

# 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	17.27 ft	12.21 ft	8.63 ft	6.11 ft	4.32 ft	3.05 ft	2.16 ft	1.53 ft	1.08 ft	0.76 ft	0.54 ft	0.38 ft	0.27 ft
12 mm	24.87 ft	17.58 ft	12.43 ft	8.79 ft	6.22 ft	4.40 ft	3.11 ft	2.20 ft	1.55 ft	1.10 ft	0.78 ft	0.55 ft	0.39 ft
14 mm	33.84 ft	23.93 ft	16.92 ft	11.97 ft	8.46 ft	5.98 ft	4.23 ft	2.99 ft	2.12 ft	1.50 ft	1.06 ft	0.75 ft	0.53 ft
15 mm	38.85 ft	27.47 ft	19.43 ft	13.74 ft	9.71 ft	6.87 ft	4.86 ft	3.43 ft	2.43 ft	1.72 ft	1.21 ft	0.86 ft	0.61 ft
16 mm	44.21 ft	31.26 ft	22.10 ft	15.63 ft	11.05 ft	7.81 ft	5.53 ft	3.91 ft	2.76 ft	1.95 ft	1.38 ft	0.98 ft	0.69 ft
17 mm	49.90 ft	35.29 ft	24.95 ft	17.64 ft	12.48 ft	8.82 ft	6.24 ft	4.41 ft	3.12 ft	2.21 ft	1.56 ft	1.10 ft	0.78 ft
18 mm	55.95 ft	39.56 ft	27.97 ft	19.78 ft	13.99 ft	9.89 ft	6.99 ft	4.95 ft	3.50 ft	2.47 ft	1.75 ft	1.24 ft	0.87 ft
20 mm	69.07 ft	48.84 ft	34.54 ft	24.42 ft	17.27 ft	12.21 ft	8.63 ft	6.11 ft	4.32 ft	3.05 ft	2.16 ft	1.53 ft	1.08 ft
22 mm	83.58 ft	59.10 ft	41.79 ft	29.55 ft	20.89 ft	14.77 ft	10.45 ft	7.39 ft	5.22 ft	3.69 ft	2.61 ft	1.85 ft	1.31 ft
24 mm	99.46 ft	70.33 ft	49.73 ft	35.16 ft	24.87 ft	17.58 ft	12.43 ft	8.79 ft	6.22 ft	4.40 ft	3.11 ft	2.20 ft	1.55 ft
28 mm	135.38 ft	95.73 ft	67.69 ft	47.86 ft	33.84 ft	23.93 ft	16.92 ft	11.97 ft	8.46 ft	5.98 ft	4.23 ft	2.99 ft	2.12 ft
35 mm	211.53 ft	149.57 ft	105.76 ft	74.79 ft	52.88 ft	37.39 ft	26.44 ft	18.70 ft	13.22 ft	9.35 ft	6.61 ft	4.67 ft	3.31 ft
40 mm	276.28 ft	195.36 ft	138.14 ft	97.68 ft	69.07 ft	48.84 ft	34.54 ft	24.42 ft	17.27 ft	12.21 ft	8.63 ft	6.11 ft	4.32 ft
45 mm	349.67 ft	247.25 ft	174.83 ft	123.63 ft	87.42 ft	61.81 ft	43.71 ft	30.91 ft	21.85 ft	15.45 ft	10.93 ft	7.73 ft	5.46 ft
50 mm	431.69 ft	305.25 ft	215.84 ft	152.63 ft	107.92 ft	76.31 ft	53.96 ft	38.16 ft	26.98 ft	19.08 ft	13.49 ft	9.54 ft	6.75 ft
55 mm	522.34 ft	369.35 ft	261.17 ft	184.68 ft	130.59 ft	92.34 ft	65.29 ft	46.17 ft	32.65 ft	23.08 ft	16.32 ft	11.54 ft	8.16 ft
60 mm	621.63 ft	439.56 ft	310.82 ft	219.78 ft	155.41 ft	109.89 ft	77.70 ft	54.95 ft	38.85 ft	27.47 ft	19.43 ft	13.74 ft	9.71 ft
