

28–70mm

Zoom Lens Table

28–80mm

Focal Length	Max Aper	Grade Use	Notes	Manuf	Designation	Image	Price	Zoom	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
28–70mm	f/2.8	PG FLM	HSF	Canon Nov 1993	EF 28-70mm f/2.8L USM		Disc	2.50× Rotary	f/22	50cm 19.7 in 1.64 ft	0.18× 1:5.6	20.0×13.3cm 15.5×10.3cm 12.4×8.28cm	28.0–70.0mm 36.1–90.3mm 45.2–113mm	WA NO NO MT MT MT	75.4–34.3° 61.8–26.9° 51.2–21.7°	65.5–28.8° 53.0–22.5° 43.4–18.1°	46.4–19.5° 36.7–15.1° 29.8–12.2°	IF RUSM FTMF	16 E 11 G 8 B	77mm	83.2mm 3.28 in	117.6mm 4.63 in	880g 31.04 oz 1.940 lb	EW-83BII Included
28–70mm	f/2.8	HG DIG		Sigma	28-70mm F 2.8 EX DG		Disc	2.50× Rotary	f/22	33cm 13.0 in 1.08 ft	0.23× 1:4.4	15.8×10.6cm 12.3×8.18cm 9.81×6.56cm	28.0–70.0mm 36.1–90.3mm 45.2–113mm	WA NO NO MT MT MT	75.4–34.3° 61.8–26.9° 51.2–21.7°	65.5–28.8° 53.0–22.5° 43.4–18.1°	46.4–19.5° 36.7–15.1° 29.8–12.2°	IF DC	14 E 12 G 9 B	67mm	74mm 2.91 in	87.2mm 3.43 in	510g 17.99 oz 1.124 lb	LH730-02 Included
28–70mm	f/2.8	HG FLM		Tokina	AT-X 287 AF PRO SV		Disc	2.50× Rotary	f/22	70cm 27.8 in 2.30 ft	0.20× 1:5	18.0×12.0cm 14.0×9.30cm 11.6×7.45cm	28.0–70.0mm 36.1–90.3mm 45.2–113mm	WA NO NO MT MT MT	75.4–34.3° 61.8–26.9° 51.2–21.7°	65.5–28.8° 53.0–22.5° 43.4–18.1°	46.4–19.5° 36.7–15.1° 29.8–12.2°	DC	16 E 12 G 8 B	77mm	84mm 3.31 in	108mm 4.25 in	719g 25.36 oz 1.585 lb	Included
28–70mm	f/2.8–4.0	LG DIG		Sigma	28-70mm f2.8-4 DG		Disc	2.50× Rotary	f/22	50cm 19.7 in 1.64 ft	0.15× 1:6.5	23.4×15.6cm 18.1×12.1cm 14.5×9.69cm	28.0–70.0mm 36.1–90.3mm 45.2–113mm	WA NO NO MT MT MT	75.4–34.3° 61.8–26.9° 51.2–21.7°	65.5–28.8° 53.0–22.5° 43.4–18.1°	46.4–19.5° 36.7–15.1° 29.8–12.2°	FF DC	11 E 8 G 8 B	58mm	67.5mm 2.66 in	60.0mm 2.36 in	245g 8.64 oz 0.540 lb	LH630-01 Included
28–70mm	f/2.8–4.0	LG FLM		Sigma	28-70mm F2.8-4 High Speed Zoom		Disc	2.50× Rotary	f/22	50cm 19.7 in 1.64 ft	0.15× 1:6.5	23.4×15.6cm 18.1×12.1cm 14.5×9.69cm	28.0–70.0mm 36.1–90.3mm 45.2–113mm	WA NO NO MT MT MT	75.4–34.3° 61.8–26.9° 51.2–21.7°	65.5–28.8° 53.0–22.5° 43.4–18.1°	46.4–19.5° 36.7–15.1° 29.8–12.2°	FF DC	11 E 8 G 8 B	58mm	67.5mm 2.66 in	60.0mm 2.36 in	245g 8.64 oz 0.540 lb	Included
28–70mm	f/3.5–4.5	CG FLM		Canon Jun 1988	EF 28-70mm f/3.5-4.5 II		Disc	2.50× Rotary	f/29	39cm 15.4 in 1.28 ft	0.22× 1:4.5	16.4×10.9cm 12.7×8.46cm 10.1×6.77cm	28.0–70.0mm 36.1–90.3mm 45.2–113mm	WA NO NO MT MT MT	75.4–34.3° 61.8–26.9° 51.2–21.7°	65.5–28.8° 53.0–22.5° 43.4–18.1°	46.4–19.5° 36.7–15.1° 29.8–12.2°	FRE AFD	10 E 9 G 5 B	52mm	70mm 2.76 in	76.5mm 3.01 in	285g 10.05 oz 0.628 lb	Optional
28–70mm	f/3.5–4.5	CG FLM		Canon Nov 1987	EF 28-70mm f/3.5-4.5		Disc	2.50× Rotary	f/29	39cm 15.4 in 1.28 ft	0.22× 1:4.5	16.4×10.9cm 12.7×8.46cm 10.1×6.77cm	28.0–70.0mm 36.1–90.3mm 45.2–113mm	WA NO NO MT MT MT	75.4–34.3° 61.8–26.9° 51.2–21.7°	65.5–28.8° 53.0–22.5° 43.4–18.1°	46.4–19.5° 36.7–15.1° 29.8–12.2°	FRE AFD	10 E 9 G 5 B	52mm	70mm 2.76 in	74.8mm 2.94 in	300g 10.58 oz 0.661 lb	Optional
28–75mm	f/2.8	HG DIG		Tamron	SP AF 28-75mm F/2.8 XR Di LD Aspherical [IF]		499	2.68× Rotary	f/32	33cm 13.0 in 1.08 ft	0.26× 1:3.9	14.0×9.36cm 10.88×7.25cm 8.70×cm5.81	28.0–75.0mm 36.1–96.8mm 45.2–121mm	WA NO NO MT MT MT	75.4–32.2° 61.8–25.2° 51.2–20.3°	65.5–27.0° 53.0–21.1° 43.4–16.9°	46.4–18.2° 36.7–14.1° 29.8–11.3°	IF DC	16 E 14 G 7 B	67mm	73mm 2.87 in	92mm 3.62 in	510g 17.99 oz 1.124 lb	Included
28–80mm	f/2.8	HG FLM		Tokina	AT-X 280 AF PRO		Disc	2.86× Rotary	f/22	50cm 19.7 in 1.64 ft	0.20× 1:5	18.0×12.0cm 14.0×9.30cm 11.6×7.45cm	28.0–80.0mm 36.1–103mm 45.2–129mm	WA NO NO MT MT MT	75.4–30.3° 61.8–23.7° 51.2–19.0°	65.5–25.4° 53.0–19.8° 43.4–15.9°	46.4–17.1° 36.7–13.3° 29.8–10.6°	DC	16 E 12 G 9 B	77mm	84mm 3.31 in	120mm 4.72 in	819g 28.89 oz 1.806 lb	Included
28–80mm	f/2.8–4.0	PG FLM	HSF	Canon Apr 1989	EF 28-80mm f/2.8-4L USM		Disc	2.86× Rotary	f/22	50cm 19.7 in 1.64 ft	0.20× 1:5.0	18.0×12.0cm 14.0×9.30cm 11.2×7.45cm	28.0–80.0mm 36.1–103mm 45.2–129mm	WA NO NO MT MT MT	75.4–30.3° 61.8–23.7° 51.2–19.0°	65.5–25.4° 53.0–19.8° 43.4–15.9°	46.4–17.1° 36.7–13.3° 29.8–10.6°	IF RUSM FTMF	15 E 11 G 8 B	72mm	84mm 3.31 in	119.5mm 4.70 in	945g 33.33 oz 2.083 lb	Included

