The widest possible aerial coverage
for an increased productivity

iXM-RS150F

PHASE**ONE**

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.
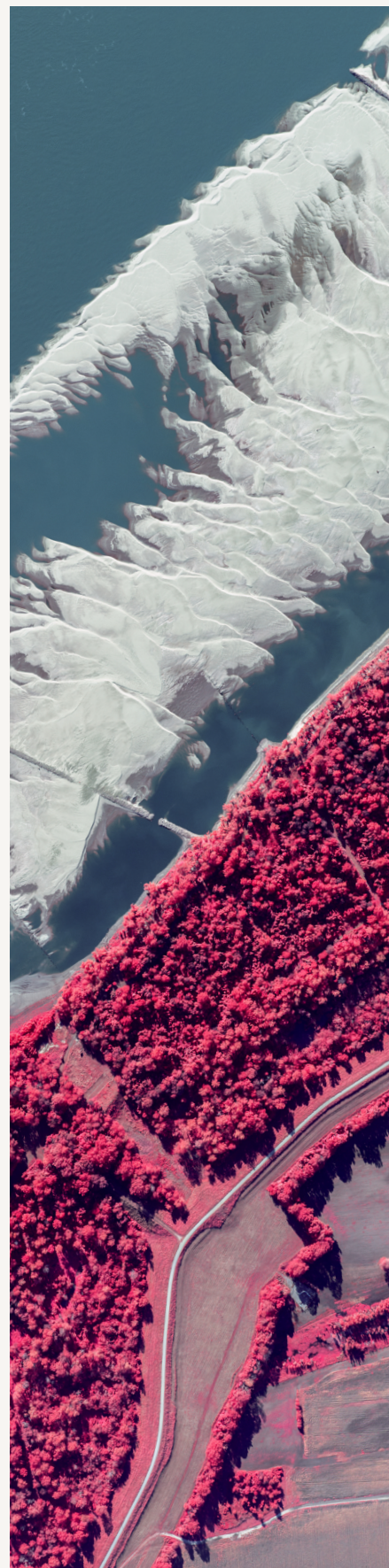
Flexible configurations to boost productivity

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

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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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	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 Infinty
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

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