

Camera/Lens Interactions

Camera	Pixels across	Pixels down	Sensor width (mm)	Sensor height (mm)	Aspect Ratio	Sensor Diagonal (mm)	Sensor Area (mm²)	Pixels / mm	Lens	Focal Length (mm)	HxV (deg., min. on axis)	AoV (deg., min. on axis)	WxH (deg.)	Zoom Factor (H and V)	Zoom Factor (DA)	Arc sec./pix edge @ center	Minimum f stop	Aperture diameter (mm)	Elements	Groups	Blades	Shirre	DO	USM	Aln	CaF2	UD in IR	FT-M	CA	FP	AF-S	Float	Weight (oz.)	Threads (mm)	Introduced	Price (US)	Canon 2004 Winter Release				
Standard 35mm Film SLR	#N/A	#N/A	36	24	1.5	43.27	864	#N/A	Ultra Wide Angle	14	104.25	81.20	114.18	0.36	0.41	#N/A																									
									Wide Angle	35	83.97	61.93	94.49	0.45	0.50																										
									Standard	50	39.60	26.99	46.79	1.00	1.00																										
									Medium Telephoto	85	23.91	16.07	28.56	1.67	1.64																										
									Telephoto	135	15.19	10.16	18.21	2.63	2.57																										
									Super Telephoto	200	10.29	6.87	12.35	3.89	3.79																										
									Longest in the world	400	5.15	3.44	6.19	7.77	7.56																										
Canon EOS D60 / 10D	3072	2048	22.67	15.12	1.5	27.25	342.8	135.48	EF 14mm f/2.8 USM	14	78.00	56.73	88.45	0.49	0.53	108.75	2.8	5.00	14	10	5																				
									Sigma 14mm f/2.8 EX HSM ASP																																
									EF 15mm f/2.8 Fisheye	15	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	2.8	5.36	8	7	5																				
									EF 20mm f/2.8 USM	20	59.10	41.40	68.53	0.66	0.68	76.12	2.8	7.14	11	9	5																				
									Sigma 20mm f1.8 EX Aspherical DG RF																																
									EF 24mm f1.4L USM	24	50.57	34.96	59.17	0.78	0.79	63.44	1.4	17.14	11	9	7																				
									EF 24mm f/2.8																																
									TS-E 24mm f/3.5L																																
									Sigma 24mm F1.8 EX Aspherical DG DF MACRO																																
									EF 28mm f/1.8 USM	28	44.09	30.21	51.90	0.90	0.90	54.37	1.8	15.56	10	9	9																				
									EF 28mm f/2.8																																
									EF 35mm f/1.4L USM	35	35.90	24.37	42.54	1.11	1.10	43.50	1.4	25.00	11	9	8																				
									EF 35mm f/2																																
									TS-E 45mm f/2.8	45	28.28	19.07	33.69	1.41	1.39	33.83	2.8	16.07	10	9	8																				
									EF 50mm f/1.0L USM	50	25.55	17.19	30.49	1.56	1.53	30.45	1.0	50.00	11	10	6																				
									EF 50mm f/1.4 USM																																
									EF 50mm f/1.8 USM																																
									EF 50mm f/1.8 II																																
									EF 50mm f/2.5 Compact Macro																																
									MP-E65mm f/2.8 1-5x Macro Photo	65	19.79	13.27	23.68	2.02	1.98	23.42	2.8	23.21	10	8	6																				
									EF 85mm f/1.2L USM	85	15.19	10.16	18.21	2.63	2.57	17.91	1.2	70.83	8	7	8																				
									EF 85mm f/1.8 USM																																
									TS-E 90mm f/2.8	90	14.36	9.60	17.22	2.78	2.72	16.92	2.8	32.14	6	5	8																				
									EF 100mm f/2 USM	100	12.94	8.64	15.52	3.09	3.02	15.22	2.0	50.00	8	6	8																				
									EF 100mm f/2.8 Macro USM																																
									EF 135mm f/2L USM	135	9.60	6.41	11.53	4.17	4.06	11.28	2.0	67.50	10	8	6																				
									EF 135mm f/2.8 with Softfocus																																
									EF 180mm f/3.5L Macro USM	180	7.21	4.81	8.66	5.55	5.40	8.46	3.5	51.43	14	12	8																				
									Sigma 180mm f/3.5 EX APO Macro IF HSM																																
									EF 200mm f/2.8L II USM	200	6.49	4.33	7.80	6.17	6.00	7.67	2.8	71.43	9	7	8																				
									EF 300mm f/2.8L IS USM	300	4.33	2.89	5.20	9.25	9.00	5.07	2.8	107.14	17	13	8																				
									EF 300mm f/4L IS USM																																
									EF 400mm f/2.8L IS USM	400	3.25	2.17	3.90	12.33	11.99	3.81	4.0	75.00	15	11	8																				
									EF 400mm f/4 DO IS USM																																
									EF 400mm f/5.6L USM																																
									EF 500mm f/4 IS USM	500	2.60	1.73	3.12	15.41	14.99	3.04	4.0	125.00	17	13	8																				
									EF 600mm f/4L IS USM	600	2.17	1.44	2.60	18.49	17.98	2.54	4.0	150.00	17	13	8																				
									EF 1200mm f/5.6L USM	1200	1.08	0.72	1.30	36.98	35.96	1.27	5.6	214.29	13	10	8																				
									Sigma 12-24mm f/4.5-5.6 EX DG ASP	12	86.75	64.41	97.26	0.44	0.48	126.87	4.5	2.67	16	12	6																				
									Sigma 15-30mm f/3.5-4.5 EX ASP DG D	14	50.57	34.96	59.17	0.78	0.79	63.44	5.6	4.29																							
									EF 16-35mm f/2.8L USM	16	70.64	50.57	80.84	0.55	0.58	95.15	2.8	5.71	14	10	7																				