

**Lens**

	<b>EFL</b>	<b>EXPP</b>	<b>ENPP</b>	<b>BFL</b>
Canon 17mm f/4 TSE	17.28	90.58		54.57
Canon 24mm f/3.5 TSE-II	24.36	85.79		55.41
Canon 50mm f/1.2 L	51.95	103.35	19.25	37.95
Canon 85mm f/1.2 L		97.72	70.85	39.10
Canon 17-55mm f/2.8 EF-S @ 17mm	17.59		31.06	35.46
Canon 17-55mm f/2.8 EF-S @ 35mm		215.12	70.19	
Canon 17-55mm f/2.8 EF-S @ 55mm	53.35	185.75	102.55	48.35
Canon 17-85mm f/4-5.6 EF-S @ 17mm	17.26		26.68	37.91
Canon 17-85mm f/4-5.6 EF-S @ 85mm	84.18	130.32	124.20	50.48
Canon Zoom 24-105mm f/4 L @ 024mm	24.85	106.25		40.55
Canon Zoom 24-105mm f/4 L @ 105mm	101.15	102.45		58.65
Canon Zoom 24-70mm f/2.8 MKII L @ 24mm	24.55	108.30	32.15	37.93
Canon Zoom 24-70mm f/2.8 MKII L @ 70mm	67.92	106.10	92.68	63.40
Canon Zoom 70-200mm f/2.8 MKII L @ 070mm	72.57	110.80	97.54	54.25
Canon Zoom 70-200mm f/2.8 MKII L @ 200mm	191.98	110.80		54.25
Coastal 105mm f/4.5 UVIR	105.69	94.80	11.95	54.65
Coastal 4.88mm f/5 Circular DX Fisheye	4.88	42.55	22.22	37.30
Coastal 60mm f/4 UVIR (SN001)	59.54	58.20	27.15	41.79
Leica-M 28mm f/2.8 ASPH Elmarit	28.42	29.60	12.17	15.96
Leica-M 35mm f/1.4 ASPH Summilux	35.48	40.50	16.00	20.01
Leica-M 50mm f/2.5 Summarit	50.09	41.37	27.48	24.39
Leica-M 50mm f/2.0 Summicron	52.50	49.93	27.21	30.81
Nikon 1000mm f/11 Ai	1022.50			46.25
Nikon 105mm f/2.5 AiS	105.64	88.50	58.87	39.72
Nikon 105mm f/2.8 AiS Micro	105.06	79.92	30.22	43.86
Nikon 105mm f/4.0 Micro Bellows	104.56	105.86	27.06	87.01
Nikon 105mm f/4.5 UV	105.34	110.30	21.40	87.05
Nikon 135mm f/2.0 AiS	135.17	73.23	109.13	38.80
Nikon 135mm f/3.5 AiS	136.14	92.86	49.52	57.17
Nikon 15mm f/3.5 Ai	15.50	62.62	34.30	38.45
Nikon 16mm f/3.5 Ai'd	16.14	51.55	15.80	38.19
Nikon 180mm f/2.8 AiS ED	180.67	75.20	168.49	41.37
Nikon 200mm f/3.5 ED F3AF	197.63	107.96	157.30	81.17
Nikon 200mm f/4.0 Ai	200.41	97.06	83.92	49.14
Nikon 200mm f/4.0 AiS	201.46	96.91	86.22	49.77
Nikon 20mm f/2.8 AFD	20.55	53.33	17.55	38.25
Nikon 24mm f/1.4 AFG		75.25	37.70	37.85
Nikon 24mm f/2.0 AiS	24.45	69.55	19.30	38.44
Nikon 24mm f/2.8 AiS	24.03	60.87	18.65	38.23
Nikon 28mm f/1.4 AFD	28.60	82.44	30.42	38.07
Nikon 28mm f/2.0 AiS	28.86	61.48	24.45	38.51
Nikon 28mm f/2.8 AiS	28.56	55.00	22.64	39.10
Nikon 28mm f/3.5 Ai	28.67	56.55	21.85	39.57
Nikon 28mm f/3.5 non-Ai				
Nikon 28mm f/3.5 PC	28.85	63.15	23.25	49.45
Nikon 300mm f/4.5 Ai ED non-IF	301.98	100.77		77.36
Nikon 35mm f/1.4 AFG		76.10	34.95	38.15
Nikon 35mm f/1.4 AiS	36.19	80.35	27.05	38.34
Nikon 35mm f/1.8 DX	35.90	136.05	18.10	38.90
Nikon 35mm f/2.0 AiS	35.00	59.10	28.08	40.81
Nikon 400mm f/5.6 non-AI ED	407.45	139.20		95.77
Nikon 45mm f/2.8 Ai'd GN				
