



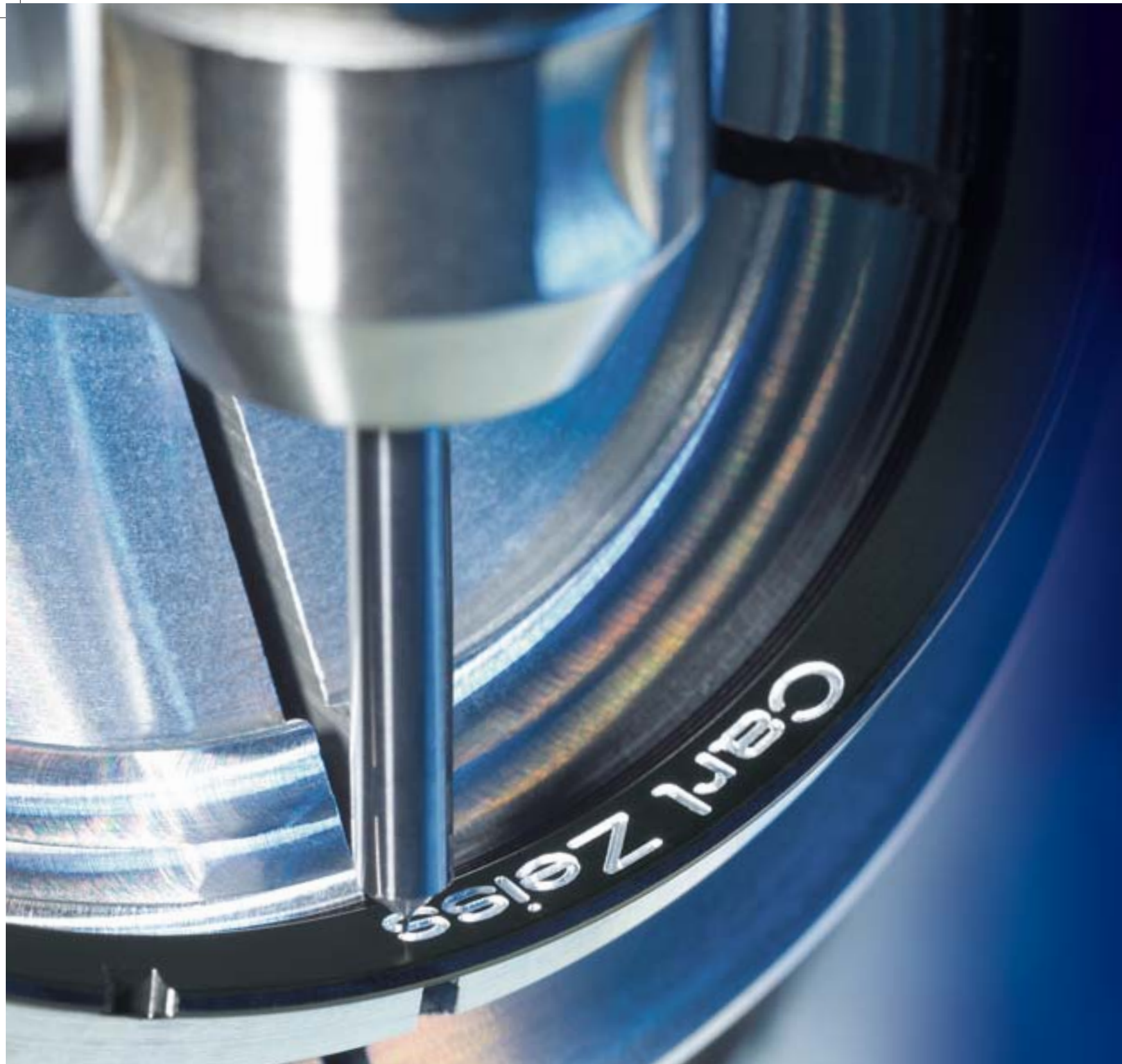
use your
inner eye



Lenses by Carl Zeiss



We make it visible.

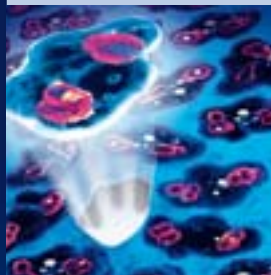


We make it visible.

For over 160 years,...

As the leading group of companies in the optical and opto-electronic industry with a workforce of more than 11,000 people, Carl Zeiss is regarded internationally as the pacesetter in each of its fields of activity: in microelectronics and measuring technology, medicine and eye-care, photography and binoculars.

More than 20 Nobel Laureates have used Carl Zeiss microscopes for research in biology, medicine and pharmacology. Carl Zeiss is just as important in genetic and viral research as in nanotechnology. Visualization systems by Carl Zeiss that are precise to within a thousandth of a millimeter are used to monitor processes in industrial metrology and chemical analyses.



Whether in the operating room, treating defective vision, or in microscopy research, Carl Zeiss technology helps to save lives, cure diseases, and simply make life more worth living.



Whether cell phones, laptops or USB sticks: every second microchip is produced using semi-conductor lenses from Carl Zeiss – the highest performing lenses in the world.



Every day all over the world, visitors to planetariums are given breathtaking demonstrations of just how far Carl Zeiss' eye can see. Carl Zeiss projectors depict the universe with maximum precision.

