

Phase One Aerial Cameras — Opening Angles

Focal length	Pixel size	Pixels (long side)	Pixels (short side)	Angle (long side)	Angle (short side)
iXU-RS 1000, iXU 1000					
32 mm	4.6	11608	8708	79.7°	64.1°
40 mm				67.4°	53.2°
50 mm				56.2°	43.7°
55 mm				51.8°	40.0°
70 mm				41.8°	31.9°
80 mm				36.9°	28.1°
90 mm				33.0°	25.1°
110 mm				27.3°	20.6°
150 mm				20.2°	15.2°
240 mm				12.7°	9.5°
iXU-RS 180, iXU 180					
32 mm	5.2	10328	7760	80.0°	64.5°
40 mm				67.7°	53.5°
50 mm				56.5°	44°
55 mm				52.0°	40.3°
70 mm				42.0°	32.2°
80 mm				37.1°	28.3°
90 mm				33.2°	25.3°
110 mm				27.4°	20.8°
150 mm				20.3°	15.3°
240 mm				12.8°	9.6°
iXU-RS 160, iXU 160					
32 mm	6.0	8984	6732	80.2°	64.5°
40 mm				67.9°	53.6°
50 mm				56.7°	44°
55 mm				52.2°	40.3°
70 mm				42.1°	32.2°
80 mm				37.2°	28.3°
90 mm				33.3°	25.3°
110 mm				27.5°	20.8°
150 mm				20.4°	15.3°
240 mm				12.8°	9.6°
iXU-RS 160 Achromatic, iXU 160 Achromatic					
32 mm	6.0	8964	6716	80.1°	64.4°
40 mm				67.8°	53.5°
50 mm				56.5°	43.9°
70 mm				42°	32.1°
28 mm				87.7°	71.5°
55 mm				52.1°	40.2°
80 mm				37.2°	28.3°
90 mm				33.3°	25.2°
110 mm				27.5°	20.8°
150 mm				20.3°	15.3°
240 mm	12.8°	9.6°			
iXU 150					
28 mm	5.3	8280	6208	76.2°	60.9°
55 mm				43.5°	33.3°
80 mm				30.7°	23.2°
110 mm				22.6°	17.0°
150 mm				16.6°	12.5°
240 mm				10.4°	7.8°



Phase One Aerial Cameras

Camera Models and Lens Opening Angles

Camera Comparisons

	iXU-RS series				iXU series				
									
Model	iXU-RS 1000	iXU-RS 180	iXU-RS 160	iXU-RS 160 Achromatic	iXU 1000	iXU 180	iXU 160	iXU 160 Achromatic	iXU 150
Lens system	RS Lenses				Schneider-Kreuznach				
Maximum shutter speed	1/2500 s				1/1600 s				
Forward Motion Compensation option	x	✓	✓	✓	x	✓	✓	✓	x
Resolution	11608 x 8708 100 MP	10328 x 7760 80 MP	8984 x 6732 60.5 MP	8964 x 6716 60 MP	11608 x 8708 100 MP	10328 x 7760 80 MP	8984 x 6732 60.5 MP	8964 x 6716 60 MP	8280 x 6208 50 MP
Pixel size	4.6 micron	5.2 micron	6.0 microns		4.6 microns	5.2 microns	6.0 microns		5.3 microns
Light sensitivity	50-6400	35-800	50-800	200-3200	50-6400	35-800	50-800	200-3200	100-6400
Full resolution frame	0.6 s	1.25 s	1.1 s		0.95 s	1.6 s	1.45 s		0.85 s
RAW file compression (approx)	IIQ large: 100 MB IIQ small: 65 MB	IIQ large: 80 MB IIQ small: 54 MB	IIQ large: 60 MB IIQ small: 40 MB		IIQ large: 100 MB IIQ small: 65 MB	IIQ large: 80 MB IIQ small: 54 MB	IIQ large: 60 MB IIQ small: 40 MB		IIQ large: 50 MB IIQ small: 33 MB
High speed USB 3.0 Connectivity			✓				✓		
iX Link			✓				✓		
Live View	1920 x 1080 25p/30p 1280 x 720 50p/60p				1920 x 1080 25 p/30 p 1280 x 720 50 p/60 p		x		1920 x 1080 25 p/30 p 1280 x 720 50 p/60 p
Maximum power consumption	10 W				10 W		12 W		10 W
Dynamic range	>84 dB				> 84 db		> 72 db		> 84 db
Connection to pod	Four M4 bolts				Four M4 bolts				
Weight (without lens)			.930 kg/2.05 lb.				.930 kg/2.0 lb		.750 kg/1.7 lb
With 40 mm Rodenstock			1.65 Kg/3.65 lb.						
With 50 mm Rodenstock			1.7 kg/3.7 lb						
With 70 mm Rodenstock			1.5 Kg/3.35 lb.						
With 80 mm Schneider-Kreuznah			2.1 Kg/4.6 lb.				1.430 kg/3.15 lb		1.250 kg/2.8 lb