

WIDE-ANGLE AND MACRO

Apo-Digitar 5.6/24 XL, 5.6/35 XL, 5.6/47 XL, Digitar 2.8/28 L; Apo-Digitar 5.6/80 M, 5.6/120 M

Finally genuine wide-angle lenses for digital photography with chip-back



The large image circle of the Apo-Digitar and Digitar wide-angle lenses enable dynamic shots for architecture, industry and advertising

Up to now there were no genuine wide-angle focal lengths for view cameras with a chip digital backs because the digital chip formats are considerably smaller than the conventional film formats. The corresponding lenses for 35 mm cameras have no shutter and allow no camera adjustment because the image circle is usually only 43 mm. This is why we developed new wide-angle lenses. These meet high quality requirements concerning contrast and resolution, correction of distortion and absence of color fringes. At the same time, with an image circle of 60 to 110 mm they have capacity for adjustment, correction of perspective, "converging lines" as well as for depth of field control according to the Scheimpflug law as is to be expected of professional large format photography.



With a chip size of for instance 24x36 mm both Apo-Digitare M lenses manage an object size of about 6x9 mm up to 10x15 cm

Perfect images in the extreme close-up and macro range

Lenses designed for infinity lose sharpness and distort when applied to higher magnifications approaching 1:4 (or higher). The Apo-Digitar M lenses have been optimized for a 1:1 reproduction ration, with excellent performance in the 1:4 to 4:1 range. This allows image quality at or beyond the limit of the performance of current high-resolution chip backs.



The image circle grows with the scale

The image circles and angles of view on page 13 have been designed to guarantee the use of the full range of potential of the high-resolution digital backs. The perfect image quality of our lenses in resolution, contrast, absence of color fringes and distortions, etc. support this. The data relates to a working aperture of 11 (with larger apertures there is almost no loss of sharpness of image evident but only a very slight fall-off in illumination towards the edges) together with focusing at infinity and the relevant scale for macro lenses respectively. With a constant angle of view the image circle widens for shorter distances and larger scales respectively because of the longer pullout for a proportion corresponding with the scale, i.e. with a scale of 1:5 for a fifth. However, this does not apply to macro lenses at scales around 1:1, as diffraction increases rapidly with growing magnification scale as a result of the growing discrepancy between the effective aperture and the nominal aperture.

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5.6/24 XL
Schneider Electronic Shutter 0



5.6/35 XL
Schneider Electronic Shutter 0



2.8/28 L
Schneider Electronic Shutter 0



5.6/47 XL
Schneider Electronic Shutter 0



5.6/80 M
Schneider Electronic Shutter 0



5.6/120 M
Schneider Electronic Shutter 0