

HYPERFOCAL DISTANCE CHART

Copyright © 2013 James Tyson Photography | jamestyson.com.au | CoC: 0.03 | Large Print: Yes | Adjusted CoC: 0.015

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	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	0.15 m	0.10 m
12 mm	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	0.21 m	0.15 m
14 mm	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	0.29 m	0.20 m
15 mm	15.00 m	10.61 m	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
16 mm	17.07 m	12.07 m	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
17 mm	19.27 m	13.62 m	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
18 mm	21.60 m	15.27 m	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
20 mm	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	0.59 m	0.42 m
22 mm	32.27 m	22.82 m	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
24 mm	38.40 m	27.15 m	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
28 mm	52.27 m	36.96 m	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
35 mm	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	1.80 m	1.28 m
40 mm	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	2.36 m	1.67 m
45 mm	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	2.98 m	2.11 m
50 mm	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	3.68 m	2.60 m
55 mm	201.67 m	142.60 m	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
60 mm	240.00 m	169.71 m	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
65 mm	281.67 m	199.17 m	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
70 mm	326.67 m	230.99 m	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
75 mm	375.00 m	265.17 m	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
80 mm	426.67 m	301.70 m	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
85 mm	481.67 m	340.59 m	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
90 mm	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	11.93 m	8.44 m
100 mm	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	14.73 m	10.42 m
105 mm	735.00 m	519.72 m	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
135 mm	1,215.00 m	859.13 m	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
180 mm	2,160.00 m	1,527.35 m	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
200 mm	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	58.93 m	41.67 m
300 mm	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	132.58 m	93.75 m
400 mm	10,666.67 m	7,542.47 m	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
500 mm	16,666.67 m	11,785.11 m	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
600 mm	24,000.00 m	16,970.56 m	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