...making your visions visible



With its excellent binoculars and scopes, Carl Zeiss reveals the secrets of our world, and of nature in particular, in close-up – in all their infinite fascination.

Almost everyone comes into contact with developments by Carl Zeiss in their everyday lives. They make the invisible visible, allow us to experience our environment more intensively, to see and show things with greater clarity and precision.

Innovations by Carl Zeiss help not only to enhance the quality of our lives, but also to make our modern world a better place – today and in the future.

Carl Zeiss

Lenses by Carl Zeiss

Every second, somewhere in the world, a customer opts for Carl Zeiss lens. Engineers, film makers and photographers all know and appreciate the quality and performance of our developments.

ZEISS lenses are at home in the widest range of applications: in industry, movie production, journalism and photographic studios; in webcams on PCs and in cell phones. This amazing spectrum of expertise and experience enables us to develop future-oriented products that are precisely tailored to the needs of everyone who uses them – for unbeatable results and unforgettable experiences.



From a movie film to a cell phone lens: we are all daily witnesses to the exceptional performance of ZEISS lenses.



Carl Zeiss cine lenses have helped many famous films such as „Lord of the Rings“, „King Kong“ and „Perfume“ to create their fabulous images, and have twice been awarded the „Technical Oscar“.



From outer space to quality assurance on the production line: excellent, special purpose lenses from Carl Zeiss provide reliable, high-quality image information.

Use your inner eye



New impressions enrich our lives every day. Our inner eye connects perception and memory, idea and reality. Every photographer, whether professional or amateur, creates a mental picture in his or her inner eye before pressing the release button – by selecting the subject and setting the perspective, mood, light and atmosphere. Technology is there to capture the photographer's creation. Real, emotional, and without compromise.

ZEISS lenses and cameras give the photographer control over every aspect of the composition. And yet they are easy and intuitive to use: with the user-friendly, precise focusing mechanism and high quality metal mounts, the large, bright viewfinder image that provides every item of information, and with the fast, quiet shutter. Reliable functions ensure that photographers are able to concentrate entirely on the picture and composition and their creative powers to the full. Snapshots document the spirit of the times, record facts, and provide certainty. People and subjects are captured in settings that are both moving and lasting.

Carl Zeiss Camera Lenses



Intuition is your trigger

It's time for precision. For personalized photography. For intuitive use and exceptional images. For creative composition and interesting perspectives. Time for an SLR lens by Carl Zeiss.

SLR cameras show exactly what the lens records: the image section, the depth of field and the effect of different perspectives. This means that a picture can be structured with deliberate, planned precision, but with the creative freedom to experiment. With their bright, high-contrast viewfinder image, the exact, precise focusing system, superbly balanced bokeh, all supported by extraordinarily high-contrast color rendition and an outstanding 3D effect in the image, SLR lenses from Carl Zeiss offer many excellent possibilities for personalized manual composition.

It is the subtlety, those fine points of detail, that distinguish a good shot from an excellent one. Personalized photography is the integration of your own personality and creativity into the final picture, irrespective of the automatic mechanisms of your camera. Professional photographers see and sense when the inner eye and the lens connect, opening the door to a unique form of artistic expression.

Carl Zeiss SLR Lenses



Precision...



Precise focusing

Operating a lens manually means controlling the picture with your fingertips. Ergonomics are everything.

- large rotary angle for pinpoint focusing
- high quality, smooth focusing mechanism without play
- immediate display of changes in the viewfinder
- precise engraving in meters and feet

Optimum results

ZEISS lenses are famous for the exceptional quality of the pictures they provide. No matter how demanding the subject, perspectives, colors, and lighting situations are reproduced perfectly – over the entire full-frame image field.

- T* anti-reflex coating from Carl Zeiss
- stray light reduction for rich colors
- minimizes reflection and color fringes
- optimum correction of distortion
- standardized color characteristics over all focal lengths

Ideal aperture

The finely matched properties of the aperture helps ensure that the effects of out-of-focus areas of the picture are attractively balanced (bokeh).

- 9 blades and almost circular aperture
- adjustable in 1/2 f-stop intervals
- easy-to-detect lock-in positions with precise photometric grading



...makes all the difference

Mechanical durability

With excellence you can feel and quality that will last, ZEISS lenses are perfect for decades of intensive use.

- all-metal mounts
- practical focusing and aperture setting ring in metal
- sturdy front bayonet and filter thread



Types of connection

SLR lenses are suitable for analog and digital SLR cameras, and optimized for full-format. They are available for three connection types:

- F-mount (ZF)
- K-mount (ZK)
- M42 screw mount (ZS)

For further information on compatibility, go to www.zeiss.com/photo



Carl Zeiss SLR Lenses



Tobias Zehnder Analog SLR camera with F bayonet and Makro-Planar T* 2/100 ZF · tripod · 1/250 sec, f /6.7



Red Admiral butterfly

The longer focal length ensures the necessary distance between the camera and my often very shy subject. So, after hours of waiting patiently, I finally managed to take this magnificent shot of an Admiral. The aperture had to remain wide open in order to prevent any blur caused by movement due to the short exposure time. The outstanding feature of the Makro-Planar is the razor-sharp detail and definition it provides.

