

4.5mm

Prime Lens Table

10mm

Focal Length	Max Aper	Grade Use	Notes	Manuf	Designation	Image	Price	Min Aper	Min Focus	Max Mag	Minimum Field Size	35mm EqFL	AoV Range	Diag AoV	Longer AoV	Shorter AoV	Focus	Const	Filter	Diameter	Length	Weight	Hood
4.5mm	f/2.8	HG APS	CFE HSF	Sigma	4.5mm F2.8 EX DC HSM Circular Fisheye		899	f/22	13.5cm 5.31 in 0.443 ft	0.17× 1:6	N/A N/A 13.4×8.94cm	N/A N/A 7.26mm	N/A N/A CF	N/A N/A 180°	N/A N/A 180°	N/A N/A 180°	IF HSM FTMF	13 E 9 G 6 B	RG	76.2mm 3.00 in	77.8mm 3.06 in	470g 16.58 oz 1.036 lb	N/S
5.6mm	f/5.6	LG APS	SFE	Sunex	5.6mm f/5.6 Super Fisheye		799	f/5.6 Fixed	50cm 19.7 in 1.64 ft	N/S	N/C	N/A N/A 9.03mm	N/A N/A SF	N/A N/A 185°	N/A N/A 185°	N/A N/A 185°	Fixed	N/S	N/A	70mm 2.76 in	90.0mm 3.54 in	470g 16.58 oz 1.036 lb	N/S
7mm	f/3.5	LG APS	DFE	Vivitar	7mm F3.5 Series 1 Diagonal Fisheye		299	f/22	30cm 11.8 in 0.984 ft	N/S	N/C	N/A N/A 11.3mm	N/A N/A DF	N/A N/A 180°	N/A N/A 150°	N/A N/A 100°	MF	10 E 8 G N/S	N/A	75mm 2.95 in	77.3mm 3.04 in	443g 15.63 oz 0.977 lb	Included
8mm	f/3.5	LG FLM	DFE	Samyang Bower Pro-Optic Rokinon	8mm / F3.5 Diagonal Fisheye		269	f/22	30cm 11.8 in 0.984 ft	N/S	N/C	8.00mm 10.3mm 12.9mm	DF UF UF	180° 140° 112°	150° 116° 92.8°	100° 77.4° 62.0°	MF	10 E 7 G N/S	N/A	75.0mm 2.95 in	77.3mm 3.04 in	443g 15.63 oz 0.977 lb	Integral
8mm	f/3.5	LG FLM	DFE	Samyang Bower Pro-Optic Rokinon	8mm / F3.5 Diagonal Fisheye (Removable Hood)		329	f/22	30cm 11.8 in 0.984 ft	N/S	N/C	8.00mm 10.3mm 12.9mm	DF UF UF	180° 140° 112°	150° 116° 92.8°	100° 77.4° 62.0°	MF	10 E 7 G N/S	N/A	75.0mm 2.95 in	77.3mm 3.04 in	443g 15.63 oz 0.977 lb	Included
8mm	f/3.5	HG DIG	CFE	Sigma	8mm F3.5 EX DG Circular Fisheye		899	f/22	13.5cm 5.31 in 0.443 ft	0.22× 1:4.6	16.6×11.0cm 12.8×8.56cm 10.3×6.85cm	8.00mm 10.3mm 12.9mm	CF UF UF	180° 140° 112°	180° 140° 112°	180° 140° 112°	RF DC	11 E 6 G 6 B	RG	73.5mm 2.89 in	68.6mm 2.70 in	400g 14.11 oz 0.882 lb	N/A
8mm	f/3.5	LG FLM	CFE	Zenit	Peleng Fisheye 3,5/8		409	f/16	22cm 8.66 in 0.722 ft	N/S	N/C	8.00mm 10.3mm 12.9mm	CF UF UF	180° 140° 112°	180° 140° 112°	180° 140° 112°	MF	N/S	26.5mm R	N/S	N/S	N/S	N/S
8mm	f/4.0	HG DIG	CFE	Sigma	8mm F4 EX DG Circular Fisheye		Disc	f/32	20cm 7.87 in 0.656 ft	0.072× 1:13.9	50.0×33.0cm 38.8×25.9cm 31.0×20.7cm	8.00mm 10.3mm 12.9mm	CF UF UF	180° 140° 112°	180° 140° 112°	180° 140° 112°	RF DC	10 E 6 G 5 B	RG	73.5mm 2.89 in	61.8mm 2.43 in	320g 11.29 oz 0.705 lb	N/S
8mm	f/4.0	HG FLM	CFE	Sigma	8mm F4 EX Circular Fisheye		Disc	f/32	20cm 7.87 in 0.656 ft	0.072× 1:13.9	50.0×33.0cm 38.8×25.9cm 31.0×20.7cm	8.00mm 10.3mm 12.9mm	CF UF UF	180° 140° 112°	180° 140° 112°	180° 140° 112°	RF DC	10 E 6 G 5 B	RG	73.5mm 2.89 in	61.8mm 2.43 in	320g 11.29 oz 0.705 lb	N/S
10mm	f/2.8	HG APS	UFE HSF	Sigma	10mm F2.8 EX DC HSM Fisheye		649	f/22	13.5cm 5.31 in 0.443 ft	0.30× 1:3.3	N/A N/A 7.36×4.92cm	N/A N/A 16.1mm	N/A N/A UF	N/A N/A 167°	N/A N/A 139°	N/A N/A 92.8°	FF HSM FTMF	12 E 7 G 7 B	RG	75.8mm 2.98 in	83.1mm 3.27 in	N/S	Integral

13mm

Prime Lens Table

15mm

Focal Length	Max Aper	Grade Use	Notes	Manuf	Designation	Image	Price	Min Aper	Min Focus	Max Mag	Minimum Field Size	35mm EqFL	AoV Range	Diag AoV	Longer AoV	Shorter AoV	Focus	Const	Filter	Diameter	Length	Weight	Hood
13mm	f/2.8	LG DIG		Vivitar	13mm F/2.8 Series 1		375	f/22	30.5cm 12.0 in 1.00 ft	0.22× 1:4.5	16.2×11.0cm 12.6×8.37cm 10.0×6.70cm	13.0mm 16.8mm 21.0mm	UW UW WA	118° 104° 91.8°	108° 94.0° 81.2°	85.4° 71.2° 59.6°	MF	14 E 12 G N/S	67mm	87.0mm 3.43 in	96.1mm 3.78 in	552g 19.47 oz 1.217 lb	Included
14mm	f/2.8	PG DIG	HSF	Canon Sep 2007	EF 14mm f/2.8L II USM		2359	f/22	20cm 7.87 in 0.656 ft	0.15× 1:6.7	24.0×16.0cm 18.6×12.4cm 14.9×9.93cm	14.0mm 18.1mm 22.6mm	UW UW WA	114° 100° 87.5°	104° 89.8° 77.1°	81.2° 67.2° 56.0°	RF RUSM FTMF	14 E 11 G 6 BC	RG	80mm 3.14 in	94mm 3.70 in	645g 22.75 oz 1.422 lb	Integral
14mm	f/2.8	PG FLM	HSF	Canon Dec 1991	EF 14mm f/2.8L USM		Disc	f/22	25cm 9.84 in 0.820 ft	0.10× 1:10	36.0×24.0cm 27.9×18.6cm 22.3×14.9cm	14.0mm 18.1mm 22.6mm	UW UW WA	114° 100° 87.5°	104° 89.8° 77.1°	81.2° 67.2° 56.0°	RF RUSM FTMF	13 E 10 G 5 B	RG	77mm 3.03 in	89mm 3.50 in	560g 19.75 oz 1.235 lb	Integral
14mm	f/2.8	LG FLM		Samyang Bower Pro-Optic Rokinon	14mm / F2.8		379	f/22	28cm 11.0 in 0.919 ft	N/S	N/C	14.0mm 18.1mm 22.6mm	UW UW WA	114° 100° 87.5°	104° 89.8° 77.1°	81.2° 67.2° 56.0°	MF	14 E 10 G N/S	N/A	87.0mm 3.43 in	96.1mm 3.78 in	552g 19.47 oz 1.217 lb	Integral
14mm	f/2.8	HG FLM	HSF	Sigma	14mm F2.8 EX Aspherical HSM		Disc	f/22	18cm 7.09 in 0.591 ft	0.20× 1:5	18.0×12.0cm 14.0×9.30cm 11.6×7.45cm	14.0mm 18.1mm 22.6mm	UW UW WA	114° 100° 87.5°	104° 89.8° 77.1°	81.2° 67.2° 56.0°	RF HSM	14 E 10 G 7 B	RG	82mm 3.23 in	90.5mm 3.56 in	630g 22.22 oz 1.389 lb	Integral
14mm	f/2.8	HG FLM		Tamron	SP AF 14mm F/2.8 Aspherical [IF]		Disc	f/22	20cm 7.87 in 0.656 ft	0.15× 1:6.5	23.4×15.6cm 18.1×12.1cm 14.5×9.69cm	14.0mm 18.1mm 22.6mm	UW UW WA	114° 100° 87.5°	104° 89.8° 77.1°	81.2° 67.2° 56.0°	IF DC	14 E 12 G N/S	RG	87mm 3.43 in	89mm 3.50 in	661g 23.32 oz 1.457 lb	Integral
15mm	f/2.8	SG FLM	DFE	Canon Apr 1987	EF 15mm f/2.8 Fisheye		1499	f/22	20cm 7.87 in 0.656 ft	0.14× 1:7.1	25.7×17.1cm 19.9×13.3cm 15.9×10.6cm	15.0mm 19.4mm 24.2mm	DF UF UF	180° 140° 112°	150° 116° 92.8°	100° 77.4° 62.0°	OLE AFD	8 E 7 G 5 B	RG	73.0mm 2.87 in	62.2mm 2.45 in	330g 11.64 oz 0.728 lb	Integral
15mm	f/2.8	HG DIG	DFE	Sigma	15mm F2.8 EX DG Diagonal Fisheye		609	f/22	15cm 5.91 in 0.492 ft	0.26× 1:3.8	13.7×9.12cm 10.6×7.07cm 8.47×5.66cm	15.0mm 19.4mm 24.2mm	DF UF UF	180° 140° 112°	150° 116° 92.8°	100° 77.4° 62.0°	RF DC	7 E 6 G 7 B	RG	73.5mm 2.89 in	70.5mm 2.78 in	330g 11.64 oz 0.728 lb	Integral
15mm	f/2.8	HG FLM	DFE	Sigma	15mm F2.8 EX Diagonal Fisheye		Disc	f/22	15cm 5.91 in 0.492 ft	0.26× 1:3.8	13.7×9.12cm 10.6×7.07cm 8.47×5.66cm	15.0mm 19.4mm 24.2mm	DF UF UF	180° 140° 112°	150° 116° 92.8°	100° 77.4° 62.0°	RF DC	7 E 6 G 7 B	RG	73.5mm 2.89 in	70.5mm 2.78 in	330g 11.64 oz 0.728 lb	Integral
15mm	f/2.8	HG FLM		Zeiss	Distagon T* 2,8/15 ZE		2950	f/22	25cm 9.84 in 0.820 ft	0.11× 1:9	32.4×21.6cm 25.1×16.7cm 20.1×13.4cm	15.0mm 19.4mm 24.2mm	UW WA WA	110° 96.4° 83.6°	100° 85.8° 73.2°	77.3° 63.6° 52.8°	MF	15 E 12 G N/S	95mm	103mm 4.06 in	116mm 4.57 in	820g 28.92 oz 1.808 lb	Integrated

