

RGB Camera Specification Sheet

The best sensors for every mapping application

SONY RX1RII



Take advantage of the ultra-high resolution of the 42.4 MP full-frame sensor to achieve GSD and accuracy down to 0.4 in! Map 250 ac in 30 minutes with a GSD of 0.6 in.



SONY UMC-R10C



The industry workhorse and proven payload for many professional users. Map 250 ac in 30 minutes with a GSD of 1.2 in.



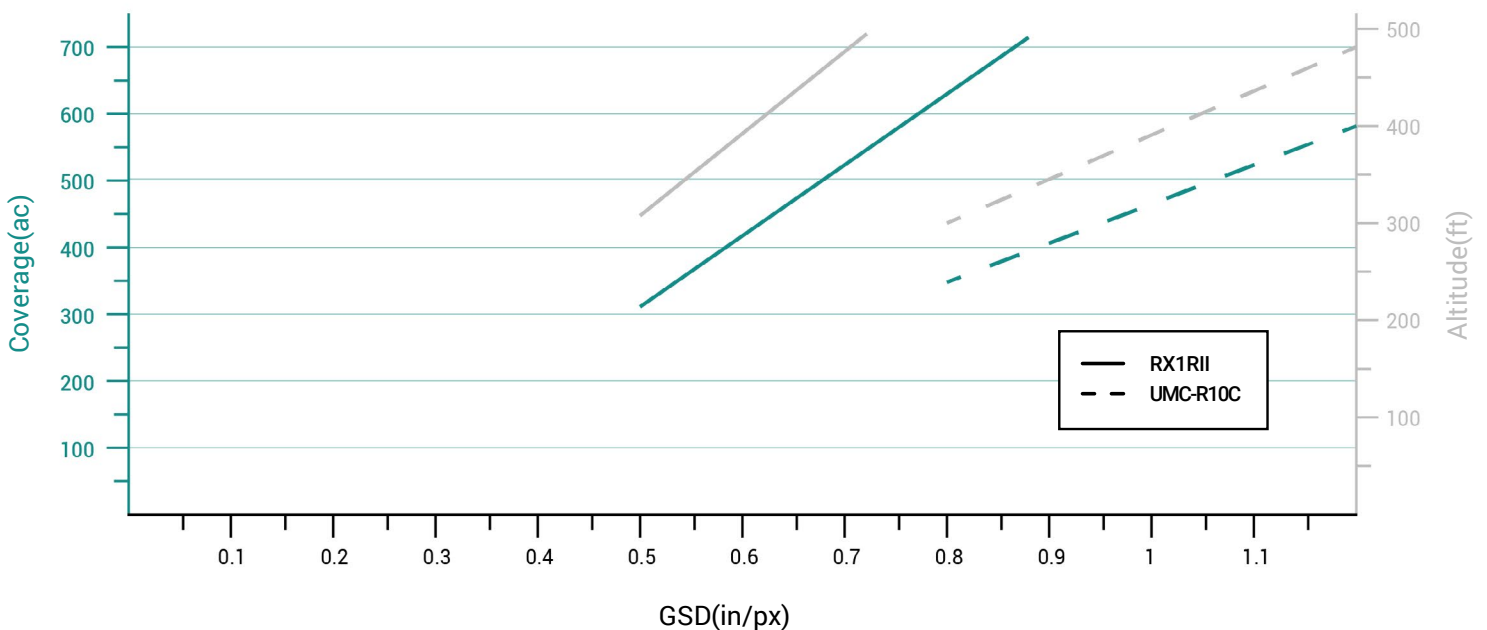
Details

Sensor layout	Full Frame	APS-C
Spectral bands	RGB	RGB
Sensor size	1.4 x 0.95 in	0.9 x 0.6 in
Pixel pitch	4.51 μm	4.25 μm
Pixel count	42.4 MP	20.1MP
Shutter type	Leaf shutter	Focal plane
Pixels array	7952 x 5304 px	5456 x 3632 px
Weight	17.8 oz (incl. battery & SD card)	10 oz (incl. battery & SD card)
Focal length of lens	1.4 in	0.8 in
Trigger frequency	1.2 Hz at full resolution	1.0 Hz at full resolution

Results

Lowest achievable GSD	0.33 in/px	0.97 in/px
Flight altitude	216 ft	186 ft
Frontal overlap	70 %	67 %
Max coverage	220 ac	214 ac
GSD at 0.5 in/px	0.5 in/px	0.5 in/px
Flight altitude	325 ft	197 ft
Frontal overlap	80 %	71 %
Max coverage	329 ac	227 ac

GSD at 0.75 in/px		
Flight altitude	486 ft	295 ft
Frontal overlap	87 %	80 %
Max coverage	494 ac	339 ac
GSD at 1 in/px		
Flight altitude	646 ft	394 ft
Frontal overlap	90 %	85 %
Max coverage	657 ac	452 ac
Flight altitude at 300 ft		
GSD	0.5 in/px	0.8 in/px
Frontal overlap	78 %	81 %
Max coverage	306 ac	346 ac
Flight altitude at 400 ft		
GSD	0.6 in/px	1 in/px
Frontal overlap	84 %	86 %
Max coverage	408 ac	462 ac
Flight altitude at 600 ft		
GSD	0.9 in/px	1.5 in/px
Frontal overlap	89 %	90 %
Max coverage	610 ac	692 ac



Results depend upon environmental conditions