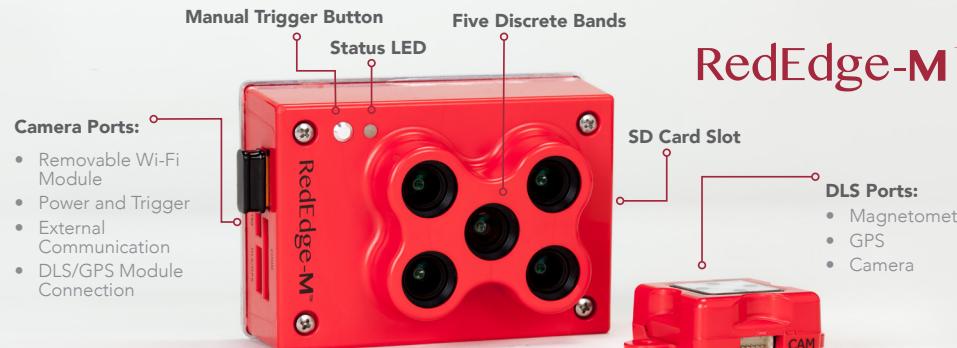
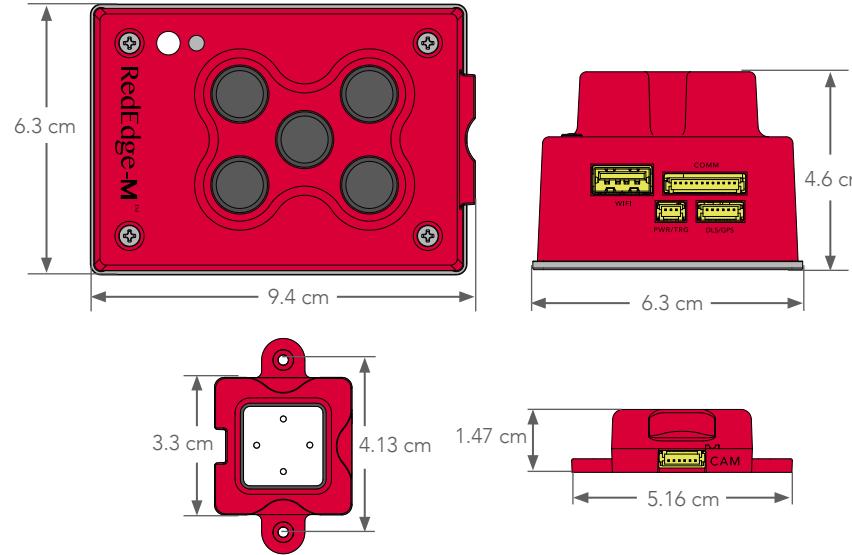


Form Factor



RedEdge™

THE REDEDGE-M SENSOR



Turning imagery into actionable information.
2018 MicaSense, Inc.

A rugged, built-to-last, professional multispectral sensor for agricultural drone mapping. Captures five spectral bands, and is one of the most flexible solutions on the market.



MicaSense®
SENSORS

RedEdge-M: More compact, more flexible—and even more powerful

Key Features

- Five narrow spectral bands captured during flight
- High image resolution; 8 cm/pixel at 400 ft (120 m)
- Single SD card stores all images with geotags
- Standalone operation, with optional external trigger and data from host aircraft
- Intuitive web-based interface accessed from any Wi-Fi-capable device
- Embedded mounting points for easier integration
- Global shutter imagers - no gimbal required
- Camera kit includes DLS and Calibration Panel

Key Benefits

- Compact size allows for integration with a wide variety of drones
- Capture plant health images and RGB (color) images in one flight
- Fast capture rate enables faster flight speeds and lower flight altitudes
- Calibrated for precise, repeatable measurements
- Expanded voltage range to handle more integrations without extra power conversion
- Rugged design with no moving parts
- Full access to raw data; outputs can be generated using wide variety of processing and analysis platforms

