MicaSense
AN EAGLENXT COMPANY

RedEdge·MX™



Professional multispectral imaging. More accessible than ever.

The RedEdge-MX is a rugged, professional multispectral sensor designed for field-scale precision agriculture and environmental monitoring.

The modular payload captures five spectral bands in a single flight, delivering reliable data for analysis and actionable insights.

DSL2 + CRP2 included



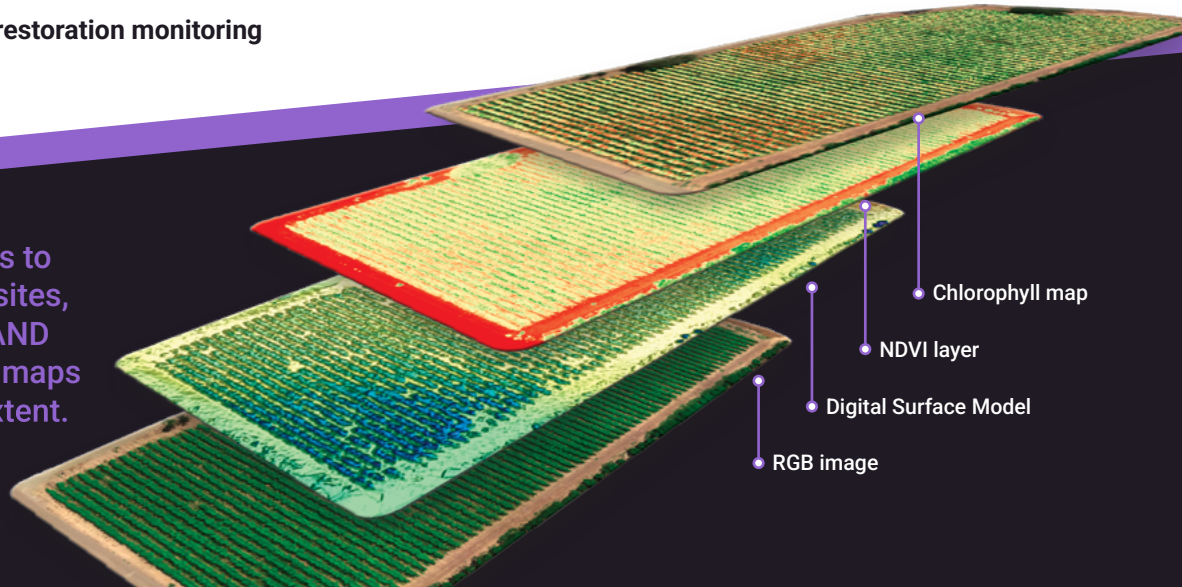
Key features

- **Five narrow multispectral bands captured during flight.**
- **Global shutter for distortion-free images.**
- **1 capture per second, 12-bit RAW output for post-processing flexibility.**
- **Data outputs at 8 cm GSD per pixel (3.14 in) per band at 120 m (400 ft) AGL.**
- **Rugged design with no moving parts.**
- **Compatible with PIX4Dfields, Agisoft Metashape, and OpenDroneMap.**

Applications

- **Phenotyping**
- **Crop scouting**
- **Fertilizer and irrigation planning**
- **Widespread disease detection**
- **Plant stress detection at zone level**
- **Seasonal trend analysis**
- **Revegetation and land restoration monitoring**
- **Leak scouting**

One flight is all it takes to generate RGB composites, NDVI, NDRE, GNDVI, AND and chlorophyll index maps across the full field extent.



RedEdge·MX™

Professional calibration for time series analysis

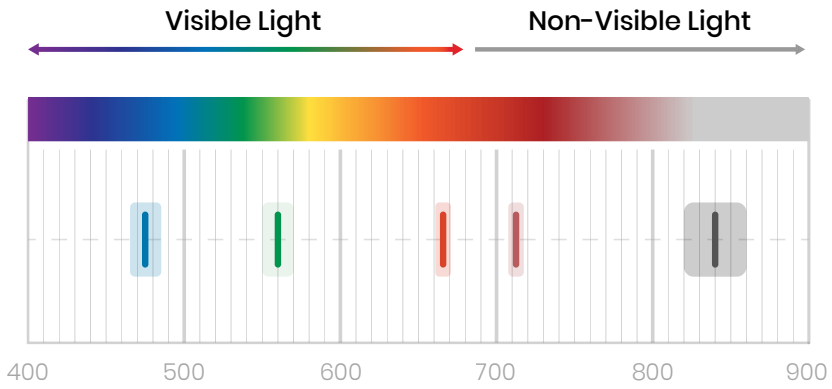
With the DLS2 light sensor and CRP2 calibrated reflectance panel, you can maintain data consistency across varying times, locations, and lighting conditions, supporting time-series studies and compliance with peer-reviewed publication standards.

Proven performance

Manufactured in the USA and validated through more than 10 years of field use, the RedEdge-MX is trusted by customers in over 70 countries.

Multispectral data capture, made simple

The RedEdge-MX captures reflected light across five discrete spectral bands (Blue, Green, Red, Red Edge, and Near-Infrared), including wavelengths beyond the visible spectrum. By analyzing how crops reflect this light, it provides field-level insights into crop health and vigor.



Specifications

Weight	231.9 g (8.18 oz) RedEdge-MX (includes DLS2 and cables)
Dimensions	8.7 cm x 5.9 cm x 4.54 cm (3.4 in x 2.3 in x 1.8 in)
External power	4.2 V - 15.8 V 4.0/8.0W (nominal, peak)
Spectral bands	**Blue** (475 nm center, 20 nm bandwidth), **Green** (560 nm center, 20 nm bandwidth), **Red** (668 nm center, 10 nm bandwidth), **RedEdge** (717 nm center, 10 nm bandwidth), **Near-IR** (840 nm center, 40 nm bandwidth)
RGB output	Global shutter, aligned with all bands
Ground sampling distance	8 cm (3.14 in) per pixel (per band) at 120 m (~400 ft) AGL
Capture rate	1 per second (all bands), 12-bit RAW
Field of view	47.2° HFOV (multispectral)
Storage	SD card

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