

# ExpoAperture<sup>2</sup> Depth-of-Field Guide

## Digital Sensor Circle of Confusion Reference Chart

| Digital Cameras and Backs: |  |             |                                   |
|----------------------------|--|-------------|-----------------------------------|
| Camera Manufacturer        | Camera Model   | Crop Factor | Suggested CoC in Microns          |
| Canon                      | EOS 5D, 5D Mark II<br>EOS 1Ds, EOS 1Ds Mark II<br>EOS 1Ds Mark III   | 1.0         | 30                                |
|                            | EOS 1D<br>EOS 1D Mark II, EOS 1D Mark II n<br>EOS 1D Mark III, EOS 1D Mark IV  | 1.3         | 23                                |
|                            | EOS 7D, 10D, 20D, 20Da<br>EOS 30D, 40D, 50D, 60D<br>EOS D30, D60<br>EOS Digital Rebel (300)<br>Rebel XT (350D)/ Rebel XTi (400D)<br>Rebel XSi (450D)/Rebel XS (1000D)<br>Rebel T1i (500D)/Rebel X2i (550D) | 1.6         | use 1.6x setting                  |
| Contax                     | N Digital  | 1.0         | 30                                |
| Epson                      | R-D1   | 1.5         | 20                                |
| Fujifilm                   | IS Pro<br>IS-1<br>FinePix S5 Pro<br>FinePix S3 Pro<br>FinePix S2 Pro<br>FinePix S1 Pro   | 1.6         | use 1.6x setting                  |
|                            | DCS SLR/c, DCS SLR/n, DCS 14n<br>DCS ProBack 645<br>DCS ProBack Plus, DCS ProBack  | 1.0         | 30                                |
|                            | DCS 760<br>DCS 660   | 1.3         | 23                                |
| Kodak                      | DCS 720x<br>DCS620x  | 1.6         | use 1.6x setting                  |
|                            | Maxxum 5D<br>Maxxum 7D   | 1.5         | 20                                |
| Leica                      | M9   | 1.0         | 30                                |
|                            | M8, M8.2   | 1.3         | 23                                |
|                            | DMR  | 1.4         | use APS-C setting                 |
| Nikon                      | D3, D3X, D3S<br>D700   | 1.0         | 30                                |
|                            | D7000, D5000, D3100, D3000<br>D200, D300, D300s<br>D90, D80, D70, D70s, D60, D50<br>D40, D40x<br>D2X, D2Xs, D2H, D2Hs<br>D1, D1H, D1X<br>D100  | 1.5         | 20                                |
|                            | E-600, E-620, E-500, E-510, E-520<br>E-400, E-410, E-420, E-450<br>E-330, E-300<br>E-1, E-3, E-5, E-30<br>EP1, EP2, EPL1   | 2.0         | 17                                |
| Panasonic                  | LUMIX DMC-L1K, DMC-L10K,<br>DMC-L14, DMC-G1, DMC-G2,<br>DMC-GF1, DMC-GH1K, DMC-G10K<br>DMC-GH2S, DMC-GH2K, DMC-GF2CS   | 2.0         | 4:3 - 17<br>3:2 - 15<br>16:9 - 13 |
| Pentax                     | K10D, K110D, K100D<br>*ist DL2, *ist DS2, *ist DS, *ist D<br>K20D, K200D, K10D, K2000<br>K-7, K-5, K-r, K-x  | 1.5         | 20                                |
| Samsung                    | GX-20, GX-10, GX-1L, GX-1S<br>NX10, NX100  | 1.5         | 20                                |
| Sigma                      | SD1  | 1.7         | 17                                |
|                            | DP1  | 1.7         | 17                                |
|                            | SD15, SD14, SD10, SD9  | 1.7         | 17                                |
| Sony                       | A-850, A-900   | 1.0         | 30                                |
|                            | A100, A200, A230, A290<br>A300, A330, A350<br>A380, A390<br>A500, A550, A700<br>NEX-5, NEX-3   | 1.5         | 20                                |
|                            | DSC-R1   | 1.7         | 17                                |

Please refer to the ExpoAperture<sup>2</sup> Manual for additional notes on this table.

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## Film Format Circle of Confusion Reference Chart

| Film Formats:   |                             |              |                          |
|-----------------|-----------------------------|--------------|--------------------------|
| Format          | Type of Film                | Aspect Ratio | Suggested CoC in Microns |
| 35mm half frame | 135                         | 0.75:1       | 17                       |
| APS-C           | Advanced Photo System (APS) | 1.5:1        | use APS-C setting        |
| 35mm full frame | 135                         | 1.5:1        | 30                       |
| 6 x 4.5 cm      | 120, 220, or 620            | 1.3:1        | 52                       |
| 6 x 6 cm        | 120, 220, or 620            | 1.0:1        | 56                       |
| 6 x 7 cm        | 120, 220, or 620            | 0.86:1       | 70                       |
| 6 x 9 cm        | 120, 220, or 620            | 0.67:1       | 84                       |
| 4 x 5 in        | 4 x 5 sheet film            | 0.8:1        | 120                      |
| 6 x 17 cm       | 120, 220, or 620            | 0.35:1       | 168                      |
| 6 x 24 cm       | 120, 220, or 620            | 0.25:1       | 224                      |
| 8 x 10 in       | 8 x 10 sheet film           | 0.8:1        | 240                      |

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