



iXH & iXG resolution - magnification - object size reference table Sep-21	Popular film formats	Dimensions mm	Popular DIN formats	Dimensions mm
	<p>The below table provides useful information for selecting a configuration suitable for the desired capture resolution and the size of the object that needs to be captured. Note that measurements are rounded to the nearest millimeter and that this table may be updated periodically subject to system updates.</p> 	35mm	36x24	A0
645		56x44	A1	841x594
6x6cm		56x56	A2	594x420
6x7cm		70x56	A3	420x297
6x8cm		80x56	A4	297x210
9x12cm		120x90	A5	210x148
13x18cm		180x130	US formats	
24x30cm		300x240	11x8.5"	279x216
4x5"		127x101.6	14x8.5"	356x216
5x7"		177.8x127	17x11"	432x279
8x10"		254x203.2	40x28"	1016x711
11x14"		355.6x279.4	36x24"	914x610

Lens	In-camera extension mm	Extension Tube	Total system length mm	Distance sensor-object approx mm	Magnification	PPI (approx.)	Object WxH Size (approx. in mm)	Popular supported formats	Notes
iXH 150MP									
72mm Mkl	4	N/A	230	1810	1:22.5	300	1204x903	A0+, 40x28"	
72mm Mkl	6	N/A	232	1404	1:16.9	400	902x677	A1+	
72mm Mkl	9	N/A	235	1000	1:11.3	600	601x451	A2+	
72mm Mkl	11	N/A	237	790	1:8.4	800	447x340	A3+, 17x11"	
72mm Mkl	14	N/A	240	595	1:5.7	1200	301x226	A4+, 8x10", 11x8.5"	
72mm Mkl	18	N/A	246	492	1:4.2	1600	224x169	A5+	
72mm Mkl	21	N/A	250	436	1:3.4	2000	180x135	A6+, 13x18cm, 5x7"	
120mm	0	N/A	224	112	1:6.9	967	373x280		Min. practical PPI
120mm	5	N/A	225	964	1:5.6	1200	300x225	A4, 11x8.5", 8x10"	
120mm	7	21mm	250	628	1:2.8	2400	149x112	9x12cm, 4x5"	
120mm	15	42mm	282	522	1:1.7	4000	89x67	6x8cm, 6x7cm, 6x6cm	
120mm	21	21mm+42mm	370	488	1:1.2	5500	64x49	645, 35mm	
SK 72mm	4	N/A	162	1839	1:22.5	300	1204x903	A0+	
SK 72mm	6	N/A	164	1417	1:16.9	400	902x677	A1+	
SK 72mm	8	N/A	166	990	1:11.3	600	601x451	A2+	
SK 72mm	10	N/A	167	783	1:8.4	800	447x340	A3+, 11x14"	
SK 72mm	15	N/A	175	578	1:5.7	1200	300x225	A4+, 8x10", 8x11.5"	
SK 72mm	18	N/A	178	472	1:4.2	1600	224x169	A5+, 5x7"	
SK 72mm	3	21mm	182	413	1:3.4	2000	180x135	A6+, 5x7"	
SK 72mm	7	21mm	188	375	1:2.8	2400	148x111	9x12cm, 4x5"	
SK 72mm	5	42mm	205	309	1:1.7	4000	89x67	6x8cm, 6x7cm, 6x6cm	
SK 72mm	21	42mm	220	289	1:1.2	5500	64x49	645	
SK 72mm	15	21mm+42mm	237	288	1:1	6756	53x41	35mm	1:1 magnification
SK 72mm	21	21mm+42mm	243	287	1:0.9	7400	48x36	35mm	Max. practical PPI

