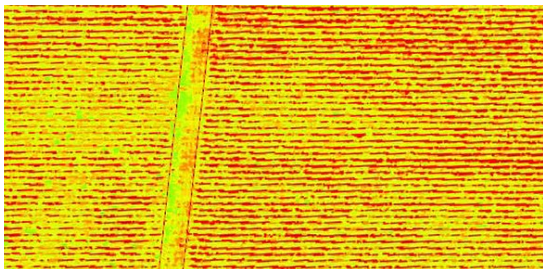
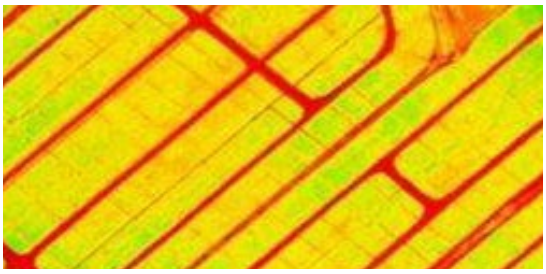
Multispectral Camera Specification Sheet

The best sensors for every agricultural application

Metric

	RedEdge-MX	Altum	
			
	A great solution for multispectral imagery. Generate plant health indices and RGB images in a single flight!	The revolutionary 3 in 1 camera empowers professional users to capture advanced thermal, multispectral and RGB imagery at the same time.	
			

Details

		Multispectral	Thermal
Sensor layout	5 individual sensors	5 individual sensors	FLIR LWIR
Spectral bands	RGB, Red Edge, Near-IR	RGB, Red Edge, Near-IR	8-14 µm
Sensor size	4.8 x 3.6 mm	7.16 x 5.35 mm	1.9 x 1.43 mm
Pixel pitch	3.75 µm	4.25 µm	
Pixel count	5 x 1.2 MP	5 x 3.2 MP	
Pixels array	1280 x 960 px	2064 x 1544 px	160 x 120 px
Shutter type	Global shutter	Global shutter	
Weight	232 g (incl. SD card)	406.5 g (incl. SD card)	
Focal length of lens	5.4 mm	8 mm	1.77 mm
Trigger frequency at full resolution	1 Hz	1 Hz	1 Hz

Results

Lowest achievable GSD	**6 cm/px**	**3.7 cm/px**	**57.3 cm/px**
Flight altitude	86 m	85 m	
Frontal overlap	70 %	70 %	
Max coverage	102 ha	101 ha	
GSD at 7 cm/px	**7 cm/px**	**7 cm/px**	**109 cm/px**
Flight altitude	101 m	162 m	
Frontal overlap	75 %	84 %	
Max coverage	118 ha	191 ha	

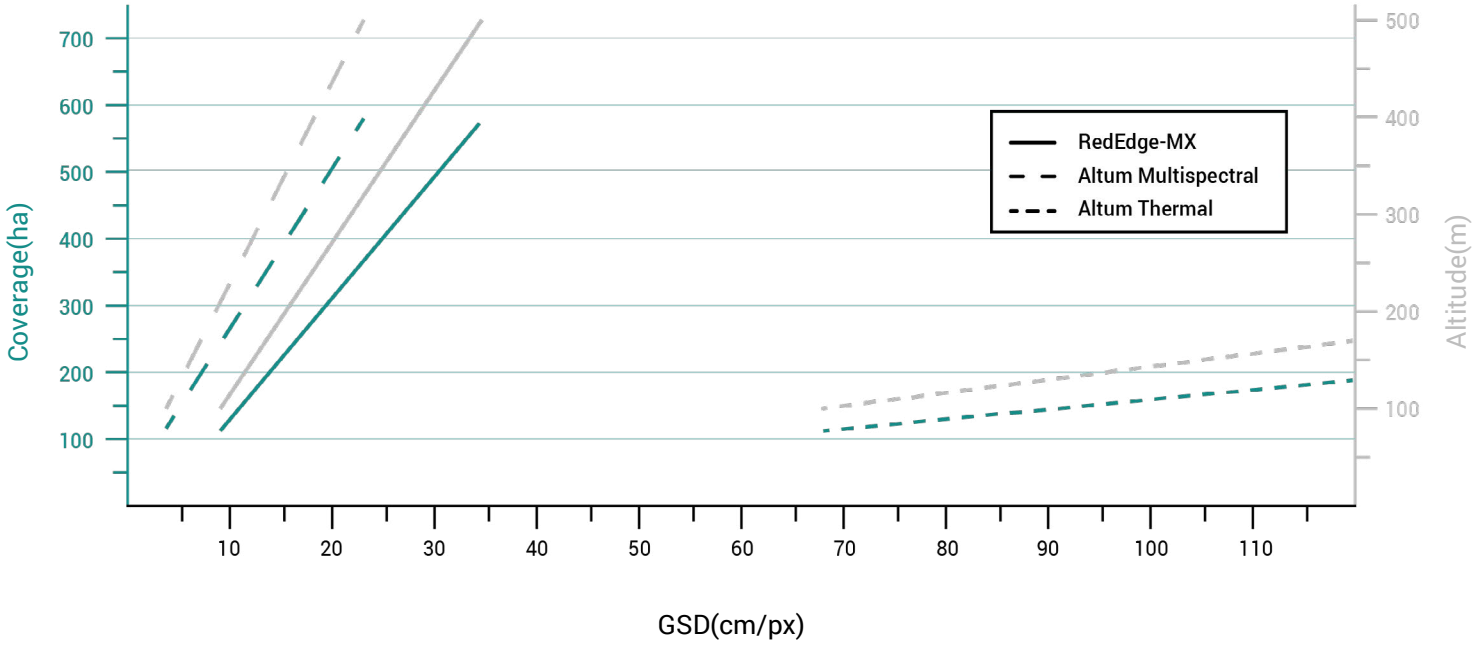
GSD at 8 cm/px	8 cm/px	8 cm/px	124 cm/px
Flight altitude	115 m	185 m	
Frontal overlap	78 %	86 %	
Max coverage	135 ha	218 ha	

GSD at 9 cm/px	9 cm/px	9 cm/px	140 cm/px
Flight altitude	130 m	208 m	
Frontal overlap	80 %	88 %	
Max coverage	152 ha	245 ha	

Flight altitude at 100 m	100 m	100 m	
GSD	7 cm/px	4.3 cm/px	67 cm/px
Frontal overlap	75 %	75 %	
Max coverage	118 ha	118 ha	

Flight altitude at 120 m	120 m	120 m	
GSD	8.3 cm/px	5.2 cm/px	81 cm/px
Frontal overlap	79 %	79 %	
Max coverage	141 ha	142 ha	

Flight altitude at 500 m	500 m	500 m	
GSD	34.7 cm/px	21.7 cm/px	337 cm/px
Frontal overlap	95 %	95 %	
Max coverage	585 ha	589 ha	



Results depend upon environmental conditions