16mm

Prime Lens Table

22mm

Focal Length	Max Aper	Grade Use	Notes	Manuf	Designation	Image	Price	Min Aper	Min Focus	Max Mag	Minimum Field Size	35mm EqFL	AoV Range	Diag AoV	Longer AoV	Shorter AoV	Focus	Const	Filter	Diameter	Length	Weight	Hood
16mm	f/2.8	LG FLM	DFE	Zenit	MC Zenitar-M 2,8/16 Fisheye		208	f/22	30cm 11.8 in 0.984 ft	N/S	N/C	16.0mm 20.7mm 25.8mm	DF UF UF	180° 140° 112°	150° 116° 92.8°	100° 77.4° 62.0°	MF	11 E 7 G N/S	26.5mm R	63mm 2.48 in	49mm 1.93 in	310g 10.93 oz 0.683 lb	Integral
17mm	f/3.5	HG FLM		Tokina	AT-X 17 AF PRO		Disc	f/22	25cm 9.84 in 0.820 ft	N/S	N/C	17.0mm 21.9mm 27.4mm	UW WA WA	104° 89.2° 76.5°	93.3° 78.7° 66.5°	70.4° 57.4° 47.3°	DC	11 E 8 G 9 B	77mm	88mm 3.46 in	65mm 2.56 in	440g 15.52 oz 0.970 lb	Included
18mm	f/3.5	HG FLM		Zeiss	Distagon T* 3,5/18 ZE		1395	f/22	30cm 11.8 in 0.984 ft	0.083× 1:12	43.2×28.8cm 33.5×22.3cm 26.8×17.9cm	18.0mm 23.2mm 29.0mm	UW WA WA	100° 85.9° 73.4°	90.0° 75.6° 63.6°	67.4° 54.6° 45.0°	MF	13 E 11 G N/S	82mm	87mm 3.43 in	61mm 2.40 in	510g 17.99 oz 1.124 lb	N/S
20mm	f/1.8	HG DIG		Sigma	20mm F1.8 EX DG ASP RF		629	f/22	20cm 7.87 in 0.656 ft	0.25× 1:4	14.4×9.60cm 11.2×10.9cm 8.92×5.96cm	20.0mm 25.8mm 32.3mm	WA WA WA	94.5° 79.9° 67.7°	84.0° 69.8° 58.3°	61.9° 49.9° 40.9°	IF DC	13 E 11 G 9 B	82mm	88.5mm 3.48 in	87mm 3.43 in	520g 18.34 oz 1.146 lb	LH875-02 Included
20mm	f/2.8	SG FLM	HSF	Canon Jun 1992	EF 20mm f/2.8 USM		489	f/22	25cm 9.84 in 0.820 ft	0.14× 1:7.1	25.7×17.1cm 19.9×13.3cm 15.9×10.6cm	20.0mm 25.8mm 32.3mm	WA WA WA	94.5° 79.9° 67.7°	84.0° 69.8° 58.3°	61.9° 49.9° 40.9°	RF RUSM FTMF	11 E 9 G 5 B	72mm	77.5mm 3.05 in	70.6mm 2.78 in	405g 14.29 oz 0.893 lb	EW-75II Optional
20mm	f/3.5	HG FLM		Voigtlander	20mm / F3.5 Color Skopar SLII		599	f/22	20cm 7.87 in 0.656 ft	0.16× 1:6.1	22.0×14.6cm 17.0×11.3cm 13.6×9.09cm	20.0mm 25.8mm 32.3mm	WA WA WA	94.5° 79.9° 67.7°	84.0° 69.8° 58.3°	61.9° 49.9° 40.9°	MF	9 E 6 G 9 B	52mm	63mm 2.48 in	28.8mm 1.13 in	205g 7.23 oz 0.452 lb	LH20N Optional
20mm	f/3.5	LG FLM		Zenit	MC Mir-20M 3,5/20		280	f/16	18cm 7.09 in 0.591 ft	N/S	N/C	20.0mm 25.8mm 32.3mm	WA WA WA	94.5° 79.9° 67.7°	84.0° 69.8° 58.3°	61.9° 49.9° 40.9°	MF	9 E 8 G N/S	28mm R	78mm 3.07 in	55mm 2.17 in	390g 13.76 oz 0.860 lb	Integral
21mm	f/2.8	HG FLM		Zeiss	Distagon T* 2,8/21 ZE		1843	f/22	22cm 8.66 in 0.722 ft	0.20× 1:5	18.0×12.0cm 14.0×9.30cm 11.6×7.45cm	21.0mm 27.1mm 33.9mm	WA WA WA	91.7° 77.2° 65.1°	81.2° 67.2° 55.9°	59.5° 47.8° 39.1°	MF	16 E 13 G N/S	82mm	87mm 3.43 in	87mm 3.43 in	720g 25.40 oz 1.587 lb	N/S
22mm	f/2.0	SG EFM	HSF	Canon	EF-M 22mm f/2 STM		249	f/22	15cm 5.91 in 0.492 ft	0.21× 1:4.8	N/A N/A 10.6×7.10cm	N/A N/A 35.5mm	N/A N/A NO	N/A N/A 62.7°	N/A N/A 53.8°	N/A N/A 37.4°	IF STM	7 E 6 G 7 BC	43mm	60.9mm 2.40 in	23.7mm 0.933 in	105g 3.70 oz 0.231 lb	EW-43 Optional

24mm

Prime Lens Table

25mm

Focal Length	Max Aper	Grade Use	Notes	Manuf	Designation	Image	Price	Min Aper	Min Focus	Max Mag	Minimum Field Size	35mm EqFL	AoV Range	Diag AoV	Longer AoV	Shorter AoV	Focus	Const	Filter	Diameter	Length	Weight	Hood
24mm	f/1.4	PG DIG	HSF	Canon Dec 2008	EF 24mm f/1.4L II USM		1749	f/22	25cm 9.84 in 0.820 ft	0.17× 1:5.9	21.2×14.1cm 16.4×10.9cm 13.1×8.77cm	24.0mm 31.0mm 38.7mm	WA WA NO	84.1° 69.9° 58.4°	73.7° 60.3° 49.8°	53.1° 42.4° 34.5°	RF RUSM FTMF	13 E 10 G 8 BC	77mm	83.5mm 3.29 in	86.9mm 3.42 in	650g 22.93 oz 1.433 lb	EW-83K Included
24mm	f/1.4	PG FLM	HSF	Canon Dec 1997	EF 24mm f/1.4L USM		Disc	f/22	25cm 9.84 in 0.820 ft	0.16× 1:6.3	21.2×14.1cm 16.4×10.9cm 13.1×8.77cm	24.0mm 31.0mm 38.7mm	WA WA NO	84.1° 69.9° 58.4°	73.7° 60.3° 49.8°	53.1° 42.4° 34.5°	RF RUSM FTMF	11 E 9 G 7 B	77mm	83.5mm 3.29 in	77.4mm 3.05 in	550g 19.40 oz 1.213 lb	EW-83DII Included
24mm	f/1.4	LG FLM		Samyang Bower Pro-Optic Rokinon	24mm / F1.4		615	f/22	25cm 9.84 in 0.820 ft	N/S	N/C	24.0mm 31.0mm 38.7mm	WA WA NO	84.1° 69.9° 58.4°	73.7° 60.3° 49.8°	53.1° 42.4° 34.5°	MF	13 E 12 G N/S	77mm	83.0mm 3.27 in	97.5mm 3.84 in	N/S	Included
24mm	f/1.8	HG DIG		Sigma	24mm F1.8 EX DG ASP Macro		549	f/22	18cm 7.09 in 0.591 ft	0.37× 1:2.7	9.72×6.48cm 7.53×5.02cm 6.02×4.02cm	24.0mm 31.0mm 38.7mm	WA WA NO	84.1° 69.9° 58.4°	73.7° 60.3° 49.8°	53.1° 42.4° 34.5°	IF DC	10 E 9 G 9 B	77mm	83mm 3.27 in	80mm 3.14 in	485g 17.11 oz 1.069 lb	LH825-03 Included
24mm	f/2.8	CG DIG	HSF IS4	Canon	EF 24mm f/2.8 IS USM		799	f/22	20cm 7.87 in 0.656 ft	0.23× 1:4.3	15.7×10.4cm 12.1×8.09cm 9.70×6.48cm	24.0mm 31.0mm 38.7mm	WA WA NO	84.1° 69.9° 58.4°	73.7° 60.3° 49.8°	53.1° 42.4° 34.5°	RF RUSM FTMF	11 E 9 G 7 BC	58mm	68.4mm 2.69 in	55.7mm 2.19 in	280g 9.88 oz 0.617 lb	EW-65B Optional
24mm	f/2.8	SG FLM		Canon Nov 1988	EF 24mm f/2.8		Disc	f/22	25cm 9.84 in 0.820 ft	0.16× 1:6.3	21.2×14.1cm 16.4×10.9cm 13.1×8.77cm	24.0mm 31.0mm 38.7mm	WA WA NO	84.1° 69.9° 58.4°	73.7° 60.3° 49.8°	53.1° 42.4° 34.5°	RF AFD	10 E 10 G 6 B	58mm	67.5mm 2.66 in	48.5mm 1.91 in	270g 9.52 oz 0.595 lb	EW-60II Optional
24mm	f/2.8	LG FLM		Phoenix	AF 24mm f/2.8		Disc	N/S	N/S	N/S	N/C	24.0mm 31.0mm 38.7mm	WA WA NO	84.1° 69.9° 58.4°	73.7° 60.3° 49.8°	53.1° 42.4° 34.5°	DC	N/S	N/S	N/S	N/S	N/S	N/S
24mm	f/2.8	LG FLM		Quantaray	24mm F2.8		Disc	N/S	15.2cm 6 in 0.500 ft	0.25× 1:4	14.4×9.60cm 11.2×10.9cm 8.92×5.96cm	24.0mm 31.0mm 38.7mm	WA WA NO	84.1° 69.9° 58.4°	73.7° 60.3° 49.8°	53.1° 42.4° 34.5°	DC	N/S	52mm	N/S	42.4mm 1.67 in	249g 8.8 oz 0.550 lb	Optional
25mm	f/2.0	HG FLM		Zeiss	Distagon T* 2/25 ZE		1699	f/22	25cm 9.84 in 0.820 ft	0.17× 1:5.9	21.2×14.2cm 16.5×11.0cm 13.2×8.79cm	25.0mm 32.3mm 40.3mm	WA WA NO	81.7° 67.7° 56.4°	71.5° 58.3° 48.1°	51.3° 40.8° 33.2°	MF	11 E 10 G N/S	67mm	73mm 2.87 in	74mm 2.91 in	600g 21.16 oz 1.323 lb	N/S

