

# HASSELBLAD

## HCD 4,0-5,6/35-90 Aspherical

General lens data:

|                             |                           |
|-----------------------------|---------------------------|
| Focal length                | 36,3 (87) mm              |
| Aperture range              | 4,0 (5,6) - 32            |
| Angle of view diag/hor/vert | 83°/70°/55° (39°/31°/24°) |
| Length/diameter             | 167 mm/102,5 mm           |
| Weight                      | 1410 g                    |
| Filter diameter             | 95 mm                     |

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 x 48 (26 x 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 and the HTS 1.5 Tilt/Shift adapter.



Lens Design

13 elements in 11 groups  
1 Aspherical surface

Focus Type

Internal focusing

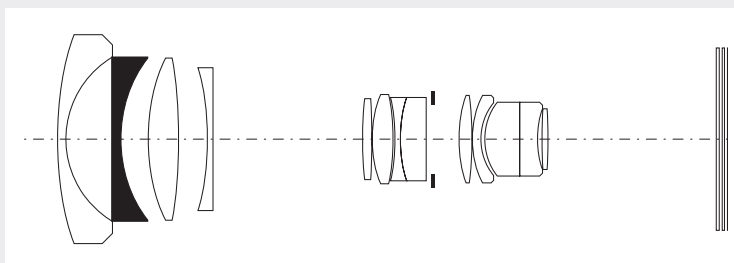
Entrance Pupil Position

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

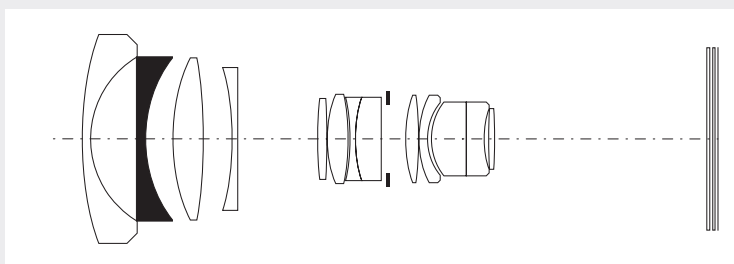
In front of the image plane  
(at infinite focus setting)

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.

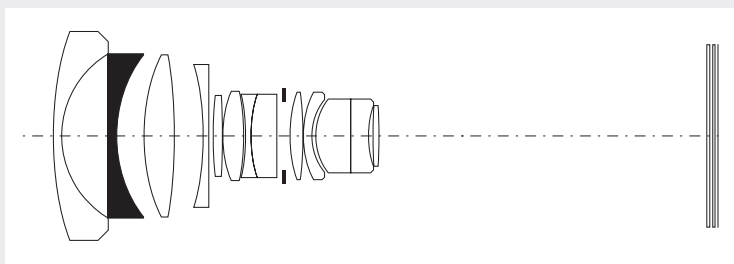
35 mm



50 mm



90 mm



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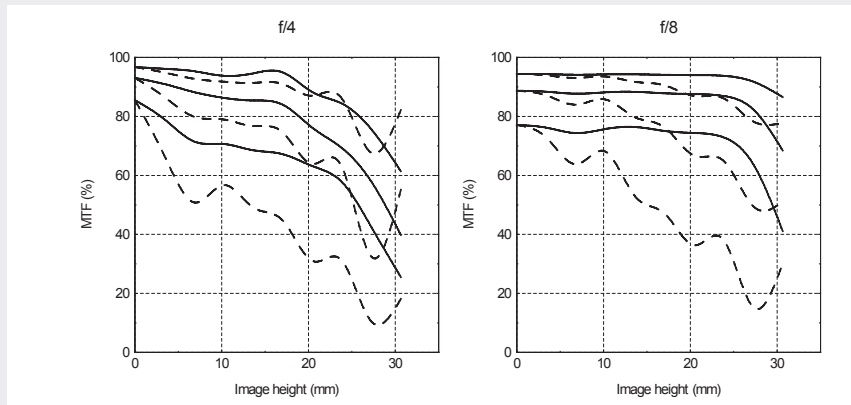
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### MTF

