The most versatile geospatial camera

iXM-100

PHASE**ONE**

iXM-100

Low weight platform for small or UAV-based integrations. iXM-100 is a cutting-edge medium format sensor with backside illumination (BSI) technology for improved high-light sensitivity and dynamic range. iXM-100 is high productivity metric camera with a range of specifically designed RSM lenses, from 35 mm to 300 mm.

Lightweight and robust
A lower weight platform ensures that the camera can be integrated to new or existing payloads.

High dynamic range
The iXM-100's high dynamic range means it captures exceptionally detailed images under varying light conditions.

Large number of pixels
With a 11,664 x 8,750-pixel count images of very large areas can be captured in incredible detail.
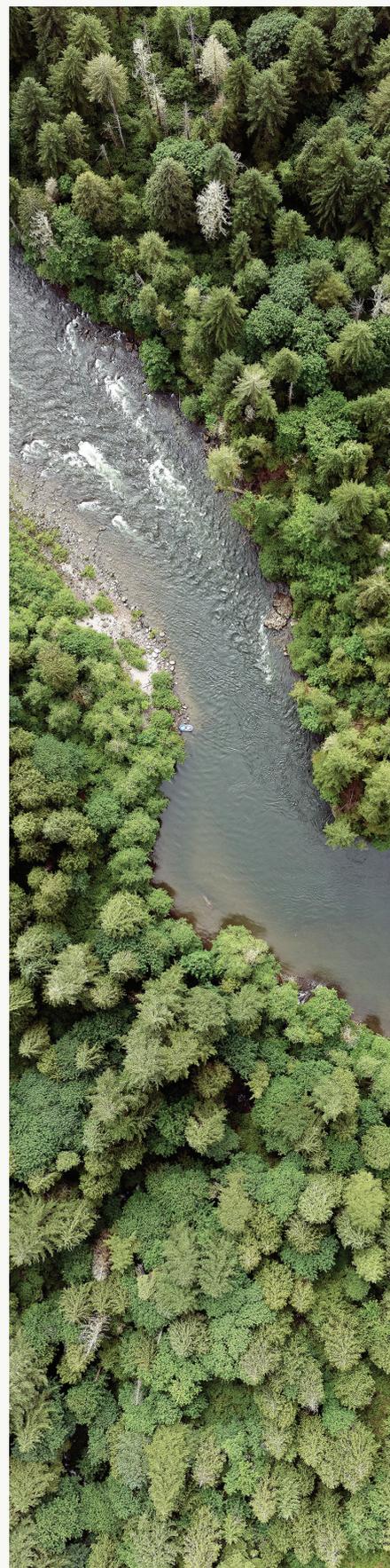
Integrated leaf shutter
High capture speed for an array of different flight conditions. Capture rates of up to 2 fps and shutter speed up to 1/2500s.

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iXM-100
Technical specifications

SPECIFICATIONS		
	Sensor type	CMOS
	Resolution	100 MP 11,664 x 8,750
	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 (°)	63
	Max shutter speed (sec)	1/2.500
	Camera type	Medium format
	Continuous frame rate (fps)	3
	RAW file compression (approx.) (IIQ)	65 MB
	Lens mount	Phase One RSM
INTERFACE	Image data	USB 3.0, Ethernet 10 G (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 1 TB
	HDMI	1920x1080
	Synchronization speed in multiple camera configuration (μsec)	50
POWER	Max. power consumption (W)	16
	Power input (VDC)	12 - 30
MECHANICAL	Weigh - excluding lens (g)	630
	Dimensions - excluding lens (mm)	90 x 90 x 67
	Interface (for mounting)	4 x M4 threads
OPERATING CONDITIONS	Weather protection	IP53
	Temperature (°)	-10 to 40
	Humidity (%)	15 to 80 (non-condensing)
	Approvals	FCC Class A, CE, RoHS

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	RSM Lenses				
	35mm	80mm	80mm AF	150mm AF	300mm AF
Lens composition	12 elements in 8 groups	8 elements in 5 groups	8 elements in 5 groups	8 elements in 7 groups	11 elements in 9 groups
Focus range	Infinity	Infinity	3m to Infinity	10m to Infinity	10m to Infinity
Shutter speed max.	1/2500	1/2500	1/2500	1/2500	1/2000
Exposure control	1/3 f - stop increments	1/3 f - stop increments	1/3 f - stop increments	1/3 f - stop increments	1/3 f - stop increments
Aperture range	f/5.6 - f/22	f/5.6 - f/22	f/5.6 - f/22	f/5.6 - f/22	f/8 - f/32
Filter diameter (mm)	58	58	58	58	86
Total length (mm) with camera	144	164	164	199	328
Weight (g/lb)	540	470	630	744	1900
Angle of view - Long side (°)	64.1	30.7	30.7	16.6	8.4
Angle of view - Short side (°)	50.3	23.2	23.2	12.5	6.3
Entrance pupil to image plane (mm)	72	85	85	107	85.5

Additional benefits and features

Geotagged images	Camera control and image processing SDK	Ready for remote update	Weather and dust proof	RSM Lenses	UAV's engineered

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