

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



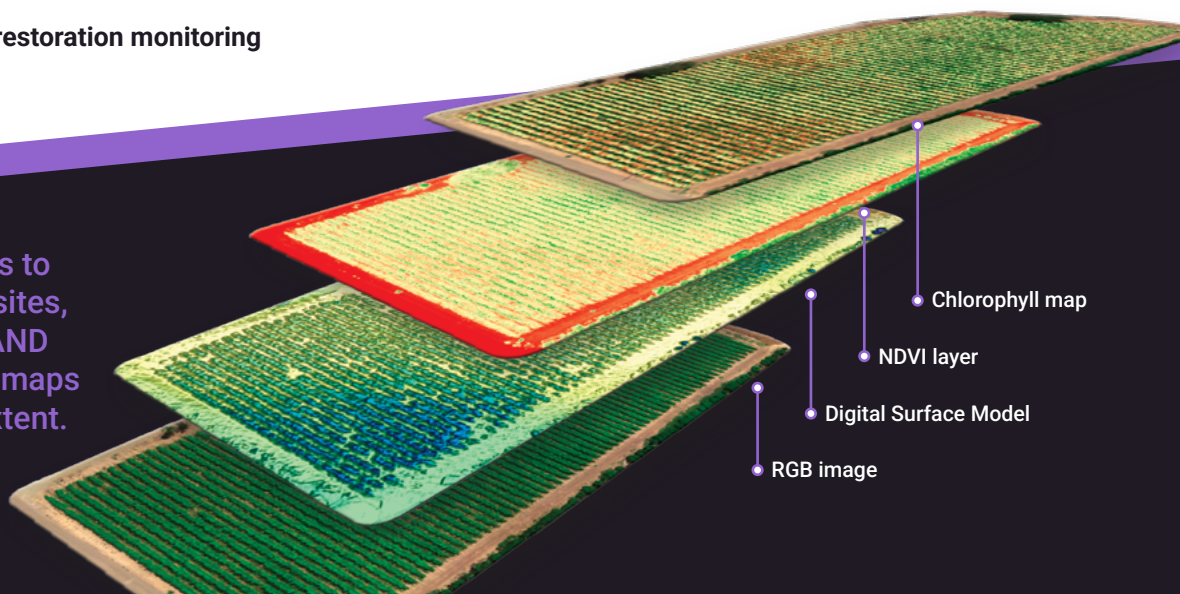
Applications

- 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

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.

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

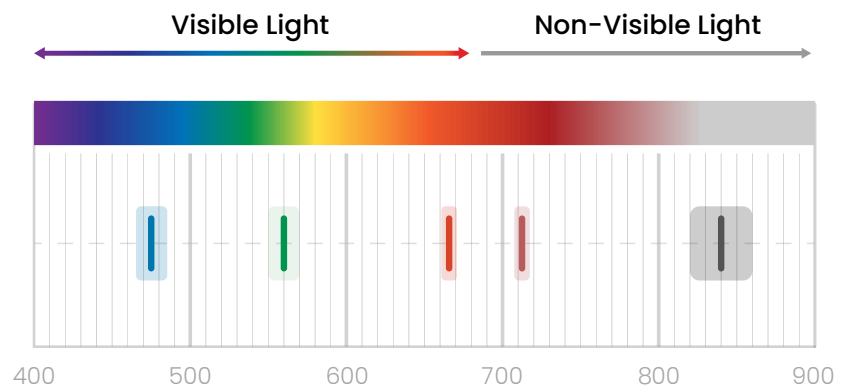
With the DLS2 light sensor and CRP2 calibrated reflectance panel, you can maintain data consistency across varying times, locations, and lighting conditions, supporting time-series studies and compliance with peer-reviewed publication standards.

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

