

Hyperfocal Distance Tables for Circle of Confusion Constant 0.005

Note: Applicable cameras for these tables are listed below the tables.

6-mm focal length lens

F-stop	f/2.8	f/3.3	f/3.5	f/4	f/4.5	f/5	f/5.6	f/6.3	f/7.1	f/8
Focus at (ft.)	8.46	7.18	6.77	5.93	5.27	4.74	4.24	3.77	3.35	2.97
Sharp at (ft.)	4.23	3.59	3.38	2.96	2.63	2.37	2.12	1.88	1.67	1.49

10-mm focal length lens

F-stop	f/2.8	f/3.3	f/3.5	f/4	f/4.5	f/5	f/5.6	f/6.3	f/7.1	f/8
Focus at (ft.)	23.5	19.9	18.8	16.4	14.6	13.2	11.8	10.4	9.27	8.23
Sharp at (ft.)	11.7	9.96	9.39	8.22	7.31	6.58	5.88	5.22	4.64	4.12

15-mm focal length lens

F-stop	f/2.8	f/3.3	f/3.5	f/4	f/4.5	f/5	f/5.6	f/6.3	f/7.1	f/8
Focus at (ft.)	52.8	44.8	42.2	37	32.9	29.6	26.4	23.5	20.8	18.5
Sharp at (ft.)	26.4	22.4	21.1	18.5	16.4	14.8	13.2	11.7	10.4	9.25

20-mm focal length lens

F-stop	f/2.8	f/3.3	f/3.5	f/4	f/4.5	f/5	f/5.6	f/6.3	f/7.1	f/8
Focus at (ft.)	93.8	79.6	75.1	65.7	58.4	52.6	46.9	41.7	37	32.9
Sharp at (ft.)	46.9	39.8	37.5	32.8	29.2	26.3	23.5	20.9	18.5	16.4

30-mm focal length lens

F-stop	f/2.8	f/3.3	f/3.5	f/4	f/4.5	f/5	f/5.6	f/6.3	f/7.1	f/8
Focus at (ft.)	211	179	169	148	131	118	106	93.8	83.3	73.9
Sharp at (ft.)	106	89.5	84.4	73.9	65.7	59.1	52.8	46.9	41.6	37

40-mm focal length lens

F-stop	f/2.8	f/3.3	f/3.5	f/4	f/4.5	f/5	f/5.6	f/6.3	f/7.1	f/8
Focus at (ft.)	375	318	300	263	233	210	188	167	148	131
Sharp at (ft.)	188	159	150	131	117	105	93.8	83.4	74	65.7

59-mm focal length lens

F-stop	f/2.8	f/3.3	f/3.5	f/4	f/4.5	f/5	f/5.6	f/6.3	f/7.1	f/8
Focus at (ft.)			653	571	508	457	408	363	322	286
Sharp at (ft.)			326	286	254	229	204	181	161	143

Use these tables for the following cameras:

Canon PowerShot: A10, A20, A30, A40, A60, A70, A75, A85, A300, A301, A510, A520, A530, A540, A550, A560, A570IS, A700, A710 IS, A720 IS, S1 IS, S2 IS, S3 IS, S5 IS S110 Elph, S200 Elph, S230 Elf, S300 Elph, S330 Elph, SD10 Elph, SD20 Elph, SD30 Elph, SD40, SD100 Elph, A40, SD110 Elph, SD200, SD300, SD400, SD430 Wireless, SD450, SD600, SD630, SD700 IS, SD750, SD800 IS, SD850 IS, SD870 IS, SD1000, SX100 IS

Casio Exilim: EX-S2, EX-P505, EX-S500, EX-S600, EX-S600D, EX-S770, EX-S880, EX-V7, EX-V8, EX-Z5, EX-Z30, EX-Z40, EX-Z50, EX-Z55, EX-Z57, EX-Z60, EX-Z70, EX-Z75, EX-Z77, EX-Z110, EX-Z500, EX-Z600, EX-Z700

Fujifilm FinePix: 30i, A120, A203, A303, A330, A340, A345, A350, A400, A610, E500, E510, F401, F402, F440, F450, F455, F470, F480, F650, 2600, 2650, 2800, 3800, S3000, S3100, S3500, S5000, S5200/S5600, S550/S5100, S5700, V10, Z1, Z2, Z3