28–80mm

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Focal Length	Max Aper	Grade Use	Notes	Manuf	Designation	Image	Price	Zoom	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
28–80mm	f/3.5–5.6	CG FLM	HSF	Canon Apr 1999	EF 28-80mm f/3.5-5.6 V USM		Disc	2.86× Rotary	f/22– 38	38cm 15.0 in 1.25 ft	0.26× 1:3.8	13.8×9.23cm 10.7×7.15cm 8.58×5.73cm	28.0–80.0mm 36.1–103mm 45.2–129mm	WA NO NO MT MT MT	75.4–30.3° 61.8–23.7° 51.2–19.0°	65.5–25.4° 53.0–19.8° 43.4–15.9°	46.4–17.1° 36.7–13.3° 29.8–10.6°	FRE MUSM	10 E 10 G 5 B	58mm	66.4mm 2.61 in	71.2mm 2.80 in	220g 7.76 oz 0.485 lb	EW-60C Optional
28–80mm	f/3.5–5.6	CG FLM	HSF	Canon Sep 1996	EF 28-80mm f/3.5-5.6 IV USM		Disc	2.86× Rotary	f/22– 38	38cm 15.0 in 1.25 ft	0.26× 1:3.8	13.8×9.23cm 10.7×7.15cm 8.58×5.73cm	28.0–80.0mm 36.1–103mm 45.2–129mm	WA NO NO MT MT MT	75.4–30.3° 61.8–23.7° 51.2–19.0°	65.5–25.4° 53.0–19.8° 43.4–15.9°	46.4–17.1° 36.7–13.3° 29.8–10.6°	FRE MUSM	9 E 9 G 5 B	58mm	66.4mm 2.61 in	71.2mm 2.80 in	200g 7.05 oz 0.441 lb	EW-60C Optional
28–80mm	f/3.5–5.6	CG FLM	HSF	Canon Aug 1995	EF 28-80mm f/3.5-5.6 III USM		Disc	2.86× Rotary	f/22– 38	38cm 15.0 in 1.25 ft	0.26× 1:3.8	13.8×9.23cm 10.7×7.15cm 8.58×5.73cm	28.0–80.0mm 36.1–103mm 45.2–129mm	WA NO NO MT MT MT	75.4–30.3° 61.8–23.7° 51.2–19.0°	65.5–25.4° 53.0–19.8° 43.4–15.9°	46.4–17.1° 36.7–13.3° 29.8–10.6°	FRE MUSM	9 E 9 G 5 B	58mm	65mm 2.56 in	63.5mm 2.50 in	205g 7.23 oz 0.452 lb	EW-60C Optional
28–80mm	f/3.5–5.6	CG FLM	HSF	Canon Oct 1993	EF 28-80mm f/3.5-5.6 II USM		Disc	2.86× Rotary	f/22– 38	38cm 15.0 in 1.25 ft	0.26× 1:3.8	13.8×9.23cm 10.7×7.15cm 8.58×5.73cm	28.0–80.0mm 36.1–103mm 45.2–129mm	WA NO NO MT MT MT	75.4–30.3° 61.8–23.7° 51.2–19.0°	65.5–25.4° 53.0–19.8° 43.4–15.9°	46.4–17.1° 36.7–13.3° 29.8–10.6°	FRE MUSM	9 E 9 G 5 B	58mm	63.5mm 2.50 in	68.5mm 2.70 in	200g 7.05 oz 0.441 lb	EW-60C Optional
28–80mm	f/3.5–5.6	CG FLM	HSF	Canon Oct 1991	EF 28-80mm f/3.5-5.6 USM		Disc	2.86× Rotary	f/22– 38	50cm 19.7 in 1.64 ft	0.18× 1:5.6	20.0×13.3cm 15.5×10.3cm 12.4×8.28cm	28.0–80.0mm 36.1–103mm 45.2–129mm	WA NO NO MT MT MT	75.4–30.3° 61.8–23.7° 51.2–19.0°	65.5–25.4° 53.0–19.8° 43.4–15.9°	46.4–17.1° 36.7–13.3° 29.8–10.6°	FRE MUSM	10 E 9 G 5 B	58mm	72mm 2.83 in	77.5mm 3.05 in	330g 11.64 oz 0.728 lb	EW-60C Optional
28–80mm	f/3.5–5.6	CG FLM		Canon Apr 1999	EF 28-80mm f/3.5-5.6 II		Disc	2.86× Rotary	f/22– 38	38cm 15.0 in 1.25 ft	0.26× 1:3.8	13.8×9.23cm 10.7×7.15cm 8.58×5.73cm	28.0–80.0mm 36.1–103mm 45.2–129mm	WA NO NO MT MT MT	75.4–30.3° 61.8–23.7° 51.2–19.0°	65.5–25.4° 53.0–19.8° 43.4–15.9°	46.4–17.1° 36.7–13.3° 29.8–10.6°	FRE MM	10 E 10 G 5 B	58mm	66.4mm 2.61 in	71.2mm 2.80 in	220g 7.76 oz 0.485 lb	EW-60C Optional
28–80mm	f/3.5–5.6	CG FLM		Canon Sep 1996	EF 28-90mm f/3.5-5.6		Disc	2.86× Rotary	f/22– 38	38cm 15.0 in 1.25 ft	0.26× 1:3.8	13.8×9.23cm 10.7×7.15cm 8.58×5.73cm	28.0–80.0mm 36.1–103mm 45.2–129mm	WA NO NO MT MT MT	75.4–30.3° 61.8–23.7° 51.2–19.0°	65.5–25.4° 53.0–19.8° 43.4–15.9°	46.4–17.1° 36.7–13.3° 29.8–10.6°	FRE MM	10 E 10 G 5 B	58mm	56.4mm 2.22 in	71.2mm 2.80 in	200g 7.05 oz 0.441 lb	EW-60C Optional
28–80mm	f/3.5–5.6	LG FLM		Quantaray	28-80mm F3.5-5.6		Disc	2.86× Rotary	N/S	51.8cm 20.4 in 1.7 ft	0.19× 1:5.4	19.4×13.0cm 15.1×10.0cm 12.0×8.05cm	28.0–80.0mm 36.1–103mm 45.2–129mm	WA NO NO MT MT MT	75.4–30.3° 61.8–23.7° 51.2–19.0°	65.5–25.4° 53.0–19.8° 43.4–15.9°	46.4–17.1° 36.7–13.3° 29.8–10.6°	DC	N/S	55mm	N/S	61.0mm 2.4 in	283g 10 oz 0.625 lb	Optional
28–80mm	f/3.5–5.6	LG FLM		Phoenix	AF 28-80mm f:3.5-5.6 Tele Wide Zoom		Disc	2.86× Linear	f/22– 38	48.8cm 19.2 in 1.6 ft	0.19× 1:5.3	18.7×12.5cm 14.5×9.67cm 11.6×7.75cm	28.0–80.0mm 36.1–103mm 45.2–129mm	WA NO NO MT MT MT	75.4–30.3° 61.8–23.7° 51.2–19.0°	65.5–25.4° 53.0–19.8° 43.4–15.9°	46.4–17.1° 36.7–13.3° 29.8–10.6°	DC	8 E 8 G N/S	58mm	68.6mm 2.7 in	73.7mm 2.9 in	289g 10.2 oz 0.638 lb	Included
28–80mm	f/3.5–5.6	LG FLM		Promaster	28-80mm F/5.5-5.6 Aspherical AF		Disc	2.86× Rotary	f/22– 32	N/S	0.13× 1:8	28.8×19.2cm 22.3×14.9cm 17.8×11.9cm	28.0–80.0mm 36.1–103mm 45.2–129mm	WA NO NO MT MT MT	75.4–30.3° 61.8–23.7° 51.2–19.0°	65.5–25.4° 53.0–19.8° 43.4–15.9°	46.4–17.1° 36.7–13.3° 29.8–10.6°	IF DC	7 E 7 G N/S	58mm	72mm 2.83 in	70.4mm 2.77 in	238g 8.4 oz 0.525 lb	Included

