

HASSELBLAD HCD 4.0-5.6/35-90 Aspherical

GENERAL LENS DATA:

Focal length	36.3 (87) mm
Equivavlent 35mm focal length ¹⁾	26.6 (63.8) mm
Aperture range	4.0 (5.6) - 32
Angle of view diag/hor/vert 37x49 format	83°/70°/55° (39°/31°/24°)
Length/diameter	167 mm/102,5 mm
Weight	1410 g
Filter diameter	95 mm

¹⁾ Horizontal coverage between 37x49 and 24x36 compared

CLOSE FOCUS RANGE DATA:

Minimum distance object to image plane	0.65 m
Maximum image scale	1:13 (1:5.4)
Corresponding area of coverage	64 × 48 (26 × 20) cm
Corresponding exposure reduction	0 f-stop

COMPATIBILITY

The HCD 4,0-5,6/35-90 mm lens is not compatible with the converter H1.7x, the HTS 1.5 Tilt/Shift adapter or the Macro Converter. It can be used on the 60 Mpixel cameras but in the wide angle settings, a marginal automatic crop will be added in Phocus.

The HCD 35-90mm is designed for use on the H4X, H2D, H3D, H4D and H5D cameras only.



LENS DESIGN

13 elements in 11 groups
1 Aspherical surface

FOCUS TYPE

Internal focusing

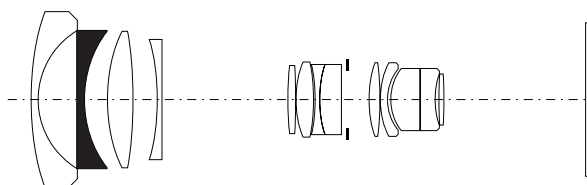
ENTRANCE PUPIL POSITION

35 mm setting: 187 mm
50 mm setting: 178 mm
90 mm setting: 193 mm

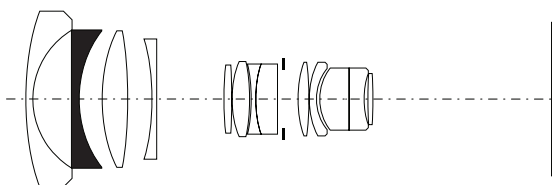
In front of the image plane
(at infinite focus setting)

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.

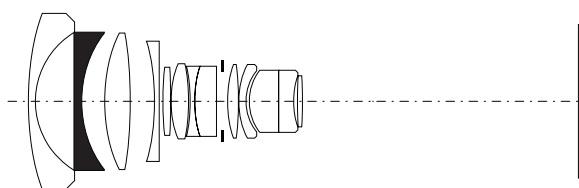
35 mm



50 mm



90 mm



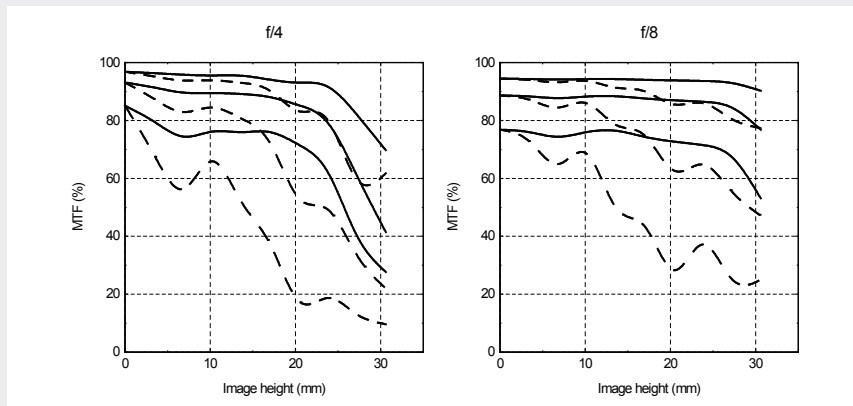
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MTF

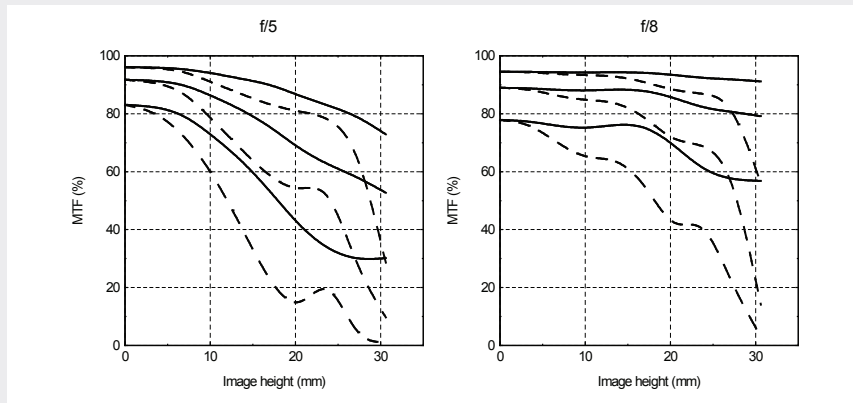
Modulation Transfer as a function of image height at infinite focus setting.

