

# Product information

## ZEISS ZM lenses on the digital M8

Carl Zeiss lenses with ZM bayonet are primarily intended for use with the current Zeiss Ikon and Zeiss Ikon SW cameras.

However, they can also be used with all other cameras equipped with an M bayonet.

Thus, ZM lenses can be used on the digital M8 camera at any time without any noticeable drawbacks in practical use over 6-bit coded lenses.

### 6-bit coding

The digital M8 is equipped with a system which can read 6-bit coding (black and white markings) integrated into the lens bayonet.

All M-mount lenses are compatible with the digital M8 camera, even without retrofitting, although the additional features cannot be used.

When the digital M8 is used with coded lenses, information about the used lens is provided in the Exif image data; internal vignetting correction is also noticeable. In many fields of practical photography, automatic or manual vignetting correction through the camera plays no role. Such reprocessing is not even required for extreme wide-angle lenses and an open aperture. The following photos taken with uncoded Carl Zeiss ZM lenses were not reprocessed except for a reduction of the frame size.

In some special cases the digital M8 tends to a red color shift of the image.

The IR cut filters recommended by the camera's manufacturer to avoid this cause green color shading when used with non-coded wide-angle lenses (28 mm and below).

In order to eliminate the color shading, free software plugin tools for image processing software like the Vignette Corrector v 1.0 can be used.

<http://www.richardrosenman.com/software/downloads/>



Digital M8 with Carl Zeiss Biogon T\* 2,8/28 ZM, f-stop 2.8



Digital M8 with Carl Zeiss Biogon T\* 2,8/28 ZM, f-stop 2.8



Digital M8 with Carl Zeiss C Biogon T\* 4,5/21 ZM, f-stop 8

This code serves to recognize the lens type and optimize image quality. The 6-bit code is designed to recognize a maximum of 64 historic, current and future M lenses. It is therefore not possible to retrofit Carl Zeiss ZM lenses with the 6-bit coding.

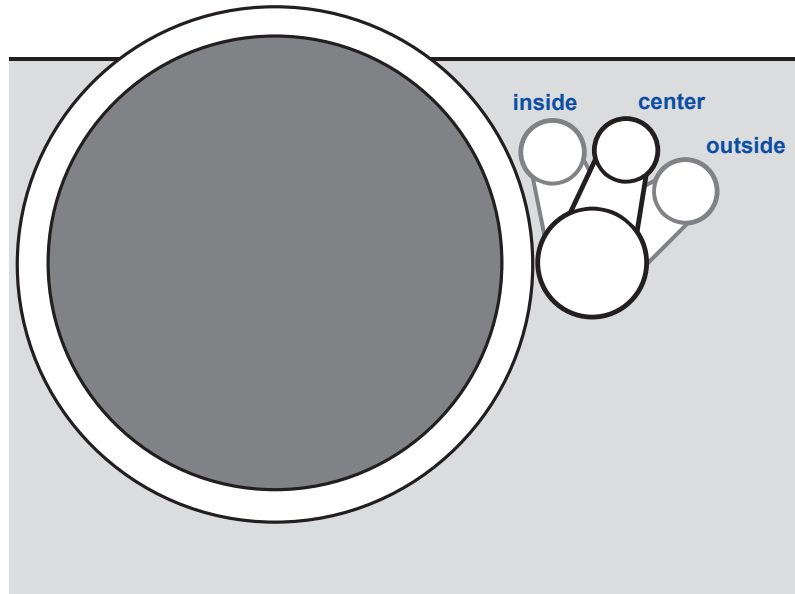
Rarely (e.g. when reproducing homogeneous areas using a wide-angle lens and a wide aperture), it may be desirable or necessary to correct vignetting. Here, standard image processing software provides effective and easy-to-use tools to achieve the desired results.



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# Reflected viewfinder frames

All Carl Zeiss ZM lenses feature outstanding image quality both with analog and digital cameras. When Carl Zeiss ZM lenses with a focal length of 28 mm and higher are used with the digital M8, suitable bright line frames are reflected into the viewfinder, marking an image frame that corresponds to the field angle of the lens. For focal lengths below 28 mm, we recommend using the relevant clip-on viewfinder (available as an accessory). After modification of the lens bayonet, the Biogon T\* 2,8/25 ZM also enables the automatic reflection of the relevant viewfinder frame.



*Positions of the frame lever on the digital M8:*

If viewfinder frame projection corresponding to a comparable Leica M lens is required, the bayonet ring of ZM lenses with a focal length below 28 mm can be replaced by our service department.

ZM lens	Focal length*	Lever position	Displayed frames	Compatibility
Distagon* T* 2,8/15	20 mm	center	50 mm, 75 mm	Recommended: 21 mm Zeiss Ikon clip-on viewfinder
Distagon* T* 4/18	24 mm	center	50 mm, 75 mm	Recommended: 25 mm Zeiss Ikon clip-on viewfinder; conversion to 2.8/28 bayonet is possible
Biogon* T* 2,8/21	28 mm	center	50 mm, 75 mm	Recommended: 28 mm Zeiss Ikon clip-on viewfinder; conversion to 2.8/28 bayonet is possible
C Biogon* T* 4,5/21	28 mm	center	50 mm, 75 mm	Recommended: 28 mm Zeiss Ikon clip-on viewfinder; conversion to 2.8/28 bayonet is possible
Biogon* T* 2,8/25	33 mm	inside	28 mm, 90 mm	Conversion to 2/35 bayonet useful
Biogon* T* 2,8/28	38 mm	inside	28 mm, 90 mm	OK
Biogon* T* 2/35	47 mm	outside	24 mm, 35 mm	OK
C Sonnar* T* 1,5/50	67 mm	center	50 mm, 75 mm	OK
Planar* T* 2/50	67 mm	center	50 mm, 75 mm	OK
Sonnar* T* 2/85	113 mm	inside	28 mm, 90 mm	OK

\* Compared with 35 mm format, taking the sensor's 1.33x crop factor into account