Nikon 45mm f/2.8 AiP	45.88	52.53	3.85	38.68
Nikon 500mm f/8.0 Ai	509.44			44.78
Nikon 50mm f/1.2 AiS	51.87	103.40	16.80	38.39
Nikon 50mm f/1.4 AFG max beyond infinity	51.63	81.50	22.10	38.90
Nikon 50mm f/1.4 AFG infinity	51.63			38.90

Nikon 50mm f/1.4 AiS	51.85	71.60	30.10	38.53
Nikon 50mm f/1.8 Ai	51.85	56.03	23.78	38.00
Nikon 50mm f/1.8 AiS Pancake	51.75	55.66	17.11	38.40
Nikon 50mm f/2.0 Ai	51.78	58.80	14.60	38.45
Nikon 50mm f/2.0 non-Ai				
Nikon 55mm f/1.2 Ai'd newer	55.11	91.82	22.80	38.92
Nikon 55mm f/1.2 Ai'd older	55.21	90.85	23.10	38.93
Nikon 55mm f/2.8 AiS Micro	55.28	56.80	15.24	42.59
Nikon 58mm f/1.2 AiS Noct	58.15	83.00	16.95	37.90
Nikon 58mm f/1.4 AFG max beyond infinity	58.17	68.60	29.00	39.17
Nikon 58mm f/1.4 non-Ai				
Nikon 80mm f/2.8 F3AF	81.37	95.55	20.05	40.47
Nikon 85mm f/1.4 AFG		88.90	82.10	42.15
Nikon 85mm f/1.4 AiS	85.09	67.23	61.40	42.57
Nikon 85mm f/1.8 Ai'd	85.13	68.31	51.75	43.36
Nikon 85mm f/2.0 AiS	85.38	70.85	22.02	43.66
Nikon Zoom 14-24mm f/2.8 AFG @ 24mm	23.22	96.50	29.32	53.88
Nikon Zoom 14-24mm f/2.8 AFG @ 14mm	?	81.05	31.75	38.57
Nikon Zoom 17-35mm f/2.8 AFD @ 17mm	17.64	98.58		38.44
Nikon Zoom 17-35mm f/2.8 AFD @ 35mm	34.23	77.78		53.48
Nikon Zoom 24-70mm f/2.8 AFG @ 24mm	24.65	116.55	33.05	41.75
Nikon Zoom 24-70mm f/2.8 AFG @ 70mm	68.25	92.45	44.10	42.00
Nikon Zoom 24-85mm f/2.8 - 4.0 AFD @ 24mm	25.09	65.03	28.32	37.86
Nikon Zoom 24-85mm f/2.8 - 4.0 AFD @ 85mm	83.31	87.82	94.16	66.41
Nikon Zoom 25-50mm f/4.0 AiS @ 25mm	25.29	51.15	33.13	39.60
Nikon Zoom 25-50mm f/4.0 AiS @ 50mm	48.44	72.10	27.55	60.78
Nikon Zoom 28-70mm f/2.8 AFD @28mm	28.90	101.10	39.60	40.00
Nikon Zoom 28-70mm f/2.8 AFD @70mm	68.21	88.72	47.66	58.06
Nikon Zoom 35-70mm f/2.8 AFD @35mm	39.10	83.86	36.93	38.01
Nikon Zoom 35-70mm f/2.8 AFD @70mm	69.05	72.94	39.10	49.02
Nikon Zoom 35-105 f/3.5-4.5 AiS @35mm	35.80	88.45	27.14	49.51
Nikon Zoom 35-105 f/3.5-4.5 AiS @105mm	103.04	101.60	69.82	75.34
Nikon Zoom 50-135mm f/3.5 AiS @ 050mm	51.65	93.05	45.50	41.00
Nikon Zoom 50-135mm f/3.5 AiS @ 135mm	131.68	93.05	117.50	41.00
Nikon Zoom 50-300mm f/4.5 Ai @ 050mm				
Nikon Zoom 50-300mm f/4.5 Ai @300mm				
Nikon Zoom 70-180mm f/4.5-5.6 AFD @ 070mm	72.22	78.21	72.00	51.05
Nikon Zoom 70-180mm f/4.5-5.6 AFD @ 180mm	177.27	101.94	72.00	75.10
Nikon Zoom 70-200mm f/2.8 VR G Mkl@ 070mm	71.84	146.00		66.25
Nikon Zoom 70-200mm f/2.8 VR G Mkl@ 200mm	198.67	146.00		66.25
Panasonic-Leica 25mm f/1.4 M4/3			28.81	
Samyang 24mm f/1.4	24.82	75.77	31.42	38.24
Samyang 35mm f/1.4	36.18	64.38	42.00	38.18
Samyang 85mm f/1.4	85.22	57.67	96.45	39.32