HP PhotoSmart: 320, 435, 620, 735, C215, M22, M23, M307, M407, M417, M425, M517, M525, 527, R507, R607, R817, R818, R837

Kodak: CX-7430, CX-7330, CX-7530, DX-6440, DX-6490, DX-7440, DX-7590, LS-743, LS-753, Z730, Z7590

Konica Minolta Dimage: E50, E223, G400, X, Xg, Xi, Xt, X50, X60, Z1, Z2, Z3, Z5, Z6, Z10, Z20

Leica: C-Lux 1, D-Lux

Nikon Coolpix: 2000, 2500, 3100, 3200, 3500, 3700, 4100, 4600, 4800, 5600, 775, L1, L2, L3, L4, L5, L6, L10, L11, L12, L14, L15, P50, SQ, S1, S2, S3, S4, S5, S6, S7c, S9, S10, S50, S50c, S51, S51c, S200, S500, S510

Olympus: AZ-1, Brio D-230, C0460 ZOOM del Sol, C-500, C700 ZU, C730 CZ, C-720, C-730, C-740, C-750, C-765, C-770, D-395, D-420, D-435, D-510, D-535 / C-370, D-540, D-545, D-550, D-560, D-580, D-590, D-595, D-630, Ferrari Digital Model 2004, FE-100, FE-110, FE-115, FE-120, FE-130, FE-140, FE-170, FE-180, FE-200, FE-210, FE-230, FE-240, FE-270, FE-280, FE-290, FE-5500, ImageLink, IR-300, IR-500, SP-500 UZ, SP-510 UZ, SP-550 UZ, SP-560 UZ, SP-700

Olympus Stylus: 300, 410, 500, 600, 700, 720 SW, 725 SW, 730, 740, 750, 760, 770, 780, 790 SW, 820, 830, Verve, Verve s

Panasonic Lumix: DMC-F7, DMC-FX01, DMC-FX07, DMC-FX2, DMC-FX3, FMC-FX7, DMC-FX8, DMC-FX9, DMC-FX10, DMC-FX12, DMC-FX30, DMC-FX33, DMC-FX50, DMC-FX55, DMC-FZ4, DMC-FZ5, DMC-FZ7, DMC-FZ8, DMC-FZ10, DMC-FZ18, DMC-FZ20, DMC-LC50, DMC-LC70, DMC-LC80, DMC-LS1, DMC-LS2, DMC-LS60, DMC-LS75, DMC-LZ1, DMC-LZ2, DMC-LZ3, DMC-LZ5, DMC-LZ7, DMC-TZ3

Pentax Optio: 30, 33WR, 43WR, 33LF, 50, 230, 330GS, E10, E20, E30, E40, MX4, M10, M20, M30, M40, S, S4i, S5i, S5n, S5z, S6, S7, S30, S40, S45, S50, S55, S60, SV, SVi, T10, T20, T30, X, W10, W20, W30, WP, WPi, Z10

Ricoh Caplio: RX, R2, R3, R4, R5, R6, R7, R30, R40, RR530

Samsung Digimax: 230, A4, A40, A55W, A400, A302, A402, A502, i5, i50 MP3, L50, L60, L55W, L700, U-CA 4, U-CA 5, i85, L73, L77, NV7 OPS S630, S730, S830, S1030

Sanyo: Xacti DSC-S1, Xacti DSC-S3, Xacti DSC-S4, Xacti J4, VPC-J1

Sony Cyber Shot: DSC-G1, DSC-H1, DSC-H2, DSC-H3, DSC-H5, DSC-H7, DSC-H9, DSC-L1, DSC-M1, DSC-M2, DSC-P2, DSC-P30, DSC-P31, DSC-P32, DSC-P41, DSC-P8, DSC-P50, DSC-P51, DSC-P52, DSC-P72, DSC-P92, DSC-S40, DSC-S60, DSC-S90, DSC-S600, DSC-S650, DSC-S700, DSC-T1, DSC-T3, DSC-T5, DSC-T7, DSC-T9, DSC-T10, DSC-T11, DSC-T20, DSC-T30, DSC-T33, DSC-T50, DSC-T70, DSC-T100, DSC-T200, DSC-U20, DSC-U40, DSC-U60, DSC-W30, DSC-W35, DSC-W50, DSC-W55, DSC-W70, DSC-W80, DSC-W90

Sony Mavica: MVC-CD200, MVC-CD250, MVC-CD350, MVC-FD100, MVC-FD200