iXG 100MP									
72mm Mkl	6	N/A	228	1520	1:18.4	300	982x737	A1+	
72mm Mkl	8	N/A	230	1182	1:13.8	400	737x553	A2+	
72mm Mkl	10	N/A	232	853	1:9.2	600	491x368	A3+, 11x14"	
72mm Mkl	13	N/A	236	690	1:8.4	800	369x276	A4+, 8x10", 8x11"	
72mm Mkl	14	N/A	235	595	1:5.7	1200	246x184	A5+	
72mm Mkl	18	N/A	241	492	1:4.2	1600	184x138	A6+, 13x18cm	
72mm Mkl	21	N/A	245	436	1:3.4	2000	147x110	4x5"	
120mm	0	N/A	219	112	1:7	791	373x280	11x14", 8x10", 24x30cm, A4	Min. practical PPI
120mm	12	N/A	224	842	1:4.6	1200	246x184	4x5", 5x7", 18x24cm, A5	
120mm	17	21mm	245	585	1:2.3	2400	123x92	9x12cm	
120mm	12	21mm+42mm	290	506	1:1.4	4000	74x55	645, 6x6cm, 6x7cm*	No margin on the 55mm side
120mm	23	21mm+42mm	310	498	1:1.2	4500	65x49	35mm, 645	
SK 72mm	7	N/A	158	1530	1:18.4	300	982x737	A1+	
SK 72mm	9	N/A	160	1189	1:13.8	400	737x553	A2+	
SK 72mm	11	N/A	162	846	1:9.2	600	491x368	A3+, 11x14"	
SK 72mm	12	N/A	162	677	1:6.9	800	369x276	A4+, 11x8.5", 8x10"	
SK 72mm	19	N/A	170	501	1:4.6	1200	246x184	A5+, 5x7"	
SK 72mm	3	21mm	176	429	1:3.4	1600	184x138	A6+, 13x18cm	
SK 72mm	8	21mm	182	383	1:2.8	2000	147x110	4x5"	
SK 72mm	10	21mm	188	354	1:2.3	2400	123x92	9x12cm	
SK 72mm	10	42mm	208	306	1:1.4	4000	74x55	6x7cm, 6x6cm*	No margin on the 55mm side
SK 72mm	10	21mm+42mm	228	298	1:1	5500	54x40	35mm	1:1 magnification
SK 72mm	15	21mm+42mm	232	288	1:0.9	6119	48x36	35mm	Max. practical PPI

iXH & iXG resolution - magnification - object size reference table Sep-21 The below table provides useful information for selecting a configuration suitable for the desired capture resolution and the size of the object that needs to be captured. Note that measurements are rounded to the nearest millimeter and that this table may be updated periodically subject to	Popular film formats	Dimensions mm	Popular DIN formats	Dimensions mm
		35mm	36x24	A0
645		56x44	A1	841x594
6x6cm		56x56	A2	594x420
6x7cm		70x56	A3	420x297
6x8cm		80x56	A4	297x210
9x12cm		120x90	A5	210x148
13x18cm		180x130	US formats	
24x30cm		300x240	11x8.5"	279x216
4x5"		127x101.6	14x8.5"	356x216
5x7"		177.8x127	17x11"	432x279
8x10"		254x203.2	40x28"	1016x711
11x14"	355.6x279.4	36x24"	914x610	

Lens	Extension Tube	Min-Max Distance Sensor-object cm	Min-Max Magnification	Min-Max PPI	Min-Max Object WxH Size (approx. mm)	Popular supported formats	Notes
iXH 150MP							
120mm	N/A	68 - 113	1:6.9 - 1:3.2	967-2130	373x280 -170x128		
120mm	21mm	56 - 68	1:2 - 1:3.2	2100-3260	110x83 - 172-129	9x12cm, 4x5"	
120mm	42mm	52 - 56	1:1.5 - 1:2.1	3230 - 4390	82x61 - 112x84	6x8cm, 6x7cm, 6x6cm	
120mm	21mm+42mm	52 - 50	1:1.2 - 1:1.5	4390 - 5520	65x49 - 83x62	645, 35mm	

iXG 100MP							
120mm	N/A	68 - 113	1:6.9 - 1:3.2	790-1740	373x280 -170x128	11x14", 8x10", 24x30cm, A4	
120mm	21mm	56 - 68	1:2 - 1:3.2	1715 - 2660	110x83 - 172-129	4x5", 5x7", 18x24cm, A5	
120mm	42mm	52 - 56	1:1.5 - 1:2.1	2640 - 3590	82x61 - 112x84	9x12cm	
120mm	21mm+42mm	52 - 50	1:1.2 - 1:1.5	3560 - 4510	65x49 - 83x62	645, 6x6cm, 6x7cm*	