What photographers say



Michael Wartmann Analog SLR camera with F bayonet and Distagon T* 2,8/25 ZF · tripod · 1 sec, f /8



Leaf

I wanted to get as close as possible to the leaf, and keep the background blurred in the distance. The Distagon T* 2.8/25 ZF was just the right lens because it allowed me to capture my subject with absolute precision from an incredibly close 6 cm (2.36 in), and separate it from the background. I used f-stop 8 and one second's exposure time from the tripod.



Sabine Unterderweide SLR camera with F bayonet and Makro-Planar T* 2/100 ZF



Iceland

When I was taking this picture, I was particularly fascinated by the unique mood and atmosphere created by the light in Iceland's glacier landscape. It was a real challenge to capture the colors of the sunset as they were reflected on the surface of the water. As there was no time to prepare the tripod for this shot, I was grateful for the high speed of the Makro-Planar T* 2/100 ZF. So despite the critical exposure time, I was able to shoot manually.

Carl Zeiss SLR Lenses



**Fascination starts
in your mind**

Many people prefer the road less taken. They would rather follow their passion, and trust their inner eye. They see the unusual and do the unexpected. The Zeiss Ikon impresses with its creative strength, the freedom and intimacy of rangefinder photography. It really pushes the optical and mechanical boundaries of a rangefinder camera. Photographers see more than the lens captures: they have the entire surroundings in view and can therefore respond spontaneously.

The Zeiss Ikon is so compact, discreet and uncomplicated that it captures situations, especially people centered scenes, with particular authenticity. ZM lenses from Carl Zeiss echo this strength, and create first-class results of exceptional clarity and with optimum aberration correction. The camera and the lenses combine classic design with simple operation. They enable the photographer to control a maximum of aspects when composing a picture. Every picture reflects the fascination of an entirely personal perspective.

Zeiss Ikon System





Zeiss Ikon System

New perspectives...

Bright, large viewfinder

The viewfinder image is particularly bright and wide, and includes all the information the photographer needs: the recommended and set shutter time and the respective viewfinder frame with the focal length (28, 35, 50 and 85 mm). Special anti-reflective coatings result in a particularly brilliant viewfinder image and triangulation field without stray light.

Precision rangefinder

The rangefinder of the Zeiss Ikon has the widest rangefinder base on the market. Thanks to an entirely new type of construction, the display of the viewfinder is particularly large and remains in the middle of the rangefinder when focusing.



Convenient exposure metering

The lighting situation is measured by centered-weighted TTL exposure metering. The shutter speed is selected automatically and displayed in the viewfinder display; it can be corrected using the dial on the top of the camera.

A separate button is available to transfer the exposure metering value for several successive shots. If the speed is chosen manually, both the selected and the recommended shutter speeds are displayed.

Intuitive operation

The operating concept inspires creative photography and facilitates the spontaneous implementation of imaginative ideas. It permits very fast, simple settings, and prevents disruptions and interruptions during photography.

...sharpen your senses



Excellent image quality

All ZM lenses by Carl Zeiss have the T* anti-reflex coating and an optical design that produces brilliant pictures, even in unfavorable lighting conditions. The pictures are free from distortion and aberrations.

Ideal aperture properties

The lens aperture with 10 blades has easy-to-feel, lock-in positions in precise 1/3 f-stop intervals. The almost circular aperture helps create a particularly harmonious effect in the out-of-focus areas of the picture (bokeh).

Smooth, precise focusing

The user-friendly focusing ring on Zeiss lenses with an ergonomic finger rest is perfect for fast, precise focusing.

Robust design

The mount and control elements of all ZM lenses are made of metal and are designed for decades of intensive use.





Gabi Budulig Zeiss Ikon camera and C Biogon T* 4,5/21 ZM · Stativ · 15 sec, f/11



Outside the museum

On my evening stroll through Stuttgart, the new Mercedes Benz Museum caught my eye. With perspectives conveying a superb impression of depth in the image, the C Biogon T* 4.5/21 ZM allowed me to position the directional arrows in an interesting context relative to the automobile museum in the background. When I used f-stop 11, the streetlights turned into stars without creating irritating reflections.

What photographers say



Michael Ankenbrand Zeiss Ikon camera and Distagon T* 4/18 ZM · 1/250 sec, f/8



Harbor

In the ancient harbor of Livorno, Mediterranean life pulsates over a tiny area. Optical noise is inevitable. In this case, the Distagon T* 4/18 ZM is just the right lens to capture the late-morning atmosphere. The blue boat becomes the central, dominant subject, although both the fore- and the background are seen with equal sharpness.



Mongolia

I specifically wanted to concentrate on subjects that not every tourist would immediately notice. The Zeiss Ikon was perfect for this because it is great for discreet photography. The Biogon T* 2/35 ZM proved to be an excellent choice for this subject because it enabled me to shoot with perfect ease in the half-light. The focus is on the boy's eyes; the background is blurred thanks to the open aperture, and the children stand out well from the low-contrast surface.

Sven Zellner Zeiss Ikon camera and Biogon T* 2/35 ZM

Zeiss Ikon System

Professional cleaning and maintenance

In order to guarantee the high quality and precision of our lenses, they undergo a number of extensive cleaning processes using special fluids throughout production. And so that you can care for your valuable equipment whether you are at home and or out and about, we provide you with our carefully developed cleaning products. Our Lens Cleaning Kit comes not only with the cleaning fluid, but also with a dust brush, microfiber cloth, 10 pre-moistened wipes and a set of instructions for professional lens care. The components are all kept conveniently close at hand in a high quality, fabric belt pouch. The cleaning fluid, microfiber cloths and wet wipes are also available separately.