Sigma 20mm f/1.4 ART (Nikon mount)	20.67	100.70	33.41	38.42
Sigma 24mm f/1.4 ART (Nikon mount)	24.48	91.00	26.64	38.38
Sigma 30mm f/1.4 DX ART		76.40		
Sigma 35mm f/1.4 ART (Canon mount)	34.60	77.55	34.75	39.55
Sigma 50mm f/1.4 (Canon mount)	48.16	97.75	36.93	38.55
Sigma 85mm f/1.4 (Canon mount)	83.64	58.09	104.50	39.14
Sigma Zoom 120-300mm f/2.8 ART @ 120mm		102.88		56.73
Sigma Zoom 120-300mm f/2.8 ART @ 300mm		102.50		55.40
Sigma Zoom 18-35mm f/1.8 ART @ 18mm	18.57	149.35	26.60	38.60
Sigma Zoom 18-35mm f/1.8 ART @ 20mm		142.45		
Sigma Zoom 18-35mm f/1.8 ART @ 24mm		114.30		
Sigma Zoom 18-35mm f/1.8 ART @ 28mm		91.35		
Sigma Zoom 18-35mm f/1.8 ART @ 35mm	33.85	70.30	35.28	40.77
Sigma Zoom 200-500mm f/2.8 @ 200mm		88.00		54.35
Sigma Zoom 200-500mm f/2.8 @ 500mm		88.00		54.35

Sigma Zoom 50-150mm f/2.8 EX Apo @ 050mm	51.93	189.30	76.87	55.46
Sigma Zoom 50-150mm f/2.8 EX Apo @ 150mm	145.48	189.30	182.90 @ 100mm	55.46
Tokina Zoom 11-16mm f/2.8 @ 11mm	11.75	100.00	19.10	38.85
Tokina Zoom 11-16mm f/2.8 @ 16mm	15.85	111.00	18.05	49.20
Voigtlander 15mm f/4.5 Heliar for Leica M	15.58	24.96	11.89	14.96
Voigtlander 35mm f/1.2 Leica M	35.91	44.51	26.55	22.49
Voigtlander 40mm f/2.0 Nikon F	41.40	61.79	13.90	38.39
Voigtlander 50mm f/1.5 Leica M	51.58	49.16	28.56	31.26
Voigtlander 90mm f/3.5 Nikon F	88.13	72.95	26.65	52.90
Zeiss C/Y 1000mm f/5.6 Mirotar	1020.60	536.70	0.00	164.30
Zeiss C/Y 100mm f/2 Planar	99.90	90.70	59.00	57.90
Zeiss C/Y 100mm f/2.8 Makro-Planar	100.00	75.00	39.90	48.50
Zeiss C/Y 100mm f/4 S-Planar Bellows	100.00	115.60	37.50	72.90
Zeiss C/Y 135mm f/2 Planar	132.80	73.60	131.70	61.40
Zeiss C/Y 135mm f/2.8 Sonnar	134.10	86.70	64.50	54.30
Zeiss C/Y 15mm f/3.5 Distagon	15.40	55.70	34.60	36.30
Zeiss C/Y 16mm f/2.8 F-Distagon	15.80	68.10	15.60	37.60
Zeiss C/Y 180mm f/2.8 Sonnar (new version)	178.10	88.10	171.40	74.70
Zeiss C/Y 180mm f/2.8 Sonnar (old version)	178.10	88.30	171.40	74.90
Zeiss C/Y 18mm f/4 Distagon	18.60	48.20	23.30	36.30
Zeiss C/Y 200mm f/2 Aposonnar	199.90	114.70	200.40	59.70
Zeiss C/Y 200mm f/3.5 Tele-Tessar	194.00	62.00	168.40	41.10
Zeiss C/Y 21mm f/2.8 Distagon	21.00	56.20	23.20	37.00
Zeiss C/Y 25mm f/1.4 Distagon	25.80	77.20	38.10	37.10
Zeiss C/Y 25mm f/2.8 Distagon	25.90	54.40	23.00	37.80
Zeiss C/Y 28mm f/2 Distagon	28.80	63.60	24.30	36.60
Zeiss C/Y 28mm f/2.8 Distagon	28.50	54.10	22.90	37.80
Zeiss C/Y 300mm f/2.8 Tele-Apotessar	300.60	104.00	446.70	67.70
Zeiss C/Y 300mm f/4 Tele-Tessar	300.00	121.10	238.40	89.20
Zeiss C/Y 35mm f/1.4 Distagon	36.50	64.90	32.50	36.90
Zeiss C/Y 35mm f/2.8 Distagon	35.90	52.40	24.40	38.50
