

iXM-RS 280F Camera Specifications

Camera	iXM-RS 280F 4-Band	iXM-RS 280F
Frame geometry	Central projection	Central projection
Image size (pixel)	284MP 20150 x 14118	284MP 20150 x 14118
Image volume (MP)	280	280
Image format	PhaseOne RAW, IIQ-L, IIQ-S	PhaseOne RAW, IIQ-L, IIQ-S
Output formats	Distortion Free RGB, NIR, CIR, RGBN, NVDI in TIFF 8 and 16 Bit or JPEG	Distortion Free RGB in TIFF 8 and 16 Bit or JPEG

RGB/NIR ratio	1:1.8	N/A
Typical image size (MB) for TIFF (8 Bit)	1100	833
Lenses type	Rodenstock	Rodenstock
Number of lenses	3	2
Focal length (mm)	90 & 50	90
FOV (across flight, deg)	45.7	45.7
FOV (along flight, deg)	32.9	32.9
Aperture range	f/5.6 - f/11	f/5.6 - f/11
Exposure principle	Leaf shutter	Leaf shutter

Shutter speed (sec)	Up to 1/2000	Up to 1/2000
Capture rate (sec)	2	2
Light Sensitivity (ISO)	50-6400	50-6400
Dynamic Range (db)	83	83
NIR range (nm)	720 - 1000	N/A
Events synchronization speed (μsec)	100	100
Sensor Specifications		
Sensor type	CMOS	CMOS
Sensor number	3	2

Pixel size (μm)	3.76	3.76
Array (pixel)	14,204 x 10,652	14,204 x 10,652
Analog-to-digital-conversion (bit)	14	14
Flight Specifications		
Maximal ground speed for 10 cm GSD with motion blur under 1 pixel (knot)	390	390
Maximal forward overlap for 10 cm GSD at 150 knot (%)	97	97
Maximal orthophoto angle for 20% side overlap (deg)	37	37

Flight altitude for 10cm GSD (feet)	7,853	7,853
Operating Conditions		
Power input (V DC)	12-30	12-30
Maximal Power consumption (W) – camera only	48	32
Humidity (non-condensing, %)	15 to 80	15 to 80
Temperature (°C)	-10 to 40	-10 to 40
Approvals	FCC (Class A), CE, RoHS	FCC (Class A), CE, RoHS