Cleaning optics the proper way: Carl Zeiss Lens Cleaning Kit



Eye to eye with Carl Zeiss

Our qualified specialist dealers are your contacts for any questions you may have with regard to maintenance and care, service and warranty issues. To find your local Carl Zeiss dealer, please go to the list given on our website.

- Internet www.zeiss.com/photo
- E-Mail photo@zeiss.de
- Telephone **+49 (0) 73 64-20-6175**



Carl Zeiss Headquarters in Oberkochen, Germany

Carl Zeiss Lens Cleaning Kit

www.zeiss.com/photo



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Carl Zeiss Cameras

Zeiss Ikon

Count on passion

Many people prefer the road less traveled. The journey is more important. The opinions of the masses are irrelevant. They question the norm and do often the unexpected. The **Zeiss Ikon Rangefinder Camera** is the ideal photographic tool for these individuals, allowing maximum creativity with the freedom and intimacy of 35 mm rangefinder photography. Combining the ultimate refinement in optical and mechanical possibilities, it literally pushes the limits of today's film technology. The **Zeiss Ikon** unites a traditional design with modern conveniences, for picture taking – without any surprises caused by the technology. It thus enables photographers to turn a creative idea for an image into a real picture. Equipped with the renowned M bayonet, this camera is the tool for optimum use of the ZEISS ZM lenses and is also compatible with all other lenses equipped with an M bayonet. The **Zeiss Ikon** is available with a black or silver finish.

Zeiss Ikon

16532793
Carl Zeiss
Planar 2/50 M

Zeiss Ikon



We make it visible.



Zeiss Ikon

Zeiss Ikon Rangefinder-Camera

■ Precise Rangefinder System

- widest rangefinder base on the market (55 mm/2,2")
- particularly large triangulation field for accurate focusing
- triangulation field remains precisely in the center of the image when focusing



■ Bright, Clearly Arranged Viewfinder

- extra large viewfinder image for pleasurable image composition
- special anti-reflective coatings make it particularly brilliant and resistant to stray light
- shows viewfinder frames with indication of focal length, selected and recommended shutter speed in an LED display
- viewfinder frames for 28, 35, 50, 85 mm focal lengths
- the brightness of the LED display is automatically adjusted to ambient light



■ Convenient Exposure Metering

- center-weighted TTL exposure metering for accurate light measurement
- aperture priority exposure mode with +/- 2 f/stop override, plus manual exposure mode
- exposure lock feature stores meter reading and allows change in composition without affecting the exposure



■ Reliable Shutter

- electronically controlled, vertical travel, focal plane shutter
- metal shutter blades are particularly precise and long-lasting
- exposure times from 1/2000 s - 8 s, plus bulb setting
- flash sync at 1/125 s

■ Intuitive Operating Concept

- enables particularly easy and fast adjustments
- avoids interruptions and disturbances when taking pictures
- film advance lever with particularly smooth motion
- conventional film loading through the back of the camera, even when the camera is tripod mounted



Technical Specifications

Zeiss Ikon Rangefinder

Camera type	Rangefinder camera
Film format	35 mm film
Lens mount	M-bayonet
Viewfinder frame	28, 35, 50, 85 mm
Rangefinder base-length	55,9 mm (2,2")
Exposure meter	Center-weighted TTL-system, Aperture priority auto exposure control with AE lock or manual exposure control
TTL metering range	with ISO 100 and f/2: EV0-19 (f/2: 4 s, f/16: 1/2000 s)
Film speed	Adjustable: ISO 25 – 3200 (1/3 stop intervals)
Shutter displays	Shutter speed, Shutter speed warning Battery status Auto exposure lock
Shutter	Metal shutter blades, opens vertically, electronically controlled
Shutter speed	1/2000 s to 8 s, Bulb
Flash synchronization	1/125 s or longer, X-contact, X-sync
Film transport	Manual advance with rapid wind lever, Rewind via crank
Tripod-thread	¼" in base plate
Batteries	2 x 1.5 V, type LR44, SR44, 1x Lithium CR 1/3
Overall dimensions	138 x 78 x 32 mm (5.4 x 3.1 x 1.3")
Weight	500 g (17.6 oz.)

Optional

Accessories



Add-on viewfinder

The high-quality attachable viewfinder enables convenient image composition with wide-angle lenses. Available for focal lengths of 15, 18, 21/25 and 25/28 mm.



Camera leather case

The 38 g (1.34 oz.) attachable side grip makes it easier to grip and hold the camera. Additionally, it provides a ¼" tripod thread directly under the optical axis.



Camera leather case

The high-quality black case made of real leather with a black velvet lining protects the camera against jolts, shaking and rain during transport and during breaks. Is screwed on to the camera. Simply open the front to start taking pictures.

