

SPECIFICATIONS

WEIGHT	231.9 g (8.18 oz.) (Includes DLS 2 and cable)
DIMENSIONS	8.7cm x 5.9cm x 4.54cm (3.4in x 2.3in x 1.8in)
EXTERNAL POWER	4.2 V DC - 15.8 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	• RedEdge-MX sensor • Lens cover • Calibrated Reflectance Panel • New DLS 2 light sensor with integrated GPS • RedEdge-MX and DLS 2 cables • Mounting screws • Hard carrying case

THE REDEGE-MX SENSOR



The sensor that doesn't compromise.



RedEdge-MX: Compact, flexible, and powerful.

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.

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.
- Web-based configuration page accessed from any Wi-Fi-capable device.
- Embedded mounting points for easier integration.
- Global shutter imagers - doesn't require a gimbal.

RedEdge·MX™

► The right tool

With its compact size, RedEdge-MX 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 is calibrated, you can get an accurate picture of change over time in every output.

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

Integration kits for popular drones available.



- Five Spectral Bands
- SD Card Storage
- Manual Trigger Button
- Removable Wi-Fi
- DLS 2 With Embedded GPS



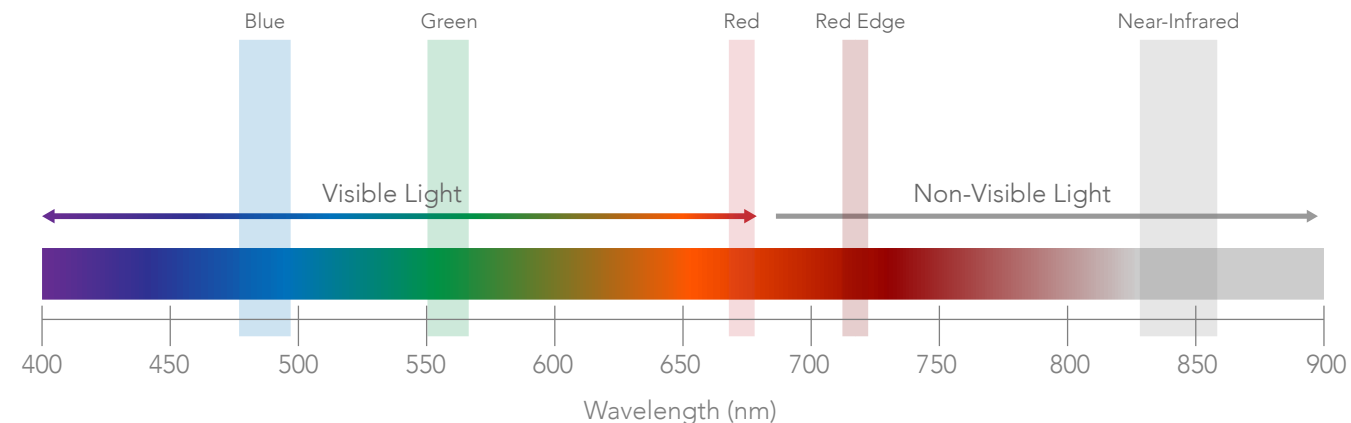
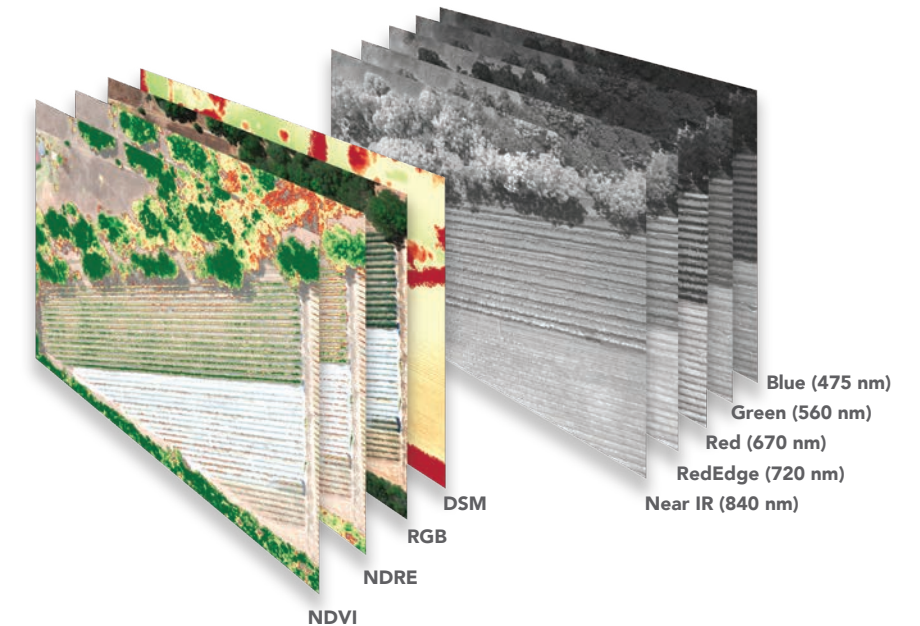
The industry standard

With optimized GSD (resolution); the new DLS 2 light sensor; the ability to generate plant health indexes and RGB (color) images from one flight; and platform-agnostic data and integration, RedEdge-MX is one of the most flexible solutions on the market. An advanced sensor means that you can count on getting high quality, accurate data when you need it.

Key Benefits

- New aluminum body for better durability and performance in the heat.
- Compact size allows for integration with a wide variety of drones.
- Calibrated for precise, repeatable measurements.
- Wide 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 a wide variety of processing and analysis platforms.

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



The spectral resolution of the RedEdge-MX Multispectral Sensor

The MicaSense RedEdge-MX measures the light reflected in five different bands (red, green, blue, red edge, and near-infrared). More bands equal more sensitivity; which increases the potential for picking up variations in crop conditions.