EAGLENXT



MicaSense Series

RedEdge-P™ *Triple*

Understanding the environment beyond RGB and thermal sensing with superspectral imaging

Superspectral technology supports a wide range of defense applications.

Target detection and identification

- Identify targets using spectral signatures
- Reveal objects not visible with RGB and thermal sensing

Applications:
- Hidden vehicles and equipment
- Differentiation between real and decoy targets

Camouflage and concealment assessment

- Detect objects hidden using natural or artificial camouflage
- Identify multispectral inconsistencies, including artificial vegetation and decoys

Applications:
- Military reconnaissance
- Counter-deception operations

Material-related indicators

- Identify specific substances, including fuel spills, petroleum contamination, and chemical residues

Applications:
- Monitoring military logistics and fuel usage
- Detection of hazardous material-related activity

Surveillance and reconnaissance indicators

- Detect indirect signs of activity, such as disturbed soil, tire tracks, vegetation stress
- Get pattern analysis of repeated movement routes and temporary encampments

Applications:
- Detection of presence and activity indicators

Change detection over time

- Compare repeated flights to detect subtle changes such as new structures or terrain modification
- Detect recurring movement patterns

Applications:
- Border surveillance
- Early-warning intelligence
- Infrastructure monitoring
- Detection of underground activity



MicaSense® AN EAGLENXT COMPANY

AUTHORIZED DISTRIBUTOR
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HALO ROBOTICS

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Specifications

Weight	1080 gr / 38 oz (including mounting hardware, DLS2, and cable)
Dimensions	21.9 cm x 11.4 cm x 9 cm / 8.6 in × 4.5 in × 3.5 in
RGB output	5.1 MP* (global shutter, aligned with all bands)
Sensor resolution	1456 x 1088 (1.6 MP per multispectral band) 2464 x 2056 (5.1 MP panchromatic band)
Ground sample distance	7.7 cm / 3 in per pixel (per multispectral band) at 120 m / ~400 ft AGL 3.98 cm / 1.5 in per pixel (panchromatic band) at 120 m / ~400 ft AGL
Field of view	50° HFOV x 38° VFOV (multispectral), 44° HFOV x 38° VFOV (panchromatic)
Capture rate	Up to 3 images per second raw DNG
Storage	CFexpress card
Interfaces	Three 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.

External power	7.0 V - 25.2 V
Power input	11/14.0/20W (standby, average, peak)
Heat	Ambient without airflow: 0-40 °C / 0-104 °F Ambient with airflow >0.5 meter per second / >1.1 mph: 0-50 °C / 0-122 °F
IP rating	IP4X
Spectral bands	
RedEdge-P	Blue 475(32), Green 560(27), Red 668(14), Red Edge 717(12), Near-IR 842(57)
RedEdge-P green	Cyan 502(18), Green 550(12), Yellow 570(14), Red 678(14), Near-IR 754(10)
RedEdge-P blue	Ocean blue 444(28), Green 531(14), Red 650(16), Red Edge 705(10), Red Edge 740(18)

Note: Specifications are subject to change without notice.

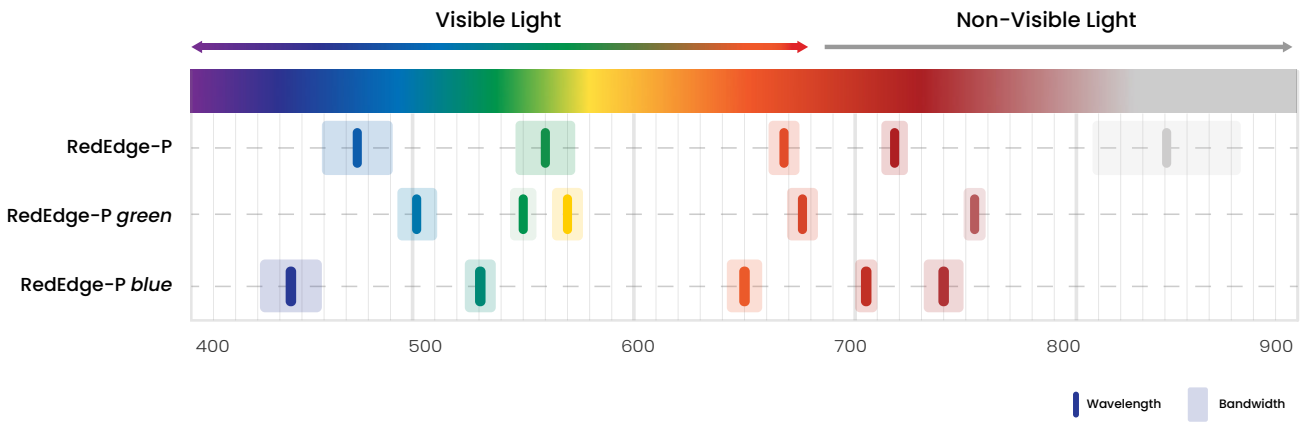
*With appropriate post-processing.

Compatible drones



DJI M400

Superspectral bands



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