28mm

Prime Lens Table

35mm

Focal Length	Max Aper	Grade Use	Notes	Manuf	Designation	Image	Price	Min Aper	Min Focus	Max Mag	Minimum Field Size	35mm EqFL	AoV Range	Diag AoV	Longer AoV	Shorter AoV	Focus	Const	Filter	Diameter	Length	Weight	Hood
28mm	f/1.8	SGFLM	HSF	Canon Sep 1995	EF 28mm f/1.8 USM		509	f/22	25cm 9.84 in 0.820 ft	0.18× 1:5.6	20.0×13.3cm 15.5×10.3cm 12.4×8.28cm	28.0mm 36.1mm 45.2mm	WA WA NO	75.4° 61.8° 51.2°	65.5° 53.0° 43.4°	46.4° 36.7° 29.8°	RF RUSM FTMF	10 E 9 G 7 B	58mm	76.2mm 3.00 in	55.6mm 2.19 in	310g 10.93 oz 0.683 lb	EW-63II Optional
28mm	f/1.8	HGDIG		Sigma	28mm F1.8 EX DG ASP Macro		449	f/22	20cm 7.87 in 0.656 ft	0.35× 1:2.9	10.4×6.96cm 8.09×5.39cm 6.47×4.32cm	28.0mm 36.1mm 45.2mm	WA NO NO	75.4° 61.8° 51.2°	65.5° 53.0° 43.4°	46.4° 36.7° 29.8°	IF DC	10 E 9 G 9 B	77mm	83.5mm 3.29 in	80mm 3.14 in	480g 16.93 oz 1.058 lb	LH825-03 Included
28mm	f/2.0	HGFLM		Zeiss	Distagon T* 2/28 ZE		1283	f/22	24cm 9.45 in 0.787 ft	0.21× 1:4.7	16.9×11.3cm 13.1×8.74cm 10.5×7.00cm	28.0mm 36.1mm 45.2mm	WA NO NO	75.4° 61.8° 51.2°	65.5° 53.0° 43.4°	46.4° 36.7° 29.8°	MF	10 E 8 G N/S	58mm	72.4mm 2.85 in	72mm 2.83 in	580g 20.46 oz 1.279 lb	N/S
28mm	f/2.8	CGDIG	HSF IS4	Canon	EF 28mm f/2.8 IS USM		799	f/22	23cm 9.06 in 0.755 ft	0.20× 1:5.0	18.0×12.0cm 14.0×9.30cm 11.2×7.45cm	28.0mm 36.1mm 45.2mm	WA NO NO	75.4° 61.8° 51.2°	65.5° 53.0° 43.4°	46.4° 36.7° 29.8°	RF RUSM FTMF	9 E 7 G 7 BC	58mm	68.4mm 2.69 in	51.5mm 2.03 in	260g 9.17 oz 0.573 lb	EW-65B Optional
28mm	f/2.8	SGFLM		Canon Apr 1987	EF 28mm f/2.8		Disc	f/22	30cm 11.8 in 0.984 ft	0.13× 1:7.7	27.7×18.5cm 21.5×14.3cm 17.2×11.5cm	28.0mm 36.1mm 45.2mm	WA NO NO	75.4° 61.8° 51.2°	65.5° 53.0° 43.4°	46.4° 36.7° 29.8°	OLE AFD	5 E 5 G 5 B	52mm	67.4mm 2.65 in	42.5mm 1.67 in	185g 6.53 oz 0.408 lb	EW-65II Optional
28mm	f/2.8	HGFLM		Voigtlander	28mm / F 2,8 Color Skopar SLII		625	f/22	22cm 8.66 in 0.722 ft	0.20× 1:5	18.0×12.0cm 14.0×9.30cm 11.6×7.45cm	28.0mm 36.1mm 45.2mm	WA NO NO	75.4° 61.8° 51.2°	65.5° 53.0° 43.4°	46.4° 36.7° 29.8°	MF	7 E 6 G 9 B	52mm	70.0mm 2.76 in	27.0mm 1.06 in	230g 8.11 oz 0.507 lb	LH 28N Optional
30mm	f/1.4	HGAPS	HSF	Sigma	30mm F1.4 EX DC HSM		489	f/16	40cm 15.8 in 1.31 ft	0.096× 1:10.4	N/A N/A 23.2×15.5cm	N/A N/A 48.4mm	N/A N/A NO	N/A N/A 48.2°	N/A N/A 40.8°	N/A N/A 27.9°	IF HSM	7 E 7 G 8 B	62mm	76.6mm 3.02 in	59mm 2.32 in	430g 15.17 oz 0.948 lb	LH715-01 Included
30mm	f/3.5	LGFLM	DFE	Zenit	Zodiak 8 (Arsat) Fisheye 3,5/30		499	f/22	30cm 11.8 in 0.984 ft	N/S	N/C	30.0mm 38.7mm 48.4mm	DF UF UF	180° 140° 112°	150° 116° 92.8°	100° 77.4° 62.0°	MF	10 E 6 G N/S	38mm R	110mm 4.33 in	96mm 3.78 in	1000g 35.27 oz 2.205 lb	Integral
35mm	f/1.4	PGFLM	HSF	Canon Dec 1998	EF 35mm f/1.4L USM		1479	f/22	30cm 11.8 in 0.984 ft	0.18× 1:5.6	20.0×13.3cm 15.5×10.3cm 12.4×8.28cm	35.0mm 45.2mm 56.5mm	WA NO NO	63.4° 51.2° 41.9°	54.4° 43.5° 35.3°	37.8° 29.8° 24.0°	RF RUSM FTMF	11 E 9 G 8 B	72mm	79.0mm 3.11 in	86.0mm 3.39 in	580g 20.46 oz 1.279 lb	EW-78C Included
35mm	f/1.4	LGFLM		Samyang Bower Pro-Optic Rokinon Vivitar	35mm / F1.4		449	f/22	30cm 11.8 in 0.984 ft	N/S	N/C	35.0mm 45.2mm 56.5mm	WA NO NO	63.4° 51.2° 41.9°	54.4° 43.5° 35.3°	37.8° 29.8° 24.0°	MF	12 E 10 G N/S	77mm	83.0mm 3.27 in	111.5mm 4.39 in	712g 25.12 oz 1.570 lb	Included

35mm

Prime Lens Table

40mm

Focal Length	Max Aper	Grade Use	Notes	Manuf	Designation	Image	Price	Min Aper	Min Focus	Max Mag	Minimum Field Size	35mm EqFL	AoV Range	Diag AoV	Longer AoV	Shorter AoV	Focus	Const	Filter	Diameter	Length	Weight	Hood
35mm	f/1.4	LG DIG	HSF	Sigma	35mm F1.4 DG HSM		899	f/16	30cm 11.8 in 0.984 ft	0.19× 1:5.2	18.7×12.5cm 14.5×9.67cm 11.6×7.75cm	35.0mm 45.2mm 56.5mm	WA NO NO	63.4° 51.2° 41.9°	54.4° 43.5° 35.3°	37.8° 29.8° 24.0°	IF HSM	13 E 11 G 9 B	67mm	77mm 3.03 in	94mm 3.70 in	N/S	LH730-03 Included
35mm	f/1.4	HG FLM		Zeiss	Distagon T* 1,4/35 ZE		1843	f/16	30cm 11.8 in 0.984 ft	0.20× 1:5	18.0×12.0cm 14.0×9.30cm 11.6×7.45cm	35.0mm 45.2mm 56.5mm	WA NO NO	63.4° 51.2° 41.9°	54.4° 43.5° 35.3°	37.8° 29.8° 24.0°	MF	11 E 9 G N/S	72mm	78mm 3.07 in	98mm 3.86 in	850g 29.98 oz 1.874 lb	N/S
35mm	f/2.0	CG DIG	HSF IS4	Canon	EF 35mm f/2 IS USM		849	f/22	24cm 9.45 in 0.787 ft	0.24× 1:4.2	15.0×10.0cm 11.6×7.75cm 9.29×6.21cm	35.0mm 45.2mm 56.5mm	WA NO NO	63.4° 51.2° 41.9°	54.4° 43.5° 35.3°	37.8° 29.8° 24.0°	RF RUSM FTMF	10 E 8 G 8 BC	67mm	77.9mm 3.07 in	62.6mm 2.46 in	335g 11.82 oz 0.739 lb	EW-72 Optional
35mm	f/2.0	SG FLM		Canon Oct 1990	EF 35mm f/2		289	f/22	25cm 9.84 in 0.820 ft	0.23× 1:4.3	15.7×10.4cm 12.1×8.09cm 9.70×6.48cm	35.0mm 45.2mm 56.5mm	WA NO NO	63.4° 51.2° 41.9°	54.4° 43.5° 35.3°	37.8° 29.8° 24.0°	OLE AFD	7 E 5 G 5 B	52mm	67.4mm 2.65 in	42.5mm 1.67 in	210g 7.41 oz 0.463 lb	EW-65II Optional
35mm	f/2.0	HG FLM		Zeiss	Distagon T* 2/35 ZE		1117	f/22	30cm 11.8 in 0.984 ft	0.19× 1:5.3	18.7×12.5cm 14.5×9.67cm 11.6×7.75cm	35.0mm 45.2mm 56.5mm	WA NO NO	63.4° 51.2° 41.9°	54.4° 43.5° 35.3°	37.8° 29.8° 24.0°	MF	9 E 7 G N/S	58mm	72.7mm 2.86 in	75mm 2.95 in	570g 20.11 oz 1.257 lb	N/S
35mm	f/2.8	HG APS	MA	Tokina	AT-X M35 PRO DX		Disc	f/22	14cm 5.51 in 0.459 ft	Macro 1.0× 1:1	N/A N/A 2.23×1.49cm	N/A N/A 56.5mm	N/A N/A NO	N/A N/A 41.9°	N/A N/A 35.3°	N/A N/A 24.0°	DC	9 E 8 G 9 B	52mm	73.2mm 2.88 in	60.4mm 2.38 in	340g 11.99 oz 0.750 lb	MH-522 Included
37mm	f/2.8	LG FLM		Zenit	Mir-IV 2,8/37		95	f/16	70cm 27.8 in 2.30 ft	N/S	N/C	37.0mm 47.7mm 59.7mm	NO NO NO	60.6° 48.8° 39.8°	51.9° 41.3° 33.5°	35.9° 28.2° 22.8°	MF	6 E N/S N/S	49mm	59mm 2.32 in	56mm 2.20 in	200g 7.05 oz 0.441 lb	Optional
40mm	f/2.0	HG FLM		Voigtlander	40mm / F2.0 Ultron SLII		539	f/22	38cm 15.0 in 1.25 ft	0.14× 1:7	25.2×16.8cm 19.5×13.0cm 15.6×10.4cm	40.0mm 51.6mm 64.5mm	NO NO NO	56.8° 45.5° 37.1°	48.5° 38.5° 31.2°	33.4° 26.2° 21.1°	MF	6 E 5 G 9 B	52mm	63mm 2.48 in	24.5mm 0.96 in	200g 7.05 oz 0.441 lb	LH40N Optional
40mm	f/2.8	CG DIG	HSF	Canon	EF 40mm f/2.8 STM		199	f/22	30cm 11.8 in 0.984 ft	0.18× 1:5.6	20.0×13.3cm 15.5×10.3cm 12.4×8.28cm	40.0mm 51.6mm 64.5mm	NO NO NO	56.8° 45.5° 37.1°	48.5° 38.5° 31.2°	33.4° 26.2° 21.1°	IF STM	6 E 4 G 7 BC	52mm	68.2mm 2.69 in	22.8mm 0.898 in	130g 4.59 oz 0.287 lb	ES-52 Optional