Technical

Highlights

- Analog 35 mm camera with an M bayonet
- Widest rangefinder base on the market for highly precise focusing
- Extra large viewfinder and very bright image with a clearly arranged display of the most important information
- Center-weighted TTL exposure metering with practical exposure correction and separate exposure storage lever
- Metal shutter blades open vertically (1/2000 – 8 s, B setting, flash synchronized to 1/125 s or longer)

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Camera Lens Division

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Carl Zeiss Cameras

Zeiss Ikon SuperWide

Enjoy infinite range

To some, the pursuit of photographic purity is both a creative challenge and a personal passion. Free from complicated cameras and unnecessary features, they pursue their vision in the purest form, relying on their experience and skill to create the ideal image. The **Zeiss Ikon SuperWide** was created for these rare individuals. It refines the idea of an uncomplicated camera and the simplicity of photography to the extreme. It foregoes an elaborate rangefinder and focuses entirely on photography with super wide-angle lenses. An accessory shoe directly above the optical axis accommodates an optional viewfinder that is matched to the lens. The second accessory shoe is equipped with a direct X-contact and intended for attachable flashes, levels and other accessories. With the exception of the rangefinder, the camera possesses the same features as the Zeiss Ikon rangefinder camera. The exposure setting is shown on a special LED display on the back of the camera. The **Zeiss Ikon SW** is available with a black or silver finish.



Zeiss Ikon SuperWide



We make it visible.

Technical Specifications

Zeiss Ikon SuperWide

Camera type	Super wide-angle camera
Film format	35 mm film
Lens mount	M-bayonet
Viewfinder	Two accessory shoes for add-on viewfinders
Exposure meter	Center-weighted TTL-system, aperture priority auto exposure control with AE lock or manual exposure control
TTL metering range	With ISO 100 and f/2: EV0-19 (f/2: 4 s, f/16: 1/2000 s)
Film speed	Adjustable: ISO 25 – 3200 (1/3 stop intervals)
LED-Display	Shutter speed range Shutter speed warning Battery status
Shutter	Metal shutter blades, opens vertically, electronically controlled
Shutter speed	1/2000 s to 8 s, Bulb
Flash synchronization	1/125 s or longer, X-contact, X-sync
Film transport	Manual advance with rapid wind lever, Rewind via crank
Tripod-thread	¼" in base plate
Batteries	2 x 1.5 V, type LR44, SR44, 1x Lithium CR 1/3
Overall dimensions	138 x 72.5 x 32 mm (5.4 x 2.8 x 1.3")
Weight	410 g (14.5 oz.)

Optional

Accessories



Add-on viewfinder

The high-quality attachable viewfinder enables convenient image composition with wide-angle lenses. Available for focal lengths of 15, 18, 21/25 and 25/28 mm.



Camera leather case

The 38 g (1.34 oz.) attachable side grip makes it easier to grip and hold the camera. Additionally, it provides a ¼" tripod thread directly under the optical axis.



Camera leather case

The high-quality black case made of real leather with a black velvet lining protects the camera against jolts, shaking and rain during transport and during breaks. Is screwed on to the camera. Simply open the front to start taking pictures.

Technical

Highlights

- Analog 35 mm camera with an M bayonet
- Specializes in super wide-angle photography with an attachable viewfinder
- Provides a second accessory shoe with a direct X-contact for attachable viewfinders, flashes or levels
- Center-weighted TTL exposure metering with practical exposure correction and separate exposure storage lever; exposure times can be read on a special display
- Metal shutter blades open vertically (1/2000 – 8s, B setting, flash synchronized to 1/125s or longer)

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Carl Zeiss ZM Lenses

Distagon T* 2,8/15 ZM

The Superstar of Ultra-wide Photography

This ultra wide-angle lens is the pinnacle of modern rangefinder lens design. The **Distagon T* 2,8/15 ZM** is a rectilinear lens with very dynamic perspective effects for critical architecture and interior photography. It is a fast lens for the focal length, allowing for hand-held photography under difficult lighting conditions. The lens is made in Germany and incorporates a very complex optical design using exotic optical materials such as barium dense flint with a high refractive index and fluor crown with anomalous partial dispersion. It uses aspheric lens elements and an internal focus mechanism for distortion-free images and consistent performance over the whole frame and across the entire focusing range. The standard center filter compensates for the natural vignetting effect and provides even tonal reproduction across the image field. When used with the 15 mm viewfinder, the **Distagon T* 2,8/15 ZM** is an ideal match to the Zeiss Ikon SW camera. Combined with a digital rangefinder camera with a 1.3 crop factor, the lens has an effective super wide-angle focal length of 20 mm and also delivers impressive perspective effects.



Distagon T* 2,8/15 ZM



We make it visible.



1 The ultra wide-angle focal length creates images with a dynamic perspective.

2 A fast lens for this focal length for hand-held photography even under difficult lighting conditions.

3 The aspherical design and internal focusing mechanism ensure consistent imaging performance throughout the entire focusing range as well as sharpness to the periphery of the image.

