

HYPERFOCAL DISTANCE CHART

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When you wish to shoot with maximum depth of field, you need to focus on a point known as the Hyperfocal Distance.

When the camera is focused at this point, everything in the picture should be sharp from half way between it and the camera, to infinity.

	f/1.0	f/1.4	f/2.0	f/2.8	f/4.0	f/5.6	f/8.0	f/11.0	f/16.0	f/22.0	f/32.0	f/45.0	f/64.0
10 mm	4.35 m	3.07 m	2.17 m	1.54 m	1.09 m	0.77 m	0.54 m	0.38 m	0.27 m	0.19 m	0.14 m	0.10 m	0.07 m
12 mm	6.26 m	4.43 m	3.13 m	2.21 m	1.57 m	1.11 m	0.78 m	0.55 m	0.39 m	0.28 m	0.20 m	0.14 m	0.10 m
14 mm	8.52 m	6.03 m	4.26 m	3.01 m	2.13 m	1.51 m	1.07 m	0.75 m	0.53 m	0.38 m	0.27 m	0.19 m	0.13 m
15 mm	9.78 m	6.92 m	4.89 m	3.46 m	2.45 m	1.73 m	1.22 m	0.86 m	0.61 m	0.43 m	0.31 m	0.22 m	0.15 m
16 mm	11.13 m	7.87 m	5.57 m	3.94 m	2.78 m	1.97 m	1.39 m	0.98 m	0.70 m	0.49 m	0.35 m	0.25 m	0.17 m
17 mm	12.57 m	8.88 m	6.28 m	4.44 m	3.14 m	2.22 m	1.57 m	1.11 m	0.79 m	0.56 m	0.39 m	0.28 m	0.20 m
18 mm	14.09 m	9.96 m	7.04 m	4.98 m	3.52 m	2.49 m	1.76 m	1.25 m	0.88 m	0.62 m	0.44 m	0.31 m	0.22 m
20 mm	17.39 m	12.30 m	8.70 m	6.15 m	4.35 m	3.07 m	2.17 m	1.54 m	1.09 m	0.77 m	0.54 m	0.38 m	0.27 m
22 mm	21.04 m	14.88 m	10.52 m	7.44 m	5.26 m	3.72 m	2.63 m	1.86 m	1.32 m	0.93 m	0.66 m	0.46 m	0.33 m
24 mm	25.04 m	17.71 m	12.52 m	8.85 m	6.26 m	4.43 m	3.13 m	2.21 m	1.57 m	1.11 m	0.78 m	0.55 m	0.39 m
28 mm	34.09 m	24.10 m	17.04 m	12.05 m	8.52 m	6.03 m	4.26 m	3.01 m	2.13 m	1.51 m	1.07 m	0.75 m	0.53 m
35 mm	53.26 m	37.66 m	26.63 m	18.83 m	13.32 m	9.42 m	6.66 m	4.71 m	3.33 m	2.35 m	1.66 m	1.18 m	0.83 m
40 mm	69.57 m	49.19 m	34.78 m	24.60 m	17.39 m	12.30 m	8.70 m	6.15 m	4.35 m	3.07 m	2.17 m	1.54 m	1.09 m
45 mm	88.04 m	62.26 m	44.02 m	31.13 m	22.01 m	15.56 m	11.01 m	7.78 m	5.50 m	3.89 m	2.75 m	1.95 m	1.38 m
50 mm	108.70 m	76.86 m	54.35 m	38.43 m	27.17 m	19.21 m	13.59 m	9.61 m	6.79 m	4.80 m	3.40 m	2.40 m	1.70 m
55 mm	131.52 m	93.00 m	65.76 m	46.50 m	32.88 m	23.25 m	16.44 m	11.62 m	8.22 m	5.81 m	4.11 m	2.91 m	2.06 m
60 mm	156.52 m	110.68 m	78.26 m	55.34 m	39.13 m	27.67 m	19.57 m	13.83 m	9.78 m	6.92 m	4.89 m	3.46 m	2.45 m
65 mm	183.70 m	129.89 m	91.85 m	64.95 m	45.92 m	32.47 m	22.96 m	16.24 m	11.48 m	8.12 m	5.74 m	4.06 m	2.87 m
70 mm	213.04 m	150.64 m	106.52 m	75.32 m	53.26 m	37.66 m	26.63 m	18.83 m	13.32 m	9.42 m	6.66 m	4.71 m	3.33 m
75 mm	244.57 m	172.93 m	122.28 m	86.47 m	61.14 m	43.23 m	30.57 m	21.62 m	15.29 m	10.81 m	7.64 m	5.40 m	3.82 m
80 mm	278.26 m	196.76 m	139.13 m	98.38 m	69.57 m	49.19 m	34.78 m	24.60 m	17.39 m	12.30 m	8.70 m	6.15 m	4.35 m
85 mm	314.13 m	222.12 m	157.07 m	111.06 m	78.53 m	55.53 m	39.27 m	27.77 m	19.63 m	13.88 m	9.82 m	6.94 m	4.91 m
90 mm	352.17 m	249.02 m	176.09 m	124.51 m	88.04 m	62.26 m	44.02 m	31.13 m	22.01 m	15.56 m	11.01 m	7.78 m	5.50 m
100 mm	434.78 m	307.44 m	217.39 m	153.72 m	108.70 m	76.86 m	54.35 m	38.43 m	27.17 m	19.21 m	13.59 m	9.61 m	6.79 m
105 mm	479.35 m	338.95 m	239.67 m	169.48 m	119.84 m	84.74 m	59.92 m	42.37 m	29.96 m	21.18 m	14.98 m	10.59 m	7.49 m
135 mm	792.39 m	560.31 m	396.20 m	280.15 m	198.10 m	140.08 m	99.05 m	70.04 m	49.52 m	35.02 m	24.76 m	17.51 m	12.38 m
180 mm	1,408.70 m	996.10 m	704.35 m	498.05 m	352.17 m	249.02 m	176.09 m	124.51 m	88.04 m	62.26 m	44.02 m	31.13 m	22.01 m
200 mm	1,739.13 m	1,229.75 m	869.57 m	614.88 m	434.78 m	307.44 m	217.39 m	153.72 m	108.70 m	76.86 m	54.35 m	38.43 m	27.17 m
300 mm	3,913.04 m	2,766.94 m	1,956.52 m	1,383.47 m	978.26 m	691.73 m	489.13 m	345.87 m	244.57 m	172.93 m	122.28 m	86.47 m	61.14 m
400 mm	6,956.52 m	4,919.00 m	3,478.26 m	2,459.50 m	1,739.13 m	1,229.75 m	869.57 m	614.88 m	434.78 m	307.44 m	217.39 m	153.72 m	108.70 m
500 mm	10,869.57 m	7,685.94 m	5,434.78 m	3,842.97 m	2,717.39 m	1,921.49 m	1,358.70 m	960.74 m	679.35 m	480.37 m	339.67 m	240.19 m	169.84 m
600 mm	15,652.17 m	11,067.76 m	7,826.09 m	5,533.88 m	3,913.04 m	2,766.94 m	1,956.52 m	1,383.47 m	978.26 m	691.73 m	489.13 m	345.87 m	244.57 m