HCD 4/28

DATASHEET

The HCD 28mm lens has been designed to be compact and to deliver optimal performance when used with the 48×36mm sensor of the H system digital cameras. Image quality is refined with integral use of Digital Lens Correction which perfects the raw image by digitally removing any color aberration, vignetting and distortion. The resulting raw images have perfect pixel definition optimal for image rendering.

GENERAL LENS DATA

Focal length	28,9mm
Equivalent 35mm focal length [1]	19,5 mm
Aperture range	4 - 32
Angle of view diag/hor/vert 53,4 x 40 format	99°/86°/70°
Angle of view diag/hor/vert 44 x 33 format	87°/74°/59°
Length/diameter	102 mm/100 mm
Weight	850 g
Filter diameter	95 mm

[1] Horizontal coverage between 53,4 x 40 and 36 x 24 compared

CLOSE FOCUS RANGE DATA

Minimum distance object to film	0.35 m
Maximum image scale	1:7,3
Corresponding area of coverage	39 × 29 cm
Corresponding exposure reduction	0 f-stop

COMPATIBILITY

- The HCD 4,8/24 lens is designed for digital use and does not fully cover the film format (41.5x56 mm).
- The HCD 4,8/24 lens is not compatible with the Converter 1.7x.

LENS DESIGN

12 elements in 9 groups

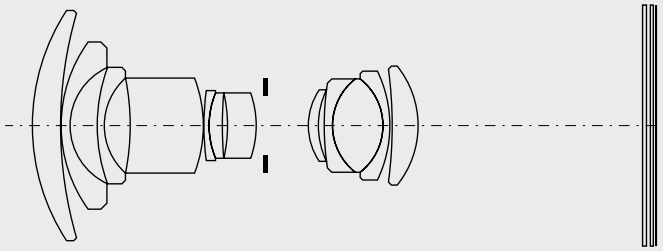
FOCUS TYPE

Rear focusing

ENTRANCE PUPIL POSITION

134 mm in front of the film plane
(at infinite focus setting)

The entrance pupil position is the correct position of the axis of rotation when making a panorama image by combining individual images of a scene.

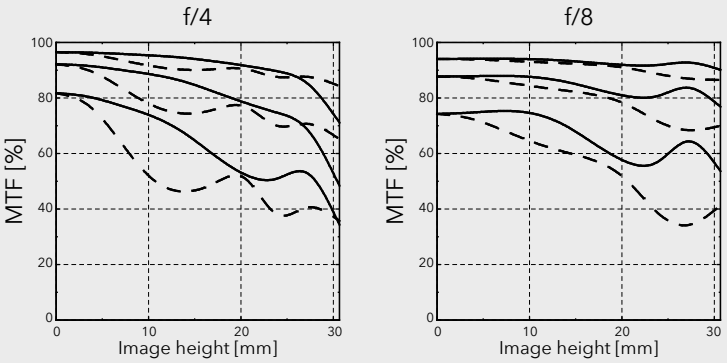


HCD 4/28

MTF

Modulation Transfer as a function of image height at infinite focus setting.

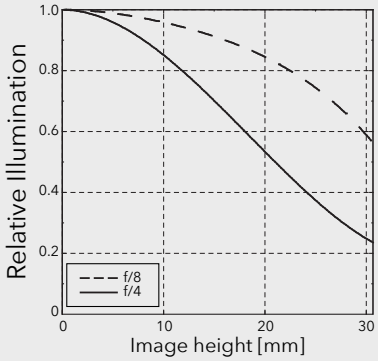
Sagittal slit orientation drawn with continuous line and tangential with dashed. White light. Spatial frequencies 10, 20 and 40 lp/mm



RELATIVE ILLUMINATION

Infinity setting

When images are imported to Phocus, light fall-off is automatically removed.



DISTORTION

Infinity setting

When images are imported to Phocus, distortion is automatically removed.