

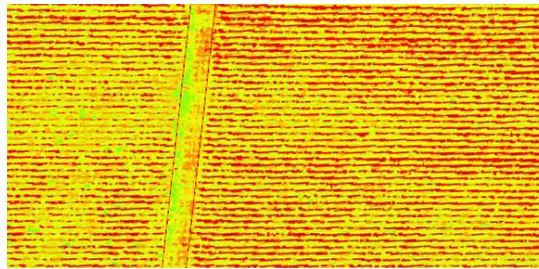
Multispectral Camera Specification Sheet

The best sensors for every agricultural application

RedEdge-MX



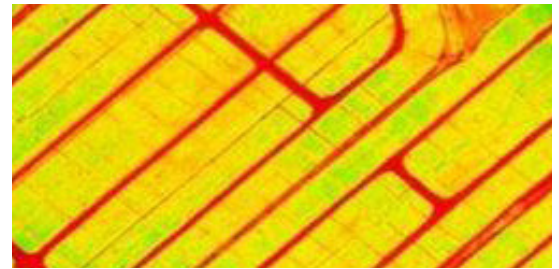
A great solution for multispectral imagery. Generate plant health indices and RGB images in a single flight!



Altum



The revolutionary 3 in 1 camera empowers professional users to capture advanced thermal, multispectral and RGB imagery at the same time.



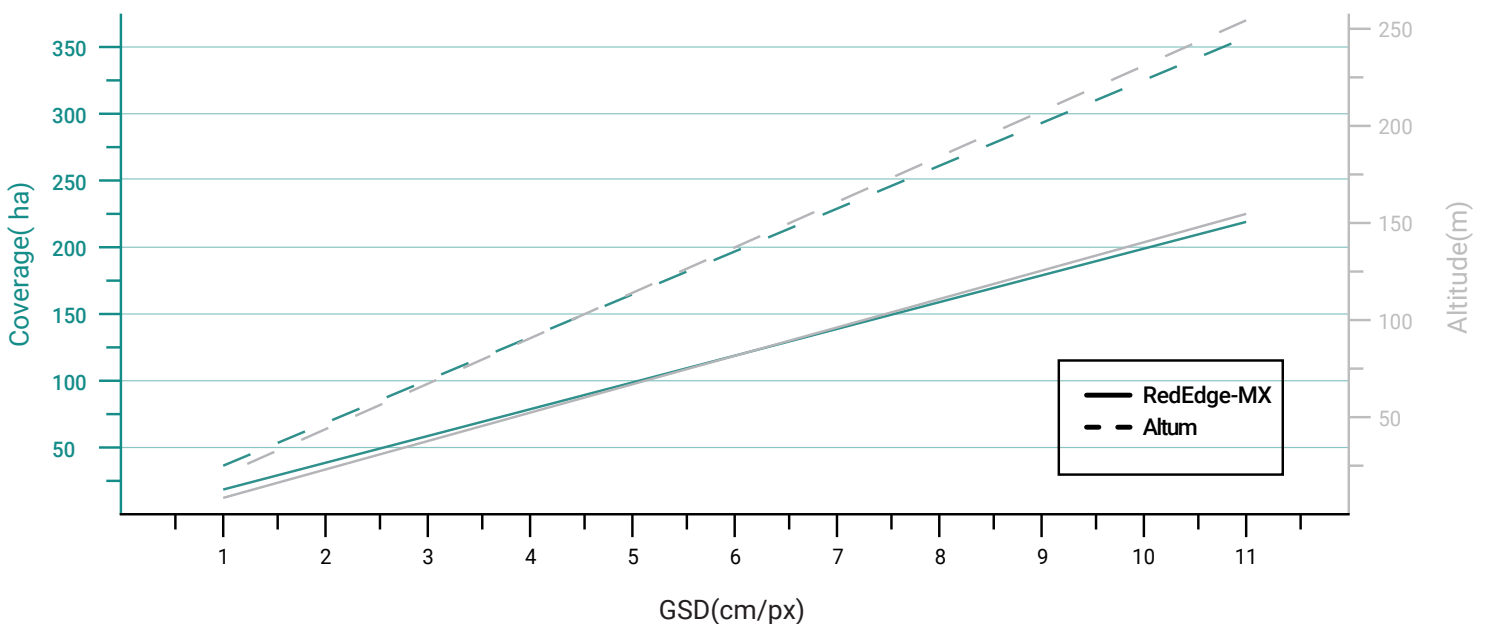
Details

		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	121 ha	120 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	141 ha	228 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		161 ha		260 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		181 ha		293 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		140 ha	141 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		168 ha	169 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		700 ha	705 ha	



Results depend upon environmental conditions