50mm

Prime Lens Table

50mm

Focal Length	Max Aper	Grade Use	Notes	Manuf	Designation	Image	Price	Min Aper	Min Focus	Max Mag	Minimum Field Size	35mm EqFL	AoV Range	Diag AoV	Longer AoV	Shorter AoV	Focus	Const	Filter	Diameter	Length	Weight	Hood
50mm	f/1.0	PG FLM	HSF	Canon Sep 1989	EF 50mm f/1L USM		Disc	f/16	95cm 37.4 in 3.12 ft	0.11× 1:9.1	32.7×21.8cm 25.4×16.9cm 20.3×13.5cm	50.0mm 64.5mm 80.7mm	NO NO MT	46.8° 37.1° 30.0°	39.6° 31.2° 25.1°	27.0° 21.1° 16.9°	FLE RUSM FTMF	11 E 9 G 8 B	72mm	91.5mm 3.60 in	81.5mm 3.21 in	985g 34.74 oz 2.172 lb	ES-79II Included
50mm	f/1.2	PG DIG	HSF	Canon Jan 2007	EF 50mm f/1.2L USM		1619	f/16	45cm 17.7 in 1.48 ft	0.15× 1:6.7	24.0×16.0cm 18.6×12.4cm 14.9×9.93cm	50.0mm 64.5mm 80.7mm	NO NO MT	46.8° 37.1° 30.0°	39.6° 31.2° 25.1°	27.0° 21.1° 16.9°	OLE RUSM FTMF	8 E 6 G 8 BC	72mm	85.8mm 3.38 in	65.5mm 2.58 in	590g 20.81 oz 1.301 lb	ES-78 Included
50mm	f/1.4	SG FLM	HSF	Canon Jun 1993	EF 50mm f/1.4 USM		399	f/22	45cm 17.7 in 1.48 ft	0.15× 1:6.7	24.0×16.0cm 18.6×12.4cm 14.9×9.93cm	50.0mm 64.5mm 80.7mm	NO NO MT	46.8° 37.1° 30.0°	39.6° 31.2° 25.1°	27.0° 21.1° 16.9°	OLE MUSM	7 E 6 G 8 BC	58mm	73.8mm 2.91 in	50.5mm 1.99 in	290g 10.23 oz 0.639 lb	ES-71II Optional
50mm	f/1.4	HG DIG	HSF	Sigma	50mm F1.4 EX DG HSM		499	f/16	45cm 17.7 in 1.48 ft	0.14× 1:7.4	26.4×17.8cm 20.6×13.8cm 16.5×11.0cm	50.0mm 64.5mm 80.7mm	NO NO MT	46.8° 37.1° 30.0°	39.6° 31.2° 25.1°	27.0° 21.1° 16.9°	IF HSM	8 E 6 G 9 B	77mm	84.5mm 3.33 in	68.2mm 2.69 in	505g 17.81 oz 1.113 lb	LH829-01 Included
50mm	f/1.4	HG FLM		Zeiss	Planar T* 1,4/50 ZE		725	f/16	45cm 17.7 in 1.48 ft	0.15× 1:6.7	24.1×16.1cm 18.7×12.5cm 14.9×9.98cm	50.0mm 64.5mm 80.7mm	NO NO MT	46.8° 37.1° 30.0°	39.6° 31.2° 25.1°	27.0° 21.1° 16.9°	MF	7 E 6 G N/S	58mm	71.3mm 2.81 in	48mm 1.89 in	380g 13.40 oz 0.838 lb	N/S
50mm	f/1.8	CG FLM		Canon Dec 1990	EF 50mm f/1.8 II		125	f/22	45cm 17.7 in 1.48 ft	0.15× 1:6.7	24.0×16.0cm 18.6×12.4cm 14.9×9.93cm	50.0mm 64.5mm 80.7mm	NO NO MT	46.8° 37.1° 30.0°	39.6° 31.2° 25.1°	27.0° 21.1° 16.9°	OLE MM	6 E 5 G 5 BC	52mm	68.2mm 2.69 in	41.0mm 1.61 in	130g 4.59 oz 0.287 lb	ES-62 Optional
50mm	f/1.8	CG FLM		Canon Mar 1987	EF 50mm f/1.8		Disc	f/22	45cm 17.7 in 1.48 ft	0.15× 1:6.7	24.0×16.0cm 18.6×12.4cm 14.9×9.93cm	50.0mm 64.5mm 80.7mm	NO NO MT	46.8° 37.1° 30.0°	39.6° 31.2° 25.1°	27.0° 21.1° 16.9°	OLE MM	6 E 5 G 5 B	52mm	67.4mm 2.65 in	67.4mm 2.65 in	190g 6.70 oz 0.419 lb	ES-62 Optional
50mm	f/2.0	HG FLM	MA	Zeiss	Makro-Planar T* 2/50 ZE		1283	f/22	24cm 9.45 in 0.787 ft	Macro 0.5× 1:2	7.20×4.80cm 5.58×3.72cm 4.46×2.98cm	50.0mm 64.5mm 80.7mm	NO NO MT	46.8° 37.1° 30.0°	39.6° 31.2° 25.1°	27.0° 21.1° 16.9°	MF	8 E 6 G N/S	67mm	75.4mm 2.97 in	67mm 2.64 in	570g 20.11 oz 1.257 lb	N/S
50mm	f/2.5	SG FLM	MA LSC	Canon Dec 1987	EF 50mm f/2.5 Compact Macro		299	f/32	23cm 9.06 in 0.755 ft	Macro 0.50× 1:2.0	7.20×4.80cm 5.58×3.72cm 4.46×2.98cm	50.0mm 64.5mm 80.7mm	NO NO MT	46.8° 37.1° 30.0°	39.6° 31.2° 25.1°	27.0° 21.1° 16.9°	FLE AFD	9 E 8 G 6 B	52mm	67.6mm 2.66 in	63.0mm 2.48 in	280g 9.88 oz 0.617 lb	N/S
50mm	f/2.8	LG FLM	MA	Quantaray	50mm f/2.8 AF Macro		Disc	f/32	18.8cm 7.40 in 0.617 ft	Macro 1.0× 1:1	3.60×2.40cm 2.79×1.86cm 2.23×1.49cm	50.0mm 64.5mm 80.7mm	NO NO MT	46.8° 37.1° 30.0°	39.6° 31.2° 25.1°	27.0° 21.1° 16.9°	DC	10 E 9 G N/S	55mm	71.1mm 2.80 in	63.5mm 2.50 in	315g 11.11 oz 0.694 lb	Optional

50mm

Prime Lens Table

70mm

Focal Length	Max Aper	Grade Use	Notes	Manuf	Designation	Image	Price	Min Aper	Min Focus	Max Mag	Minimum Field Size	35mm EqFL	AoV Range	Diag AoV	Longer AoV	Shorter AoV	Focus	Const	Filter	Diameter	Length	Weight	Hood
50mm	f/2.8	HG DIG	MA HSF	Sigma	50mm F2.8 EX DG HSM Macro		Disc	f/45	14cm 5.51 in 0.459 ft	Macro 1.0× 1:1	3.60×2.40cm 2.79×1.86cm 2.23×1.49cm	50.0mm 64.5mm 80.7mm	NO NO MT	46.8° 37.1° 30.0°	39.6° 31.2° 25.1°	27.0° 21.1° 16.9°	IF HSM	10 E 9 G 7 B	55mm	71.5mm 2.81 in	64mm 2.52 in	320g 11.29 oz 0.705 lb	Included
50mm	f/2.8	HG DIG	MA	Sigma	50mm F2.8 EX DG Macro		369	f/45	18.8cm 7.40 in 0.617 ft	Macro 1.0× 1:1	3.60×2.40cm 2.79×1.86cm 2.23×1.49cm	50.0mm 64.5mm 80.7mm	NO NO MT	46.8° 37.1° 30.0°	39.6° 31.2° 25.1°	27.0° 21.1° 16.9°	IF DC	10 E 9 G 7 B	55mm	71.5mm 2.81 in	64mm 2.52 in	320g 11.29 oz 0.705 lb	LH550-02 Included
50mm	f/2.8	HG FLM	MA	Sigma	50mm F2.8 EX Macro		Disc	f/45	18.8cm 7.40 in 0.617 ft	Macro 1.0× 1:1	3.60×2.40cm 2.79×1.86cm 2.23×1.49cm	50.0mm 64.5mm 80.7mm	NO NO MT	46.8° 37.1° 30.0°	39.6° 31.2° 25.1°	27.0° 21.1° 16.9°	IF DC	10 E 9 G 7 B	55mm	71.5mm 2.81 in	64mm 2.52 in	320g 11.29 oz 0.705 lb	LH550-02 Included
50mm	f/2.8	LG FLM		Zenit	Industar 61L/Z 2,8/50		110	f/16	30cm 11.8 in 0.984 ft	N/S	N/C	50.0mm 64.5mm 80.7mm	NO NO MT	46.8° 37.1° 30.0°	39.6° 31.2° 25.1°	27.0° 21.1° 16.9°	MF	N/S	49mm	57mm 2.24 in	59mm 2.32 in	225g 7.94 oz 0.496 lb	Optional
58mm	f/1.4	HG FLM		Voigtlander	58mm / F1.4 Nokton SLII		489	f/16	45cm 17.7 in 1.48 ft	0.17× 1:5.8	20.9×13.9cm 16.2×10.8cm 12.9×8.64cm	58.0mm 74.8mm 93.6mm	NO MT MT	40.9° 32.2° 26.0°	34.5° 27.0° 21.8°	23.4° 18.2° 14.6°	MF	7 E 6 G 9 B	58mm	64.4mm 2.54 in	47.5mm 1.87 in	320g 11.29 oz 0.705 lb	LH-58N Optional
60mm	f/2.0	HG APS	MA	Tamron	SP AF 60mm F/2 Di-II LD [IF] 1:1 Macro		524	N/S	23cm 9.06 in 0.755 ft	Macro 1.0× 1:1	N/A N/A 2.23×1.49cm	N/A N/A 96.8mm	N/A N/A MT	N/A N/A 25.2°	N/A N/A 21.1°	N/A N/A 14.2°	IF DC	14 E 10 G 7 B	55mm	73mm 2.87 in	80mm 3.14 in	400g 14.11 oz 0.882 lb	Included
60mm	f/2.8	SG APS	MA HSF	Canon Mar 2005	EF-S 60mm f/2.8 Macro USM		469	f/32	20cm 7.87 in 0.656 ft	Macro 1.00× 1:1.0	N/A N/A 2.23×1.49cm	N/A N/A 96.8mm	N/A N/A MT	N/A N/A 25.2°	N/A N/A 21.1°	N/A N/A 14.2°	IF RUSM FTMF	12 E 8 G 7 B	52mm	73mm 2.87 in	69.8mm 2.75 in	335g 11.82 oz 0.739 lb	ET-67B Optional
65mm	f/2.8	SG FLM	MA	Canon Sep 1999	MP-E 65mm f/2.8 1-5x Macro Photo		1049	f/16	23.8cm 9.37 in 0.781 ft	Macro 5.0× 1:0.20	3.60×2.40cm 2.79×1.86cm 2.23×1.49cm	65.0mm 83.9mm 105mm	NO MT MT	36.8° 28.9° 23.3°	31.0° 24.2° 19.5°	20.9° 16.3° 13.1°	IF MF	10 E 8 G 6 B	58mm	81.0mm 3.19 in	98.0mm 3.86 in	730g 25.75 oz 1.609 lb	MP-E65 Optional
70mm	f/2.8	HG DIG	MA	Sigma	70mm F2.8 EX DG Macro		499	f/22	25.7cm 10.1 in 0.843 ft	Macro 1.0× 1:1	3.60×2.40cm 2.79×1.86cm 2.23×1.49cm	70.0mm 90.3mm 113mm	NO MT MT	34.3° 26.9° 21.7°	28.8° 22.5° 18.1°	19.5° 15.1° 12.2°	IF DC	10 E 9 G 9 B	62mm	76mm 2.99 in	95mm 3.74 in	525g 18.52 oz 1.157 lb	LH620-01 Included
70mm	f/3.5	SG FLM	MA LSC	Canon Dec 1987	EF 50mm f/2.5 Compact Macro with Life-Size Converter EF		588	f/45	24cm 9.45 in 0.787 ft	Macro 1.00× 1:1.0	3.60×2.40cm 2.79×1.86cm 2.23×1.49cm	70.0mm 90.3mm 113mm	MT MT MT	34.3° 26.9° 21.7°	28.8° 22.5° 18.1°	19.5° 15.1° 12.2°	FLE AFD	13 E 11 G 6 B	52mm	67.6mm 2.66 in	97.9mm 3.85 in	440g 15.52 oz 0.970 lb	N/S

