

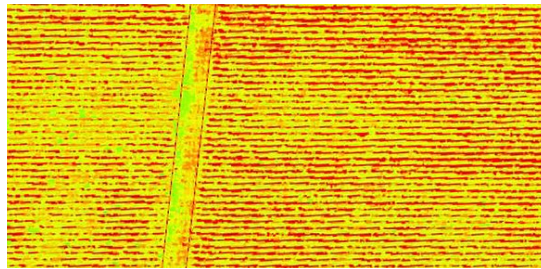
Multispectral Camera Specification Sheet

The best sensors for every agricultural application

RedEdge-MX



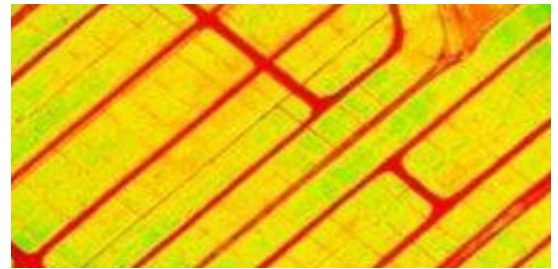
A great solution for multispectral imagery. Generate plant health indices and RGB images in a single flight!



Altum



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



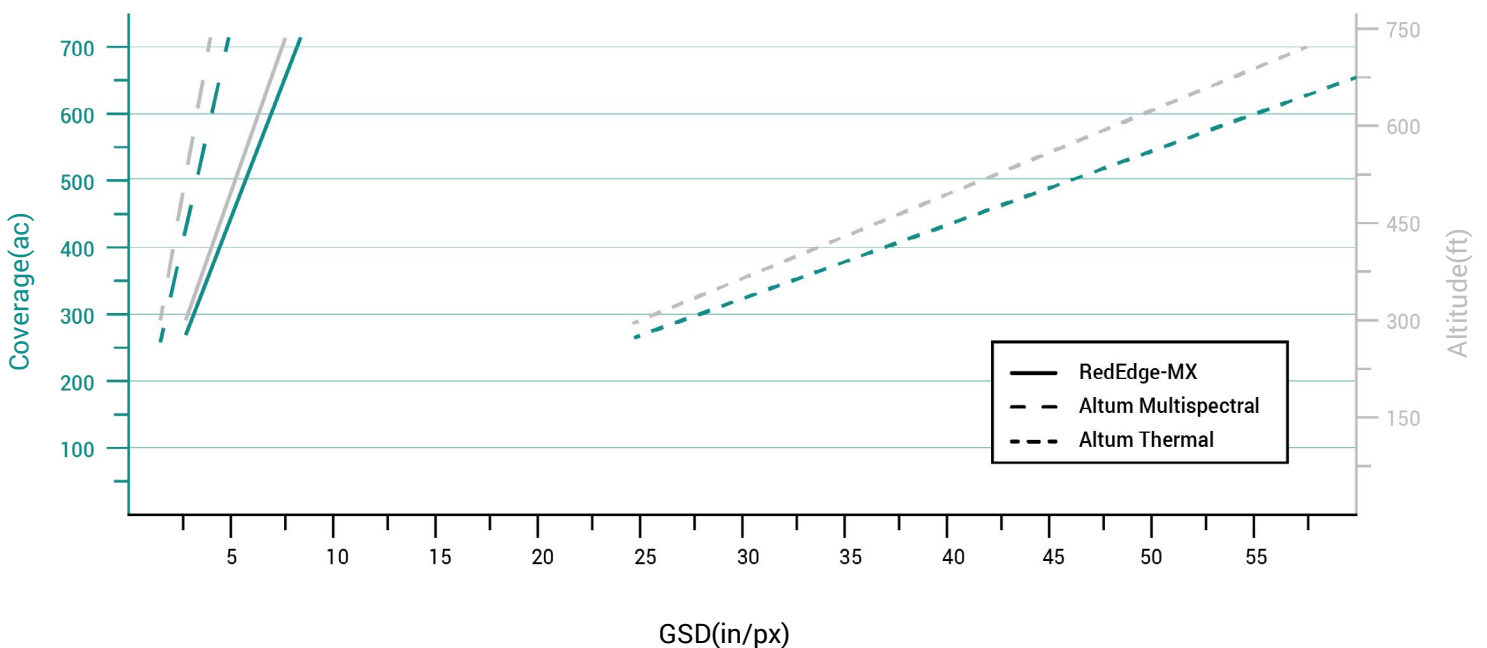
Details

		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	0.2 x 0.1 in	0.3 x 0.2 in	0.07 x 0.06 in
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	8.18 oz (incl. SD card)	14.34 oz (incl. SD card)	
Focal length of lens	0.2 in	0.3 in	0.1 in
Trigger frequency at full resolution	1 Hz	1 Hz	1 Hz

Results

Lowest achievable GSD	2.36 in/px	1.45 in/px	22.6 in/px
Flight altitude	283 ft	280 ft	
Frontal overlap	70 %	70 %	
Max coverage	251 ac	249 ac	
GSD at 3 in/px	3 in/px	3 in/px	46.6 in/px
Flight altitude	361 ft	577 ft	
Frontal overlap	77 %	86 %	
Max coverage	319 ac	512 ac	

GSD at 4 in/px	4 in/px	4 in/px	62 in/px
Flight altitude	480 ft	771 ft	
Frontal overlap	83 %	89 %	
Max coverage	424 ac	682 ac	
GSD at 5 in/px	5 in/px	5 in/px	77 in/px
Flight altitude	600 ft	965 ft	
Frontal overlap	86 %	91 %	
Max coverage	530 ac	853 ac	
Flight altitude at 300 ft	300 ft	300 ft	
GSD	2.5 in/px	1.6 in/px	24 in/px
Frontal overlap	72 %	72 %	
Max coverage	264 ac	267 %	
Flight altitude at 400 ft	400 ft	400 ft	
GSD	3.3 in/px	2.1 in/px	32 in/px
Frontal overlap	79 %	79 %	
Max coverage	353 ac	356 ac	
Flight altitude at 500 ft	500 ft	500 ft	
GSD	4.2 in/px	2.6 in/px	40 in/px
Frontal overlap	83 %	83 %	
Max coverage	442 ac	445 ac	



Results depend upon environmental conditions