65 mm	729.56 ft	515.87 ft	364.78 ft	257.94 ft	182.39 ft	128.97 ft	91.19 ft	64.48 ft	45.60 ft	32.24 ft	22.80 ft	16.12 ft	11.40 ft
70 mm	846.11 ft	598.29 ft	423.06 ft	299.15 ft	211.53 ft	149.57 ft	105.76 ft	74.79 ft	52.88 ft	37.39 ft	26.44 ft	18.70 ft	13.22 ft
75 mm	971.30 ft	686.81 ft	485.65 ft	343.41 ft	242.83 ft	171.70 ft	121.41 ft	85.85 ft	60.71 ft	42.93 ft	30.35 ft	21.46 ft	15.18 ft
80 mm	1,105.13 ft	781.44 ft	552.56 ft	390.72 ft	276.28 ft	195.36 ft	138.14 ft	97.68 ft	69.07 ft	48.84 ft	34.54 ft	24.42 ft	17.27 ft
85 mm	1,247.58 ft	882.17 ft	623.79 ft	441.09 ft	311.90 ft	220.54 ft	155.95 ft	110.27 ft	77.97 ft	55.14 ft	38.99 ft	27.57 ft	19.49 ft
90 mm	1,398.67 ft	989.01 ft	699.34 ft	494.51 ft	349.67 ft	247.25 ft	174.83 ft	123.63 ft	87.42 ft	61.81 ft	43.71 ft	30.91 ft	21.85 ft
100 mm	1,726.76 ft	1,221.00 ft	863.38 ft	610.50 ft	431.69 ft	305.25 ft	215.84 ft	152.63 ft	107.92 ft	76.31 ft	53.96 ft	38.16 ft	26.98 ft
105 mm	1,903.75 ft	1,346.15 ft	951.88 ft	673.08 ft	475.94 ft	336.54 ft	237.97 ft	168.27 ft	118.98 ft	84.13 ft	59.49 ft	42.07 ft	29.75 ft
135 mm	3,147.02 ft	2,225.28 ft	1,573.51 ft	1,112.64 ft	786.75 ft	556.32 ft	393.38 ft	278.16 ft	196.69 ft	139.08 ft	98.34 ft	69.54 ft	49.17 ft
180 mm	5,594.70 ft	3,956.05 ft	2,797.35 ft	1,978.02 ft	1,398.67 ft	989.01 ft	699.34 ft	494.51 ft	349.67 ft	247.25 ft	174.83 ft	123.63 ft	87.42 ft
200 mm	6,907.03 ft	4,884.01 ft	3,453.52 ft	2,442.00 ft	1,726.76 ft	1,221.00 ft	863.38 ft	610.50 ft	431.69 ft	305.25 ft	215.84 ft	152.63 ft	107.92 ft
300 mm	15,540.82 ft	10,989.02 ft	7,770.41 ft	5,494.51 ft	3,885.21 ft	2,747.25 ft	1,942.60 ft	1,373.63 ft	971.30 ft	686.81 ft	485.65 ft	343.41 ft	242.83 ft
400 mm	27,628.13 ft	19,536.03 ft	13,814.06 ft	9,768.02 ft	6,907.03 ft	4,884.01 ft	3,453.52 ft	2,442.00 ft	1,726.76 ft	1,221.00 ft	863.38 ft	610.50 ft	431.69 ft
500 mm	43,168.95 ft	30,525.05 ft	21,584.47 ft	15,262.53 ft	10,792.24 ft	7,631.26 ft	5,396.12 ft	3,815.63 ft	2,698.06 ft	1,907.82 ft	1,349.03 ft	953.91 ft	674.51 ft
600 mm	62,163.28 ft	43,956.08 ft	31,081.64 ft	21,978.04 ft	15,540.82 ft	10,989.02 ft	7,770.41 ft	5,494.51 ft	3,885.21 ft	2,747.25 ft	1,942.60 ft	1,373.63 ft	971.30 ft