85mm

Prime Lens Table

90mm

Focal Length	Max Aper	Grade Use	Notes	Manuf	Designation	Image	Price	Min Aper	Min Focus	Max Mag	Minimum Field Size	35mm EqFL	AoV Range	Diag AoV	Longer AoV	Shorter AoV	Focus	Const	Filter	Diameter	Length	Weight	Hood
85mm	f/1.2	PG DIG	HSF	Canon Mar 2006	EF 85mm f/1.2L II USM		2199	f/16	95cm 37.4 in 3.12 ft	0.11× 1:9.1	32.7×21.8cm 25.4×16.9cm 20.3×13.5cm	85.0mm 110mm 137mm	MT MT MT	28.6° 22.3° 17.9°	23.9° 18.6° 14.9°	16.1° 12.5° 10.0°	FLE RUSM FTMF	8 E 7 G 8 BC	72mm	91.5mm 3.60 in	84mm 3.31 in	1025g 36.16 oz 2.260 lb	ES-79II Included
85mm	f/1.2	PG FLM	HSF	Canon Sep 1989	EF-85 f/1.2L USM		Disc	f/16	95cm 37.4 in 3.12 ft	0.11× 1:9.1	32.7×21.8cm 25.4×16.9cm 20.3×13.5cm	85.0mm 110mm 137mm	MT MT MT	28.6° 22.3° 17.9°	23.9° 18.6° 14.9°	16.1° 12.5° 10.0°	FLE RUSM FTMF	8 E 7 G 8 B	72mm	91.5mm 3.60 in	84mm 3.31 in	1025g 36.16 oz 2.260 lb	ES-79II Included
85mm	f/1.4	LG FLM		Samyang Bower Pro-Optic Rokinon	85mm / F1.4 Aspherical IF		289	f/22	100cm 39.4 in 3.28 ft	N/S	N/C	85.0mm 110mm 137mm	MT MT MT	28.6° 22.3° 17.9°	23.9° 18.6° 14.9°	16.1° 12.5° 10.0°	MF	9 E 7 G N/S	72mm	78.0mm 3.07 in	74.7mm 2.94 in	539g 19.01 oz 1.188 lb	Included
85mm	f/1.4	HG DIG	HSF	Sigma	85mm F1.4 EX DG HSM		969	f/16	85cm 33.5 in 2.79 ft	0.12× 1:8.6	31.0×20.6cm 24.0×16.0cm 19.2×12.8cm	85.0mm 110mm 137mm	MT MT MT	28.6° 22.3° 17.9°	23.9° 18.6° 14.9°	16.1° 12.5° 10.0°	RF HSM	11 E 8 G 9 BC	77mm	86.4mm 3.40 in	87.6mm 3.45 in	725g 25.57 oz 1.598 lb	LH850-03 Included
85mm	f/1.4	LG DIG		Vivitar	85mm F/1.4		Disc	N/S	100cm 39.4 in 3.28 ft	N/S	N/C	85.0mm 110mm 137mm	MT MT MT	28.6° 22.3° 17.9°	23.9° 18.6° 14.9°	16.1° 12.5° 10.0°	IF MF	9 E 7 G N/S	72mm	76mm 2.99 in	71.2mm 2.80 in	510g 17.99 oz 1.124 lb	Included
85mm	f/1.4	HG FLM		Zeiss	Planar T* 1,4/85 ZE		1283	f/16	100cm 39.4 in 3.28 ft	0.10× 1:10	36.0×24.0cm 27.9×18.6cm 22.3×14.9cm	85.0mm 110mm 137mm	MT MT MT	28.6° 22.3° 17.9°	23.9° 18.6° 14.9°	16.1° 12.5° 10.0°	MF	6 E 5 G N/S	72mm	78.2mm 3.08 in	65mm 2.56 in	670g 23.63 oz 1.477 lb	N/S
85mm	f/1.8	SG FLM	HSF	Canon Jul 1992	EF 85mm f/1.8 USM		419	f/22	85cm 33.5 in 2.79 ft	0.13× 1:7.7	27.7×18.5cm 21.5×14.3cm 17.2×11.5cm	85.0mm 110mm 137mm	MT MT MT	28.6° 22.3° 17.9°	23.9° 18.6° 14.9°	16.1° 12.5° 10.0°	RF RUSM FTMF	9 E 7 G 8 BC	58mm	75.0mm 2.95 in	71.5mm 2.81 in	425g 14.99 oz 0.937 lb	ET-65III Optional
85mm	f/2.0	LG FLM		Zenit	MC Jupiter-9 2/85		270	f/16	80cm 31.5 in 2.63 ft	N/S	N/C	85.0mm 110mm 137mm	MT MT MT	28.6° 22.3° 17.9°	23.9° 18.6° 14.9°	16.1° 12.5° 10.0°	MF	N/S	49mm	66mm 2.60 in	72mm 2.83 in	380g 13.40 oz 0.838 lb	Optional
90mm	f/2.8	HG DIG	MA HSF IS	Tamron	SP AF 90mm F/2.8 Di VC USD 1:1 Macro		749	f/32	30cm 11.8 in 0.984 ft	Macro 1.0× 1:1	3.60×2.40cm 2.79×1.86cm 2.23×1.49cm	90.0mm 116mm 145mm	MT MT TE	27.0° 21.1° 16.9°	22.6° 17.6° 14.1°	15.2° 11.8° 9.46°	IF USD	14 E 11 G 9 BC	58mm	76.4mm 3.01 in	114.5mm 4.51 in	550g 19.40 oz 1.213 lb	Included
90mm	f/2.8	HG DIG	MA	Tamron	SP AF 90mm F/2.8 Di 1:1 Macro		499	N/S	29cm 11.4 in 0.951 ft	Macro 1.0× 1:1	3.60×2.40cm 2.79×1.86cm 2.23×1.49cm	90.0mm 116mm 145mm	MT MT TE	27.0° 21.1° 16.9°	22.6° 17.6° 14.1°	15.2° 11.8° 9.46°	IF DC	10 E 9 G 9 B	55mm	71.5mm 2.81 in	97mm 3.82 in	405g 14.29 oz 0.893 lb	Included

90mm

Prime Lens Table

105mm

Focal Length	Max Aper	Grade Use	Notes	Manuf	Designation	Image	Price	Min Aper	Min Focus	Max Mag	Minimum Field Size	35mm EqFL	AoV Range	Diag AoV	Longer AoV	Shorter AoV	Focus	Const	Filter	Diameter	Length	Weight	Hood
90mm	f/3.5	HG FLM		Voigtlander	90mm / F3,5 SLII APO-Lanthar		579	f/22	50cm 19.7 in 1.64 ft	0.29× 1:3.5	12.6×8.40cm 9.77×6.51cm 7.81×5.22cm	90.0mm 116mm 145mm	MT MT TE	27.0° 21.1° 16.9°	22.6° 17.6° 14.1°	15.2° 11.8° 9.46°	MF	7 E 5 G 9 B	52mm	63mm 2.48 in	48.2mm 1.90 in	320g 11.29 oz 0.705 lb	Included
100mm	f/2.0	SG FLM	HSF	Canon Oct 1991	EF 100mm f/2 USM		499	f/22	90cm 35.4 in 2.95 ft	0.14× 1:7.1	25.7×17.1cm 19.9×13.3cm 15.9×10.6cm	100mm 129mm 161mm	MT MT TE	24.4° 19.0° 15.3°	20.4° 15.9° 12.7°	13.7° 10.6° 8.52°	RF RUSM FTMF	8 E 6 G 8 BC	58mm	75.0mm 2.95 in	73.5mm 2.89 in	460g 16.23 oz 1.014 lb	ET-65III Optional
100mm	f/2.0	HG FLM	MA	Zeiss	Makro-Planar T* 2/100 ZE		1843	f/22	44cm 17.3 in 1.44 ft	Macro 0.5× 1:2	7.20×4.80cm 5.58×3.72cm 4.46×2.98cm	100mm 129mm 161mm	MT MT TE	24.4° 19.0° 15.3°	20.4° 15.9° 12.7°	13.7° 10.6° 8.52°	MF	9 E 8 G N/S	67mm	76mm 2.99 in	91mm 3.58 in	680g 23.99 oz 1.499 lb	N/S
100mm	f/2.8	PG DIG	MA HSF IS4	Canon Oct 2009	EF 100mm f/2.8L Macro IS USM		1049	f/32	30cm 11.8 in 0.984 ft	Macro 1.00× 1:1.0	3.60×2.40cm 2.79×1.86cm 2.23×1.49cm	100mm 129mm 161mm	MT MT TE	24.4° 19.0° 15.3°	20.4° 15.9° 12.7°	13.7° 10.6° 8.52°	IF RUSM FTMF	15 E 12 G 9 BC	67mm	77.7mm 3.06 in	123mm 4.84 in	625g 22.05 oz 1.378 lb	ET-73 Included
100mm	f/2.8	SG FLM	MA HSF	Canon Mar 2000	EF 100mm f/2.8 Macro USM		599	f/32	31cm 12.2 in 1.02 ft	Macro 1.00× 1:1.0	3.60×2.40cm 2.79×1.86cm 2.23×1.49cm	100mm 129mm 161mm	MT MT TE	24.4° 19.0° 15.3°	20.4° 15.9° 12.7°	13.7° 10.6° 8.52°	IF RUSM FTMF	12 E 8 G 8 BC	58mm	78.6mm 3.09 in	118.6mm 4.67 in	580g 20.46 oz 1.279 lb	ET-67 Optional
100mm	f/2.8	SG FLM	MA	Canon Apr 1990	EF 100mm f/2.8 Macro		Disc	f/32	31cm 12.2 in 1.02 ft	Macro 1.00× 1:1.0	3.60×2.40cm 2.79×1.86cm 2.23×1.49cm	100mm 129mm 161mm	MT MT TE	24.4° 19.0° 15.3°	20.4° 15.9° 12.7°	13.7° 10.6° 8.52°	IF MM	10 E 9 G 8 B	52mm	75mm 2.95 in	105.3mm 4.15 in	650g 22.93 oz 1.433 lb	N/S
100mm	f/2.8	HG DIG	MA	Tokina	AT-X M100 AF PRO D		489	f/32	30cm 11.8 in 0.984 ft	Macro 1.0× 1:1	3.60×2.40cm 2.79×1.86cm 2.23×1.49cm	100mm 129mm 161mm	MT MT TE	24.4° 19.0° 15.3°	20.4° 15.9° 12.7°	13.7° 10.6° 8.52°	IF DC	9 E 8 G 9 B	55mm	73.66mm 2.90 in	95.00mm 3.74 in	540g 19.05 oz 1.190 lb	Included
100mm	f/3.5	LG FLM	MA	Vivitar Phoenix	100mm AF F/3.5 Macro		Disc	f/22	43cm 16.9 in 1.41 ft	Macro 0.5× 1:2	7.20×4.80cm 5.58×3.72cm 4.46×2.98cm	100mm 129mm 161mm	MT MT TE	24.4° 19.0° 15.3°	20.4° 15.9° 12.7°	13.7° 10.6° 8.52°	FF DC	5 E 4 G N/S	49mm	68.6mm 2.7 in	71.1mm 2.8 in	281g 9.9 oz 0.619 lb	Included
105mm	f/2.8	HG DIG	MA HSF IS4 STC	Sigma	105mm F2.8 EX DG OS HSM Macro		969	f/22	31.2cm 12.3 in 1.02 ft	Macro 1.0× 1:1	3.60×2.40cm 2.79×1.86cm 2.23×1.49cm	105mm 135mm 169mm	MT MT TE	23.3° 18.1° 14.6°	19.5° 15.1° 12.1°	13.0° 10.1° 8.12°	IF HSM FTMF	16 E 11 G 9 BC	62mm	78.7mm 3.10 in	126.4mm 4.98 in	725g 25.57 oz 1.598 lb	LH680-03 Included
105mm	f/2.8	HG DIG	MA STC	Sigma	105mm F2.8 EX DG Macro		Disc	f/45	31.3cm 12.3 in 1.03 ft	Macro 1.0× 1:1	3.60×2.40cm 2.79×1.86cm 2.23×1.49cm	105mm 135mm 169mm	MT MT TE	23.3° 18.1° 14.6°	19.5° 15.1° 12.1°	13.0° 10.1° 8.12°	IF DC	11 E 10 G 8 B	58mm	74mm 2.91 in	97.5mm 3.84 in	450g 15.87 oz 0.992 lb	LH580-02 Included

