XCD 2,8/135MM

The XCD 135mm is a short telephoto lens with a dedicated 1,7 Converter providing 135 and 230mm focal lengths. It compares to a 105 or 178mm full frame equivalent lens, making it the perfect landscape or portrait lens. The lens features a 1 m close distance setting (1:5.8 and 1:3.4 image scale) and an aperture range between 2,8 and 32 (4,8 - 55 with converter). The XCD 135mm features full automatic focusing as well as instant manual focus. All XCD lenses contain a lens shutter delivering shutter speeds from 68 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-held shots with perfect sharpness.

GENERAL LENS DATA

Focal length	133 (226) mm
Equivalent Focal length (24x36)	105 (178) mm
Aperture range	2,8 - 32 (4,8 - 55)
Angle of view diag/hor/vert	23°/19°/14° (14°/11°/8°)
Length/diameter	149 mm/81 mm (195 mm/81 mm)
Length (from camera lens mount flange)	144 (190) mm
Weight (excl. covers and lens shade)	935 g (1372 g)
Filter diameter	77 mm
Product numbers:	
XCD 135 Lens	CP.HB.00000243.01
XCD 135 Lens + X Converter 1,7	CP.HB.00000383.01



CLOSE FOCUS RANGE DATA

Minimum distance object to image plane	1.0 (1.05) m
Maximum image scale	1:5.8 (1:3.4)
Corresponding area of coverage	26 x 19 cm (15 x 11)
Corresponding exposure reduction	0 (0) f-stops

Data for Lens + Converter within parenthesis.

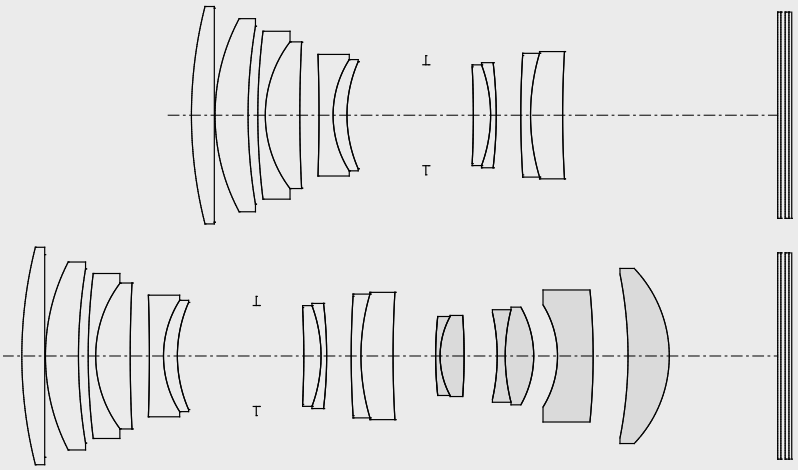
COMPATIBILITY

- Hasselblad X System cameras

LENS DESIGN

10 elements in 6 groups

Converter DESIGN
6 elements in 4 groups



FOCUS TYPE

Internal focusing

ENTRANCE PUPIL POSITION

57 mm (102 mm) in front of image plane

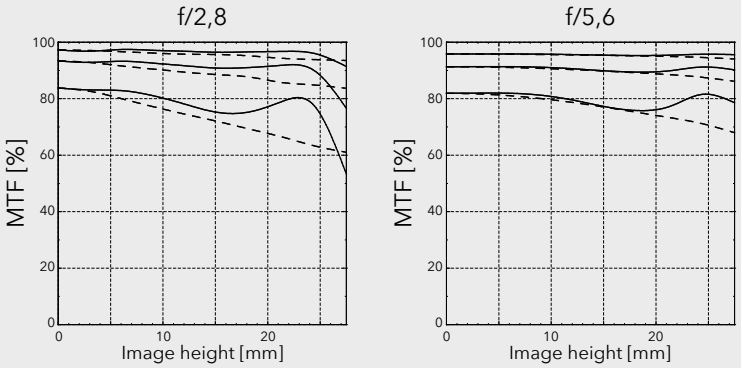
The entrance pupil position is the correct position of the axis of rotation when making a panorama image by combining individual images of a scene.

XCD 2,8/135MM

MTF

Modulation Transfer as a function of image height at infinity setting.

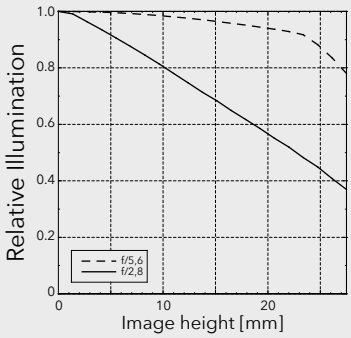
Sagittal slit orientation drawn with continuous line and tangential with dashed. White light. Spatial frequencies 10, 20 and 40 lp/mm



RELATIVE ILLUMINATION

Infinity setting.

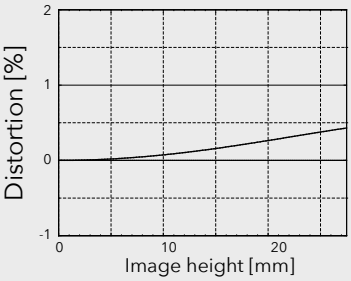
When images are imported to Phocus, light fall-off is automatically removed.



DISTORTION

Infinity setting.

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

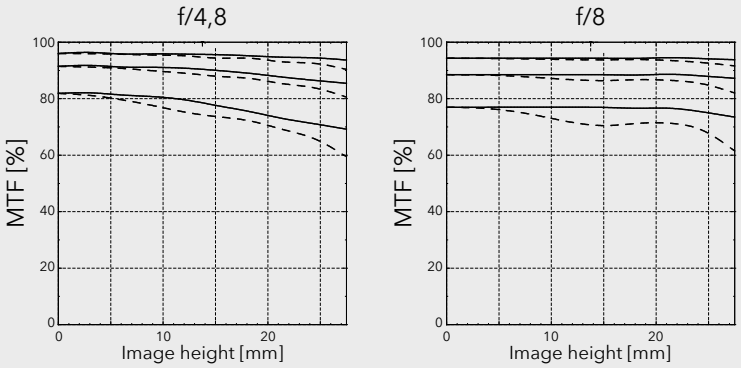


XCD 2,8/135MM + X CONVERTER 1,7

MTF

Modulation Transfer as a function of image height at infinity setting.

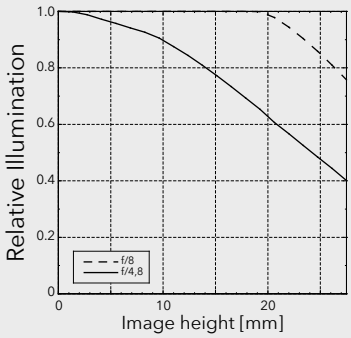
Sagittal slit orientation drawn with continuous line and tangential with dashed. White light. Spatial frequencies 10, 20 and 40 lp/mm



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.