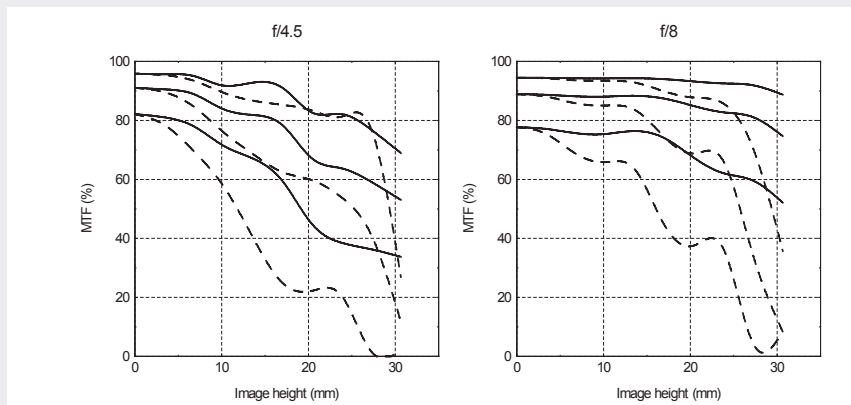
Modulation Transfer as a function of image height at infinite focus setting.

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

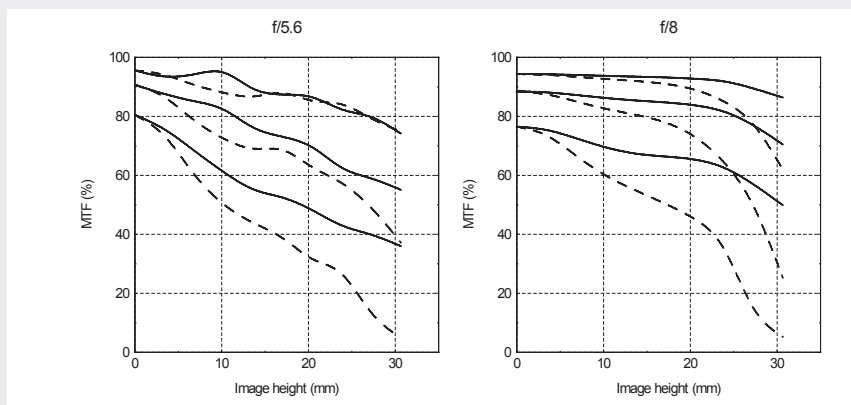
35 mm



50 mm



90 mm

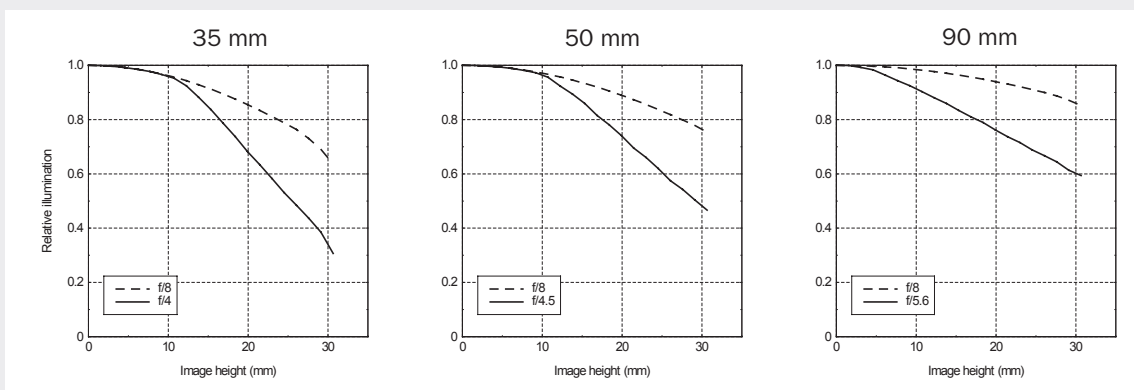


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### Relative Illumination

Infinity setting



### Distortion

Infinity setting