105mm

Prime Lens Table

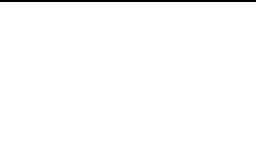
180mm

Focal Length	Max Aper	Grade Use	Notes	Manuf	Designation	Image	Price	Min Aper	Min Focus	Max Mag	Minimum Field Size	35mm EqFL	AoV Range	Diag AoV	Longer AoV	Shorter AoV	Focus	Const	Filter	Diameter	Length	Weight	Hood
105mm	f/2.8	HG FLM	MA STC	Sigma	105mm F2.8 EX Macro		Disc	f/45	31cm 12.2 in 1.02 ft	Macro 1.0× 1:1	3.60×2.40cm 2.79×1.86cm 2.23×1.49cm	105mm 135mm 169mm	MT MT TE	23.3° 18.1° 14.6°	19.5° 15.1° 12.1°	13.0° 10.1° 8.12°	IF DC	10 E 9 G 8 B	58mm	74mm 2.91 in	95mm 3.74 in	450g 15.87 oz 0.992 lb	Included
135mm	f/2.0	PG FLM	HSF CTC	Canon Apr 1996	EF 135mm f/2L USM		1089	f/32	90cm 35.4 in 2.95 ft	0.19× 1:5.3	18.9×12.6cm 14.7×9.79cm 11.74×7.84cm	135mm 174mm 218mm	MT TE TE	18.2° 14.2° 11.3°	15.2° 11.8° 9.44°	10.2° 7.88° 6.32°	RF RUSM FTMF	10 E 8 G 8 BC	72mm	82.5mm 3.25 in	112.0mm 4.41 in	750g 26.46 oz 1.653 lb	ET-78II Included
135mm	f/2.0	HG FLM		Zeiss	Apo Sonnar T* 2/135 ZE		2122	f/22	80cm 31.5 in 2.63 ft	0.25× 1:4	14.4×9.60cm 11.2×10.9cm 8.92×5.96cm	135mm 174mm 218mm	MT TE TE	18.2° 14.2° 11.3°	15.2° 11.8° 9.44°	10.2° 7.88° 6.32°	MF	11 E 8 G N/S	77mm	84mm 3.31 in	108mm 4.25 in	930g 32.80 oz 2.050 lb	N/S
135mm	f/2.8	SG FLM		Canon Oct 1987	EF 135mm f/2.8 With Softfocus		522	f/32	130cm 51.2 in 4.27 ft	0.12× 1:8.3	30.0×20.0cm 23.3×15.5cm 18.6×12.4cm	135mm 174mm 218mm	MT TE TE	18.2° 14.2° 11.3°	15.2° 11.8° 9.44°	10.2° 7.88° 6.32°	RF AFD	7 E 6 G 6 BC	52mm	69.2mm 2.72 in	98.4mm 3.87 in	390g 13.76 oz 0.860 lb	ET-65III Optional
135mm	f/3.5	LG FLM		Zenit	MC Jupiter 37AM 3.5/135		120	N/S	120cm 47.2 in 3.94 ft	N/S	N/C	135mm 174mm 218mm	MT TE TE	18.2° 14.2° 11.3°	15.2° 11.8° 9.44°	10.2° 7.88° 6.32°	MF	N/S	58mm	57mm 2.24 in	92mm 3.62 in	400g 14.11 oz 0.882 lb	Optional
150mm	f/2.8	HG DIG	MA HSF IS4 STC	Sigma	150mm F2.8 EX DG OS HSM APO Macro		1099	f/22	38cm 15.0 in 1.25 ft	Macro 1.0× 1:1	3.60×2.40cm 2.79×1.86cm 2.23×1.49cm	150mm 194mm 242mm	TE TE TE	16.4° 12.8° 10.2°	13.7° 10.6° 8.50°	9.15° 7.10° 5.69°	IF HSM FTMF	19 E 13 G 9 B	72mm	79.6mm 3.13 in	150mm 5.91 in	1150g 40.57 oz 2.535 lb	LH780-05 Included
150mm	f/2.8	HG DIG	MA HSF STC	Sigma	150mm F2.8 EX DG HSM APO Macro		Disc	f/32	38cm 15.0 in 1.25 ft	Macro 1.0× 1:1	3.60×2.40cm 2.79×1.86cm 2.23×1.49cm	150mm 194mm 242mm	TE TE TE	16.4° 12.8° 10.2°	13.7° 10.6° 8.50°	9.15° 7.10° 5.69°	IF HSM FTMF	16 E 12 G 9 B	72mm	79.6mm 3.13 in	137mm 5.39 in	895g 31.57 oz 1.973 lb	LH780-03 Included
180mm	f/2.8	HG DIG	MA HSF STC	Sigma	APO Macro 180mm F2.8 EX DG OS HSM		1699	f/22	47cm 18.5 in 1.54 ft	Macro 1.0× 1:1	3.60×2.40cm 2.79×1.86cm 2.23×1.49cm	180mm 232mm 290mm	TE TE LT	13.7° 10.6° 8.52°	11.4° 8.86° 7.09°	7.63° 5.92° 4.74°	IF HSM FTMF	19 E 14 G 9 BC	86mm	95mm 3.74 in	203.9mm 8.03 in	1638g 57.78 oz 3.611 lb	LH927-01 Included
180mm	f/3.5	PG FLM	MA HSF CTC	Canon Apr 1996	EF 180mm f/3.5L Macro USM		1579	f/32	48cm 18.9 in 1.58 ft	Macro 1.00× 1:1.0	3.60×2.40cm 2.79×1.86cm 2.23×1.49cm	180mm 232mm 290mm	TE TE LT	13.7° 10.6° 8.52°	11.4° 8.86° 7.09°	7.63° 5.92° 4.74°	IF RUSM FTMF	14 E 12 G 8 B	72mm	82.5mm 3.25 in	186.6mm 7.35 in	1090g 38.45 oz 2.403 lb	ET-78II Included
180mm	f/3.5	HG DIG	MA HSF STC	Sigma	180mm F3.5 EX DG HSM APO IF Macro		Disc	f/32	46cm 18.1 in 1.51 ft	Macro 1.0× 1:1	3.60×2.40cm 2.79×1.86cm 2.23×1.49cm	180mm 232mm 290mm	TE TE LT	13.7° 10.6° 8.52°	11.4° 8.86° 7.09°	7.63° 5.92° 4.74°	IF HSM	13 E 10 G 9 B	72mm	80mm 3.14 in	182mm 7.17 in	965g 34.04 oz 2.127 lb	LH780-02 Included

180mm

Prime Lens Table

300mm

Focal Length	Max Aper	Grade Use	Notes	Manuf	Designation	Image	Price	Min Aper	Min Focus	Max Mag	Minimum Field Size	35mm EqFL	AoV Range	Diag AoV	Longer AoV	Shorter AoV	Focus	Const	Filter	Diameter	Length	Weight	Hood
180mm	f/3.5	HG FLM	MA HSF STC	Sigma	180mm F3.5 EX APO Macro IF HSM		Disc	f/32	46cm 18.1 in 1.51 ft	Macro 1.0× 1:1	3.60×2.40cm 2.79×1.86cm 2.23×1.49cm	180mm 232mm 290mm	TE TE LT	13.7° 10.6° 8.52°	11.4° 8.86° 7.09°	7.63° 5.92° 4.74°	IF HSM	13 E 10 G 9 B	72mm	80mm 3.14 in	179.5mm 7.07 in	945g 33.33 oz 2.083 lb	Included
180mm	f/3.5	HG DIG	MA	Tamron	SP AF 180mm F/3.5 Di LD Aspherical [IF] 1:1 Macro		739	N/S	47cm 18.5 in 1.54 ft	Macro 1.0× 1:1	3.60×2.40cm 2.79×1.86cm 2.23×1.49cm	180mm 232mm 290mm	TE TE LT	13.7° 10.6° 8.52°	11.4° 8.86° 7.09°	7.63° 5.92° 4.74°	IF DC	14 E 11 G 7 B	72mm	84.8mm 3.34 in	165.7mm 6.52 in	920g 32.45 oz 2.028 lb	Included
200mm	f/1.8	PG FLM	HSF CTC	Canon Nov 1988	EF 200mm f/1.8L USM		Disc	f/22	250cm 98.4 in 8.20 ft	0.09× 1:11	40.0×26.7cm 31.0×20.7cm 24.8×16.6cm	200mm 258mm 323mm	TE TE LT	12.3° 9.58° 7.67°	10.3° 7.98° 6.38°	6.87° 5.32° 4.27°	IF RUSM FTMF	12 E 10 G 8 B	48mm DI	130mm 5.12 in	208mm 8.19 in	3000g 105.82 oz 6.614 lb	ET-123 Included
200mm	f/2.0	PG DIG	HSF IS5 CTC	Canon Apr 2008	EF 200mm f/2L IS USM		5999	f/32	190cm 74.8 in 6.23 ft	0.12× 1:8.3	30.0×20.0cm 23.3×15.5cm 18.6×12.4cm	200mm 258mm 323mm	TE TE LT	12.3° 9.58° 7.67°	10.3° 7.98° 6.38°	6.87° 5.32° 4.27°	IF RUSM FTMF	17 E 12 G 8 BC	52mm DI	128mm 5.04 in	208mm 8.19 in	2520g 88.89 oz 5.556 lb	ET-120B Included
200mm	f/2.8	PG FLM	HSF CTC	Canon Mar 1996	EF 200mm f/2.8L II USM		819	f/32	150cm 59.1 in 4.92 ft	0.16× 1:6.3	21.2×14.1cm 16.4×10.9cm 13.1×8.77cm	200mm 258mm 323mm	TE TE LT	12.3° 9.58° 7.67°	10.3° 7.98° 6.38°	6.87° 5.32° 4.27°	RF RUSM FTMF	9 E 7 G 8 BC	72mm	83.2mm 3.28 in	136.2mm 5.36 in	765g 26.98 oz 1.687 lb	ET-83BII Included
200mm	f/2.8	PG FLM	HSF CTC	Canon Dec 1991	EF 200mm f/2.8L USM		Disc	f/32	150cm 59.1 in 4.92 ft	0.16× 1:6.3	21.2×14.1cm 16.4×10.9cm 13.1×8.77cm	200mm 258mm 323mm	TE TE LT	12.3° 9.58° 7.67°	10.3° 7.98° 6.38°	6.87° 5.32° 4.27°	RF RUSM FTMF	9 E 7 G 8 B	72mm	83mm 3.27 in	136.2mm 5.36 in	790g 27.87 oz 1.742 lb	ET-83BII Included
200mm	f/4.0	LG FLM		Zenit	Jupiter-21M 4/200		170	N/S	N/S	N/S	N/C	200mm 258mm 323mm	TE TE LT	12.3° 9.58° 7.67°	10.3° 7.98° 6.38°	6.87° 5.32° 4.27°	MF	N/S	49mm	78mm 3.07 in	165mm 6.50 in	980g 34.57 oz 2.161 lb	Optional
300mm	f/2.8	PG DIG	HSF IS4 CTC	Canon Aug 2010	EF 300mm f/2.8L IS II USM		6799	f/32	200cm 78.7 in 6.56 ft	0.18× 1:5.6	20.0×13.3cm 15.5×10.3cm 12.4×8.28cm	300mm 387mm 484mm	LT LT LT	8.25° 6.40° 5.12°	6.87° 5.32° 4.26°	4.58° 3.55° 2.85°	IF RUSM FTMF	16 E 12 G 9 BC	52mm DI	128mm 5.04 in	248mm 9.76 in	2350g 82.89 oz 5.181 lb	ET-120 WII Included
300mm	f/2.8	PG FLM	HSF IS2 CTC	Canon Jul 1999	EF 300mm f/2.8L IS USM		Disc	f/32	250cm 98.4 in 8.20 ft	0.13× 1:7.7	27.7×18.5cm 21.5×14.3cm 17.2×11.5cm	300mm 387mm 484mm	LT LT LT	8.25° 6.40° 5.12°	6.87° 5.32° 4.26°	4.58° 3.55° 2.85°	IF RUSM FTMF	17 E 13 G 8 B	52mm DI	128.0mm 5.04 in	252.0mm 9.92 in	2550g 89.95 oz 5.622 lb	ET-120 Included
300mm	f/2.8	PG FLM	HSF CTC	Canon Nov 1987	EF 300mm f/2.8L USM		Disc	f/32	250cm 98.4 in 8.20 ft	0.11× 1:9.1	32.7×21.8cm 25.4×16.9cm 20.3×13.5cm	300mm 387mm 484mm	LT LT LT	8.25° 6.40° 5.12°	6.87° 5.32° 4.26°	4.58° 3.55° 2.85°	IF RUSM FTMF	10 E 8 G 8 B	48mm DI	125mm 4.92 in	253mm 9.96 in	2855g 101.77 oz 6.360 lb	Included

