






Sensor Comparison Table

RedEdge-MX, Altum and the RedEdge-MX Dual Camera Imaging System.

	 <p>RedEdge-MX™ by MicaSense®</p> <p>The industry standard professional multispectral sensor for agricultural drone mapping.</p>	 <p>RedEdge-MX™ by MicaSense®</p> <p>The industry standard professional multispectral sensor optimized for DJI Skyport.</p>	 <p>ALTUM™ by MicaSense®</p> <p>A revolutionary 3-in-1 solution for unparalleled sensing.</p>	 <p>ALTUM™ by MicaSense®</p> <p>A revolutionary 3-in-1 solution optimized for DJI Skyport.</p>	 <p>RedEdge-MX™ Dual Camera Imaging System by MicaSense®</p> <p>A synchronized 10-band solution for advanced remote sensing</p>
Weight	231.9 g (8.18 oz.) RedEdge-MX + DLS 2	294.4g (10.4 OZ.) Sensor + SkyPort adapter + DLS2	406.5 g (14.34 oz.) Altum + DLS2	468.9 g (16.5 oz.) Altum + SkyPort adapter + DLS2	508.8 g (18 oz.) Two sensors + Dual Cam Mount + DLS2 + Cable
Dimensions	8.7cm x 5.9cm x 4.54cm (3.4in x 2.3in x 1.8in)	8.7cm x 5.9cm x 4.54cm (3.4in x 2.3in x 1.8in)	8.2cm x 6.7cm x 6.45cm (3.2in x 2.6in x 2.5in)	8.2cm x 6.7cm x 6.45cm (3.2in x 2.6in x 2.5in)	8.7cm x 12.3cm x 7.6cm (3.4in x 4.8in x 3.0in)
External Power	4.2 V - 15.8 V	Provided by SkyPort adapter	4.9 V - 25.2 V	Provided by SkyPort adapter	4.2 V DC - 15.8 V DC Provided through Dual Camera Mount

Power Input	4.0/8.0W (nominal, peak)	Provided by SkyPort adapter	5.5/7.0/10W (standby, average, peak)	Provided by SkyPort adapter	8.0/16.0W (nominal, peak) Provided through Dual Camera Mount
Spectral Bands	Blue, green, red, red edge, near infrared (NIR)	Blue, green, red, red edge, near infrared (NIR)	EO: Blue, green, red, red edge, near-infrared (NIR) LWIR: thermal infrared 8-14um	EO: Blue, green, red, red edge, near-infrared (NIR) LWIR: thermal infrared 8-14um	Coastal blue 444(28)*, blue 475(32), green 531(14)*, green 560(27), red 650(16)*, red 668(14), red edge 705(10)*, red edge 717(12), red edge 740(18)*, NIR 842(57)
RGB Output	3.6 MP (global shutter, aligned with all bands)	3.6 MP (global shutter, aligned with all bands)	High-resolution, global shutter, aligned with all bands	High-resolution, global shutter, aligned with all bands	3.6 MP (global shutter, aligned with all bands)
Thermal	-	-	FLIR LWIR thermal infrared 8-14um radiometrically calibrated	FLIR LWIR thermal infrared 8-14um radiometrically calibrated	-
Sensor Resolution	1280 x 960 (1.2 MP per EO band)	1280 x 960 (1.2 MP per EO band)	2064 x 1544 (3.2 MP per EO band) 160 x 120 thermal infrared	2064 x 1544 (3.2 MP per EO band) 160 x 120 thermal infrared	1280 x 960 (1.2 MP per EO band)
Ground Sample distance (GSD)	8cm per pixel (per band) at 120m (~400 ft) AGL	8cm per pixel (per band) at 120m (~400 ft) AGL	5.2cm per pixel (per EO band) at 120m (~400 ft) AGL 81cm per pixel (thermal) at 120m	5.2cm per pixel (per EO band) at 120m (~400 ft) AGL 81cm per pixel (thermal) at 120m	8 cm per pixel (per band) at 120 m (~400 ft) AGL
Capture	1 capture per	1 capture per	1 capture per	1 capture per	1 capture per second (all

Rate	second (all bands), 12-bit RAW	second (all bands), 12-bit RAW	second (all bands), 12-bit RAW*	second (all bands), 12-bit RAW*	bands), 12-bit RAW
Interfaces	Serial, 10/100/1000 ethernet, removable Wi-Fi, external trigger, GPS, SDHC	Provided by SkyPort: Serial, 10/100/1000 BT Ethernet, External Trigger	Aircraft: Trigger input, top of frame out, 1 PPS out. 3.3V isolated IO 2x USB 3.0 SuperSpeed ports for WiFi or Ethernet and USB 3.0 Storage.	Provided by SkyPort adapter	Serial, 10/100/1000 ethernet, removable Wi-Fi, external trigger, GPS, SDHC
Field of View	47.2° HFOV (multispectral)	47.2° HFOV (multispectral)	48° x 37° (multispectral) 57° x 44° (thermal)	48° x 37° (multispectral) 57° x 44° (thermal)	47.2 HFOV
Storage	SD Card	SD Card	USB 3.0 compatible storage devices	USB 3.0 compatible storage devices	SD Card

*Capture rates vary based on write speed of USB storage device