

## XCD 3,5/120mm Macro

The **XCD 120mm Macro** is a compact macro lens for the X1D camera featuring close focusing from infinity to an image scale of 1:2 (43 cm distance setting). The optical design and internal focusing system ensures amazing performance at all distance settings. The focal length and high aperture also makes the lens an eminently suitable portrait lens with beautiful bokeh.

All XCD lenses contain a lens shutter delivering shutter speeds from 60 minutes to 1/2000 second. Synchronizing with flash at all speeds, allows full creative freedom when mixing flash and daylight.

The lens shutter also generates very little vibration providing hand-hold shots with perfect sharpness.

### GENERAL LENS DATA

Focal length	120.0 mm
Equivalent Focal length (24x36)	95 mm
Aperture range	3.5 - 32
Angle of view diag/hor/vert	26°/21°/16°
Length/diameter	150 mm/81 mm
Weight (excl. covers and lens shade)	970 g
Filter diameter	77 mm
Product number	3025120

### CLOSE FOCUS RANGE DATA

Minimum distance object to image plane	0.43 m
Maximum image scale	1:2
Corresponding area of coverage	88 x 66 mm
Corresponding exposure reduction	0.7 f-stops

### COMPATIBILITY

- Hasselblad X1D cameras



### LENS DESIGN

10 elements in 7 groups

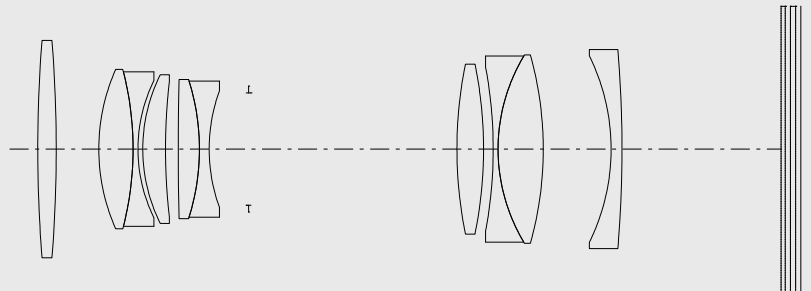
### FOCUS TYPE

Internal focusing with floating mechanism

### ENTRANCE PUPIL POSITION

106 mm in front of image plane

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.

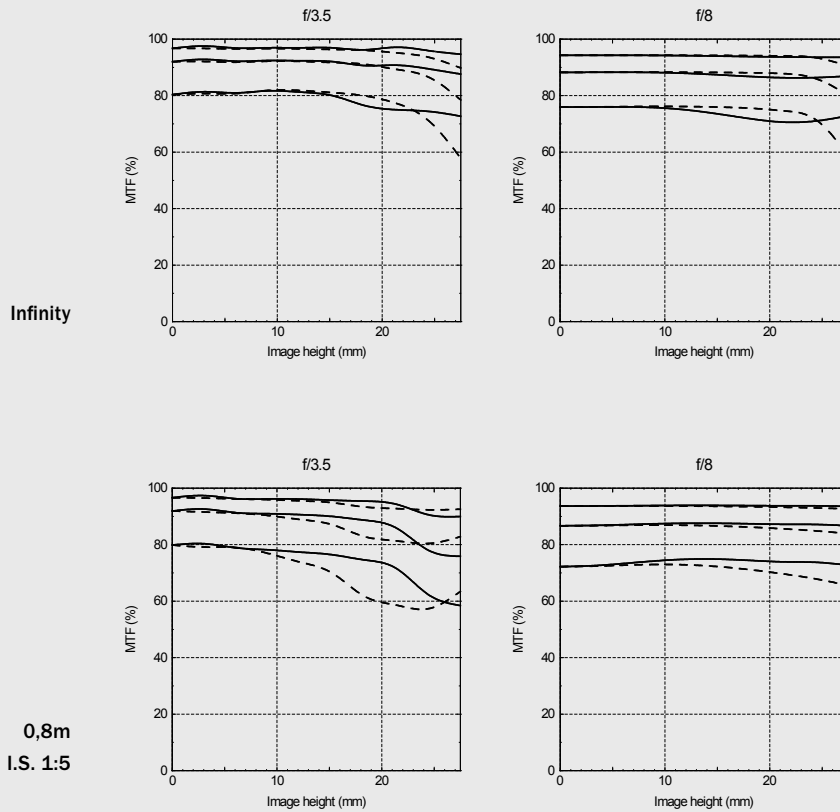


MTF

Modulation Transfer as a function of image height at infinity and close range settings.

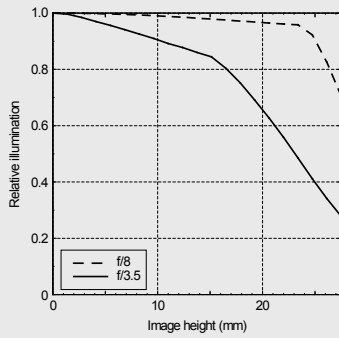
Sagittal slit orientation drawn with continuous line and tangential with dashed. White light.

Spatial frequencies 10, 20 and 40 lp/mm

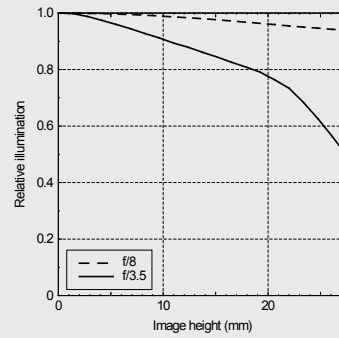


RELATIVE ILLUMINATION

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



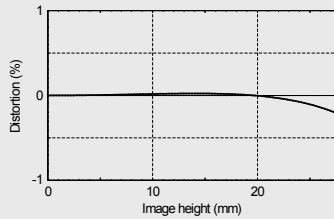
Infinity setting



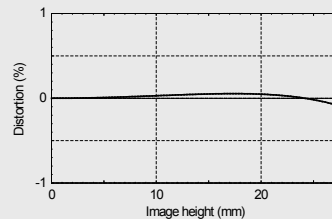
0,8m /I.S. 1:5

DISTORTION

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



Infinity setting



0,8m /I.S. 1:5