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AgEagle

MicaSense series

RedEdge-P™

Sensor

BY

KAMBILL SYSTEMS PVT. LTD.

Pan-sharpened resolution of
- 2cm/pixel at 60m
- 4cm/pixel at 120m

CFexpress storage card for capture rate of **2-3 images per second**

Easy data transfer - swappable

Electrical and mechanical interfaces compatible with existing RedEdge installations with addition of new wire harness
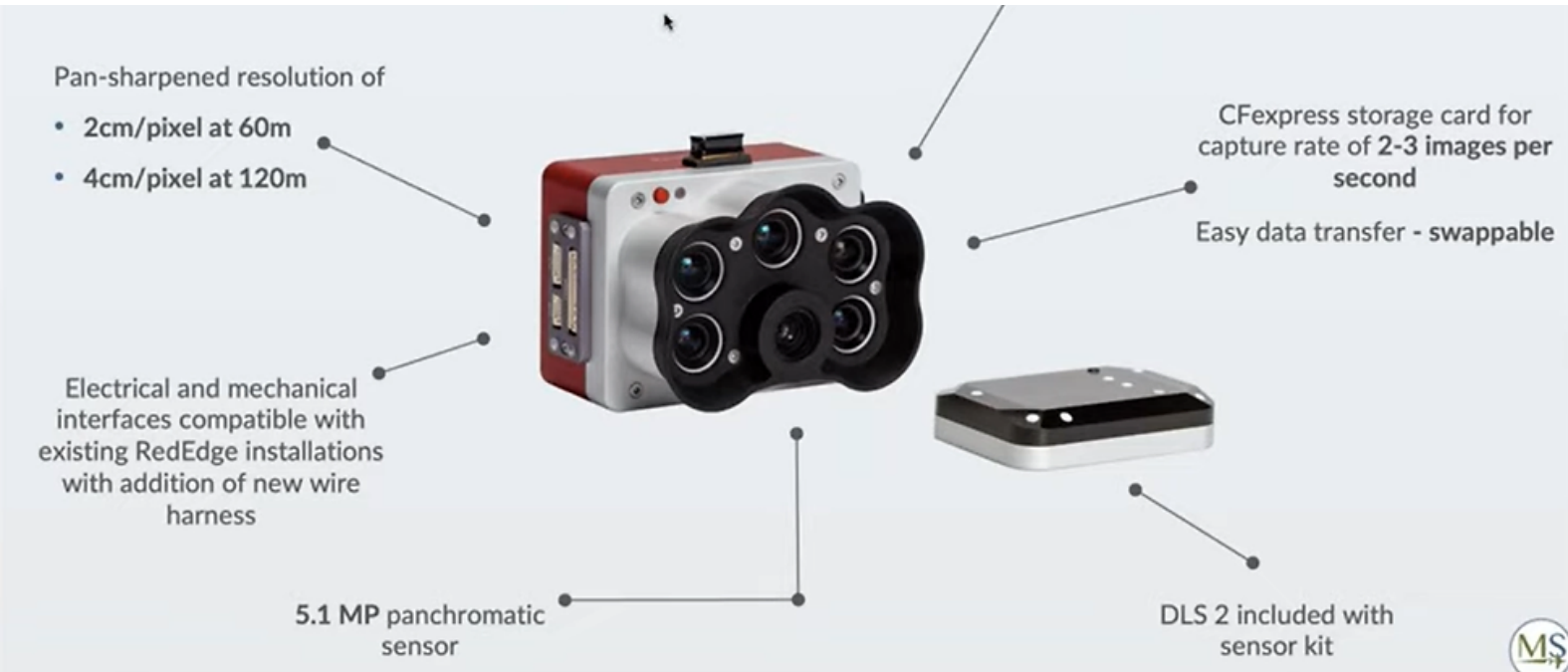
5.1 MP panchromatic sensor

DLS 2 included with sensor kit

ABOUT THE PRODUCT

RedEdge-P features a high-resolution panchromatic band for pan-sharpened output resolutions of 2 cm / 0.8 in at 60 m / 200 ft.

Its five narrow multispectral bands with scientific-grade filters make it the perfect camera for calculating multiple vegetation indices and composites.

APPLICATIONS

- Infrastructure Inspection

- Precision Agriculture

- Environmental Monitoring

FEATURES

POWERFUL AI CAPABILITIES

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

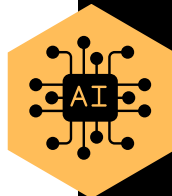### HIGH RESOLUTION PANCHROMATIC SENSOR

With a high-resolution panchromatic imager, RedEdge-P enables higher-resolution RGB and multispectral outputs – 2 cm per pixel / 0.78 in per pixel resolution when flying at 60 m / 200 ft . With sharper imagery, you can spot smaller problems or features sooner and make more reliable management decisions across a variety of use cases.

FIVE MULTISPECTRAL 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)

CONTACT US

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Specifications

SENSOR SPECIFICATIONS

Weight

363 g / 12.8 oz. RedEdge-P + Wi-Fi + CFexpress card + DLS2 & cables

Dimensions

8.9 cm x 7.0 cm x 6.7 cm / 3.5 in x 2.8 in x 2.6 in

External Power

7.0 V - 25.2 V

Power Input

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

Sensor Resolution

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

Spectral Bands

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

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 per pixel at 120m / 3 in per pixel at 400 ft

Panchro & Pansharpened GSD

3.98 cm per pixel at 120m / 1.56 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. CF Express for storage

Field of View

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

Storage

CFexpress card