

The standard  
in large format aerial imaging

# iXM-RS280F

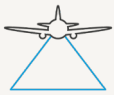


# iXM-RS280F

With over 20,000 pixels across, compact size, and weight, the iXM-RS280F provides higher return on investment compared to any other large format sensor available on the market.

The iXM-RS280F is a dual-lens metric camera, with 90 mm lenses for capturing RGB information, and providing superior image quality. The 280 MP camera generates a central projection image from two 150 MP nadir images with equal ground resolution.

The iXM-RS280F enables large area performance, it is affordable and accessible, and can be used with a wide range of aircrafts.



## +20.000 pixels across

Increase performance and productivity with more than 20.000 pixels across.



## 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 1/2000s.



## High dynamic range

The iXM-RS280F's high dynamic range means it captures exceptionally detailed images under varying light conditions.



## Compact and lightweight

The iXM-RS280F provides a large format option in a compact small package that is easy to integrate.

# iXM-RS280F

## Technical specifications

SPECIFICATIONS	Sensor type		CMOS
	Resolution		20,150 x 14,118 284 MP
	Color options		RGB
	Dynamic range (dB)		83
	Pixel size (µm)		3.76
	Light sensitivity (ISO)		50-6400
	Max. field of view (°)		45.7
	Max shutter speed (sec)		1/2000
	Camera type		Large format
	Continuous frame rate (fps)		2
	RAW file compression (approx.) (IIQ)		2 x 100 MB
INTERFACE	Lens mount		Phase One RS (90 mm only)
	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 1 TB
	HDMI		1920 x 1080
POWER	Synchronization speed in multiple camera configuration (µsec)		50
	Max. power consumption (W)		32
MECHANICAL	Power input (VDC)		12 - 30
	Weight (g)		4700 (incl. lenses)
	Dimensions (mm)		90 x 227 x 224 (incl. lenses)
OPERATING CONDITIONS	Interface (for mounting)		6 x M4 threads
	Weather protection		IP53
	Temperature (°C)		-10 to 40
	Humidity (%)		15 to 80 (non-condensing)
	Approvals		FCC Class A, CE, RoHS
RS LENSES 90 mm	Lens composition		9 elements in 8 groups
	Focus range		Infinity
	Shutter speed max.		Up to 1/2000
	Exposure control		1/3 f - stop increments
	Aperture range		f/5.6 - f/22
	Filter diameter (mm)		72
	Total length (mm) with camera		224
	Weight (g/lb)		1150/2.53
	Angle of view - long side (°)		45.7
	Angle of view - short side (°)		32.9
	Entrance pupil to image plane (mm)		130.8





# Additional benefits and features

05.2024



Geotagged images



Camera control and image processing SDK



Ready for remote update



Weather and dust proof



RS Lenses