28–80mm

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28–90mm

Focal Length	Max Aper	Grade Use	Notes	Manuf	Designation	Image	Price	Zoom	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
28–80mm	f/3.5–5.6	LG FLM		Sigma	28-80mm F3.5-5.6 Mini Zoom Macro II Aspherical		Disc	2.86× Rotary	f/22–38	23.9cm 9.41 in 0.784 ft	0.50× 1:2.0	7.20×4.80cm 5.58×3.72cm 4.46×2.98cm	28.0–80.0mm 36.1–103mm 45.2–129mm	WA NO NO MT MT MT	75.4–30.3° 61.8–23.7° 51.2–19.0°	65.5–25.4° 53.0–19.8° 43.4–15.9°	46.4–17.1° 36.7–13.3° 29.8–10.6°	IF DC	7 E 7 G 8 B	55mm	69.5mm 2.74 in	69.5mm 2.74 in	255g 8.99 oz 0.562 lb	Included
28–80mm	f/3.5–5.6	LG FLM		Sigma	28-80mm F3.5-5.6 Aspherical Macro HF		Disc	2.86× Rotary	f/22–32	24.7cm 9.72 in 0.810 ft	0.50× 1:2	7.20×4.80cm 5.58×3.72cm 4.46×2.98cm	28.0–80.0mm 36.1–103mm 45.2–129mm	WA NO NO MT MT MT	75.4–30.3° 61.8–23.7° 51.2–19.0°	65.5–25.4° 53.0–19.8° 43.4–15.9°	46.4–17.1° 36.7–13.3° 29.8–10.6°	IF DC	7 E 7 G 8 B	55mm	69.5mm 2.74 in	71.4mm 2.81 in	255g 8.99 oz 0.562 lb	Included
28–80mm	f/3.5–5.6	LG FLM		Tamron	AF 28-80mm F/3.5-5.6 Aspherical		Disc	2.86× Rotary	f/22	70cm 27.8 in 2.30 ft	0.13× 1:8	28.8×19.2cm 22.3×14.9cm 17.8×11.9cm	28.0–80.0mm 36.1–103mm 45.2–129mm	WA NO NO MT MT MT	75.4–30.3° 61.8–23.7° 51.2–19.0°	65.5–25.4° 53.0–19.8° 43.4–15.9°	46.4–17.1° 36.7–13.3° 29.8–10.6°	FF DC	7 E 7 G 6 B	58mm	72mm 2.83 in	70.4mm 2.77 in	237g 8.36 oz 0.522 lb	Included
28–90mm	f/3.5–5.6	LG FLM		Quantaray	28-90mm F3.5-5.6 AF		Disc	3.21× Rotary	f/22	70cm 27.8 in 2.30 ft	0.23× 1:4.4	15.8×10.6cm 12.3×8.18cm 9.81×6.56cm	28.0–90.0mm 36.1–116mm 45.2–145mm	WA NO NO MT MT TE	75.4–27.0° 61.8–21.1° 51.2–16.9°	65.5–22.6° 53.0–17.6° 43.4–14.1°	46.4–15.2° 36.7–11.8° 29.8–9.46°	DC	8 E 7 G N/S	55mm	69.5mm 2.74 in	75mm 2.95 in	260g 9.17 oz 0.573 lb	Optional
28–90mm	f/4.0–5.6	CG FLM	HSF	Canon Sep 2002	EF 28-90mm f/4-5.6 II USM		Disc	3.21× Rotary	f/22–32	38cm 15.0 in 1.25 ft	0.30× 1:3.3	13.8×9.23cm 10.7×7.15cm 8.58×5.73cm	28.0–90.0mm 36.1–116mm 45.2–145mm	WA NO NO MT MT TE	75.4–27.0° 61.8–21.1° 51.2–16.9°	65.5–22.6° 53.0–17.6° 43.4–14.1°	46.4–15.2° 36.7–11.8° 29.8–9.46°	FRE MUSM	10 E 8 G 5 B	58mm	67mm 2.64 in	71mm 2.80 in	190g 6.70 oz 0.419 lb	EW-60C Optional
28–90mm	f/4.0–5.6	CG FLM	HSF	Canon Oct 2000	EF 28-90mm f/4-5.6 USM		Disc	3.21× Rotary	f/22–38	38cm 15.0 in 1.25 ft	0.30× 1:3.3	13.8×9.23cm 10.7×7.15cm 8.58×5.73cm	28.0–90.0mm 36.1–116mm 45.2–145mm	WA NO NO MT MT TE	75.4–27.0° 61.8–21.1° 51.2–16.9°	65.5–22.6° 53.0–17.6° 43.4–14.1°	46.4–15.2° 36.7–11.8° 29.8–9.46°	FRE MUSM	10 E 8 G 5 B	58mm	67mm 2.64 in	71mm 2.80 in	190g 6.70 oz 0.419 lb	EW-60C Optional
28–90mm	f/4.0–5.6	CG DIG		Canon Sep 2004	EF 28-90mm f/4-5.6 III		Disc	3.21× Rotary	f/22–32	38cm 15.0 in 1.25 ft	0.30× 1:3.3	13.8×9.23cm 10.7×7.15cm 8.58×5.73cm	28.0–90.0mm 36.1–116mm 45.2–145mm	WA NO NO MT MT TE	75.4–27.0° 61.8–21.1° 51.2–16.9°	65.5–22.6° 53.0–17.6° 43.4–14.1°	46.4–15.2° 36.7–11.8° 29.8–9.46°	FRE MM	10 E 8 G 5 B	58mm	67mm 2.64 in	71.2mm 2.80 in	190g 6.70 oz 0.419 lb	EW-60C Optional
28–90mm	f/4.0–5.6	CG DIG		Canon Sep 2003	EF 28-90mm f/4-5.6 II		Disc	3.21× Rotary	f/22–32	38cm 15.0 in 1.25 ft	0.30× 1:3.3	13.8×9.23cm 10.7×7.15cm 8.58×5.73cm	28.0–90.0mm 36.1–116mm 45.2–145mm	WA NO NO MT MT TE	75.4–27.0° 61.8–21.1° 51.2–16.9°	65.5–22.6° 53.0–17.6° 43.4–14.1°	46.4–15.2° 36.7–11.8° 29.8–9.46°	FRE MM	10 E 8 G 5 B	58mm	67mm 2.64 in	71mm 2.80 in	180g 6.35 oz 0.397 lb	EW-60C Optional
28–90mm	f/4.0–5.6	CG FLM		Canon Oct 2000	EF 28-90mm f/4-5.6		Disc	3.21× Rotary	f/22–38	38cm 15.0 in 1.25 ft	0.30× 1:3.3	13.8×9.23cm 10.7×7.15cm 8.58×5.73cm	28.0–90.0mm 36.1–116mm 45.2–145mm	WA NO NO MT MT TE	75.4–27.0° 61.8–21.1° 51.2–16.9°	65.5–22.6° 53.0–17.6° 43.4–14.1°	46.4–15.2° 36.7–11.8° 29.8–9.46°	FRE MM	10 E 8 G 5 B	58mm	67mm 2.64 in	71mm 2.80 in	180g 6.35 oz 0.397 lb	EW-60C Optional

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28–105mm	f/2.8	HG FLM		Tamron	SP AF 28-105mm F/2.8 LD Aspherical [IF]		Disc	3.75× Rotary	f/22	44cm 17.3 in 1.44 ft	0.21× 1:4.7	16.9×11.3cm 13.1×8.74cm 10.5×7.00cm	28.0–105mm 36.1–135mm 45.2–169mm	WA NO NO MT MT TE	75.4–23.3° 61.8–18.1° 51.2–14.6°	65.5–19.5° 53.0–15.1° 43.4–12.1°	46.4–13.0° 36.7–10.1° 29.8–8.12°	IF DC	15 E 13 G 9 B	82mm	87mm 3.43 in	112mm 4.41 in	880g 31.04 oz 1.940 lb	Included
28–105mm	f/2.8–3.8	LG FLM		Vivitar	AF 28-105mm F/2.8-3.8 Series 1		Disc	3.75× Linear	f/22	150cm 59.1 in 4.92 ft	0.15× 1:6.8	24.5×16.3cm 19.0×12.6cm 15.2×10.1cm	28.0–105mm 36.1–135mm 45.2–169mm	WA NO NO MT MT TE	75.4–23.3° 61.8–18.1° 51.2–14.6°	65.5–19.5° 53.0–15.1° 43.4–12.1°	46.4–13.0° 36.7–10.1° 29.8–8.12°	DC	N/S	72mm	N/S	N/S	N/S	Included
28–105mm	f/2.8–3.8	LG FLM		Phoenix	AF 28-105mm f:2.8-3.8 Tele Wide Zoom		Disc	3.75× Rotary	f/16– 27	149cm 58.8 in 4.9 ft	0.083× 1:12	43.2×28.8cm 33.5×22.3cm 26.8×17.9cm	28.0–105mm 36.1–135mm 45.2–169mm	WA NO NO MT MT TE	75.4–23.3° 61.8–18.1° 51.2–14.6°	65.5–19.5° 53.0–15.1° 43.4–12.1°	46.4–13.0° 36.7–10.1° 29.8–8.12°	DC	15 E 13 G N/S	72mm	76.2mm 3.0 in	88.9mm 3.5 in	422g 14.9 oz 0.931 lb	Included
28–105mm	f/2.8–4.0	LG DIG		Sigma	28-105mm F2.8-4 DG Aspherical IF		Disc	3.75× Rotary	f/22– 32	50cm 19.7 in 1.64 ft	0.18× 1:5.5	19.8×13.2cm 15.3×10.2cm 12.3×8.20cm	28.0–105mm 36.1–135mm 45.2–169mm	WA NO NO MT MT TE	75.4–23.3° 61.8–18.1° 51.2–14.6°	65.5–19.5° 53.0–15.1° 43.4–12.1°	46.4–13.0° 36.7–10.1° 29.8–8.12°	IF DC	12 E 11 G 8 B	72mm	77mm 3.03 in	79.5mm 3.13 in	405g 14.29 oz 0.893 lb	Included
28–105mm	f/2.8–4.0	LG FLM		Sigma	28-105mm F2.8-4 Aspherical IF		Disc	2.75× Rotary	f/22– 32	50cm 19.7 in 1.64 ft	0.18× 1:5.5	19.8×13.2cm 15.3×10.2cm 12.3×8.20cm	28.0–105mm 36.1–135mm 45.2–169mm	WA NO NO MT MT TE	75.4–23.3° 61.8–18.1° 51.2–14.6°	65.5–19.5° 53.0–15.1° 43.4–12.1°	46.4–13.0° 36.7–10.1° 29.8–8.12°	IF DC	12 E 11 G 8 B	72mm	77mm 3.03 in	79.5mm 3.13 in	405g 14.29 oz 0.893 lb	Included
28–105mm	f/3.5–4.5	SG FLM	HSF	Canon Oct 2000	EF 28-105mm f/3.5-4.5 II USM		Disc	3.75× Rotary	f/22– 27	50cm 19.7 in 1.64 ft	0.19× 1:5.3	18.9×12.6cm 14.7×9.79cm 11.7×7.84cm	28.0–105mm 36.1–135mm 45.2–169mm	WA NO NO MT MT TE	75.4–23.3° 61.8–18.1° 51.2–14.6°	65.5–19.5° 53.0–15.1° 43.4–12.1°	46.4–13.0° 36.7–10.1° 29.8–8.12°	IF RUSM FTMF	15 E 12 G 7 B	58mm	72mm 2.83 in	75mm 2.95 in	375g 13.23 oz 0.827 lb	EW-63II Optional
28–105mm	f/3.5–4.5	SG FLM	HSF	Canon Nov 1992	EF 28-105mm f/3.5-4.5 USM		Disc	3.75× Rotary	f/22– 27	50cm 19.7 in 1.64 ft	0.19× 1:5.3	18.9×12.6cm 14.7×9.79cm 11.7×7.84cm	28.0–105mm 36.1–135mm 45.2–169mm	WA NO NO MT MT TE	75.4–23.3° 61.8–18.1° 51.2–14.6°	65.5–19.5° 53.0–15.1° 43.4–12.1°	46.4–13.0° 36.7–10.1° 29.8–8.12°	IF RUSM FTMF	15 E 12 G 5 B	58mm	72mm 2.83 in	75mm 2.95 in	375g 13.23 oz 0.827 lb	EW-63B Optional
28–105mm	f/3.8–5.6	LG FLM		Sigma Quantaray	28-105mm F3.8-5.6 UC-III Aspherical IF		Disc	3.75× Rotary	f/22– 32	50cm 19.7 in 1.64 ft	0.18× 1:5.6	20.2×13.4cm 15.6×10.4cm 12.5×8.34cm	28.0–105mm 36.1–135mm 45.2–169mm	WA NO NO MT MT TE	75.4–23.3° 61.8–18.1° 51.2–14.6°	65.5–19.5° 53.0–15.1° 43.4–12.1°	46.4–13.0° 36.7–10.1° 29.8–8.12°	IF DC	13 E 12 G 7 B	62mm	71mm 2.80 in	72.5mm 2.85 in	275g 9.70 oz 0.606 lb	Included
28–105mm	f/4.0–5.6	CG FLM	HSF	Canon Sep 2002	EF 28-105mm f/4-5.6 USM		Disc	3.75× Rotary	f/22– 32	48cm 18.9 in 1.58 ft	0.19× 1:5.3	18.9×12.6cm 14.7×9.79cm 11.7×7.84cm	28.0–105mm 36.1–135mm 45.2–169mm	WA NO NO MT MT TE	75.4–23.3° 61.8–18.1° 51.2–14.6°	65.5–19.5° 53.0–15.1° 43.4–12.1°	46.4–13.0° 36.7–10.1° 29.8–8.12°	IF MUSM	10 E 9 G 6 BC	58mm	67mm 2.64 in	68mm 2.68 in	210g 7.41 oz 0.463 lb	EW-63B Optional
28–105mm	f/4.0–5.6	CG FLM		Canon Sep 2002	EF 28-105mm f/4-5.6		Disc	3.75× Rotary	f/22– 32	48cm 18.9 in 1.58 ft	0.19× 1:5.3	18.9×12.6cm 14.7×9.79cm 11.7×7.84cm	28.0–105mm 36.1–135mm 45.2–169mm	WA NO NO MT MT TE	75.4–23.3° 61.8–18.1° 51.2–14.6°	65.5–19.5° 53.0–15.1° 43.4–12.1°	46.4–13.0° 36.7–10.1° 29.8–8.12°	IF MM	10 E 9 G 6 BC	58mm	67mm 2.64 in	68mm 2.68 in	210g 7.41 oz 0.463 lb	EW-63B Optional

