

MicaSense RedEdge-MX & RedEdge BLUE



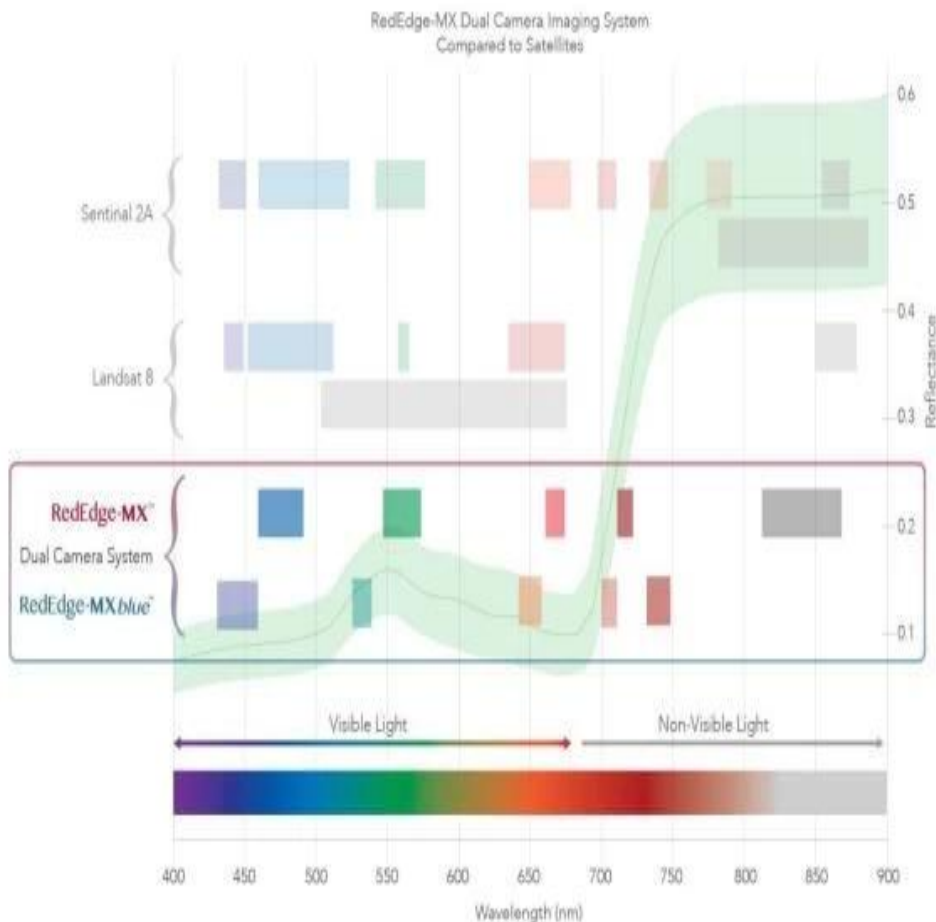
Dual cameras.Ten bands.Infinite index.

Product presentation□

New blue REDEEDGE-MX

	<p>The performance of RedEdge-MX mainly depends on a new coastal blue band, a new green band, and three new bands in the red to red edge region of the spectrum. Combined with the bands in the RedEdge-MX, the 10 bands in the two-load camera system allow for a direct comparison of the satellite and drone data.</p> <p>Already have a RedEdge-M or RedEdge-MX? Buying the new RedEdge-MX Blu-ray suite gives you twice the spectral clarity.</p>	
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Data comparison of satellite and drone images

