

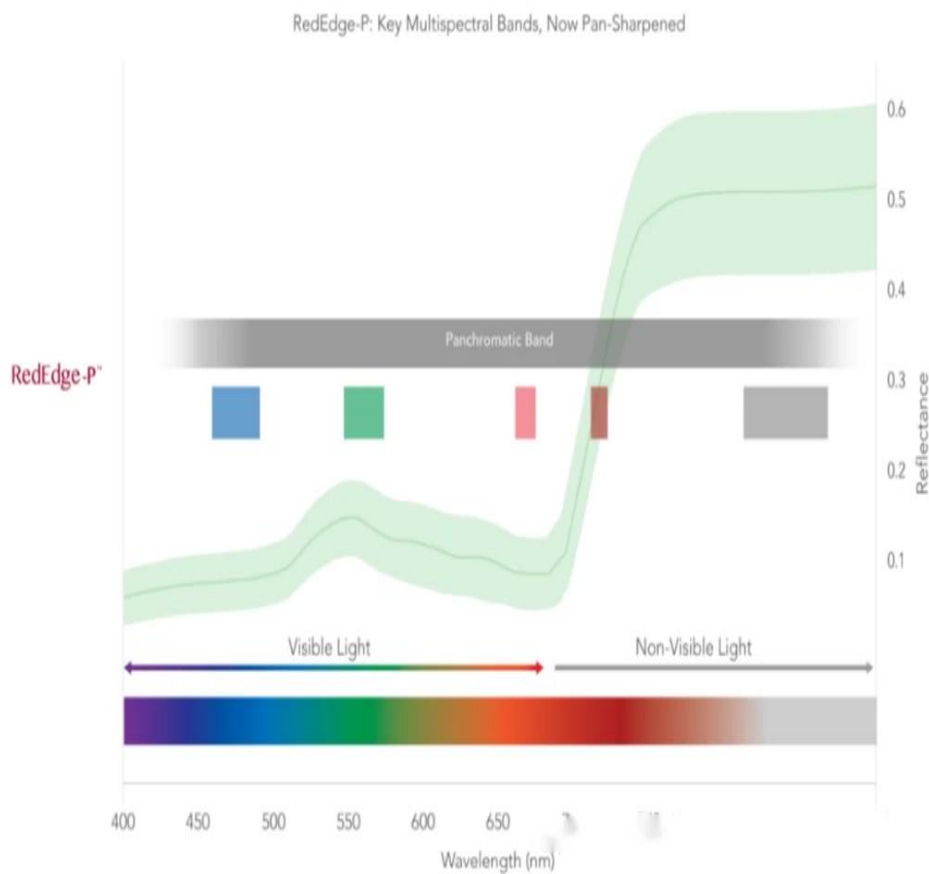
Micasense camera Red Edge-P

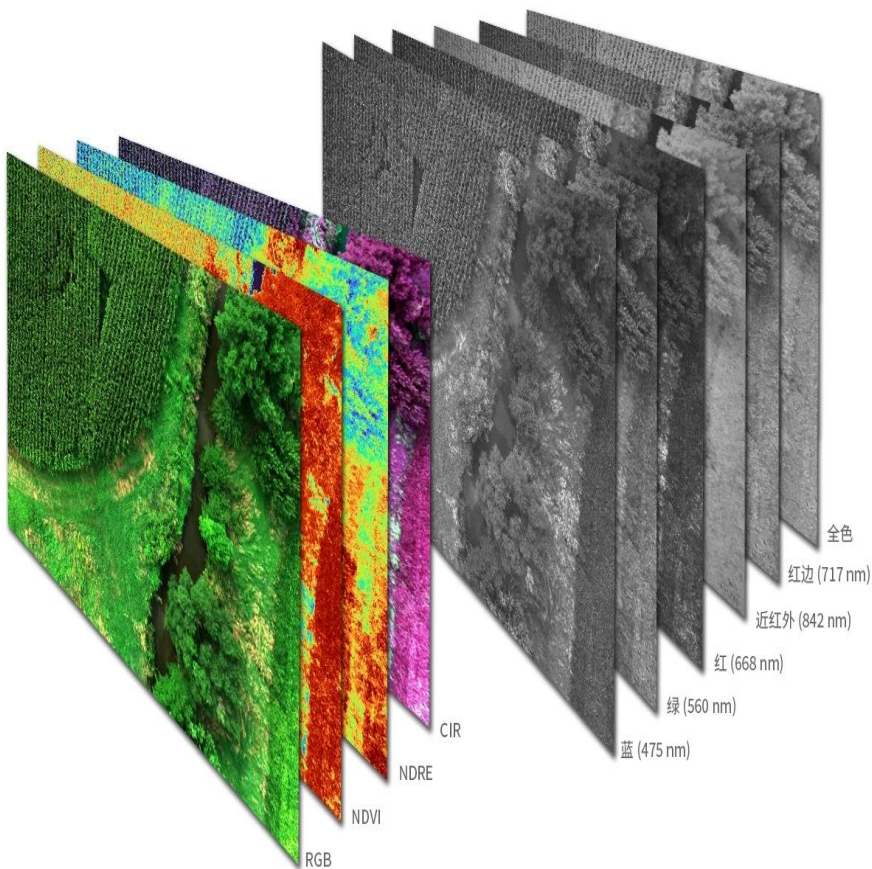


RedEdge-P: Capture data more quickly during the season

Single camera solution for tuned high resolution synchronous capture

Multispectral and RGB images with FOV and capture rates are optimized for efficient flights.





Main features:

High-resolution panchromatic band with 2cm (0.8 inch) Panchromatic output resolution at 60m

- 5 spectral bands for multiple vegetation indices and synthesis
- CFExpress's new professional removable storage standard allows for two or more captures per second, improving flight speeds and reducing the time required to map areas.
- Simply upgrade the connector and you have electrical and mechanical interfaces compatible with your existing RedEdge installation.

► Applications

- Plant counting
- Phenotyping
- Plant health mapping
- Fertilizer management
- Disease identification
- Species differentiation and weed detection
- Advanced crop scouting
- High-res 3D point clouds

Technical parameters:

WEIGHT	350 g (12.3 oz.) RedEdge-P + DLS 2
DIMENSIONS	8.9 x 7.0 x 6.7 cm (3.5in x 2.8in x 2.6in)
RGB OUTPUT*	5.1 MP (global shutter, aligned with all bands)
