

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	3.33 m	2.36 m	1.67 m	1.18 m	0.83 m	0.59 m	0.42 m	0.29 m	0.21 m	0.15 m	0.10 m	0.07 m	0.05 m
12 mm	4.80 m	3.39 m	2.40 m	1.70 m	1.20 m	0.85 m	0.60 m	0.42 m	0.30 m	0.21 m	0.15 m	0.11 m	0.08 m
14 mm	6.53 m	4.62 m	3.27 m	2.31 m	1.63 m	1.15 m	0.82 m	0.58 m	0.41 m	0.29 m	0.20 m	0.14 m	0.10 m
15 mm	7.50 m	5.30 m	3.75 m	2.65 m	1.88 m	1.33 m	0.94 m	0.66 m	0.47 m	0.33 m	0.23 m	0.17 m	0.12 m
16 mm	8.53 m	6.03 m	4.27 m	3.02 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
17 mm	9.63 m	6.81 m	4.82 m	3.41 m	2.41 m	1.70 m	1.20 m	0.85 m	0.60 m	0.43 m	0.30 m	0.21 m	0.15 m
18 mm	10.80 m	7.64 m	5.40 m	3.82 m	2.70 m	1.91 m	1.35 m	0.95 m	0.68 m	0.48 m	0.34 m	0.24 m	0.17 m
20 mm	13.33 m	9.43 m	6.67 m	4.71 m	3.33 m	2.36 m	1.67 m	1.18 m	0.83 m	0.59 m	0.42 m	0.29 m	0.21 m
22 mm	16.13 m	11.41 m	8.07 m	5.70 m	4.03 m	2.85 m	2.02 m	1.43 m	1.01 m	0.71 m	0.50 m	0.36 m	0.25 m
24 mm	19.20 m	13.58 m	9.60 m	6.79 m	4.80 m	3.39 m	2.40 m	1.70 m	1.20 m	0.85 m	0.60 m	0.42 m	0.30 m
28 mm	26.13 m	18.48 m	13.07 m	9.24 m	6.53 m	4.62 m	3.27 m	2.31 m	1.63 m	1.15 m	0.82 m	0.58 m	0.41 m
35 mm	40.83 m	28.87 m	20.42 m	14.44 m	10.21 m	7.22 m	5.10 m	3.61 m	2.55 m	1.80 m	1.28 m	0.90 m	0.64 m
40 mm	53.33 m	37.71 m	26.67 m	18.86 m	13.33 m	9.43 m	6.67 m	4.71 m	3.33 m	2.36 m	1.67 m	1.18 m	0.83 m
45 mm	67.50 m	47.73 m	33.75 m	23.86 m	16.88 m	11.93 m	8.44 m	5.97 m	4.22 m	2.98 m	2.11 m	1.49 m	1.05 m
50 mm	83.33 m	58.93 m	41.67 m	29.46 m	20.83 m	14.73 m	10.42 m	7.37 m	5.21 m	3.68 m	2.60 m	1.84 m	1.30 m
55 mm	100.83 m	71.30 m	50.42 m	35.65 m	25.21 m	17.82 m	12.60 m	8.91 m	6.30 m	4.46 m	3.15 m	2.23 m	1.58 m
60 mm	120.00 m	84.85 m	60.00 m	42.43 m	30.00 m	21.21 m	15.00 m	10.61 m	7.50 m	5.30 m	3.75 m	2.65 m	1.88 m
65 mm	140.83 m	99.58 m	70.42 m	49.79 m	35.21 m	24.90 m	17.60 m	12.45 m	8.80 m	6.22 m	4.40 m	3.11 m	2.20 m
70 mm	163.33 m	115.49 m	81.67 m	57.75 m	40.83 m	28.87 m	20.42 m	14.44 m	10.21 m	7.22 m	5.10 m	3.61 m	2.55 m
75 mm	187.50 m	132.58 m	93.75 m	66.29 m	46.88 m	33.15 m	23.44 m	16.57 m	11.72 m	8.29 m	5.86 m	4.14 m	2.93 m
80 mm	213.33 m	150.85 m	106.67 m	75.42 m	53.33 m	37.71 m	26.67 m	18.86 m	13.33 m	9.43 m	6.67 m	4.71 m	3.33 m
85 mm	240.83 m	170.29 m	120.42 m	85.15 m	60.21 m	42.57 m	30.10 m	21.29 m	15.05 m	10.64 m	7.53 m	5.32 m	3.76 m
90 mm	270.00 m	190.92 m	135.00 m	95.46 m	67.50 m	47.73 m	33.75 m	23.86 m	16.88 m	11.93 m	8.44 m	5.97 m	4.22 m
100 mm	333.33 m	235.70 m	166.67 m	117.85 m	83.33 m	58.93 m	41.67 m	29.46 m	20.83 m	14.73 m	10.42 m	7.37 m	5.21 m
105 mm	367.50 m	259.86 m	183.75 m	129.93 m	91.88 m	64.97 m	45.94 m	32.48 m	22.97 m	16.24 m	11.48 m	8.12 m	5.74 m
135 mm	607.50 m	429.57 m	303.75 m	214.78 m	151.88 m	107.39 m	75.94 m	53.70 m	37.97 m	26.85 m	18.98 m	13.42 m	9.49 m
180 mm	1,080.00 m	763.68 m	540.00 m	381.84 m	270.00 m	190.92 m	135.00 m	95.46 m	67.50 m	47.73 m	33.75 m	23.86 m	16.88 m
200 mm	1,333.33 m	942.81 m	666.67 m	471.40 m	333.33 m	235.70 m	166.67 m	117.85 m	83.33 m	58.93 m	41.67 m	29.46 m	20.83 m
300 mm	3,000.00 m	2,121.32 m	1,500.00 m	1,060.66 m	750.00 m	530.33 m	375.00 m	265.17 m	187.50 m	132.58 m	93.75 m	66.29 m	46.88 m
400 mm	5,333.33 m	3,771.24 m	2,666.67 m	1,885.62 m	1,333.33 m	942.81 m	666.67 m	471.40 m	333.33 m	235.70 m	166.67 m	117.85 m	83.33 m
500 mm	8,333.33 m	5,892.56 m	4,166.67 m	2,946.28 m	2,083.33 m	1,473.14 m	1,041.67 m	736.57 m	520.83 m	368.28 m	260.42 m	184.14 m	130.21 m
600 mm	12,000.00 m	8,485.28 m	6,000.00 m	4,242.64 m	3,000.00 m	2,121.32 m	1,500.00 m	1,060.66 m	750.00 m	530.33 m	375.00 m	265.17 m	187.50 m