Focal Length	Max Aper	Grade Use	Notes	Manuf	Designation	Image	Price	Zoom	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
28–105mm	f/4.0–5.6	LG FLM		Promaster	28-105mm F/4.0-5.6 AF		Disc	3.75× Rotary	f/22	50.0cm 19.7 in 1.64 ft	0.18× 1:5.6	20.2×13.4cm 15.6×10.4cm 12.5×8.34cm	28.0–105mm 36.1–135mm 45.2–169mm	WA NO NO MT MT TE	75.4–23.3° 61.8–18.1° 51.2–14.6°	65.5–19.5° 53.0–15.1° 43.4–12.1°	46.4–13.0° 36.7–10.1° 29.8–8.12°	IF DC	15 E 12 G N/S	62mm	71mm 2.80 in	78mm 3.07 in	286g 10.1 oz 0.631 lb	Included
28–105mm	f/4.0–5.6	LG FLM		Tamron	AF 28-105mm F/4-5.6 [IF]		Disc	3.75× Rotary	f/22	50cm 19.7 in 1.64 ft	0.18× 1:5.6	20.2×13.4cm 15.6×10.4cm 12.5×8.34cm	28.0–105mm 36.1–135mm 45.2–169mm	WA NO NO MT MT TE	75.4–23.3° 61.8–18.1° 51.2–14.6°	65.5–19.5° 53.0–15.1° 43.4–12.1°	46.4–13.0° 36.7–10.1° 29.8–8.12°	IF DC	15 E 12 G 6 B	62mm	71mm 2.80 in	73mm 2.87 in	305g 10.76 oz 0.672 lb	Included
28–135mm	f/3.5–5.6	SG FLM	HSF IS3	Canon Feb 1998	EF 28-135mm f/3.5-5.6 IS USM		479	4.82× Rotary	f/22–38	50cm 19.7 in 1.64 ft	0.19× 1:5.3	18.9×12.6cm 14.7×9.79cm 11.7×7.84cm	28.0–135mm 36.1–174mm 45.2–218mm	WA NO NO MT TE TE	75.4–18.2° 61.8–14.2° 51.2–11.3°	65.5–15.2° 53.0–11.8° 43.4–9.44°	46.4–10.2° 36.7–7.88° 29.8–6.32°	IF RUSM FTMF	16 E 12 G 6 BC	72mm	78.4mm 3.09 in	96.8mm 3.81 in	540g 19.05 oz 1.190 lb	EW-78BII Optional
28–135mm	f/3.8–5.6	LG FLM		Sigma	28-135mm F3.8-5.6 Aspherical IF Macro		Disc	3.75× Rotary	f/22–32	24cm 9.45 in 0.787 ft	0.50× 1:2	7.20×4.80cm 5.58×3.72cm 4.46×2.98cm	28.0–135mm 36.1–174mm 45.2–218mm	WA NO NO MT TE TE	75.4–18.2° 61.8–14.2° 51.2–11.3°	65.5–15.2° 53.0–11.8° 43.4–9.44°	46.4–10.2° 36.7–7.88° 29.8–6.32°	IF DC	13 E 12 G 7 B	62mm	75mm 2.95 in	75mm 2.95 in	410g 14.46 oz 0.904 lb	Included
28–200mm	f/3.5–5.6	CG FLM	HSF	Canon Sep 2000	EF 28-200mm f/3.5-5.6 USM			7.14× Rotary	f/22–38	45cm 17.7 in 1.48 ft	0.28× 1:3.6	12.9×8.57cm 9.96×6.64cm 7.96×5.32cm	28.0–200mm 36.1–258mm 45.2–323mm	WA NO NO TE TE LT	75.4–12.3° 61.8–9.58° 51.2–7.67°	65.5–10.3° 53.0–7.98° 43.4–6.38°	46.4–6.87° 36.7–5.32° 29.8–4.27°	IF MUSM	16 E 12 G 6 B	72mm	78.4mm 3.09 in	89.6mm 3.53 in	500g 17.64 oz 1.102 lb	EW-78D Optional
28–200mm	f/3.5–5.6	CG FLM		Canon Sep 2000	EF 28-200mm f/3.5-5.6		Disc	7.14× Rotary	f/22–38	45cm 17.7 in 1.48 ft	0.28× 1:3.6	12.9×8.57cm 9.96×6.64cm 7.96×5.32cm	28.0–200mm 36.1–258mm 45.2–323mm	WA NO NO TE TE LT	75.4–12.3° 61.8–9.58° 51.2–7.67°	65.5–10.3° 53.0–7.98° 43.4–6.38°	46.4–6.87° 36.7–5.32° 29.8–4.27°	IF MM	16 E 12 G 6 B	72mm	78.4mm 3.09 in	89.6mm 3.53 in	495g 17.46 oz 1.091 lb	EW-78D Optional
28–200mm	f/3.5–5.6	LG DIG		Sigma	28-200mm F3.5-5.6 DG Compact Aspherical Hyperzoom Macro		Disc	7.14× Rotary	f/22–38	48cm 18.9 in 1.58 ft	0.26× 1:3.8	13.7×9.12cm 10.6×7.07cm 8.47×5.66cm	28.0–200mm 36.1–258mm 45.2–323mm	WA NO NO TE TE LT	75.4–12.3° 61.8–9.58° 51.2–7.67°	65.5–10.3° 53.0–7.98° 43.4–6.38°	46.4–6.87° 36.7–5.32° 29.8–4.27°	DC	16 E 14 G 8 B	62mm	70mm 2.76 in	75.2mm 2.96 in	380g 13.40 oz 0.838 lb	Included
28–200mm	f/3.5–5.6	LG FLM		Sigma	28-200mm F3.5-5.6 Compact Aspherical Hyperzoom Macro		Disc	7.14× Rotary	f/22–38	48cm 18.9 in 1.58 ft	0.26× 1:3.8	13.7×9.12cm 10.6×7.07cm 8.47×5.66cm	28.0–200mm 36.1–258mm 45.2–323mm	WA NO NO TE TE LT	75.4–12.3° 61.8–9.58° 51.2–7.67°	65.5–10.3° 53.0–7.98° 43.4–6.38°	46.4–6.87° 36.7–5.32° 29.8–4.27°	DC	16 E 14 G 8 B	62mm	70mm 2.76 in	75.2mm 2.96 in	380g 13.40 oz 0.838 lb	Included
28–200mm	f/3.8–5.6	LG FLM		Quantaray	28-200mm F3.8-5.6		Disc	7.14× Rotary	f/32	50.0cm 19.7 in 1.64 ft	N/S	N/C	28.0–200mm 36.1–258mm 45.2–323mm	WA NO NO TE TE LT	75.4–12.3° 61.8–9.58° 51.2–7.67°	65.5–10.3° 53.0–7.98° 43.4–6.38°	46.4–6.87° 36.7–5.32° 29.8–4.27°	DC	17 E 13 G N/S	62mm	86.4mm 3.4 in	78.7mm 3.1 in	513g 18.1 oz 1.131 lb	Optional
28–200mm	f/3.8–5.6	LG FLM		Promaster	28-200mm F/3.8-5.6 XR Aspherical AF		Disc	7.14× Rotary	f/22	49cm 19.3 in 1.61 ft	0.25× 1:4	14.4×9.60cm 11.2×10.9cm 8.92×5.96cm	28.0–200mm 36.1–258mm 45.2–323mm	WA NO NO TE TE LT	75.4–12.3° 61.8–9.58° 51.2–7.67°	65.5–10.3° 53.0–7.98° 43.4–6.38°	46.4–6.87° 36.7–5.32° 29.8–4.27°	DC	14 E 10 G N/S	62mm	71.0mm 2.80 in	75.2mm 2.96 in	355g 12.52 oz 0.783 lb	Included

