resolution results down to 1.2 cm / 0.47 in GSD at 60 m / 200 ft.
- **Rapid capture rate of up to 2 captures per second** without comprising image quality.
- **Global shutter** for distortion-free images.
- **Flexible integration** across a wide range of multirotor and fixed-wing UAV platforms.

Applications

- Precision irrigation management and canopy temperature
- Pre-symptomatic disease and stress detection
- Advanced yield and biomass estimation
- Full-season micro-change tracking
- Soil moisture and leaf-level analysis
- Automated plant counting
- Infrastructure inspection
- Environmental monitoring

DLS2 + CRP2 included

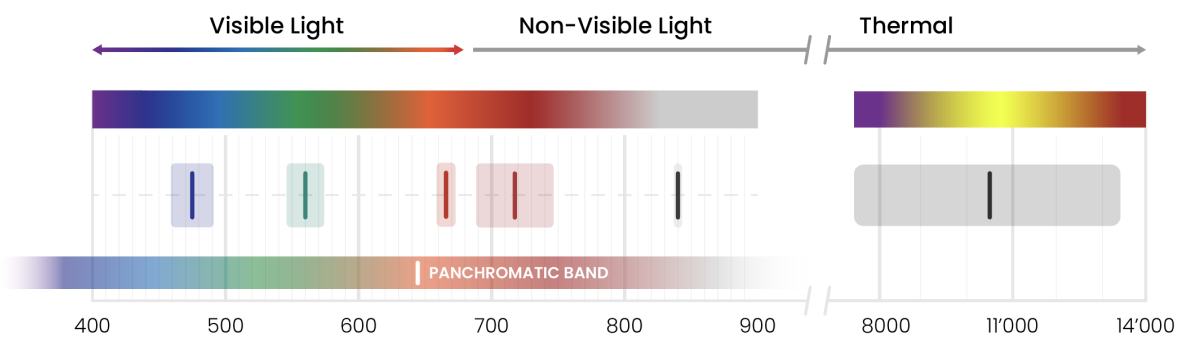


Specifications

WEIGHT	530 g (18.7 oz.) Altum-PT pro + DLS2
DIMENSIONS	11.0 x 8.0 x 6.9 cm (4.3 in x 3.1 in x 2.7 in)
RGB OUTPUT*	12.4 MP (global shutter, aligned with all bands)
SENSOR RESOLUTION	2048 x 1536 (3.2 MP per MS band) 4096 x 3000 (12 MP panchromatic band) 640 × 512 thermal infrared
GROUND SAMPLE DISTANCE	5.28 cm / 2.08 in per pixel (per MS band) 2.46 cm / 0.97 in per pixel (panchromatic band) 17.5 cm / 6.88 in per pixel (thermal)
FIELD OF VIEW	48° HFOV x 36.8° VFOV (multispectral) 46° HFOV x 35° VFOV (pan) 50° HFOV x 39.2° VFOV (thermal)
EXTERNAL POWER	7.0 V - 25.2 V
POWER INPUT	5.5/11/13W (standby, average, peak)
IP RATING	IP4X
CAPTURE RATE	2 captures per second raw DNG
STORAGE	CFexpress card
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. CF Express for storage
SPECTRAL BANDS	Blue (475 nm center, 32 nm bandwidth), Green (560 nm center, 27 nm bandwidth), Red (668 nm center, 14 nm bandwidth), Red Edge (717 nm center, 12 nm bandwidth), Near-IR (842 nm center, 57 nm bandwidth)
THERMAL	FLIR LWIR thermal infrared (10.5 µm center, 6 µm bandwidth) radiometrically calibrated

*With appropriate post-processing
**Note: Specifications are subject to change without notice

5 Spectral Bands, Panchromatic & Thermal



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