GOUAV
INNOVATIVE FLYING SOLUTIONS

SPECIFICATIONS

WEIGHT	508.8 g (Two sensors, Dual Cam Mount, DLS2, and cable)
DIMENSIONS	8.7cm x 12.3cm x 7.6cm (3.4in x 4.8in x 3.0in)
EXTERNAL POWER	4.2 V DC - 15.8 V DC 8.0/16.0W (nominal, peak) Provided through Dual Camera Mount
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), red edge 740(18)*, NIR 842(57
RGB OUTPUT	3.6 MP (global shutter, aligned with all bands)
SENSOR RESOLUTION	1280 x 960 (1.2 MP per EO band)
GROUND SAMPLE DISTANCE	8 cm per pixel (per band) at 120 m (~400 ft) AGL
CAPTURE RATE	1 capture per second (all bands), 12-bit RAW
INTERFACES	Serial, 10/100/1000 ethernet, removable Wi-Fi, external trigger, GPS, SDHC
FIELD OF VIEW	47.2° HFOV
TRIGGERING OPTIONS	Timer mode, overlap mode, external trigger mode (PWM, GPIO, serial, and Ethernet options), manual capture mode
HEAT	0-40C ambient (no airflow); 0-50C ambient with airflow >0.5m/s
KIT CONTENTS	• RedEdge-MX sensor • RedEdge-MX Blue sensor • Lens cover for both sensors • Calibrated Reflectance Panel • DLS 2 light sensor with integrated GPS • Cables • Mounting screws • Mounting Plate with Quick Connector • Hard carrying case

* Denote RedEdge-MX Blue bands

Turning imagery into actionable information.

REDEDGE-MX DUAL CAMERA IMAGING SYSTEM

MicaSense®
SENSORS

RedEdge-MX Dual Camera Imaging System: Double the spectral resolution with half the hassle.

A synchronized 10-band solution for advanced remote sensing and agricultural research. Featuring the new RedEdge-MX Blue, this solution captures the standard bands of RedEdge-MX, plus a new group of filters to enable more analysis like shallow water environments monitoring or detailed analysis on chlorophyll efficiency.

Key Features

- Synchronized capture of all 10 bands for pixel aligned imagery
- Standard 12 bit TIFF file outputs with embedded metadata for full access to raw data
- Combined Downwelling Light Sensor and GPS for streamlined integration, accurate ambient light calibration. Only one DLS required.
- Radiometrically calibrated spectral imagers for precise, repeatable measurements.
- Global shutters on all 10 lenses for distortion-free results on every platform.
- Comes standard with fixed bracket and quick-mount connector for easy integration with DJI drones

Visit us at micasense.com/dual-camera-system to learn more.

MicaSense, Inc. | www.micasense.com | Made in the USA

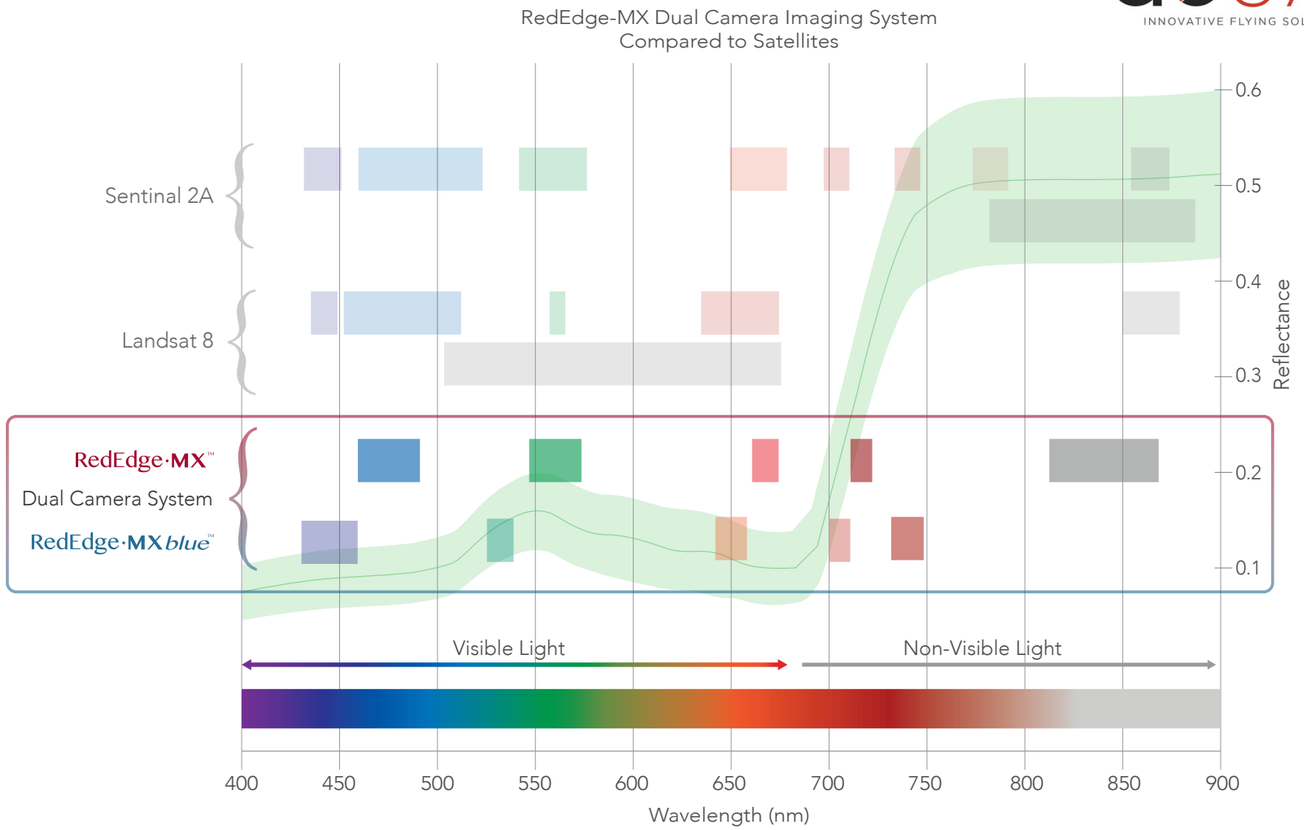
RedEdge·MX*blue*™

The MicaSense RedEdge-MX Blue Sensor

The performance you rely on from RedEdge-MX, with a new coastal blue band, a new green band, and three new bands in the red to red-edge region of the spectrum. Five new bands that enable direct comparison between satellite and drone data.

Key Benefits

- Data is easily processed using Pix4D, Agisoft and other MicaSense data partners
- Double the bands for double the analytical capabilities
- Monitor shallow water environments with the new coastal blue aerosol band
- Perform detailed analysis on chlorophyll efficiency or the red edge slope with new red, green and two new red edge bands



Double the bands, double the spectral resolution, unlimited analytical capabilities.

Producing aligned 10-band data is much more valuable than simply providing two separate 5-band maps. The RedEdge-MX Dual Camera Imaging System synchronizes capture of all 10 bands allowing the creation of multiple indices and new analytics. During processing, bands from either camera may be used interchangeably.

Works with the drone and software you already have

Flying with two cameras is as easy as flying with one.

This solution is compatible with a wide range of aircraft, from large fixed wings to small multirotors, and comes standard with an integration kit for DJI drones. Because the two cameras are both versions of RedEdge-MX, flight planning and data processing can be done with existing industry-standard tools.

No purchasing new equipment or upgrading your software setup - this system is plug and play.