Focal Length	Max Aper	Grade Use	Notes	Manuf	Designation	Image	Price	Zoom	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
28–200mm	f/3.8–5.6	LG DIG		Tamron	AF 28-200mm F/3.8-5.6 XR Di Aspherical [IF] Macro		Disc	7.14× Rotary	f/22	49cm 19.3 in 1.61 ft	0.25× 1:4	14.4×9.60cm 11.2×10.9cm 8.92×5.96cm	28.0–200mm 36.1–258mm 45.2–323mm	WA NO NO TE TE LT	75.4–12.3° 61.8–9.58° 51.2–7.67°	65.5–10.3° 53.0–7.98° 43.4–6.38°	46.4–6.87° 36.7–5.32° 29.8–4.27°	IF DC	15 E 14 G 7 B	62mm	71.0mm 2.80 in	75.2mm 2.96 in	354g 12.49 oz 0.780 lb	Included
28–210mm	f/3.5–5.6	LG FLM		Phoenix	AF 28-210mm f:3.5-5.6 Tele Wide Zoom		Disc	7.50× Linear	f/16– 26	189cm 74.4 in 6.2 ft	0.13× 1:8	28.8×19.2cm 22.3×14.9cm 17.8×11.9cm	28.0–210mm 36.1–271mm 45.2–339mm	WA NO NO TE TE LT	75.4–11.8° 61.8–9.13° 51.2–7.31°	65.5–9.80° 53.0–7.60° 43.4–6.08°	46.4–6.54° 36.7–5.07° 29.8–4.06°	DC	14 E 12 G N/S	72mm	57.9mm 2.28 in	112.0mm 4.41 in	661g 23.3 oz 1.456 lb	Included
28–210mm	f/4.2–6.5	LG FLM		Phoenix Promaster Vivitar	AF 28-210mm F/4.2-6.5 Series 1		Disc	7.50× Linear	f/14– 22	50cm 19.7 in 1.64 ft	0.15× 1:6.8	24.5×16.3cm 19.0×12.6cm 15.2×10.1cm	28.0–210mm 36.1–271mm 45.2–339mm	WA NO NO TE TE LT	75.4–11.8° 61.8–9.13° 51.2–7.31°	65.5–9.80° 53.0–7.60° 43.4–6.08°	46.4–6.54° 36.7–5.07° 29.8–4.06°	IF DC	15 E 13 G 8 B	67mm	72mm 2.83 in	92.5mm 3.64 in	395g 13.93 oz 0.871 lb	Included
28–300mm	f/3.5–5.6	PG DIG	HSF IS3	Canon Jun 2004	EF 28-300mm f/3.5-5.6L IS USM		2689	10.7× Linear	f/22– 40	70cm 27.8 in 2.30 ft	0.30× 1:3.3	13.8×9.23cm 10.7×7.15cm 8.58×5.73cm	28.0–300mm 36.1–387mm 45.2–484mm	WA NO NO LT LT LT	75.4–8.25° 61.8–6.40° 51.2–5.12°	65.5–6.87° 53.0–5.32° 43.4–4.26°	46.4–4.58° 36.7–3.55° 29.8–2.85°	IF RUSM FTMF	22 E 16 G 8 BC	77mm	92mm 3.62 in	184mm 7.24 in	1670g 58.91 oz 3.682 lb	ET-83G Included
28–300mm	f/3.5–6.3	LG DIG		Promaster	28-300mm F/3.5-6.3 XR EDO Aspherical AF		Disc	10.7× Rotary	f/22	49cm 19.3 in 1.61 ft	0.35× 1:2.9	10.4×6.96cm 8.09×5.39cm 6.47×4.32cm	28.0–300mm 36.1–387mm 45.2–484mm	WA NO NO LT LT LT	75.4–8.25° 61.8–6.40° 51.2–5.12°	65.5–6.87° 53.0–5.32° 43.4–4.26°	46.4–4.58° 36.7–3.55° 29.8–2.85°	IF DC	15 E 13 G N/S	62mm	73mm 2.87 in	83.7mm 3.30 in	420g 14.8 oz 0.925 lb	Included
28–300mm	f/3.5–6.3	LG DIG		Sigma	28-300mm F3.5-6.3 DG Macro		Disc	10.7× Rotary	f/22	50cm 19.7 in 1.64 ft	0.33× 1:3.0	10.8×7.20cm 8.37×5.58cm 6.69×4.47cm	28.0–300mm 36.1–387mm 45.2–484mm	WA NO NO LT LT LT	75.4–8.25° 61.8–6.40° 51.2–5.12°	65.5–6.87° 53.0–5.32° 43.4–4.26°	46.4–4.58° 36.7–3.55° 29.8–2.85°	IF DC	15 E 13 G 8 B	62mm	74mm 2.91 in	86mm 3.39 in	490g 17.28 oz 1.080 lb	LH680-01 Included
28–300mm	f/3.5–6.3	LG FLM		Sigma	28-300mm F3.5-6.3 Macro		Disc	10.7× Rotary	f/22– 41	50cm 19.7 in 1.64 ft	0.33× 1:3.0	10.8×7.20cm 8.37×5.58cm 6.69×4.47cm	28.0–300mm 36.1–387mm 45.2–484mm	WA NO NO LT LT LT	75.4–8.25° 61.8–6.40° 51.2–5.12°	65.5–6.87° 53.0–5.32° 43.4–4.26°	46.4–4.58° 36.7–3.55° 29.8–2.85°	DC	15 E 13 G 8 B	62mm	74mm 2.91 in	83.7mm 3.30 in	460g 16.23 oz 1.014 lb	Included
28–300mm	f/3.5–6.3	LG DIG	IS	Tamron	AF 28-300mm F/3.5-6.3 XR Di VC LD Aspherical [IF]		629	10.7× Rotary	f/22– 40	49cm 19.3 in 1.61 ft	0.33× 1:3	10.8×7.20cm 8.37×5.58cm 6.69×4.47cm	28.0–300mm 36.1–387mm 45.2–484mm	WA NO NO LT LT LT	75.4–8.25° 61.8–6.40° 51.2–5.12°	65.5–6.87° 53.0–5.32° 43.4–4.26°	46.4–4.58° 36.7–3.55° 29.8–2.85°	IF DC	18 E 13 G 9 B	67mm	78mm 3.07 in	99mm 3.90 in	555g 19.58 oz 1.224 lb	Included
28–300mm	f/3.5–6.3	LG DIG		Tamron	AF 28-300mm F/3.5-6.3 XR Di LD Aspherical [IF] Macro		419	10.7× Rotary	f/22	49cm 19.3 in 1.61 ft	0.35× 1:2.9	10.4×6.96cm 8.09×5.39cm 6.47×4.32cm	28.0–300mm 36.1–387mm 45.2–484mm	WA NO NO LT LT LT	75.4–8.25° 61.8–6.40° 51.2–5.12°	65.5–6.87° 53.0–5.32° 43.4–4.26°	46.4–4.58° 36.7–3.55° 29.8–2.85°	IF DC	12 E 9 G 9 B	62mm	73mm 2.87 in	83.7mm 3.30 in	420g 14.82 oz 0.926 lb	Included
28–300mm	f/3.8–6.3	LG FLM		Quantaray	28-300mm F3.8-6.3 AF		Disc	10.7× Rotary	f/22	83cm 32.7 in 2.72 ft	0.20× 1:5	18.0×12.0cm 14.0×9.30cm 11.6×7.45cm	28.0–300mm 36.1–387mm 45.2–484mm	WA NO NO LT LT LT	75.4–8.25° 61.8–6.40° 51.2–5.12°	65.5–6.87° 53.0–5.32° 43.4–4.26°	46.4–4.58° 36.7–3.55° 29.8–2.85°	DC	18 E 16 G N/S	67mm	78.7mm 3.10 in	91.4mm 3.60 in	564g 19.89 oz 1.243 lb	Optional

