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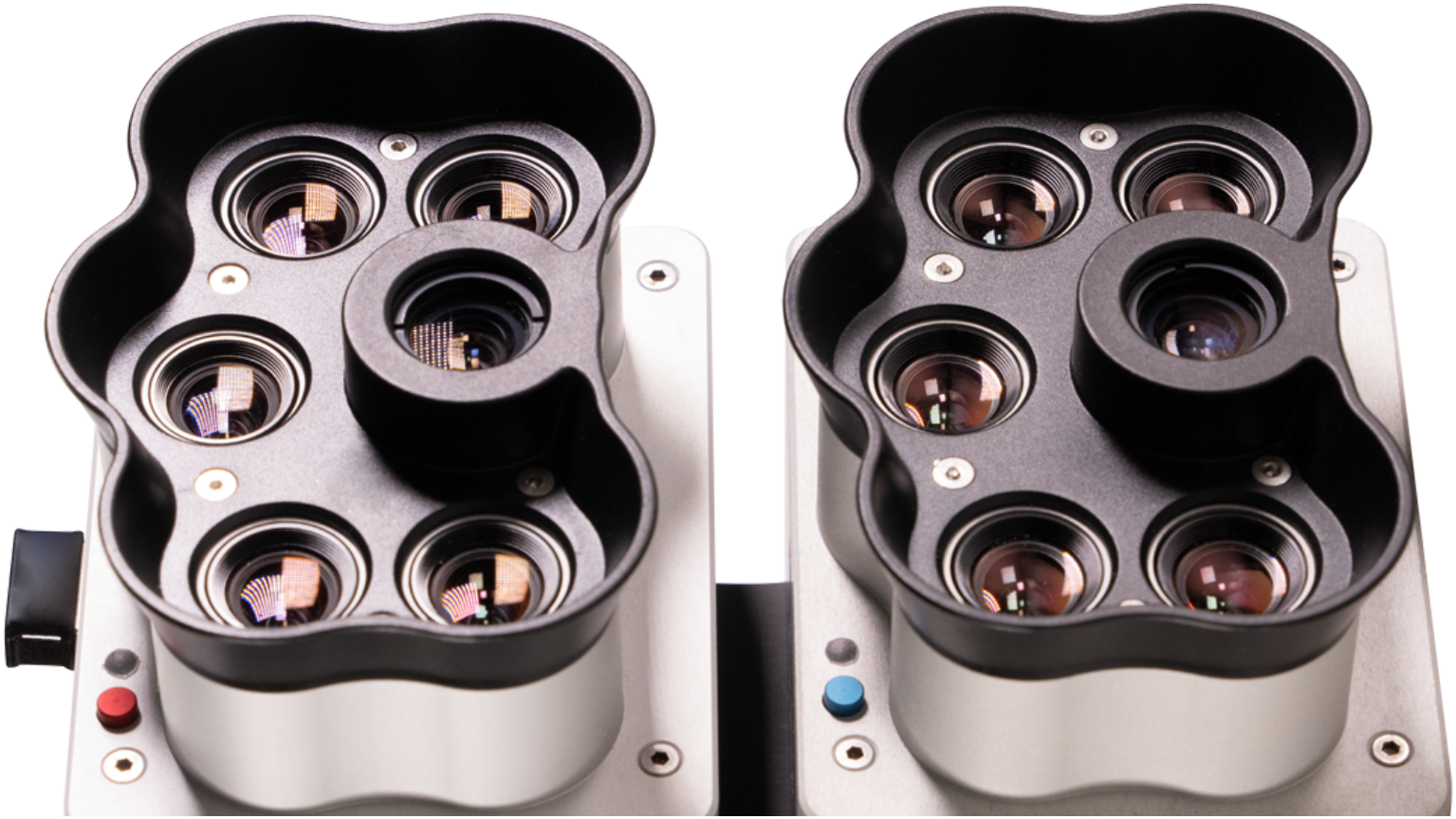
MicaSense series

RedEdge-P™ *dual*

Sensor

BY

KAMBILL SYSTEMS PVT. LTD.