XF 120mm BR - magnification - object size reference table Jan-21 The below table provides useful information for selecting a configuration suitable for the desired capture resolution and the size of the object that needs to be captured. Note that measurements are rounded to the nearest millimeter and that this table may be updated periodically subject to system updates.				Popular film formats	Dimensions mm	Popular DIN formats		Dimensions mm
				35mm 645 6x6cm 6x7cm 6x8cm 9x12cm 13x18cm 4x5" 5x7"	36x24 56x44 56x56 70x56 80x56 120x90 180x130 127x101.6 177.8x127	A5	210x148	



Lens	Extension Tube	Total system length mm	Distance sensor-object approx mm	Magnification	PPI (approx.)	Object WxH Size (approx. in mm)	Popular & Vintage supported formats	Notes
IQ4 100MP								
120mm	N/A	260	796	1:5.0	1110	290 x 195		
120mm	N/A	260	682	1:4.0	1390	218 x 159	A5, 13x18cm, 5x7"	
120mm	N/A	265	605	1:3.0	1650	176 x 130	9x12cm, 4x5"	
120mm	N/A	277	464	1:2.0	2780	105 x 79	6x8cm, 6x7cm, 6x6cm, 645	
120mm	N/A	284	364	1:1.0	5510	54 x 42	645, 35mm	
120mm	No 1	263	318	0.87	6280	46 x 35	35mm, 44x32mm	
120mm	No 2	333	382	0.77	7130	41 x 31	35mm, 40x28mm	
120mm	No.3	343	386	0.67	7900	36 x 27	35mm	Full Frame
120mm	No. 3 + No. 1	391	445	0.62	8730	33 x 25		
120mm	No. 3 + No. 2	369	400	0.85	9490	31 x 23		
120mm	No. 3 + No. 2 + No.1	378	410	0.50	10160	28 x 21	110 cartridge (17x13mm), 24x18mm (half-frame)	

IQ4 150MP								
120mm	N/A	260	796	1:5.0	1360	290 x 195		
120mm	N/A	260	682	1:4.0	1700	218 x 159	A5, 13x18cm, 5x7"	
120mm	N/A	265	605	1:3.0	2020	176 x 130	9x12cm, 4x5"	
120mm	N/A	277	464	1:2.0	3400	105 x 79	6x8cm, 6x7cm, 6x6cm, 645	
120mm	N/A	284	364	1:1.0	6740	54 x 42	645, 35mm	
120mm	No 1	263	318	0.87	7680	46 x 35	35mm, 44x32mm	
120mm	No 2	333	382	0.77	8720	41 x 31	35mm, 40x28mm	
120mm	No.3	343	386	0.67	9670	36 x 27	35mm	Full Frame
120mm	No. 3 + No. 1	391	445	0.62	10680	33 x 25		
120mm	No. 3 + No. 2	369	400	0.85	11610	31 x 23		
120mm	No. 3 + No. 2 + No.1	378	410	0.50	12430	28 x 21	110 cartridge (17x13mm), 24x18mm (half-frame)	