Zeiss C/Y 35mm f/2.8 PC-Distagon	35.20	66.60	28.60	47.60
Zeiss C/Y 45mm f/2.8 Tessar	46.50	42.60	10.50	36.90
Zeiss C/Y 500mm f/4.5 Mirotar	504.50	259.20	0.00	78.20
Zeiss C/Y 500mm f/5.6 Tele-Apotessar	499.70	144.20	594.20	119.30
Zeiss C/Y 500mm f/8 Mirotar	500.00	120.60	144.00	52.60
Zeiss C/Y 50mm f/1.4 Planar	51.80	66.40	26.80	38.20
Zeiss C/Y 50mm f/1.7 Planar	51.90	67.10	22.90	38.20
Zeiss C/Y 55mm f/1.2 Planar	55.50	80.70	30.70	38.40
Zeiss C/Y 60mm f/2.8 Makro-Planar	61.70	62.80	24.20	39.90
Zeiss C/Y 800mm f/8 Tele-Apotessar	801.10	235.40	1175.70	216.00
Zeiss C/Y 85mm f/1.2 Planar	83.00	68.10	71.40	38.20
Zeiss C/Y 85mm f/1.4 Planar	84.80	62.40	68.70	39.30
Zeiss C/Y 85mm f/2.8 Sonnar	87.60	61.50	36.60	41.00
Zeiss C/Y Zoom 100-300mm f/4.5 - 5.6 Vario-Sonnar @ 100mm	102.00	63.70	89.00	40.00
Zeiss C/Y Zoom 100-300mm f/4.5 - 5.6 Vario-Sonnar @ 300mm	298.00	102.70	245.20	73.60
Zeiss C/Y Zoom 28-70mm f/3.5 - 4.5 Vario-Sonnar @ 28mm	28.00	50.00	28.10	41.50
Zeiss C/Y Zoom 28-70mm f/3.5 - 4.5 Vario-Sonnar @ 70mm	67.90	81.40	18.50	60.80
Zeiss C/Y Zoom 28-85mm f/3.3 - 4.0 Vario-Sonnar @ 28mm	29.00	109.50	39.70	41.40
Zeiss C/Y Zoom 28-85mm f/3.3 - 4.0 Vario-Sonnar @ 85mm	82.40	105.80	40.40	41.40
Zeiss C/Y Zoom 35-135mm f/3.3 - 4.5 Vario-Sonnar @ 135mm	131.30	128.50	108.80	46.00
Zeiss C/Y Zoom 35-135mm f/3.3 - 4.5 Vario-Sonnar @ 35mm	35.90	75.90	35.70	46.00
Zeiss C/Y Zoom 35-70mm f/3.4 Vario-Sonnar @ 35mm	35.70	57.00	39.50	40.60
Zeiss C/Y Zoom 35-70mm f/3.4 Vario-Sonnar @ 70mm	69.00	78.60	26.50	62.20
Zeiss C/Y Zoom 40-80mm f/3.5 Vario-Sonnar @ 40mm	41.10	79.70	29.20	45.90
Zeiss C/Y Zoom 40-80mm f/3.5 Vario-Sonnar @ 40mm	77.70	89.20	60.40	55.40
Zeiss C/Y Zoom 70-210mm f/3.5 Vario-Sonnar @ 0210mm	203.00	97.10	209.30	49.10
Zeiss C/Y Zoom 70-210mm f/3.5 Vario-Sonnar @ 070mm	72.00	97.20	63.90	49.20
Zeiss C/Y Zoom 80-200mm f/4 Vario-Sonnar @ 080mm	81.50	95.10	56.50	48.60

Zeiss C/Y Zoom 80-200mm f/4 Vario-Sonnar @ 200mm	198.00	95.10	148.20	48.60
Zeiss CZ.2 Zoom 15-30mm T/2.9 @ 15mm		90.35		38.85
Zeiss CZ.2 Zoom 15-30mm T/2.9 @ 30mm		130.15		38.85
Zeiss CZ.2 Zoom 28-80mm T/2.9 @ 28mm		83.70		47.50
Zeiss CZ.2 Zoom 28-80mm T/2.9 @ 80mm		156.90		47.50
Zeiss Otus 55mm f/1.4	54.86	78.10	52.80	38.31
Zeiss Otus 85mm f/1.4	85.20	74.65	90.60	38.57
Zeiss ZM 15mm f/2.8 Biogon	15.00	28.32	17.66	14.92
Zeiss ZM 21mm f/2.8 Biogon	21.70	28.45	17.00	15.18
Zeiss ZM 35mm f/2.0 Biogon	35.56	34.01	18.17	15.77
Zeiss ZM 35mm f/2.8 Biogon	35.59	29.79	17.62	15.63
Zeiss CZ.2 Zoom 70-200mm T/2.9 @ 070mm	70.41	117.05		65.00
Zeiss CZ.2 Zoom 70-200mm T/2.9 @ 200mm	197.00	133.85		65.00