28–300mm

Zoom Lens Table

35–80mm

Focal Length	Max Aper	Grade Use	Notes	Manuf	Designation	Image	Price	Zoom	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
28–300mm	f/4.0–6.3	LG FLM		Phoenix	28-300mm f:4-6.3 Tele Wide Zoom		Disc	10.7× Linear	f/16–25	189cm 74.4 in 6.2 ft	0.18× 1:5.5	19.8×13.2cm 15.3×10.2cm 12.3×8.20cm	28.0–300mm 36.1–387mm 45.2–484mm	WA NO NO LT LT LT	75.4–8.25° 61.8–6.40° 51.2–5.12°	65.5–6.87° 53.0–5.32° 43.4–4.26°	46.4–4.58° 36.7–3.55° 29.8–2.85°	DC	17 E 15 G N/S	77mm	81.3mm 3.2 in	121.9mm 4.8 in	414g 14.6 oz 0.913 lb	Included
28–300mm	f/4.0–6.3	LG FLM		Vivitar	AF 28-300mm F/4.0-6.3 Series 1		Disc	10.7× Linear	f/10–13	190cm 74.8 in 6.23 ft	0.18× 1:5.5	19.8×13.2cm 15.3×10.2cm 12.3×8.20cm	28.0–300mm 36.1–387mm 45.2–484mm	WA NO NO LT LT LT	75.4–8.25° 61.8–6.40° 51.2–5.12°	65.5–6.87° 53.0–5.32° 43.4–4.26°	46.4–4.58° 36.7–3.55° 29.8–2.85°	DC	17 E 15 G N/S	77mm	81.3mm 3.2 in	121.9mm 4.8 in	570g 20.1 oz 1.256 lb	Included
35–70mm	f/3.5–4.5	CG FLM		Canon Oct 1988	EF 35-70mm f/3.5-4.5A		Disc	2.00× Rotary	f/29	39cm 15.4 in 1.28 ft	0.20× 1:5.0	18.0×12.0cm 14.0×9.30cm 11.2×7.45cm	35.0–70.0mm 45.2–90.3mm 56.5–113mm	WA NO NO MT MT MT	63.4–34.3° 51.2–26.9° 41.9–21.7°	54.4–28.8° 43.5–22.5° 35.3–18.1°	37.8–19.5° 29.8–15.1° 24.0–12.2°	IF AFD	9 E 8 G 5 B	52mm	68.8mm 2.71 in	63mm 2.48 in	230g 8.11 oz 0.507 lb	Optional
35–70mm	f/3.5–4.5	CG FLM		Canon Mar 1987	EF 35-70mm f/3.5-4.5			2.00× Rotary	f/29	39cm 15.4 in 1.28 ft	0.20× 1:5.0	18.0×12.0cm 14.0×9.30cm 11.2×7.45cm	35.0–70.0mm 45.2–90.3mm 56.5–113mm	WA NO NO MT MT MT	63.4–34.3° 51.2–26.9° 41.9–21.7°	54.4–28.8° 43.5–22.5° 35.3–18.1°	37.8–19.5° 29.8–15.1° 24.0–12.2°	IF AFD	9 E 8 G 5 B	52mm	70mm 2.76 in	63mm 2.48 in	245g 8.64 oz 0.540 lb	Optional
35–80mm	f/4.0–5.6	CG FLM	HSF	Canon Apr 1992	EF 35-80mm f/4-5.6 USM		Disc	2.29× Rotary	f/22–32	40cm 15.8 in 1.31 ft	0.23× 1:4.3	15.7×10.4cm 12.1×8.09cm 9.70×6.48cm	35.0–80.0mm 45.2–103mm 56.5–129mm	WA NO NO MT MT MT	63.4–30.3° 51.2–23.7° 41.9–19.0°	54.4–25.4° 43.5–19.8° 35.3–15.9°	37.8–17.1° 29.8–13.3° 24.0–10.6°	FRE MUSM	8 E 8 G 5 B	52mm	65mm 2.56 in	63.5mm 2.50 in	175g 6.17 oz 0.386 lb	EW-54II Optional
35–80mm	f/4.0–5.6	CG FLM		Canon Mar 1995	EF 35-80mm f/4-5.6 III		Disc	2.29× Rotary	f/22–32	40cm 15.8 in 1.31 ft	0.23× 1:4.3	15.7×10.4cm 12.1×8.09cm 9.70×6.48cm	35.0–80.0mm 45.2–103mm 56.5–129mm	WA NO NO MT MT MT	63.4–30.3° 51.2–23.7° 41.9–19.0°	54.4–25.4° 43.5–19.8° 35.3–15.9°	37.8–17.1° 29.8–13.3° 24.0–10.6°	FRE MM	8 E 8 G 5 B	52mm	65mm 2.56 in	63.5mm 2.50 in	175g 6.17 oz 0.386 lb	EW-54II Optional
35–80mm	f/4.0–5.6	CG FLM		Canon Sep 1993	EF 35-80mm f/4-5.6 II		Disc	2.29× Rotary	f/22–32	38cm 15.0 in 1.25 ft	0.23× 1:4.3	15.7×10.4cm 12.1×8.09cm 9.70×6.48cm	35.0–80.0mm 45.2–103mm 56.5–129mm	WA NO NO MT MT MT	63.4–30.3° 51.2–23.7° 41.9–19.0°	54.4–25.4° 43.5–19.8° 35.3–15.9°	37.8–17.1° 29.8–13.3° 24.0–10.6°	FRE MM	8 E 8 G 5 B	52mm	65mm 2.56 in	61mm 2.40 in	170g 6.00 oz 0.375 lb	Optional
35–80mm	f/4.0–5.6	CG FLM		Canon Sep 1990	EF 35-80mm f/4-5.6		Disc	2.29× Rotary	f/22–32	37cm 14.6 in 1.21 ft	0.25× 1:4.0	14.4×9.60cm 11.2×7.44cm 8.92×5.96cm	35.0–80.0mm 45.2–103mm 56.5–129mm	WA NO NO MT MT MT	63.4–30.3° 51.2–23.7° 41.9–19.0°	54.4–25.4° 43.5–19.8° 35.3–15.9°	37.8–17.1° 29.8–13.3° 24.0–10.6°	FRE MM	8 E 8 G 5 B	52mm	68.6mm 2.70 in	61mm 2.40 in	180g 6.35 oz 0.397 lb	Optional
35–80mm	f/4.0–5.6	CG FLM		Canon Mar 1990	EF 35-80mm f/4-5.6 PZ		Disc	2.29× Power	f/22–32	50cm 19.7 in 1.64 ft	0.18× 1:5.6	20.0×13.3cm 15.5×10.3cm 12.4×8.28cm	35.0–80.0mm 45.2–103mm 56.5–129mm	WA NO NO MT MT MT	63.4–30.3° 51.2–23.7° 41.9–19.0°	54.4–25.4° 43.5–19.8° 35.3–15.9°	37.8–17.1° 29.8–13.3° 24.0–10.6°	IF MM	7 E 7 G 5 B	52mm	68mm 2.68 in	72mm 2.83 in	205g 7.23 oz 0.452 lb	Optional