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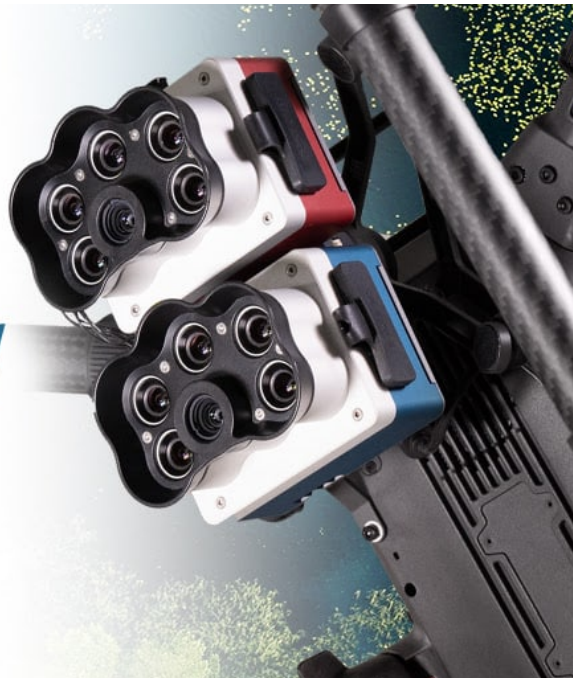
MicaSense Series

RedEdge-P™ dual



ABOUT THE PRODUCT

High-resolution multispectral and RGB composite drone sensor for plants classification, weeds identification, environmental research and conservation, and vegetation analysis of water bodies.
The dual solution features the RedEdge-P and the new RedEdge-P blue cameras.

APPLICATIONS

- Infrastructure Inspection
- Precision Agriculture
- Environmental Monitoring

FEATURES

POWERFUL AI CAPABILITIES

The RedEdge-P dual's panchromatic band enables high-resolution RGB and multispectral imagery for machine learning applications, such as early-stage crop counting.

PANCHROMATIC BAND

The RedEdge-P dual enables a GSD of 2 cm per pixel / 0.8 in per pixel when flying at 60 m / 200 ft. Sharper imagery allows you to spot smaller problems sooner and make reliable decisions.

CONDUCT TIME-SERIES ANALYSIS

The RedEdge-P dual multispectral kit comes with a Calibrated Reflectance Panel (CRP) and a Downwelling Light Sensor (DLS). These radiometric calibration tools account for different weather and light conditions, providing data that enables reliable time series analysis and comparability of outputs over time.

CONTACT US

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Specifications

SENSOR SPECIFICATIONS

Weight

745 g / 26.2 oz (two sensors, mounting hardware, DLS, and cable)

Dimensions

13.2 cm x 8.8 cm x 9.67 cm / 5.1 in x 3.1 in x 3.5 in

External Power

7.0 V - 25.2 V

Power Input

11/14.0/20W (standby, average, peak)

Sensor Resolution

1456 x 1088 (1.6 MP per multispectral band), 2464 x 2056 (5.1 MP panchromatic band)

Spectral Bands

Coastal blue 444(28)*, Blue 475(32), Green 531(14)*, Green 560(27), Red 650(16)*, Red 668(14), Red Edge 705(10)*, Red Edge 717(12), Near-IR 740(18)*, Near-IR 842(57)

RGB Color Output

5.1 MP* (global shutter, aligned with all bands) *with appropriate post-processing

Capture Rate

Up to 3 captures per second raw DNG - Capture rates vary based on write speed of USB storage device

Multispec GSD (per multispec band)

7.7 cm / 3 in per pixel at 120 m / ~400 ft AGL

Panchro & Pansharpened GSD

3.98 cm / 1.5 in per pixel at 120 m / ~400 ft AGL

Get in touch:
Sales@kambillsystems.com

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.

Field of View

50° HFOV x 38° VFOV (multispectral), 44° HFOV x 38° VFOV (panchromatic)

Storage

CFexpress card

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