MICASESNSE RED EDGE MX

5 Band multiespectral sensor: R, G, B, RE. Nir


Get to know RedEdge-MX

RedEdge·MX™

- New metal case for extreme durability
- New DLS 2 for enhanced light calibration
- Captures five narrow spectral bands
- Generates plant health indexes and RGB (color) images from one flight
- Designed for easy and flexible integration
- Calibrated for precise, repeatable measurements
- Operates in temperatures up to 60℃ or 140℉

WEIGHT	231.9 gr (8,18 oz.) Includes DLS 2 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 DC – 15.8 V DC
ESPECTRAL BANDS	Blue, green , red, red edge, near IR (global shutter, narrow band)
WAVELENGHT	Blue (475 nm center, 20 nm bandwidth), Green (560 nm center, 20 nm bandwitdth), Red (668 nm center, 10 nm bandwidth) Red Edge (717 nm center, 10 nm bandwidth), Near IR (840 nm center, 40 nm bandwidth)
RGB COLOR OUTPUT	Global shutter, aligned with all bands
GROUND SAMPLE DISTANCE (GSD)	8 cm per pixel (por banda) at 120 nm (~ 400 ft) AGL
CAPTURE RATE	1 Captura per second (all bands), 12- bit RAW
INTERFACES	Serial 10/100/1000 Ethernet, Wi-Fi removable, external trigger, GPS, SDHC
FIELD OF VIEW	47,2° HFOV
TRIGGERING OPTIONS	Trimmer mode, overlap mode, external trigger mode (PWM, GPIO, serial and Ethernet options), manual capture mode.

At MicaSense, we believe in delivering more than pretty pictures.

We believe in providing scientific solutions that address real problems.
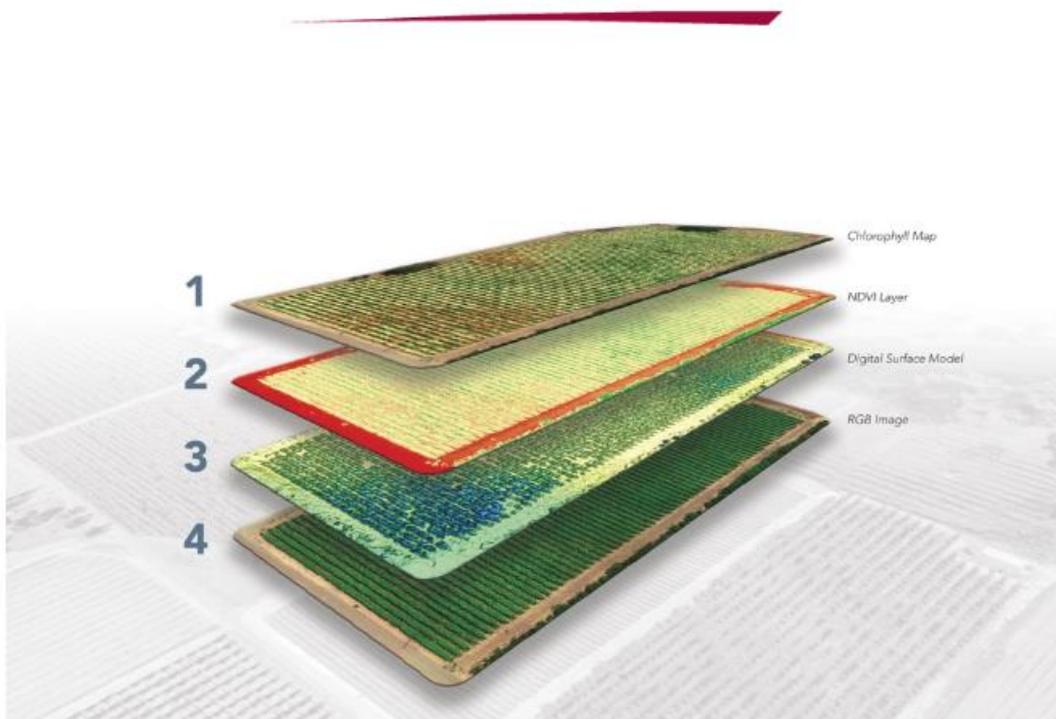
1 Chlorophyll Map: The red edge spectral band is the star here, working in conjunction with the other bands to provide a more accurate measure of not just plant vigor but plant health.

2 NDVI Layer: This commonly known index compares the reflectance of the red band with that of the near-infrared band. However, this index alone provides limited information.

3 Digital Surface Model: A DSM is an astonishingly advantageous tool in any agronomist's arsenal, primarily because of its use in evaluating surface properties and water flow.

4 RGB Image: RedEdge-MX features global shutters for distortion-free images, including narrowband red, green, and blue bands for RGB color images that when processed are aligned to all visible and non-visible bands and vegetation indices.