

Phase One Aerial Cameras — Opening Angles

Focal length	Pixel size	Pixels (long side)	Pixels (short side)	Angle (long side)	Angle (short side)	Lens type
iXU-R 1000, iXU 1000						
40 mm	4.6	11608	8708	67.4°	53.2°	Rodenstock
50 mm				56.2°	43.7°	
70 mm				41.8°	31.9°	
28 mm				87.3°	71.2°	
55 mm				51.8°	40.0°	Schneider-Kreuznach
80 mm				36.9°	28.1°	
110 mm				27.3°	20.6°	
150 mm				20.2°	15.2°	
240 mm				12.7°	9.5°	
iXU-R 180, iXU 180, iXA-R 180, iXA 180						
40 mm	5.2	10328	7760	67.7°	53.5°	Rodenstock
50 mm				56.5°	44°	
70 mm				42.0°	32.2°	
28 mm				87.6°	71.6°	
55 mm				52.0°	40.3°	Schneider-Kreuznach
80 mm				37.1°	28.3°	
110 mm				27.4°	20.8°	
150 mm				20.3°	15.3°	
240 mm				12.8°	9.6°	
iXU-R 160, iXU 160, iXA-R 160, iXA 160						
40 mm	6.0	8984	6732	67.9°	53.6°	Rodenstock
50 mm				56.7°	44°	
70 mm				42.1°	32.2°	
28 mm				87.8°	71.6°	
55 mm				52.2°	40.3°	Schneider-Kreuznach
80 mm				37.2°	28.3°	
110 mm				27.5°	20.8°	
150 mm				20.4°	15.3°	
240 mm				12.8°	9.6°	
iXU-R 160 Achromatic, iXU 160 Achromatic, iXA-R 160 Achromatic, iXA 160 Achromatic						
40 mm	6.0	8964	6716	67.8°	53.5°	Rodenstock
50 mm				56.5°	43.9°	
70 mm				42°	32.1°	
28 mm				87.7°	71.5°	
55 mm				52.1°	40.2°	Schneider-Kreuznach
80 mm				37.2°	28.3°	
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°	Schneider-Kreuznach
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-R series				iXU series					iXA-R series			iXA series			
																
Model	iXU-R 1000	iXU-R 180	iXU-R 160	iXU-R 160 Achromatic	iXU 1000	iXU 180	iXU 160	iXU 160 Achromatic	iXU 150	iXA-R 180	iXA-R 160	iXA-R 160 Achromatic	iXA 180	iXA 160	iXA 160 Achromatic	
Lens system	Rodenstock				Schneider-Kreuznach					Rodenstock			Schneider-Kreuznach			
Maximum shutter speed	1/1600 s				1/1600 s					1/4000 s			1/4000 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	10328 x 7760 80 MP	8984 x 6732 60.5 MP	8964 x 6716 60 MP	10328 x 7760 80 MP	8984 x 6732 60.5 MP	8964 x 6716 60 MP	
Pixel size	4.6 microns	5.2 microns	6.0 microns		4.6 microns	5.2 microns	6.0 microns		5.3 microns	5.2 microns	6.0 microns		5.2 microns	6.0 microns		
Light sensitivity	50-6400	35-800	50-800	200-3200	50-6400	35-800	50-800	200-3200	100-6400	35-800	50-800	200-3200	35-800	50-800	200-3200	
Full resolution frame	0.85 s	1.25 s	1.1 s		0.95 s	1.6 s	1.45 s		0.85 s	1.5 s	1.3 s		1.5 s	1.3 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	IIQ large: 80 MB IIQ small: 54 MB	IIQ large: 60 MB IIQ small: 40 MB		IIQ large: 80 MB IIQ small: 54 MB	IIQ large: 60 MB IIQ small: 40 MB		
High speed USB 3.0 Connectivity	✓				✓					✓			✓			
iX Link	✓				✓					x			x			
Live View	x				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		x		x			
Maximum power consumption	10 W	12 W			10 W	12 W			10 W	20 W			20 W			
Dynamic range	> 84 db	> 72 db			> 84 db	> 72 db			> 84 db	> 72 db			> 72 db			
Tripod sockets	x				x					✓			✓			
Weight (without lens)	.900 kg/1.9 lb				.930 kg/2.0 lb				.750 kg/1.7 lb	1.750 kg/3.8 lb			1.750 kg/3.8 lb			
With 40 mm Rodenstock	1.600 kg/3.5 lb										2.450 kg/5.4 lb					
With 50 mm Rodenstock	1.700 kg/3.7 lb										2.550 kg/5.6 lb					
With 70 mm Rodenstock	1.450 kg/3.2 lb										2.300 kg/5.0 lb					
With 80 mm Schneider-Kreuznach					1.430 kg/3.15 lb				1.250 kg/2.8 lb				2.250 kg/5.0 lb			