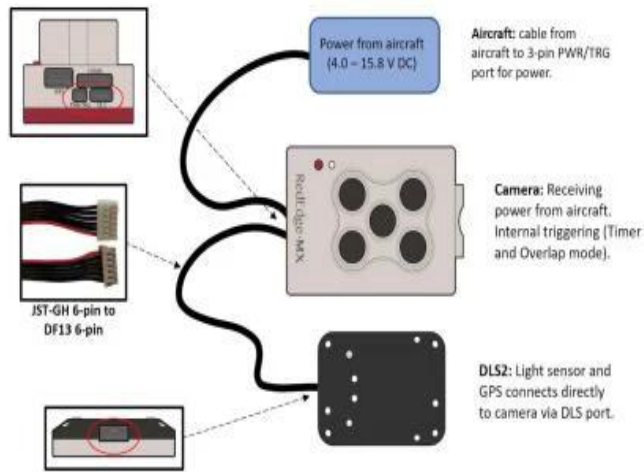


Product characteristics

- Pixel-aligned images were synchronously captured across all 10 frequency bands
- Standard 12-bit TIFF file output with embedded metadata, and the raw data is fully accessible
- Simplified integrated downlink light sensor and GPS combination for accurate ambient light calibration. Only one DLS is required
- Radiation-calibrated spectroscopic imager, used to perform accurate, reproducible measurements.
- All 10 lenses are equipped with a global shutter for distortion-free effects on each platform.
- The standard device includes a fixed bracket and a quick mount connector that can easily integrate with the DJI drone.

Product superiority

- Images were directly compared with landsat and sentinel satellite data.
- Data can be easily processed using Pix4D, Agisoft, and other MicaSense data partners.
- The band was doubled and the analysis power was doubled.
- Shallow water environment can be monitored using new coastal blue / aerosol spectral bands.



Connection between Dual Camera System Mount, RedEdge-MX and RedEdge-MX Blue

Application

The Micasense Ten-spectral Camera for Crop Analysis RedEdge-MX & RedEdge-MX BLUE, Developed and designed a RedEdge-MX Blue multi-spectral camera based on RedEdge-MX, The RedEdge-MX-Dual dual-camera imaging system consists of two multispectral cameras, the RedEdge-MX and the RedEdge-MX Blue, Total of 10 channels, Corresponding to the multiple bands of the imaging sensors carried by the Landsat8 and Sentinel2A satellites, One flight for more spectral information, Can be used in agriculture, forestry, urban planning, water quality monitoring and other fields. In particular, RedEdge-MX Blue increases the Coastal blue band, which can be applied to coastal zone monitoring. The two cameras share a solar luminometer (DLS2) to obtain light changes in real time. The overall weight of the system is 508.8g, and it can be equipped with DJI M100 / M200 / Wu 2 / M / 600 / M600 Pro. The obtained data can still be processed P software Pix4D, Agisoft, etc.

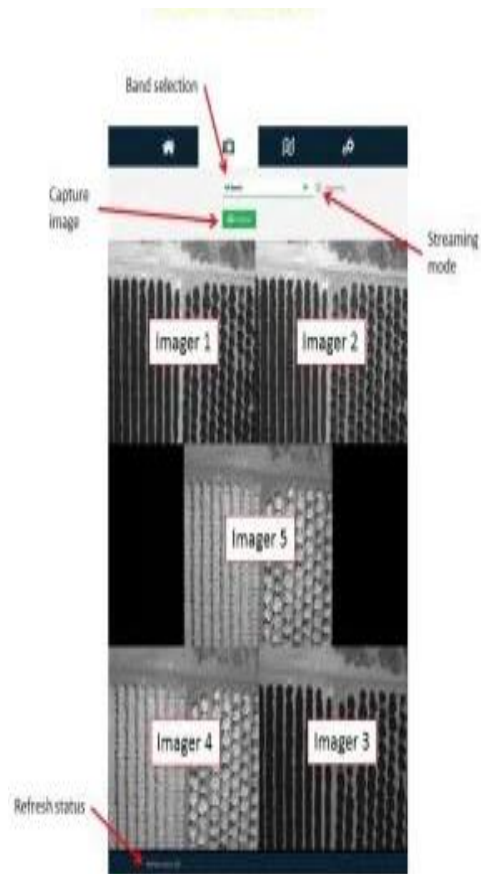


Figure 1: Live View Page



Figure 2: Home Page

Technical parameters

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	<ul style="list-style-type: none">• 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