Photo: Jens Karlsson

The Superstar of Ultra-wide Photography

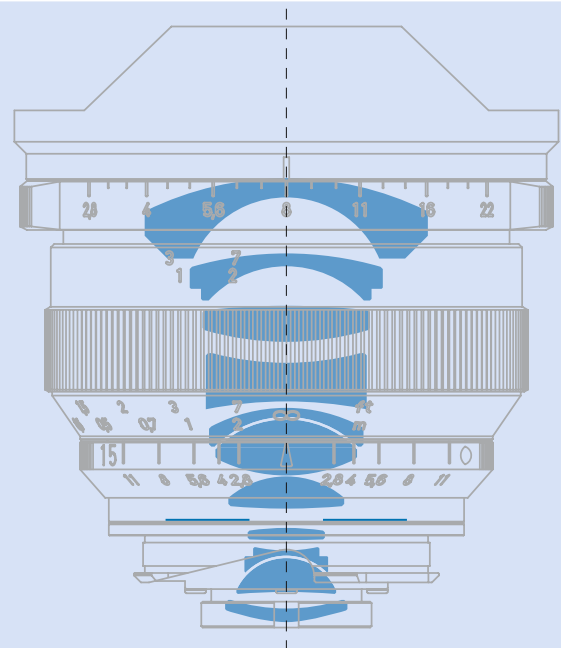
Technical Specifications

Distagon T* 2,8/15 ZM

Focal length	15 mm
Aperture range	f/2.8 – f/22 (1/3 stop intervals)
Number of elements/groups	11/9
Focusing range	0.3 m (0.98 ft) – ∞
Angular field* (diag./horiz./vert.)	110/100/77°
Coverage at close range	43 x 65 cm (17 x 26")
Image ratio at close range	1:18
Filter-thread	M 72 x 0.75
Length (with caps)	92 mm (3.6")
Diameter	78 mm (3.1")
Weight	500 g (18 oz.)
Camera mount	ZM (M bayonet)
Scope of delivery	Center filter included
Optional accessories	Viewfinder 15 mm

*referring to 35 mm format

Construction



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Carl Zeiss ZM Lenses

Distagon T* 4/18 ZM

The Compact, Ultra Wide-angle Specialist

This ultra wide-angle lens allows for dynamic and unusual perspectives, making it well-suited for photographing confined interior spaces, as well as expansive landscapes. The **Distagon T* 4/18 ZM** is compact for its focal length, and offers very good distortion correction and outstanding performance across the image frame. The lens is coupled to the camera rangefinder and the optional 18 mm viewfinder is available for accurate image composition. Combined with a digital rangefinder camera with a 1.3 crop factor, the lens has an effective focal length of 23 mm.



Distagon T* 4/18 ZM



ZEISS

We make it visible.



1 Particularly compact, ultra wide-angle focal length with excellent distortion control.

2 Offers a dynamic perspective for travel photographers, as well as panorama, landscape and architecture photography.

3 The optical design features 10 lens elements in 8 groups for outstanding imaging performance over the entire image area.

Photo: Michael Ankenbrand

The Compact, Ultra Wide-angle Specialist

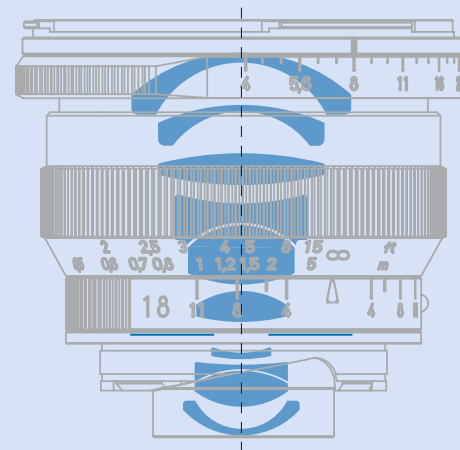
Technical Specifications

Distagon T* 4/18 ZM

Focal length	18 mm
Aperture range	f/4 – f/22 (1/3 stop intervals)
Number of elements/groups	10/8
Focusing range	0.5 m (1.6 ft) – ∞
Angular field* (diag./horiz./vert.)	98/87/65°
Coverage at close range	56 x 84 cm (22 x 33")
Image ratio at close range	1:23
Filter-thread	M 58 x 0.75
Length (with caps)	71 mm (2.8")
Diameter	65 mm (2.6")
Weight	350 g (12 oz.)
Camera mount	ZM (M bayonet)
Scope of delivery	Lens Shade included
Optional accessories	Viewfinder 18 mm

*referring to 35 mm format

Construction



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Carl Zeiss ZM Lenses

Biogon T* 2,8/21 ZM

The Super Crisp, Super Wide-angle

This fast, super wide-angle lens allows photographers to experiment with different angles and perspectives. The **Biogon T*2,8/21 ZM** offers outstanding performance and extreme resolving power even when shot wide open, with virtually no distortion, excellent control of flare and ghosting and superb contrast rendition across the entire frame. The slim lens design is easy to grip and focus, and uses a standard 46 mm filter diameter similar to many of the other ZM lenses and allows filters to be interchanged between the lenses. The lens is rangefinder coupled for easy focusing and the optional 21 mm viewfinder is available for accurate image composition. Combined with a digital rangefinder camera with a 1.3 crop factor, the lens has an effective focal length of 27 mm. The **Biogon T*2,8/21 ZM** is suitable for many different wide-angle applications including reportage work, landscape and architectural photos.



Biogon T* 2,8/21 ZM



ZEISS

We make it visible.