Focal Length	Max Aper	Grade Use	Notes	Manuf	Designation	Image	Price	Zoom	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
35–105mm	f/3.5–4.5	CG FLM		Canon Mar 1987	EF 35-105mm f/3.5-4.5		Disc	3.00× Linear	f/29	85cm 33.5 in 2.79 ft	0.16× 1:6.3	21.2×14.1cm 16.4×10.9cm 13.1×8.77cm	35.0–105mm 45.2–135mm 56.5–169mm	WA NO NO MT MT TE	63.4–23.3° 51.2–18.1° 41.9–14.6°	54.4–19.5° 43.5–15.1° 35.3–12.1°	37.8–13.0° 29.8–10.1° 24.0–8.12°	IF AFD	14 E 11 G 5 B	58mm	73.2mm 2.88 in	81.9mm 3.22 in	400g 14.11 oz 0.882 lb	Optional
35–105mm	f/4.5–5.6	CG FLM	HSF	Canon Jun 1992	EF 35-105mm f/4.5-5.6 USM		Disc	3.00× Rotary	f/29	85cm 33.5 in 2.79 ft	0.16× 1:6.3	21.2×14.1cm 16.4×10.9cm 13.1×8.77cm	35.0–105mm 45.2–135mm 56.5–169mm	WA NO NO MT MT TE	63.4–23.3° 51.2–18.1° 41.9–14.6°	54.4–19.5° 43.5–15.1° 35.3–12.1°	37.8–13.0° 29.8–10.1° 24.0–8.12°	FRE MUSM	13 E 12 G 5 B	58mm	68mm 2.68 in	63mm 2.48 in	280g 9.88 oz 0.617 lb	Optional
35–105mm	f/4.5–5.6	CG FLM		Canon Apr 1991	EF 35-105mm f/4.5-5.6		Disc	3.00× Rotary	f/29	85cm 33.5 in 2.79 ft	0.16× 1:6.3	21.2×14.1cm 16.4×10.9cm 13.1×8.77cm	35.0–105mm 45.2–135mm 56.5–169mm	WA NO NO MT MT TE	63.4–23.3° 51.2–18.1° 41.9–14.6°	54.4–19.5° 43.5–15.1° 35.3–12.1°	37.8–13.0° 29.8–10.1° 24.0–8.12°	FRE MM	13 E 12 G 5 B	58mm	70.6mm 2.78 in	63.3mm 2.49 in	280g 9.88 oz 0.617 lb	Optional
35–135mm	f/3.5–4.5	CG FLM		Canon Jun 1988	EF 35-135mm f/3.5-4.5		Disc	3.86× Linear	f/29	95cm 37.4 in 3.12 ft	0.18× 1:5.6	20.0×13.3cm 15.5×10.3cm 12.4×8.28cm	35.0–135mm 45.2–174mm 56.5–218mm	WA NO NO MT TE TE	63.4–18.2° 51.2–14.2° 41.9–11.3°	54.4–15.2° 43.5–11.8° 35.3–9.44°	37.8–10.2° 29.8–7.88° 24.0–6.32°	FRE AFD	15 E 12 G 6 B	58mm	73.4mm 2.89 in	94.5mm 3.72 in	475g 16.76 oz 1.047 lb	Optional
35–135mm	f/4.0–5.6	CG FLM	HSF	Canon Mar 1990	EF 35-135mm f/4-5.6 USM		Disc	3.86× Rotary	f/32	75cm 29.5 in 2.46 ft	0.15× 1:6.7	24.0×16.0cm 18.6×12.4cm 14.9×9.93cm	35.0–135mm 45.2–174mm 56.5–218mm	WA NO NO MT TE TE	63.4–18.2° 51.2–14.2° 41.9–11.3°	54.4–15.2° 43.5–11.8° 35.3–9.44°	37.8–10.2° 29.8–7.88° 24.0–6.32°	RF MUSM	14 E 12 G 5 B	58mm	72mm 2.83 in	86.4mm 3.40 in	425g 14.99 oz 0.937 lb	Optional
35–350mm	f/3.5–5.6	PG FLM	HSF	Canon Jan 1993	EF 35-350mm f/3.5-5.6L USM		Disc	10.0× Linear	f/22– 32	60cm 23.6 in 1.97 ft	0.25× 1:4.0	14.4×9.60cm 11.2×7.44cm 8.92×5.96cm	35.0–350mm 45.2–452mm 56.5–565mm	WA NO NO LT LT ST	63.4–7.07° 51.2–5.49° 41.9–4.39°	54.4–5.89° 43.5–4.56° 35.3–3.65°	37.8–3.93° 29.8–3.04° 24.0–2.44°	RF RUSM FTMF	21 E 15 G 8 B	72mm	85mm 3.35 in	167.4mm 6.59 in	1385g 48.85 oz 3.053 lb	Included
38–76mm	f/4.0–5.6	SG FLM		Canon Feb 1995	EF 38-76mm f/4-5.6		Disc	2.00× Rotary	f/27	58cm 22.8 in 1.90 ft	0.15× 1:6.7	24.0×16.0cm 18.6×12.4cm 14.9×9.93cm	38.0–76.0mm 49.0–98.1mm 61.3–123mm	NO NO NO MT MT MT	59.3–31.8° 47.6–24.9° 38.9–20.0°	50.7–26.6° 40.3–20.8° 32.7–16.7°	35.1–17.9° 27.5–14.0° 22.2–11.2°	IF MM	6 E 6 G 5 B	52mm	65mm 2.56 in	63.8mm 2.51 in	155g 5.47 oz 0.342 lb	Optional
50–135mm	f/2.8	HG APS		Tokina	AT-X 535 PRO DX		Disc	2.70× Rotary	f/32	100cm 39.4 in 3.28 ft	0.17× 1:5.89	N/A N/A 13.1×8.78cm	N/A N/A 80.7–218mm	N/A N/A MT TE	N/A N/A 30.0–11.3°	N/A N/A 25.1–9.44°	N/A N/A 16.9–6.32°	IF DC	18 E 14 G 9 B	67mm	78.2mm 3.08 in	135.2mm 5.32 in	845g 29.81 oz 1.863 lb	BH-761 Included
50–150mm	f/2.8	HG APS	HSF IS4 STC	Sigma	APO 50-150mm F2.8 EX DC OS HSM		999	3.00× Rotary	f/22	80cm 31.5 in 2.63 ft	0.16× 1:6.4	N/A N/A 14.3×9.54cm	N/A N/A 80.7–242mm	N/A N/A MT TE	N/A N/A 30.0–10.2°	N/A N/A 25.1–8.50°	N/A N/A 16.9–5.69°	IF HSM	21 E 15 G 9 BC	77mm	86.4mm 3.40 in	197.6mm 7.78 in	N/S	LH850-02 Included

