

The widest possible aerial coverage
for an increased productivity

iXM-RS150F



iXM-RS150F

iXM-RS150F Series provide superior accuracy, efficiency and productivity thanks to ultra-high resolution, backside illuminated CMOS sensor, fast capture speed, enhanced light sensitivity, and RS leaf shutter.

It is the perfect solution for mapping, surveying, 3D city modelling, corridor mapping and more.

iXM-RS150F camera features Phase One's proven RS Lens Series, with nine field-replaceable focal length options ranging from 32 mm to 300 mm.



Highest possible resolution and coverage

With a 14,204 x 10,562 pixel count images of very large areas can be captured in incredible detail.



High dynamic range

The iXM-RS's high dynamic range means it captures exceptionally detailed images under varying light conditions.



Integrated leaf shutter

High capture speed for an array of different flight conditions. Capture rates of up to 2 fps and shutter speed up to 1/2500s.



Flexible configurations to boost productivity

4-Band configuration available for an even higher productivity and flexibility to cover wide range of projects.

iXM-RS150F

Technical specifications

SPECIFICATIONS	Sensor type	CMOS	
	Resolution	14,204 x 10,652 150 MP	
	Color options	RGB & Achromatic	
	Dynamic range (dB)	83	
	Pixel size (µm)	3.76	
	Light sensitivity (ISO)	RGB: 50-6400 ACH: 200-25600	
	Max. field of view (°)	67.5	
	Max shutter speed (sec)	1/2500 or 1/2000 depending on lens	
	Camera type	Medium format	
	Continuous frame rate (fps)	2	
	RAW file compression (approx.) (IIQ)	100 MB	
	Lens mount	Phase One RS	
	INTERFACE	Image data	USB 3.0, Ethernet 10G (Fiber/Copper)
		API	Phase One SDK
H/W signals		Inputs: Trigger, Black reference Outputs: Camera ready, MEP	
Internal data storage		CF Express card up to 1TB	
HDMI		1920 x 1080	
Synchronization speed in multiple camera configuration (µsec)		50	
POWER		Max. power consumption (W)	16
	Power input (VDC)	12 - 30	
MECHANICAL	Weight - excluding lens (g)	1000	
	Dimensions - excluding lens (mm)	90 x 90 x 91	
	Interface (for mounting)	4 x M4 threads	
OPERATING CONDITIONS	Weather protection	IP53	
	Temperature (°C)	-10 to 40	
	Humidity (%)	15 to 80 (non-condensing)	
	Approvals	FCC Class A, CE, RoHS	
4-BAND CONFIGURATION (OPTIONAL)	Number of lenses	2	
	Number of sensors	2 (RGB and NIR)	
	RGB/NIR ratio	1:1	
	NIR Range (nm)	720 - 1000	
	Output formats	NIR, CIR, RGBI, NDVI in Tiff 8- and 16 bit or JPEG	
	Typical image size (MB) for TIFF (8 bit)	600	



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Technical specifications

RS LENSES

	40mm	50mm	70mm	90mm
Lens composition	10 elements in 7 groups	10 elements in 7 groups	9 elements in 7 groups	9 elements in 8 groups
Focus range	Infinity	Infinity	Infinity	Infinity
Shutter speed max.	Up to 1/2500	Up to 1/2500	Up to 1/2500	Up to 1/2000
Exposure control	1/3 f - stop increments	1/3 f - stop increments	1/3 f - stop increments	1/3 f - stop increments
Aperture range	f/4 - f/22	f/4 - f/22	f/5.6 - f/22	f/5.6 - f/22
Filter diameter (mm)	67	67	58	72
Total length (mm) with camera	174.5	181	179	224
Weight (g/lb)	730/1.60	800/1.76	580/1.27	1150/2.53
Angle of view - Long side (°)	67.5	56.2	41.8	33.1
Angle of view - Short side (°)	53.2	43.7	31.9	25.1
Entrance pupil to image plane (mm)	94.1	99.3	91.1	130.8

RS LENSES

	110mm	150mm MK II	180mm	RSM - 300mm*
Lens composition	6 elements in 5 groups	8 elements in 7 groups	7 elements in 3 groups	11 elements in 9 groups
Focus range	Infinity	Infinity	Infinity	10 m to Infinity
Shutter speed max.	Up to 1/2500	Up to 1/2500	Up to 1/2000	Up to 1/2000
Exposure control	1/3 f - stop increments	1/3 f - stop increments	1/3 f - stop increments	1/3 f - stop increments
Aperture range	f/4 - f/22	f/5.6 - f/22	f/6.3 - f/22	f/8 - f/32
Filter diameter (mm)	58	86	67	86
Total length (mm) with camera	184	257	283	328
Weight (g/lb)	620/1.37	1150/2.53	1400/3.1	1900/4.18
Angle of view - Long side (°)	27.3	20.2	16.9	10.2
Angle of view - Short side (°)	20.6	15.2	12.7	7.6
Entrance pupil to image plane (mm)	76.1	65.8	141.5	85.5

*Not available for 4-Band option.

Additional benefits and features



Geotagged
images



Camera control and
image processing SDK



Ready for
remote update



Weather and
dust proof



RS
Lenses