300mm

Prime Lens Table

330mm

Focal Length	Max Aper	Grade Use	Notes	Manuf	Designation	Image	Price	Min Aper	Min Focus	Max Mag	Minimum Field Size	35mm EqFL	AoV Range	Diag AoV	Longer AoV	Shorter AoV	Focus	Const	Filter	Diameter	Length	Weight	Hood
300mm	f/2.8	HG DIG	HSF STC	Sigma	300mm F2.8 EX APO DG HSM		3399	f/32	250cm 98.4 in 8.20 ft	0.13× 1:7.5	27.0×18.0cm 20.9×14.0cm 16.7×11.2cm	300mm 387mm 484mm	LT LT LT	8.25° 6.40° 5.12°	6.87° 5.32° 4.26°	4.58° 3.55° 2.85°	IF HSM FTMF	11 E 9 G 9 B	46mm DI	119mm 4.69 in	214.5mm 8.44 in	2400g 84.66 oz 5.291 lb	LH1196-01 Included
300mm	f/2.8	HG FLM	HSF STC	Sigma	300mm F2.8 EX APO HSM		Disc	f/32	250cm 98.4 in 8.20 ft	0.13× 1:7.5	27.0×18.0cm 20.9×14.0cm 16.7×11.2cm	300mm 387mm 484mm	LT LT LT	8.25° 6.40° 5.12°	6.87° 5.32° 4.26°	4.58° 3.55° 2.85°	IF HSM	12 E 10 G 9 B	46mm DI	119mm 4.69 in	214mm 8.43 in	2400g 84.66 oz 5.291 lb	Included
300mm	f/2.8	HG FLM		Tamron	SP AF 300mm F/2.8 LD [IF]		Disc	f/32	250cm 98.4 in 8.20 ft	0.14× 1:7.1	25.6×17.0cm 19.8×13.2cm 15.8×10.6cm	300mm 387mm 484mm	LT LT LT	8.25° 6.40° 5.12°	6.87° 5.32° 4.26°	4.58° 3.55° 2.85°	IF DC	10 E 7 G 9 B	112mm — 43mm DI	120mm 4.72 in	214.9mm 8.46 in	2800g 98.77 oz 6.173 lb	Included
300mm	f/2.8	HG FLM		Tokina	AT-X 300 AF PRO		Disc	f/32	240cm 94.5 in 7.87 ft	0.17× 1:6	21.6×14.0cm 16.7×11.2cm 13.4×8.94cm	300mm 387mm 484mm	LT LT LT	8.25° 6.40° 5.12°	6.87° 5.32° 4.26°	4.58° 3.55° 2.85°	DC	8 E 7 G N/S	112mm — 35.5mm DI	117mm 4.61 in	187mm 7.36 in	2300g 81.13 oz 5.071 lb	Included
300mm	f/4.0	PG FLM	HSF IS2 CTC	Canon Mar 1997	EF 300mm f/4L IS USM		1449	f/32	150cm 59.1 in 4.92 ft	0.24× 1:4.2	15.0×10.0cm 11.6×7.75cm 9.29×6.21cm	300mm 387mm 484mm	LT LT LT	8.25° 6.40° 5.12°	6.87° 5.32° 4.26°	4.58° 3.55° 2.85°	RF RUSM FTMF	15 E 11 G 8 BC	77mm	90.0mm 3.54 in	221.0mm 8.70 in	1190g 41.98 oz 2.624 lb	Integral
300mm	f/4.0	PG FLM	HSF CTC	Canon Dec 1991	EF 300mm f/4L USM		Disc	f/32	250cm 98.4 in 8.20 ft	0.13× 1:7.7	27.7×18.5cm 21.5×14.3cm 17.2×11.5cm	300mm 387mm 484mm	LT LT LT	8.25° 6.40° 5.12°	6.87° 5.32° 4.26°	4.58° 3.55° 2.85°	RF RUSM FTMF	8 E 7 G 8 B	77mm	90mm 3.54 in	213.5mm 8.41 in	1165g 41.09 oz 2.568 lb	Integral
300mm	f/4.0	LG FLM	HSF STC	Sigma	APO 300mm F4 HSM Tele Macro		Disc	N/S	N/S	N/S	N/C	300mm 387mm 484mm	LT LT LT	8.25° 6.40° 5.12°	6.87° 5.32° 4.26°	4.58° 3.55° 2.85°	IF HSM	N/S	N/S	N/S	N/S	N/S	Included
300mm	f/4.0	LG FLM	STC	Sigma	APO 300mm F4 Tele Macro		Disc	N/S	N/S	N/S	N/C	300mm 387mm 484mm	LT LT LT	8.25° 6.40° 5.12°	6.87° 5.32° 4.26°	4.58° 3.55° 2.85°	IF DC	N/S	N/S	N/S	N/S	N/S	Included
300mm	f/4.5	LG FLM	CD	Zenit	Rubinar 4,5/300		1030	f/4.5 Fixed	170cm 66.9 in 5.58 ft	N/S	N/C	300mm 387mm 484mm	LT LT LT	8.25° 6.40° 5.12°	6.87° 5.32° 4.26°	4.58° 3.55° 2.85°	MF	11 E 7 G FX B	77mm	92mm 3.62 in	98mm 3.86 in	700g 24.69 oz 1.543 lb	Optional
330mm	f/5.6	LG FLM	TMT	Samyang Bower Pro-Optic Rokinon	330mm / F5.6		Disc	f/5.6 Fixed	90cm 35.4 in 2.95 ft	N/S	N/C	330mm 426mm 532mm	LT LT LT	7.50° 5.82° 4.65°	6.24° 4.84° 3.87°	4.17° 3.23° 2.59°	MF	2 E 1 G FX B	67mm	70mm 2.76 in	298mm 11.73 in	505g 17.81 oz 1.113 lb	N/S

400mm

Prime Lens Table

400mm

Focal Length	Max Aper	Grade Use	Notes	Manuf	Designation	Image	Price	Min Aper	Min Focus	Max Mag	Minimum Field Size	35mm EqFL	AoV Range	Diag AoV	Longer AoV	Shorter AoV	Focus	Const	Filter	Diameter	Length	Weight	Hood
400mm	f/2.8	PG DIG	HSF IS4 CTC	Canon Aug 2010	EF 400mm f/2.8L IS II USM		11489	f/32	270cm 106 in 8.86 ft	0.17× 1:5.9	21.2×14.1cm 16.4×10.9cm 13.1×8.77cm	400mm 516mm 645mm	LT LT ST	6.19° 4.80° 3.84°	5.15° 3.99° 3.19°	3.44° 2.66° 3.19°	IF RUSM FTMF	16 E 12 G 9 BC	52mm DI	163.0mm 6.42 in	343.0mm 13.50 in	3850g 135.80 oz 8.488 lb	ET-155 WII Included
400mm	f/2.8	PG FLM	HSF IS2 CTC	Canon Sep 1999	EF 400mm f/2.8L IS USM		Disc	f/32	300cm 118 in 9.84 ft	0.15× 1:6.7	24.0×16.0cm 18.6×12.4cm 14.9×9.93cm	400mm 516mm 645mm	LT LT ST	6.19° 4.80° 3.84°	5.15° 3.99° 3.19°	3.44° 2.66° 3.19°	IF RUSM FTMF	17 E 13 G 8 B	52mm DI	163.0mm 6.42 in	349.0mm 13.74 in	5370g 189.42 oz 11.839 lb	ET-155 Included
400mm	f/2.8	PG FLM	HSF CTC	Canon Mar 1996	EF 400mm f/2.8L II USM		Disc	f/32	400cm 157 in 13.1 ft	0.11× 1:9.1	32.7×21.8cm 25.4×16.9cm 20.3×13.5cm	400mm 516mm 645mm	LT LT ST	6.19° 4.80° 3.84°	5.15° 3.99° 3.19°	3.44° 2.66° 3.19°	IF RUSM FTMF	11 E 9 G 8 B	48mm DI	167mm 6.57 in	348mm 13.70 in	5910g 208.47 oz 13.029 lb	Included
400mm	f/2.8	PG FLM	HSF CTC	Canon Apr 1991	EF 400mm f/2.8L USM		Disc	f/32	400cm 157 in 13.1 ft	0.11× 1:9.1	32.7×21.8cm 25.4×16.9cm 20.3×13.5cm	400mm 516mm 645mm	LT LT ST	6.19° 4.80° 3.84°	5.15° 3.99° 3.19°	3.44° 2.66° 3.19°	IF RUSM FTMF	11 E 9 G 8 B	48mm DI	167mm 6.57 in	348mm 13.70 in	6100g 215.17 oz 13.448 lb	Included
400mm	f/4.0	PG FLM	DO HSF IS2 CTC	Canon Dec 2001	EF 400mm f/4 DO IS USM		5899	f/32	350cm 138 in 11.5 ft	0.12× 1:8.3	30.0×20.0cm 23.3×15.5cm 18.6×12.4cm	400mm 516mm 645mm	LT LT ST	6.19° 4.80° 3.84°	5.15° 3.99° 3.19°	3.44° 2.66° 3.19°	IF RUSM FTMF	17 E 13 G 8 B	52mm DI	128.0mm 5.04 in	232.7mm 9.16 in	1940g 68.43 oz 4.277 lb	ET-120 Included
400mm	f/5.6	PG FLM	HSF CTC	Canon May 1993	EF 400mm f/5.6L USM		1339	f/32	350cm 138 in 11.5 ft	0.12× 1:8.3	30.0×20.0cm 23.3×15.5cm 18.6×12.4cm	400mm 516mm 645mm	LT LT ST	6.19° 4.80° 3.84°	5.15° 3.99° 3.19°	3.44° 2.66° 3.19°	IF RUSM FTMF	7 E 6 G 8 B	77mm	90.0mm 3.54 in	256.5mm 10.10 in	1250g 44.09 oz 2.756 lb	Integral
400mm	f/5.6	LG FLM	HSF STC	Sigma	APO 400mm F5.6 HSM Tele Macro		Disc	N/S	N/S	N/S	N/C	400mm 516mm 645mm	LT LT ST	6.19° 4.80° 3.84°	5.15° 3.99° 3.19°	3.44° 2.66° 3.19°	IF HSM	N/S	N/S	N/S	N/S	N/S	Included
400mm	f/5.6	LG FLM	STC	Sigma	APO 400mm F5.6 Tele Macro		Disc	N/S	N/S	N/S	N/C	400mm 516mm 645mm	LT LT ST	6.19° 4.80° 3.84°	5.15° 3.99° 3.19°	3.44° 2.66° 3.19°	IF DC	N/S	N/S	N/S	N/S	N/S	Included
400mm	f/8.0	LG FLM	CD TMT	Kenko	400mm f/8 Mirror		300	f/8.0 Fixed	115	0.40× 1:2.5	9.00×6.00cm 6.98×4.65cm 5.58×3.73cm	400mm 516mm 645mm	LT LT ST	6.19° 4.80° 3.84°	5.15° 3.99° 3.19°	3.44° 2.66° 3.19°	MF	6 E 2 G FX B	67mm	74mm 2.91 in	82mm 3.23 in	340g 11.99 oz 0.750 lb	N/S