SENSOR RESOLUTION	1456 x 1088 (1.6MP per MS band) 2464 x 2056 (5.1MP panchromatic band)
GROUND SAMPLE DISTANCE	8 cm per pixel (per MS band) at 120m (~400 ft) AGL 4 cm per pixel (panchromatic band) at 120m (~400 ft) AGL
FIELD OF VIEW	50° HFOV x 38° VFOV (MS) 44° HFOV x 38° VFOV (PAN)
EXTERNAL POWER	7.0 V - 25.2 V
POWER INPUT	5.5/7.0/10W (standby, average, peak)
IP RATING	IP4X
CAPTURE RATE	Three captures per second raw DNG
STORAGE	CFexpress card
INTERFACES	Three configurable GPIO: select from trigger input, PPS input, PPS output, and top of frame signals. Host virtual button. USB 2.0 port for WiFi. Serial. 10/100/1000 Ethernet. CF Express for storage
SPECTRAL BANDS	Blue (475 nm center, 32 nm bandwidth), Green (560 nm center, 27 nm bandwidth), Red (668 nm center, 14 nm bandwidth), Red Edge (717 nm center, 12 nm bandwidth), Near-IR (842 nm center, 57 nm bandwidth)
KIT CONTENTS	<ul style="list-style-type: none">• RedEdge-P sensor• Lens cover• Calibrated reflectance panel• DLS 2 light sensor with integrated GPS• RedEdge-P and DLS 2 cables• Mounting screws• Hard carrying case• CFexpress card reader

*With appropriate post-processing

**Note: Specifications are subject to change without notice