Carl Zeiss
Converter
Mutar 2x
T*
Cat. No. 10 43 29

**HASSELBLAD**

ZEISS

Germany
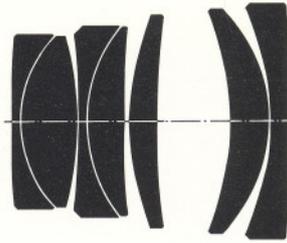
The Carl Zeiss **Mutar** 2x teleconverter for the range of Hasselblad lenses is inserted between the lens and the camera using a bayonet mount. The converter doubles the focal length of the lens and reduces the relative aperture set on the lens by two f-stops. Exposure time is therefore quadrupled.

The teleconverter provides very good results with all Carl Zeiss lenses.

Focusing of the lens is virtually unaffected by the Carl Zeiss **Mutar** 2x converter. Using the image plane as a reference, the distance setting changes only by the mechanical length of the **Mutar** (65.4 mm). The converter has been calibrated in such a way that all lenses combined with it can be set to infinity. This results in some lenses having the infinity setting in front of the ∞ symbol on the focusing scale. For this reason, you should always use the focusing screen of the camera for focusing.

The number of available focal lengths is considerably increased by the use of a **Mutar** 2x teleconverter. Its low weight of barely 420 g makes it the ideal unit for hiking and mountaineering, or for animal and sports photography.
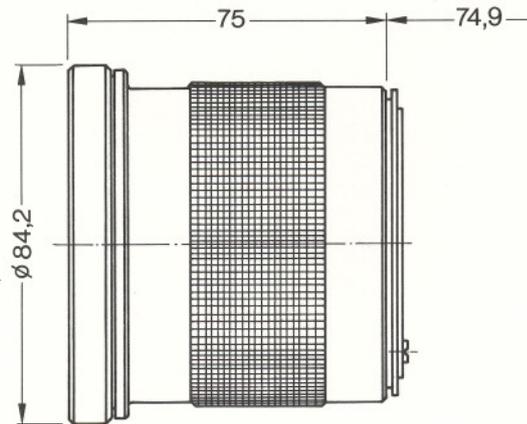
Attaching the **Mutar** 2x converter
Make sure that the camera is cocked and not pre-released (S-released). The transmission key of the **Mutar** 2x must be cocked and its slot must be aligned with the red index mark. If the key is in the released position, insert a coin (or similar) into the slot and turn clockwise. The converter is mounted on the camera in the same way as an extension tube or a lens. After this, insert the lens into the large bayonet of the **Mutar** 2x.

WARNING
The 135 mm **Makro-Planar** f/5.6 lens or the converter can be damaged if you try to mount the lens directly on the converter. For use of this lens with the converter, a variable extension tube or an automatic bellows unit must be inserted between the converter and the lens.

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Removing the **Mutar** 2x converter
First remove the lens and then the converter from the camera. It is also possible to remove the **Mutar** 2x and the lens combination as an entity from the camera.

If you separate the converter and the lens after removal from the camera, there is the risk of both devices being released. In this case, you would have to manually recock both the converter and the lens.

Subject to technical amendment.