HASSELBLAD HCD 4,8/24

The HCD 24mm lens is an ultra-wide angle lens with an advanced optical design for outstanding performance with extreme corner to corner sharpness. This compact lens is perfect for shooting in confined spaces and is a perfect

companion to the HTS 1.5x Tilt/Shift Adapter providing a 37mm (equivalent to a 27 mm focal length in 35 mm format terms) wide angle tilt and shift lens.

GENERAL LENS DATA

Focal length 24.3 mm Equivalent 35mm focal length 1 18 mm Aperture range 4,8 - 32 Angle of view diag/hor/vert 37x49 format $104^{\circ}/92^{\circ}/76^{\circ}$

Length/diameter 99 mm/100 mm

Weight (incl. covers and lens shade) $$810\ {\rm g}$$ Filter diameter $95\ {\rm mm}^{\ 2)}$

CLOSE FOCUS RANGE DATA

Minimum distance object to film

Maximum image scale

1:9.7

Corresponding area of coverage

48 x 36 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

14 elements in 11 groups

FOCUS TYPE

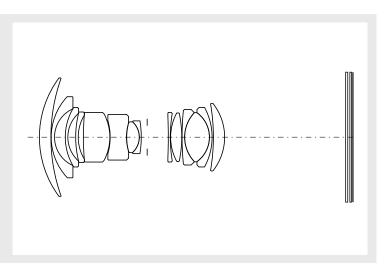
Rear focusing

ENTRANCE PUPIL POSITION

136 mm in front of the sensor 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.



 $^{^{1)}}$ Horizontal coverage between 37x49 and 24x36 compared

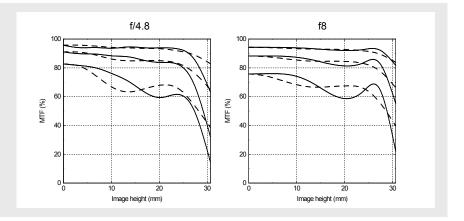
 $^{^{\}rm 2)}$ Filter adapter to 105 and 112 mm included. See table on page 2.

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MTF

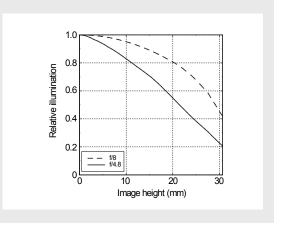
Modulation Transfer as a function of image height at infinite focus setting.

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



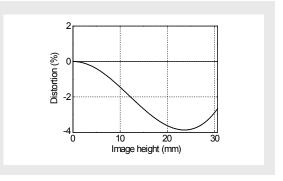
RELATIVE ILLUMINATION

Infinity setting



DISTORTION

Infinity setting



FILTER SIZE REQUIREMENTS

HCD 24mm used on	Required filter size
40 Mpix CCD/50 Mpix CMOS (33x44)	UV-Sky: 95mm / Pola: 95mm
50 Mpix CCD (49x37)	UV-Sky: 95mm slim / Pola: 105mm 1)
60 Mpix CCD/100 Mpix CMOS (54x40)	105mm slim / Pola: 112mm ¹⁾
HTS 1.5x	Not suitable for extreme settings

¹⁾ Not available from Hasselblad

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