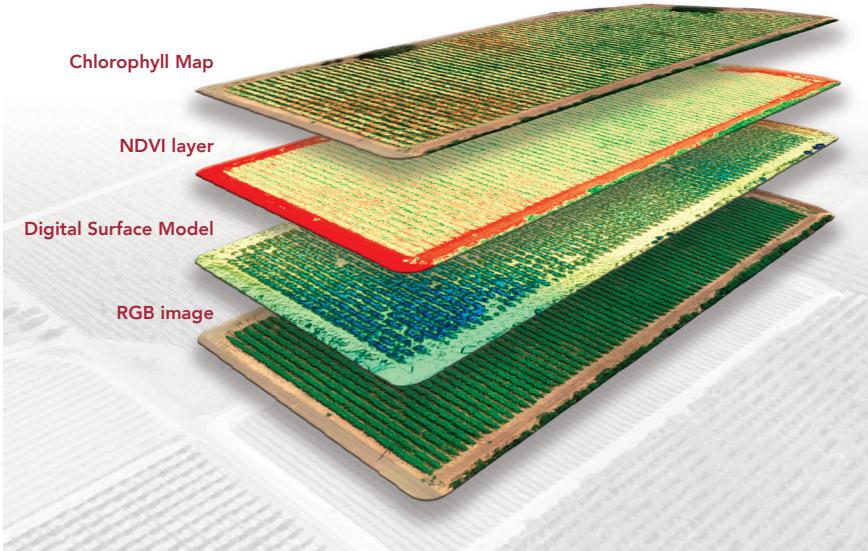
Visit us at micasense.com/rededge-m to learn more.
MicaSense, Inc. | www.micasense.com | Made in the USA

RedEdge-M™

► The right tool

With its compact size, RedEdge-M works well with both multirotor and fixed-wing platforms. One flight is all it takes to generate RGB color, NDVI, and advanced vegetation index layers. And, because it's calibrated, you can get an accurate picture of change over time in every output.

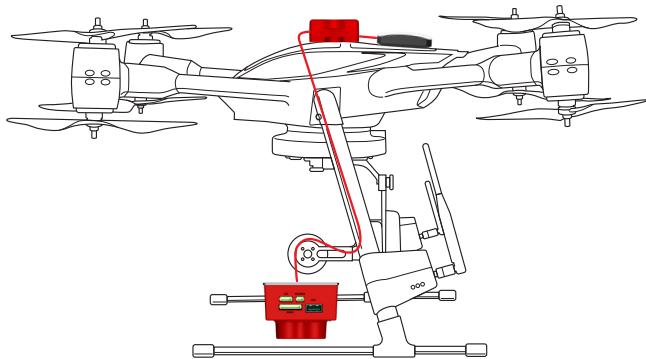
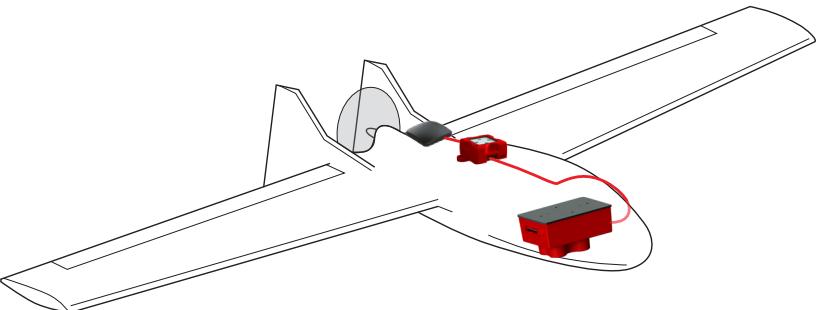
From one flight, gain insight from RGB imagery, vegetation indices, and digital surface models with RedEdge-M.



► The right price

We know that cost matters. That's why—along with its industry-leading five spectral bands, flexible integration options, rugged design, and reputation for reliability—the RedEdge-M comes with a price that's highly competitive.

Just because it's high tech, calibrated, and scientific, doesn't mean it's complicated.



Integration kits for popular drones available.

SPECIFICATIONS

WEIGHT	180 grams (6.3 oz.) (Includes DLS and cable)
DIMENSIONS	9.4 cm x 6.3 cm x 4.6 cm (3.7 in x 2.5 in x 1.8 in)
EXTERNAL POWER	4.2 V DC - 15.6 V DC 4 W nominal, 8 W peak
SPECTRAL BANDS	Blue, green, red, red edge, near-IR (global shutter, narrowband)
RGB OUTPUT	Global shutter, aligned with all bands
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-M Sensor• Downwelling Light Sensor• Calibrated Reflectance Panel• GPS• Associated cables• Hard case for carrying