Focal Length	Max Aper	Grade Use	Notes	Manuf	Designation	Image	Price	Zoom	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
50–150mm	f/2.8	HG APS	HSF STC	Sigma	50-150mm F2.8 EX DC APO HSM II		Disc	3.00× Rotary	f/22	100cm 39.4 in 3.28 ft	0.19× 1:5.3	N/A N/A 11.6×7.75cm	N/A N/A 80.7–242mm	N/A N/A MT-TE	N/A N/A 30.0–10.2°	N/A N/A 25.1–8.50°	N/A N/A 16.9–5.69°	IF HSM FTMF	18 E 14 G 9 B	67mm	76.5mm 3.01 in	140.2mm 5.52 in	780g 27.51 oz 1.720 lb	LH732-01 Included
50–150mm	f/2.8	HG APS	HSF STC	Sigma	50-150mm F2.8 EX DC APO HSM		Disc	3.00× Rotary	f/22	100cm 39.4 in 3.28 ft	0.19× 1:5.3	N/A N/A 11.6×7.75cm	N/A N/A 80.7–242mm	N/A N/A MT-TE	N/A N/A 30.0–10.2°	N/A N/A 25.1–8.50°	N/A N/A 16.9–5.69°	IF HSM FTMF	18 E 14 G 9 B	67mm	76.3mm 3.00 in	135.1mm 5.32 in	770g 27.16 oz 1.698 lb	Included
50–200mm	f/3.5–4.5	PG FLM		Canon Jun 1988	EF 50-200mm f/3.5-4.5L		Disc	4.00× Linear	f/29	120cm 47.2 in 3.94 ft	0.23× 1:4.3	15.7×10.4cm 12.1×8.09cm 9.70×6.48cm	50.0–200mm 64.5–258mm 80.7–323mm	NO-TE NO-TE MT-LT	46.8–12.3° 37.1–9.58° 30.0–7.67°	39.6–10.3° 31.2–7.98° 25.1–6.38°	27.0–6.87° 21.1–5.32° 16.9–4.27°	IF AFD	16 E 13 G 8 B	58mm	75.6mm 2.98 in	145.8mm 5.74 in	695g 24.52 oz 1.532 lb	Included
50–200mm	f/3.5–4.5	SG FLM		Canon Dec 1987	EF 50-200mm f/3.5-4.5		Disc	4.00× Linear	f/29	120cm 47.2 in 3.94 ft	0.23× 1:4.3	15.7×10.4cm 12.1×8.09cm 9.70×6.48cm	50.0–200mm 64.5–258mm 80.7–323mm	NO-TE NO-TE MT-LT	46.8–12.3° 37.1–9.58° 30.0–7.67°	39.6–10.3° 31.2–7.98° 25.1–6.38°	27.0–6.87° 21.1–5.32° 16.9–4.27°	IF MM	16 E 13 G 8 B	58mm	75.6mm 2.98 in	146.4mm 5.76 in	690g 24.34 oz 1.521 lb	Optional
50–200mm	f/4.0–5.6	LG APS	HSF IS4	Sigma	50-200mm F4-5.6 DC OS HSM		Disc	4.00× Rotary	f/22	110cm 43.3 in 3.61 ft	0.22× 1:4.5	N/A N/A 10.0×6.70cm	N/A N/A 80.7–323mm	N/A N/A MT-LT	N/A N/A 30.0–7.67°	N/A N/A 25.1–6.38°	N/A N/A 16.9–4.27°	IF HSM	14 E 10 G 8 B	55mm	74.4mm 2.93 in	102.2mm 4.02 in	420g 14.82 oz 0.926 lb	LH674-01 Included
50–500mm	f/4.0–6.3	HG DIG	HSF ST5	Sigma	50-500mm f4-6.3 EX DG APO HSM		Disc	10.0× Rotary	f/22	300cm 118 in 9.84 ft	0.19× 1:5.2	18.7×12.5cm 14.5×9.67cm 11.6×7.75cm	50.0–500mm 64.5–645mm 80.7–807mm	NO-LT NO-ST MT-ST	46.8–4.95° 37.1–3.84° 30.0–3.07°	39.6–4.12° 31.2–3.20° 25.1–2.55°	27.0–2.75° 21.1–2.13° 16.9–1.71°	RF HSM	20 E 16 G 9 B	86mm	95mm 3.74 in	218.5mm 8.60 in	1840g 64.90 oz 4.057 lb	LH935-01 Included
50–500mm	f/4.0–6.3	HG FLM	HSF ST5	Sigma	50-500mm F4-6.3 EX APO RF HSM		Disc	10.0× Rotary	f/22	100cm 39.4 in 3.28 ft	0.19× 1:5.2	18.7×12.5cm 14.5×9.67cm 11.6×7.75cm	50.0–500mm 64.5–645mm 80.7–807mm	NO-LT NO-ST MT-ST	46.8–4.95° 37.1–3.84° 30.0–3.07°	39.6–4.12° 31.2–3.20° 25.1–2.55°	27.0–2.75° 21.1–2.13° 16.9–1.71°	RF HSM	20 E 16 G 9 B	86mm	94mm 3.70 in	218mm 8.58 in	1650g 58.20 oz 3.638 lb	Included
50–500mm	f/4.5–6.3	LG DIG	HSF IS4 STC	Sigma	50-500mm F4.5-6.3 APO DG OS HSM		1659	10.0× Rotary	f/22	50cm 19.7 in 1.64 ft	0.32× 1:3.1	11.2×7.44cm 8.65×5.77cm 6.91×4.62cm	50.0–500mm 64.5–645mm 80.7–807mm	NO-LT NO-ST MT-ST	46.8–4.95° 37.1–3.84° 30.0–3.07°	39.6–4.12° 31.2–3.20° 25.1–2.55°	27.0–2.75° 21.1–2.13° 16.9–1.71°	RF HSM	22 E 6 G 9 B	95mm	104.4mm 4.11 in	219mm 8.62 in	1970g 69.49 oz 4.343 lb	LH1030-01 Included
55–200mm	f/4.0–5.6	LG APS		Quantaray	55-200mm F4-5.6 DC AF		Disc	3.64× Rotary	f/22	110cm 43.3 in 3.61 ft	0.22× 1:4.5	N/A N/A 10.0×6.70cm	N/A N/A 88.7–323mm	N/A N/A MT-LT	N/A N/A 27.4–7.67°	N/A N/A 22.9–6.38°	N/A N/A 15.4–4.27°	DC	10 E 9 G 8 B	55mm	70.0mm 2.76 in	84.6mm 3.33 in	310g 10.93 oz 0.683 lb	Optional
55–200mm	f/4.0–5.6	LG APS		Promaster	55-200mm F/4.0-5.6 Digital XR EDO Aspherical AF		Disc	3.64× Rotary	f/32	95cm 37.4 in 3.12 ft	0.29× 1:3.5	N/A N/A 7.81×5.22cm	N/A N/A 88.7–323mm	N/A N/A MT-LT	N/A N/A 27.4–7.67°	N/A N/A 22.9–6.38°	N/A N/A 15.4–4.27°	IF DC	13 E 9 G N/S	52mm	71.6mm 2.82 in	83mm 3.27 in	295g 10.4 oz 0.650 lb	Included

Focal Length	Max Aper	Grade Use	Notes	Manuf	Designation	Image	Price	Zoom	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
55–200mm	f/4.0–5.6	LG APS		Sigma	55-200mm F4-5.6 DC		Disc	3.64× Rotary	f/22	110cm 43.3 in 3.61 ft	0.22× 1:4.5	N/A N/A 10.0×6.70cm	N/A N/A 88.7–323mm	N/A N/A MT-LT	N/A N/A 27.4–7.67°	N/A N/A 22.9–6.38°	N/A N/A 15.4–4.27°	FF DC	12 E 9 G 8 B	55mm	71.5mm 2.81 in	87.1mm 3.43 in	310g 10.93 oz 0.683 lb	H595-01 Included
55–200mm	f/4.0–5.6	LG APS		Tamron	AF 55-200mm F/4-5.6 Di-II LD Macro		199	3.64× Rotary	f/32	95cm 37.4 in 3.12 ft	0.29× 1:3.5	N/A N/A 7.81×5.22cm	N/A N/A 88.7–323mm	N/A N/A MT-LT	N/A N/A 27.4–7.67°	N/A N/A 22.9–6.38°	N/A N/A 15.4–4.27°	IF DC	13 E 9 G 9 B	52mm	71.6mm 2.82 in	83.0mm 3.27 in	300g 10.58 oz 0.661 lb	Included
55–200mm	f/4.5–5.6	CG DIG	HSF	Canon Sep 2003	EF 55-200mm f/4.5-5.6 II USM		Disc	3.64× Rotary	f/22–27	120cm 47.2 in 3.94 ft	0.21× 1:4.8	17.1×11.4cm 13.3×8.86cm 10.6×7.10cm	55.0–200mm 71.0–258mm 88.7–323mm	NO-TE MT-TE MT-LT	42.9–12.3° 33.9–9.58° 27.4–7.67°	36.2–10.3° 28.5–7.98° 22.9–6.38°	24.6–6.87° 19.2–5.32° 15.4–4.27°	FRE MUSM	13 E 13 G 6 B	52mm	70.4mm 2.77 in	97.3mm 3.83 in	310g 10.93 oz 0.683 lb	ET-54 Optional
55–200mm	f/4.5–5.6	CG FLM	HSF	Canon Mar 1998	EF 55-200mm f/4.5-5.6 USM		Disc	3.64× Rotary	f/22–27	120cm 47.2 in 3.94 ft	0.21× 1:4.8	17.1×11.4cm 13.3×8.86cm 10.6×7.10cm	55.0–200mm 71.0–258mm 88.7–323mm	NO-TE MT-TE MT-LT	42.9–12.3° 33.9–9.58° 27.4–7.67°	36.2–10.3° 28.5–7.98° 22.9–6.38°	24.6–6.87° 19.2–5.32° 15.4–4.27°	FRE MUSM	13 E 13 G 6 B	52mm	70.4mm 2.77 in	97.3mm 3.83 in	310g 10.93 oz 0.683 lb	ET-54 Optional
55–250mm	f/4.0–5.6	CG APS	IS4	Canon	EF-S 55-250mm f/4-5.6 IS II		299	4.55× Rotary	f/22–32	110cm 43.3 in 3.61 ft	0.31× 1:3.2	N/A N/A 7.19×4.81cm	N/A N/A 88.7–403mm	N/A N/A MT-LT	N/A N/A 27.4–6.14°	N/A N/A 22.9–5.11°	N/A N/A 15.4–3.41°	FRE MM	12 E 10 G 7 BC	58mm	70mm 2.76 in	108mm 4.25 in	390g 13.76 oz 0.860 lb	ET-60 Optional
55–250mm	f/4.0–5.6	CG APS	IS4	Canon Nov 2007	EF-S 55-250mm f/4-5.6 IS		Disc	4.55× Rotary	f/22–32	110cm 43.3 in 3.61 ft	0.31× 1:3.2	N/A N/A 7.19×4.81cm	N/A N/A 88.7–403mm	N/A N/A MT-LT	N/A N/A 27.4–6.14°	N/A N/A 22.9–5.11°	N/A N/A 15.4–3.41°	FRE MM	12 E 10 G 7 BC	58mm	70mm 2.76 in	108mm 4.25 in	390g 13.76 oz 0.860 lb	ET-60 Optional