

Resolution chart



Achievable resolution of the Phase One iXG 100 (101 megapixel) camera system

Object Type	Short Dimension (cm)	Long Dimension (cm)	Short Pixels	Long Pixels	Pixels per inch (ppi)	Extension Tube required	Total Megapixels
Glass plates							
3.25 x 4.25	8.5	11	8708	11269	2602	42mm	98
4 x 5	10.5	12.8	8708	10615	2107	21mm	92
4.75 x 6.75	12	16.5	8442	11608	1787	21mm	98
6.5 x 8.5	16.5	21.5	8708	11346	1341	Not Required	99
Cellulose film							
3.25 x 4.25	8.5	11	8708	10615	2602	42mm	92
3.75 x 4.75	9.5	12	8708	10999	2328	21mm	96
4 x 5	10	12.5	8708	10885	2212	21mm	95
4.5 x 6.5	12	17	8193	11608	1734	21mm	95
Cellulose 35mm film							
three frame	3.5	12	3384	11608	2456	21mm	39
single frame	3.5	4	8708	9951	6320	42+21+42mm	87
mounted slide	5	5	8708	8708	4424	21+42+21mm	76
Cellulose medium format film							
6 x 4.5	4.5	6	8706	11608	4914	21+42+21mm	101
6 x 6	6	6	8706	8706	3686	21+42mm	76
6 x 7	6	7	8708	10160	3686	21+42mm	88
6 x 9	6	9	7738	11608	3276	21+42mm	90
4 x 4.5	4	4.5	8708	9796	5530	21+42+21mm	85

Calculations based on using Schneider Kreuznach 120mm RS flat field lens.

To achieve this standard requires optimum flatness of capture surface, and edge to edge framing of object with no cropping.

NB. The table may be updated in the future.
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Phase One iXH 150MP reproduction camera



Resolution chart



Achievable resolution of the Phase One iXH 150 (151 megapixel) camera system

Object Type	Short Dimension (cm)	Long Dimension (cm)	Short Pixels	Long Pixels	Pixels per inch (ppi)	Extension Tube required	Total Megapixels
Glass plates							
3.25 x 4.25	8.5	11	10652	13785	3183	42mm	147
4 x 5	10.5	12.8	10652	12985	2577	21mm	138
4.75 x 6.75	12	16.5	10327	14200	2186	21mm	147
6.5 x 8.5	16.5	21.5	10652	13880	1640	Not Required	148
Cellulose film							
3.25 x 4.25	8.5	11	10652	12985	3183	42mm	138
3.75 x 4.75	9.5	12	10652	13455	2848	21mm	143
4 x 5	10	12.5	10652	13316	2706	21mm	142
4.5 x 6.5	12	17	10022	14200	2121	21mm	142
Cellulose 35mm film							
three frame	3.5	12	4140	14200	3004	21mm	59
single frame	3.5	4	10652	12173	7730	42+21+42mm	130
mounted slide	5	5	10652	10652	5411	21+42+21mm	113
Cellulose medium format film							
6 x 4.5	4.5	6	10650	14200	6011	21+42+21mm	151
6 x 6	6	6	10650	10650	4509	21+42mm	113
6 x 7	6	7	10652	12429	4509	21+42mm	132
6 x 9	6	9	9466	14200	4007	21+42mm	134
4 x 4.5	4	4.5	10652	11983	6764	21+42+21mm	128

Calculations based on using Schneider Kreuznach 120mm RS flat field lens.

To achieve this standard requires optimum flatness of capture surface, and edge to edge framing of object with no cropping.

NB. The table may be updated in the future.
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