XF IQ4 150MP resolution - object size reference table		Popular film formats		Dimensions mm		Popular DIN formats		Dimensions mm	
Jan-21	The below table provides useful information for selecting a configuration suitable for the desired capture resolution and the size of the object that needs to be captured. Note that measurements are approximate and that this table may be updated periodically subject to system updates.	35mm	36x24	A0	1189x841				
		645	56x44	A1	841x594				
		6x6cm	56x56	A2	594x420				
		6x7cm	70x56	A3	420x297				
		6x8cm	80x56	A4	297x210				
		9x12cm	120x90	A5	210x148				
		13x18cm	180x130	US formats					
		24x30cm	300x240	11x8.5"	279x216				
		4x5"	127x101.6	14x8.5"	356x216				
		8x10"	254x203.2	40x28"	1016x711				
	11x14"	355.6x279.4	36x24"	914x610					
Lens	Extension Tube	Distance sensor-object approx mm	Magnification	PPI (approx.)	Object WxH Size (approx.)	Popular & Vintage supported formats	Notes		
Schneider Kreuznach 80mm LS f/2.8 MkII									
80mm	N/A	2000	1:22.5	300	120x90	A0+	Full size copy stand e.g. Kaiser RSP 2-Motion or Phase One RPS 2300XL		
80mm	N/A	1550	1:16.9	400	90x67	A1+	Full size copy stand e.g. Kaiser RSP 2-Motion or Phase One RPS 2300XL		
80mm	N/A	1100	1:11.3	600	60x45	A2+	Medium size copy stand e.g. Phase One RPS 1600XL		
80mm	N/A	880	1:8.4	800	45x34	A3+	Medium size copy stand e.g. Phase One RPS 1600XL or Graziar KT5242 cradle		
Schneider Kreuznach 55mm LS f/2.8									
55mm	N/A	1380	1:22.5	300	120x90	A0+	Full size copy stand e.g. Kaiser RSP 2-Motion or Phase One RPS 2300XL		
55mm	N/A	1070	1:16.9	400	90x67	A1+	Full size copy stand e.g. Kaiser RSP 2-Motion or Phase One RPS 2300XL		
55mm	N/A	760	1:11.3	600	60x45	A2+	Medium size copy stand e.g. Phase One RPS 1600XL		
55mm	N/A	600	1:8.4	800	45x34	A3+	Medium size copy stand e.g. Phase One RPS 1600XL or Graziar KT5242 cradle		
55mm	N/A	450		1200	30x23	A4+	Medium size copy stand e.g. Phase One RPS 1600XL or Graziar KT5242 cradle		
Schneider Kreuznach 120mm LS f/4.0 Macro									
120mm	N/A	1660	1:11.3	600	60x45	A2+	Full size copy stand e.g. Kaiser RSP 2-Motion or Phase One RPS 2300XL		
120mm	N/A	1320	1:8.4	800	45x34	A3+	Medium size copy stand e.g. Phase One RPS 1600XL or Graziar KT5242 cradle		
120mm	N/A	990	1:5.6	1200	30x23	A4+	Medium size copy stand e.g. Phase One RPS 1600XL or Graziar KT5242 cradle		
Useful reference for film scanning and other types of Macro work with 120mm f/4.0 lens and extension tubes									
in mm									
120mm	N/A	796	1:5.0	1360	290 x 195				
120mm	N/A	682	1:4.0	1700	218 x 159	A5, 13x18cm, 5x7"			
120mm	N/A	605	1:3.0	2020	176 x 130	9x12cm, 4x5"			
120mm	N/A	464	1:2.0	3400	105 x 79	6x8cm, 6x7cm, 6x6cm, 645			
120mm	N/A	364	1:1.0	6740	54 x 42	645, 35mm	"1:1"		
120mm	No. 1	318	0.87	7680	46 x 35	35mm, 44x32mm			
120mm	No. 2	382	0.77	8720	41 x 31	35mm, 40x28mm			
120mm	No. 3	386	0.67	9670	36 x 27	35mm	"Full Frame"		
120mm	No. 3 + No. 1	445	0.62	10680	33 x 25				
120mm	No. 3 + No. 2	400	0.85	11610	31 x 23				
120mm	No. 3 + No. 2 + No.1	410	0.50	12430	28 x 21	110 cartridge (17x13mm), 24x18mm (half-frame)			
©Phase One A/S 2021									