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

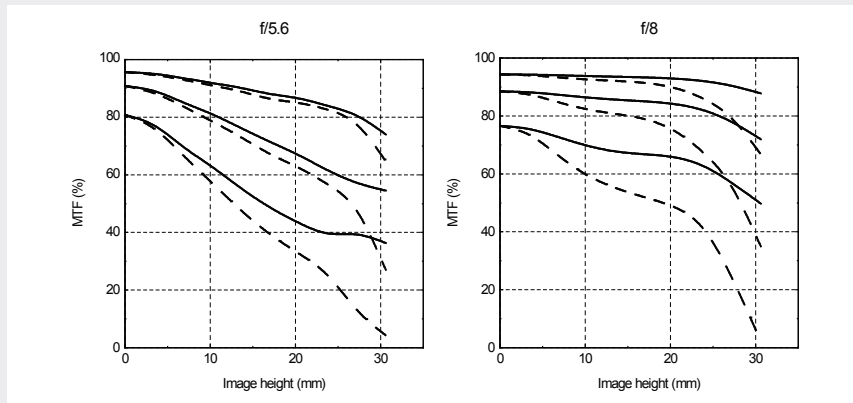
35 mm



55 mm



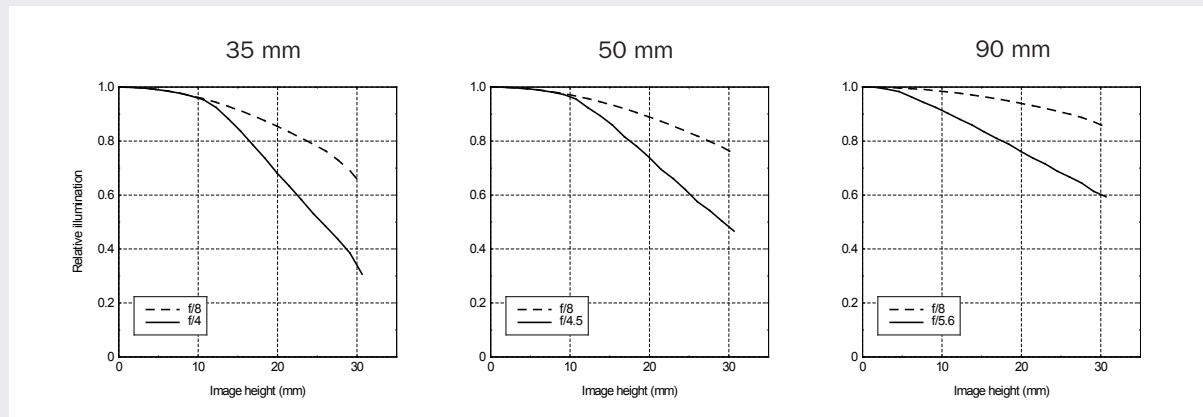
90 mm



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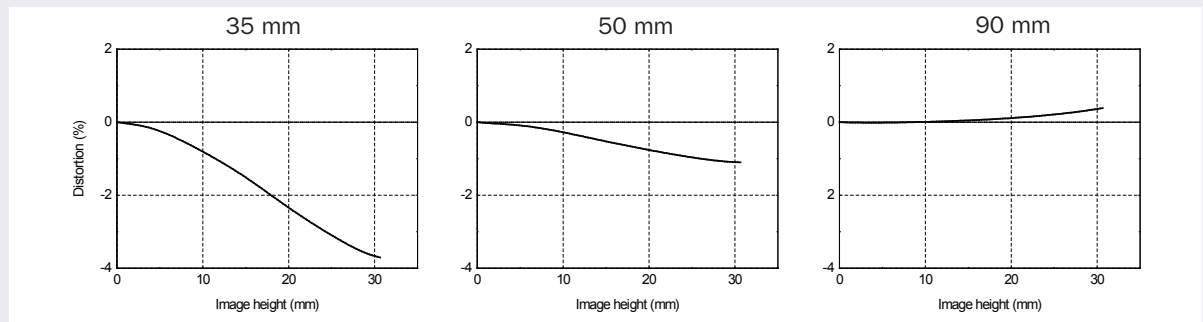
RELATIVE ILLUMINATION

Infinity setting



DISTORTION

Infinity setting



Specification subject to change without notice.

10.12 - HCD 35-90 - V4 - UK