1 Fast, super wide-angle lens to experiment with different angles and perspectives.

2 Outstanding performance and resolving power capture the smallest details with outstanding contrast rendition.

3 The slim, all-metal body is best suited for reportage work, landscape and architectural photos.

Photo: Michael Ankenbrand

The Super Crisp, Super Wide-angle

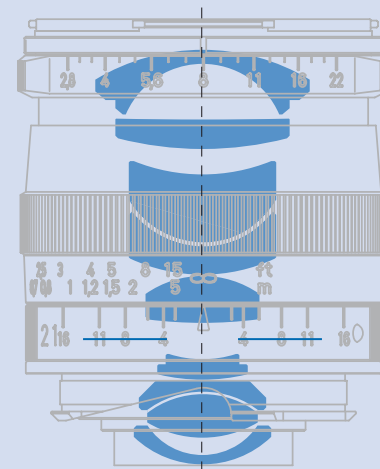
Technical Specifications

Biogon T* 2,8/21 ZM

Focal length	21 mm
Aperture range	f/2.8 – f/22 (1/3 stop intervals)
Number of elements/groups	9/7
Focusing range	0.5 m (1.6 ft) – ∞
Angular field* (diag./horiz./vert.)	90/80/58°
Coverage at close range	47 x 71 cm (19 x 28")
Image ratio at close range	1:21
Filter-thread	M 46 x 0.75
Length (with caps)	75 mm (3")
Diameter	53 mm (21")
Weight	280 g (9.9 oz)
Camera mount	ZM (M bayonet)
Optional accessories	Lens Shade M 46 Add-on viewfinder 21/25 mm

*referring to 35 mm format

Construction



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Carl Zeiss ZM Lenses

C Biogon T* 4,5/21 ZM

The Legendary Super Wide-angle Traveler

This compact super wide-angle lens produces distortion-free images at all apertures. The C in the **C Biogon T* 4,5/21 ZM** name stands for both 'compact' and 'classic', the latter referring to a legendary Zeiss design from 1952. Smaller and lighter than the Biogon T* 2,8/21 ZM, it is ideal for traveling and for photographing unobtrusively in public places. The lens is rangefinder-coupled for easy focusing and the optional 21 mm viewfinder is available for accurate image composition. Combined with a digital rangefinder camera with a 1.3 crop factor, the lens has an effective focal length of 27 mm. The **C Biogon T* 4,5/21 ZM** is an ideal lens for many different wide-angle applications including travel, architecture, landscape and interior photography.



C Biogon T* 4,5/21 ZM



We make it visible.



1 With a 53 mm (2.1") diameter and M46 filter size, this lens is exceptionally small and lightweight – ideal for traveling.

2 The super wide-angle lens adds a dynamic perspective to photographs.

3 Practical wide-angle lens (27 mm) when used with digital rangefinder cameras with a 1.3 crop factor.

Photo: Gabi Budulig

The Legendary Super Wide-angle Traveler

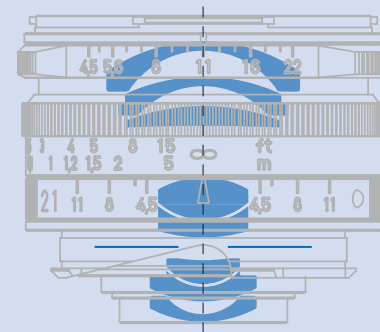
Technical Specifications

C Biogon T* 4,5/21 ZM

Focal length	21 mm
Aperture range	f/4.5 – f/22 (1/3 stop intervals)
Number of elements/groups	8/6
Focusing range	0.5 m (1.6 ft) – ∞
Angular field* (diag./horiz./vert.)	90/80/58°
Coverage at close range	48 x 72 cm (19 x 28")
Image ratio at close range	1:20
Filter-thread	M 46 x 0.75
Length (with caps)	56 mm (82.2")
Diameter	53 mm (2.1")
Weight	210 g (7.4 oz.)
Camera mount	ZM (M bayonet)
Optional accessories	Lens Shade M 46 Add-on viewfinder 21/25 mm

*referring to 35 mm format

Construction



Carl Zeiss AG
Camera Lens Division
 D-73446 Oberkochen · Germany
www.zeiss.com/photo

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Carl Zeiss ZM Lenses

Biogon T* 2,8/25 ZM

The Creative Wide-angle Artist

This moderate wide-angle lens offers exciting visual perspectives, but is also one of the easiest to control. The **Biogon T* 2,8/25 ZM** delivers high contrast across the entire image field and is virtually free of distortion at full apertures. With the aperture stopped down, detail is finely rendered with a pleasing three-dimensional quality. The lens is rangefinder-coupled for easy focusing and the optional 25/28 mm viewfinder is available for accurate image composition. Combined with a digital rangefinder camera with a 1.3 crop factor, the lens has an effective focal length of 33 mm. The **Biogon T* 2,8/25 ZM** is a creative tool for scenic portraits, inspiring landscapes and expansive architectural photography.



Biogon T* 2,8/25 ZM



ZEISS

We make it visible.