500mm

Prime Lens Table

500mm

Focal Length	Max Aper	Grade Use	Notes	Manuf	Designation	Image	Price	Min Aper	Min Focus	Max Mag	Minimum Field Size	35mm EqFL	AoV Range	Diag AoV	Longer AoV	Shorter AoV	Focus	Const	Filter	Diameter	Length	Weight	Hood
500mm	f/4.0	PG DIG	HSF IS4 CTC	Canon	EF 500 f/4L IS II USM		10399	f/32	370cm 146 in 12.1 ft	0.15× 1:6.7	24.0×16.0cm 18.6×12.4cm 14.9×9.93cm	500mm 645mm 807mm	LT ST ST	4.95° 3.84° 3.07°	4.12° 3.20° 2.55°	2.75° 2.13° 1.71°	IF RUSM FTMF	16 E 12 G 9 B	52mm DI	146mm 5.75 in	383mm 15.08 in	3190g 112.52 oz 7.033 lb	ET-138 WII Included
500mm	f/4.0	PG FLM	HSF IS2 CTC	Canon Jul 1999	EF 500mm f/4L IS USM		Disc	f/32	450cm 177 in 14.8 ft	0.12× 1:8.3	30.0×20.0cm 23.3×15.5cm 18.6×12.4cm	500mm 645mm 807mm	LT ST ST	4.95° 3.84° 3.07°	4.12° 3.20° 2.55°	2.75° 2.13° 1.71°	IF RUSM FTMF	17 E 13 G 8 B	52mm DI	146mm 5.75 in	387mm 15.24 in	3870g 136.51 oz 8.532 lb	ET-138 Included
500mm	f/4.5	PG FLM	HSF CTC	Canon Mar 1992	EF 500mm f/4.5L USM		Disc	f/32	500cm 197 in 16.4 ft	0.11× 1:9.1	32.7×21.8cm 25.4×16.9cm 20.3×13.5cm	500mm 645mm 807mm	LT ST ST	4.95° 3.84° 3.07°	4.12° 3.20° 2.55°	2.75° 2.13° 1.71°	IF RUSM FTMF	8 E 7 G 9 B	48mm DI	130mm 5.12 in	390mm 15.35 in	3000g 105.82 oz 6.614 lb	Included
500mm	f/4.5	HG DIG	HSF STC	Sigma	500mm F4.5 EX DG APO HSM		4999	f/32	400cm 157 in 13.1 ft	0.13× 1:7.7	27.7×18.5cm 21.5×14.3cm 17.2×11.5cm	500mm 645mm 807mm	LT ST ST	4.95° 3.84° 3.07°	4.12° 3.20° 2.55°	2.75° 2.13° 1.71°	IF HSM FTMF	11 E 8 G 9 B	46mm DI	123mm 4.84 in	349.5mm 13.76 in	3100g 109.35 oz 6.834 lb	LH1236-01 Included
500mm	f/4.5	HG FLM	HSF STC	Sigma	500mm F4.5 EX APO HSM		Disc	f/32	400cm 157 in 13.1 ft	0.13× 1:7.7	27.7×18.5cm 21.5×14.3cm 17.2×11.5cm	500mm 645mm 807mm	LT ST ST	4.95° 3.84° 3.07°	4.12° 3.20° 2.55°	2.75° 2.13° 1.71°	IF HSM	12 E 8 G 9 B	46mm DI	123mm 4.84 in	349.5mm 13.76 in	3100g 109.35 oz 6.834 lb	Included
500mm	f/4.5	LG FLM	STC	Sigma	APO 500mm F4.5		Disc	N/S	N/S	N/S	N/C	500mm 645mm 807mm	LT ST ST	4.95° 3.84° 3.07°	4.12° 3.20° 2.55°	2.75° 2.13° 1.71°	IF DC	N/S	N/S	N/S	N/S	N/S	Included
500mm	f/5.6	LG FLM	CD	Zenit	Rubinar 5,6/500		Disc	f/5.6 Fixed	220cm 86.6 in 7.22 ft	N/S	N/C	500mm 645mm 807mm	LT ST ST	4.95° 3.84° 3.07°	4.12° 3.20° 2.55°	2.75° 2.13° 1.71°	MF	N/S N/S FX B	105mm	113mm 4.45 in	130mm 5.12 in	1600g 56.44 oz 3.527 lb	Optional
500mm	f/6.3	LG FLM	CD TMT	Samyang Bower Pro-Optic Phoenix Rokinon Vivitar	500mm / F6.3 Fixed Mirror		160	f/6.3 Fixed	200cm 78.7 in 6.56 ft	N/S	N/C	500mm 645mm 807mm	LT ST ST	4.95° 3.84° 3.07°	4.12° 3.20° 2.55°	2.75° 2.13° 1.71°	MF	7 E 6 G FX B	95mm — 34mm DI	98.0mm 3.86 in	119.5mm 4.70 in	705g 24.87 oz 1.554 lb	N/S
500mm	f/8.0	LG FLM	CD TMT	Samyang Bower Pro-Optic Phoenix Rokinon Vivitar	500mm / F8.0 Fixed Mirror		115	f/8.0 Fixed	170cm 66.9 in 5.58 ft	0.37× 1:2.7	9.72×6.48cm 7.53×5.02cm 6.02×4.02cm	500mm 645mm 807mm	LT ST ST	4.95° 3.84° 3.07°	4.12° 3.20° 2.55°	2.75° 2.13° 1.71°	MF	7 E 6 G FX B	95mm — 30.5mm DI	77.0mm 3.03 in	87.7mm 3.45 in	320g 11.29 oz 0.705 lb	N/S
500mm	f/8.0	LG FLM	TMT	Samyang Bower Pro-Optic Phoenix Rokinon Vivitar	500mm /F8.0 Preset		119	f/32	1000cm 394 in 32.8 ft	N/S	N/C	500mm 645mm 807mm	LT ST ST	4.95° 3.84° 3.07°	4.12° 3.20° 2.55°	2.75° 2.13° 1.71°	MF	4 E 4 G N/S	67mm	70.0mm 2.76 in	298mm 11.73 in	640g 22.58 oz 1.411 lb	N/S

500mm

Prime Lens Table

800mm

Focal Length	Max Aper	Grade Use	Notes	Manuf	Designation	Image	Price	Min Aper	Min Focus	Max Mag	Minimum Field Size	35mm EqFL	AoV Range	Diag AoV	Longer AoV	Shorter AoV	Focus	Const	Filter	Diameter	Length	Weight	Hood
500mm	f/8.0	LG FLM	CD	Zenit	Rubinar 8/500		1030	f/8.0 Fixed	220cm 86.6 in 7.22 ft	N/S	N/C	500mm 645mm 807mm	LT ST ST	4.95° 3.84° 3.07°	4.12° 3.20° 2.55°	2.75° 2.13° 1.71°	MF	N/S N/S FX B	77mm	81mm 3.19 in	99mm 3.90 in	550g 19.40 oz 1.213 lb	Optional
500mm	f/8.0	LG FLM	CD	Zenit	3M-5CA 8/500		1030	f/8.0 Fixed	400cm 157 in 13.1 ft	N/S	N/C	500mm 645mm 807mm	LT ST ST	4.95° 3.84° 3.07°	4.12° 3.20° 2.55°	2.75° 2.13° 1.71°	MF	N/S N/S FX B	72mm	83mm 3.27 in	139mm 5.47 in	620g 21.87 oz 1.367 lb	Optional
600mm	f/4.0	PG DIG	HSF IS4 CTC	Canon	EF 600mm f/4L IS II USM		12799	f/32	450cm 177 in 14.8 ft	0.15× 1:6.7	24.0×16.0cm 18.6×12.4cm 14.9×9.93cm	600mm 774mm 968mm	ST ST ST	4.13° 3.20° 2.56°	3.44° 2.66° 2.13°	2.29° 1.78° 1.42°	IF RUSM FTMF	16 E 12 G 9 BC	52mm DI	168mm 6.61 in	448mm 17.64 in	3920g 138.27 oz 8.642 lb	ET-160 WII Included
600mm	f/4.0	PG FLM	HSF IS2 CTC	Canon Sep 1999	EF 600mm f/4L IS USM		Disc	f/32	550cm 217 in 18.0 ft	0.12× 1:8.3	30.0×20.0cm 23.3×15.5cm 18.6×12.4cm	600mm 774mm 968mm	ST ST ST	4.13° 3.20° 2.56°	3.44° 2.66° 2.13°	2.29° 1.78° 1.42°	IF RUSM FTMF	17 E 13 G 8 B	52mm DI	168mm 6.61 in	456mm 17.95 in	5360g 189.07 oz 11.817 lb	ET-160 Included
600mm	f/4.0	PG FLM	HSF CTC	Canon Nov 1988	EF 600mm f/4L USM		Disc	f/32	600cm 236 in 19.7 ft	0.11× 1:9.1	32.7×21.8cm 25.4×16.9cm 20.3×13.5cm	600mm 774mm 968mm	ST ST ST	4.13° 3.20° 2.56°	3.44° 2.66° 2.13°	2.29° 1.78° 1.42°	IF RUSM FTMF	9 E 8 G 8 B	48mm DI	167mm 6.57 in	456mm 17.95 in	6000g 211.64 oz 13.228 lb	Included
600mm	f/8.0	LG FLM	CD	Sigma	600mm F8 Mirror		Disc	f/8 Fixed	200cm 78.7 in 6.56 ft	0.35× 1:2.9	10.4×6.96cm 8.09×5.39cm 6.47×4.32cm	600mm 774mm 968mm	ST ST ST	4.13° 3.20° 2.56°	3.44° 2.66° 2.13°	2.29° 1.78° 1.42°	MF	7 E 4 G FX B	95mm — 30.5mm DI	99mm 3.90 in	121mm 4.76 in	830g 29.28 oz 1.830 lb	Included
800mm	f/5.6	PG DIG	HSF IS4 CTC	Canon May 2008	EF 800mm f/5.6L IS USM		13249	f/32	600cm 236 in 19.7 ft	0.14× 1:7.1	25.7×17.1cm 19.9×13.3cm 15.9×10.6cm	800mm 1030mm 1290mm	ST ST ET	3.10° 2.40° 1.92°	2.58° 2.00° 1.60°	1.72° 1.33° 1.07°	IF RUSM FTMF	18 E 14 G 8 BC	52mm DI	162mm 6.38 in	461mm 18.15 in	4500g 158.73 oz 9.921 lb	ET-155 Included
800mm	f/5.6	HG DIG	HSF STC	Sigma	800mm F5.6 EX APO DG HSM		6599	f/32	700cm 276 in 23.0 ft	0.11× 1:8.8	31.7×21.1cm 24.6×16.4cm 19.6×13.1cm	800mm 1030mm 1290mm	ST ST ET	3.10° 2.40° 1.92°	2.58° 2.00° 1.60°	1.72° 1.33° 1.07°	IF HSM	12 E 9 G 9 B	46mm DI	156.5mm 6.16 in	520mm 20.47 in	4740g 167.20 oz 10.450 lb	LH1571-01 Included
800mm	f/5.6	HG FLM	HSF STC	Sigma	800mm F5.6 EX APO HSM		Disc	f/32	700cm 276 in 23.0 ft	0.11× 1:8.8	31.7×21.1cm 24.6×16.4cm 19.6×13.1cm	800mm 1030mm 1290mm	ST ST ET	3.10° 2.40° 1.92°	2.58° 2.00° 1.60°	1.72° 1.33° 1.07°	IF HSM	13 E 10 G 9 B	46mm DI	156.5mm 6.16 in	520mm 20.47 in	4740g 167.20 oz 10.450 lb	Included
800mm	f/5.6	LG FLM	STC	Sigma	APO 800mm F5.6		Disc	N/S	N/S	N/S	N/C	800mm 1030mm 1290mm	ST ST ET	3.10° 2.40° 1.92°	2.58° 2.00° 1.60°	1.72° 1.33° 1.07°	IF DC	N/S	N/S	N/S	N/S	N/S	Included

800mm										1200mm													
Focal Length	Max Aper	Grade Use	Notes	Manuf	Designation	Image	Price	Min Aper	Min Focus	Max Mag	Minimum Field Size	35mm EqFL	AoV Range	Diag AoV	Longer AoV	Shorter AoV	Focus	Const	Filter	Diameter	Length	Weight	Hood
800mm	f/8.0	LG FLM	CD TMT	Samyang Bower Pro-Optic Phoenix Rokinon Vivitar	800mm / F8.0 Fixed Mirror		240	f/8.0 Fixed	350cm 138 in 11.5 ft	0.33× 1:3	10.8×7.20cm 8.37×5.58cm 6.69×4.47cm	800mm 1030mm 1290mm	ST ST ET	3.10° 2.40° 1.92°	2.58° 2.00° 1.60°	1.72° 1.33° 1.07°	MF	8 E 8 G FX B	105mm —— 30.5mm DI	111.0mm 4.37 in	114.5mm 4.51 in	946g 33.37 oz 2.086 lb	N/S
1000mm	f/8.0	LG FLM	STC	Sigma	APO 100mm F8		Disc	N/S	N/S	N/S	N/C	1000mm 1290mm 1610mm	ST ET ET	2.48° 1.92° 1.54°	2.06° 1.60° 1.28°	1.38° 1.07° 0.854°	IF DC	N/S	N/S	N/S	N/S	N/S	Included
1000mm	f/10	LG FLM	CD	Zenit	Rubinar 10/1000		1530	10 Fixed	400cm 157 in 13.1 ft	N/S	N/C	1000mm 1290mm 1610mm	ST ET ET	2.48° 1.92° 1.54°	2.06° 1.60° 1.28°	1.38° 1.07° 0.854°	MF	N/S N/S FX B	116mm	125mm 4.92 in	210mm 8.27 in	2300g 81.13 oz 5.071 lb	Optional
1000mm	f/10	LG FLM	CD	Zenit	MTO-11CA 10/1000		1530	10 Fixed	800cm 315 in 26.2 ft	N/S	N/C	1000mm 1290mm 1610mm	ST ET ET	2.48° 1.92° 1.54°	2.06° 1.60° 1.28°	1.38° 1.07° 0.854°	MF	N/S N/S FX B	116mm	126mm 4.96 in	238mm 9.37 in	1950g 68.78 oz 4.299 lb	Optional
1200mm	f/5.6	PG FLM	HSF CTC	Canon Jul 1993	EF 1200mm f/5.6L USM		Disc	f/32	1400cm 551 in 45.9 ft	0.09× 1:11	40.0×26.7cm 31.0×20.7cm 24.8×16.6cm	1200mm 1550mm 1940mm	ET ET ET	2.07° 1.60° 1.28°	1.72° 1.33° 1.06°	1.15° 0.888° 0.711°	IF RUSM FTMF	13 E 10 G 8 B	48mm DI	228mm 8.98 in	836mm 32.91 in	16500g 582.02 oz 36.376 lb	Integral