iXM-100/ iXM-50 Technical Specifications

Camera	iXM-100	iXM-50
Resolution	100MP 11664x8750	50MP 8280x6208
Dynamic range	83dB	84dB
Aspect ratio	4:3	4:3
Pixel size	3.76µm	5.3µm
Effective sensor size	43.9x32.9	43.9x32.9
Light sensitivity (ISO)	50-6400	100-6400
Capture rate	3fps	2fps
Camera type	Medium-format camera for aerial imaging	Medium-format camera for aerial imaging
Lens mount	Phase One RSM	Phase One RSM
Data interfaces	USB3, Ethernet 10G	USB3, Ethernet 10G
I/O interfaces	Trigger, Mid exposure, Ready, Serial	Trigger, Mid exposure, Ready, Serial

HDMI	1920x1080 60p	1920x1080 60p
Data storage	XQD card	XQD card
Synchronization speed	50 microseconds in an array of cameras	50 microseconds in an array of cameras
Raw file compression 14bit	IIQ large: 100MB IIQ small: 65MB	IIQ large: 50MB IIQ small: 33MB
IR cut-off filter	Yes	Yes
Connection to pod	4xM4 bolts	4xM4 bolts
Power input	12 - 30 VDC	12 - 30 VDC
Max. Power consumption	16W	14W
Weight (excluding lens)	630gr	630gr
Weight (including 80mm lens)	1100gr	1100gr
Dimensions (Excluding lens)	90x90x68mm	90x90x68mm
Dimensions (including 80mm lens)	90x90x164mm	90x90x164mm
Approvals	FCC Class A, CE, RoHS	FCC Class A, CE, RoHS

Temperature	-10°C to 40°C	-10°C to 40°C
Humidity	15% - 80% (non-condensing)	15% - 80% (non-condensing)

RSM Lenses – Technical Specifications

Technical Specs	35mm	80mm	80mmAF	150mmAF	300mmAF
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
Minimum focusing range	Infinity	Infinity	3m to infinity	10m to infinity	10m to infinity
Shutter speed max			1/2500		1/2000
Exposure control			1/3 f-stop increments		
Aperture range			f/5.6 to f/22		f/8 to f/32
Filter diameter		58mm		86mm	86mm
Total length with Camera (mm)	144	164	164	199	328

Weight [gr]	540	470	630	744	1900
Angle of view (long side)	63	30.4	30.4	17.1	8.4
Angle of view (short side)	49.4	23	23	12.9	6.3
Entrance pupil to image plane[mm]	72	85	85	107	85.5