

# Product Description

## Michael Sense Camera Rededge-P

### ► New standards for data quality and reproducibility

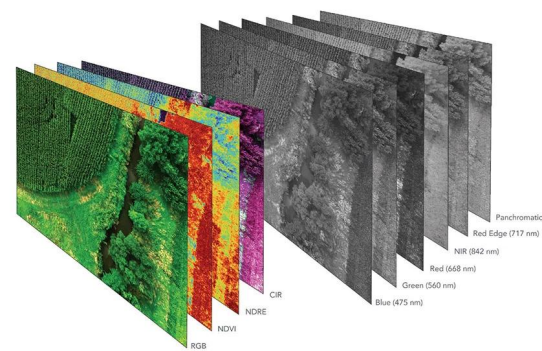
RedEdge-P uses dedicated optics and industry-leading industrial imaging. It combines sensors with science-grade narrowband filters. Furthermore, it is High quality through strict factory calibration process. A robust, calibrated tool that delivers reliable, pan-sharp, multispectral output.

### ► application

- Count the number of plants.
- Phenotypic analysis
- Map plant health status
- Fertilizer management
- Identifying illness
- Species identification and weed detection.
- Advanced crop research
- High resolution 3D point group
- Identifying illness

Seasonal Canopy Analysis with Higher Resolution

RedEdge-P is reliable, robust, high quality, powerful with high resolution panchromatic bands that provide pan-sharp output resolution of 2cm (at 60m) twice the industry's terrestrial resolution. It is a multispectral sensor. The RedEdge-MX offers comprehensive seasonal capabilities, allowing pixel-adjusted output at previously unattainable resolutions, while maintaining the efficiency and reliability of traditional RedEdges. Tree canopy analysis of plants at all stages of growth.



Fly lower. It flies faster. See more.

RedEdge-P uses professional grade CFexpress memory card standards, Removable storage in a customizable size ranging from 64 GB to 2 terabytes. All image bands can be captured continuously for more than 24 hours per second. For jobs that require multiple flights, there is no need to connect cables to the camera for each flight. Fly or bring your computer to the site. RedEdge-P Removable Storage The next flight began within seconds.



Main features

Increased storage

CFexpress's new professional removable storage standard allows for more than two captures per second, allowing instant turnaround time between flights with just a replacement card.

HIGH-RES RGB and multispectral synchronous capture

Captures up to 6 bands simultaneously and enables multiple high-resolution outputs, such as RGB, crop vitality index (NDVI, NDRE, etc.), and high-resolution panchromatic.

Double the spatial resolution of previous RedEdge

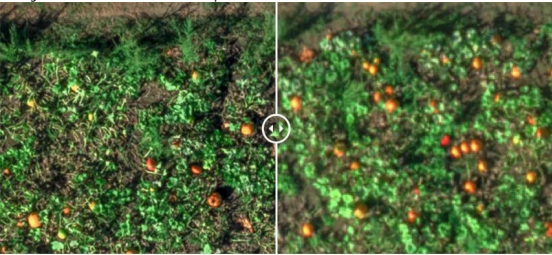
Equipped with a high-resolution panchromatic imager, the RedEdge-P allows for higher resolution RGB and multispectral output - the resolution is 2 cm when flying at 60m. Discover small issues and features more quickly and make more reliable administrative decisions across a variety of use cases.

Working with what you have (drones, processing, flight planning)

This solution is compatible with a wide range of aircraft, from large fixed wing aircraft to small multicopters. Flight planning and data processing can be performed using industry standard tools.

Sturdy design

IP4X grade dust and water resistant performance



# Product Specifications

Weight	350g (12.3oz) (RedEdge-P DLS 2)
size	8.9 x 7.0 x 6.7cm (3.5" x 2.8" x 2.6")
External power supply	7.0V to 25.2V
Power input	5.5/7.0/10W (Standby, Average, Peak)
Sensor resolution	1456 x 1088 (1.6MP per MS band) 2464 x 2056 (5.1MP Punk Band)
Spectrum Band	Blue, green, red, red edge, near infrared (Global shutter, narrow band)
Wavelength (nm)	Blue (center 475 nm, bandwidth 32 nm), Green (center 560 nm, bandwidth 27 nm), Red (center 668 nm, bandwidth 14 nm); Red edge (center 717 nm, bandwidth 12 nm), Near-infrared (center 842nm, bandwidth 57nm)
RGB color output	5.1 MP (Global shutter, adjustable to all bands) *If appropriate post-processing is performed

Ground Sample Distance (GSD)	120m (approx. 400 ft) AGL 7.7 cm per pixel (per MS band) 120m (approx. 400 ft) AGL at 3.98 cm per pixel (Panchromatic band)
Capture rate	Up to 3 raw DNG captures per second
interface	Choose from three configurable GPIOs (trigger-in, PPS-in, PPS-out, and top-of-frame signals). Host virtual button. USB 2.0 port for WiFi. serial. 10/100/1000 Ethernet. CF Express for storage
Field of view	50° HFOV x 38° VFOV (MS) 44° HFOV x 38° VFOV (PAN)
Storage	CFexpress Card