1 The wide-angle focal length offers exceptional creative and artistic possibilities.

2 The classic Biogon construction features 9 lens elements in 7 groups and is virtually distortion-free.

3 The Zeiss T* anti-reflection coating absorbs stray light and reflections to ensure a brilliant image.

Photo: Jens Karlsson

The Creative Wide-angle Artist

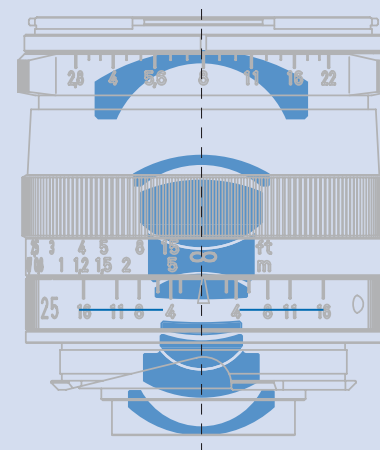
Technical Specifications

Biogon T* 2,8/25 ZM

Focal length	25 mm
Aperture range	f/2.8 – f/22 (1/3 stop intervals)
Number of elements/groups	9/7
Focusing range	0.5 m (1.6 ft) – ∞
Angular field* (diag./horiz./vert.)	82/72/52°
Coverage at close range	43 x 65 cm (17 x 26")
Image ratio at close range	1:18
Filter-thread	M 46 x 0.75
Length (with caps)	71 mm (2.8")
Diameter	53 mm (2.1")
Weight	260 g (9.2 oz.)
Camera mount	ZM (M bayonet)
Optional accessories	Lens Shade M 46 Add-on viewfinder 21/25 mm Add-on viewfinder 25/28 mm

*referring to 35 mm format

Construction



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Carl Zeiss ZM Lenses

Biogon T* 2,8/28 ZM

The Universal Traveler

This classic, wide-angle focal length with a moderate perspective complements the standard 50 mm focal length. The **Biogon T* 2,8/28 ZM** exhibits crisp detail without distortion at full apertures, even at the close-focus range. The optical construction minimizes flare, enabling photography against a strong back light without compromising image quality. This lens has the widest angle of view that can be used with the integrated viewfinder on the Zeiss Ikon rangefinder camera, an additional 15/28 mm viewfinder is available. Combined with a digital rangefinder camera with a 1.3 crop factor, the lens has an effective focal length of 36 mm ideal for reportage style photography. The **Biogon T* 2,8/28 ZM** is ideal for travel photography and is also well-suited for group and interior photographs when space is at a premium and wide-angle distortion needs to be minimized.



Biogon T* 2,8/28 ZM



ZEISS

We make it visible.



- 1** Due to excellent flare control, even very bright sources of light can be integrated successfully into the picture.
- 2** The compact wide-angle design makes it easy to transport and ideal for dynamic city, landscape and architecture photography.
- 3** Offers outstanding distortion control over the entire frame.

Photo: Gabi Budulig

The Universal Traveler

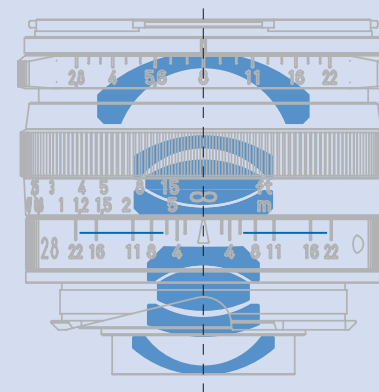
Technical Specifications

Biogon T* 2,8/28 ZM

Focal length	28 mm
Aperture range	f/2.8 – f/22 (1/3 stop intervals)
Number of elements/groups	8/6
Focusing range	0.5 m (1.6 ft) – ∞
Angular field* (diag./horiz./vert.)	75/65/46°
Coverage at close range	37 x 55 cm (15 x 22")
Image ratio at close range	1:16
Filter-thread	M 46 x 0.75
Length (with caps)	62 mm (2.4")
Diameter	53 mm (2.1")
Weight	230 g (8.1 oz.)
Camera mount	ZM (M bayonet)
Optional accessories	Lens Shade M 46 Add-on viewfinder 25/28 mm

*referring to 35 mm format

Construction



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Carl Zeiss ZM Lenses

Biogon T* 2/35 ZM

The Powerful All-rounder

This moderate wide-angle focal length is one of the most popular lenses for rangefinder photography. The **Biogon T* 2/35 ZM** is the fastest lens in the Biogon family. It offers outstanding performance, distortion-free images and the fast f/2 aperture permits hand-held photography under difficult lighting conditions. When stopped down, the lens accurately captures the smallest details, yielding images with very good contrast and 'sparkle'. Combined with a digital rangefinder camera with a 1.3 crop factor, the lens has an effective focal length of 46 mm, similar to the standard 50 mm lens for film-based cameras. The **Biogon T* 2/35 ZM** is a favorite of photojournalists and an all around outstanding performer for almost any application.



Biogon T* 2/35 ZM



We make it visible.



- 1** The fastest lens in the Biogon family with outstanding imaging performance.
- 2** Creative tool for virtually all photographic applications.
- 3** Optimum flare control allows bright light sources to be successfully integrated into the photograph.

Photo: Sven Zellner

The Powerful All-rounder

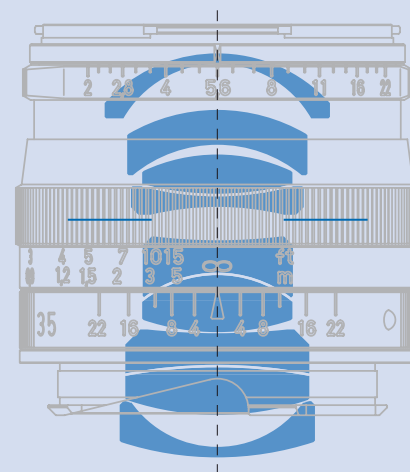
Technical Specifications

Biogon T* 2/35 ZM

Focal length	35 mm
Aperture range	f/2 – f/22 (1/3 stop intervals)
Number of elements/groups	9/6
Focusing range	0.7 m (2.3 ft) – ∞
Angular field* (diag./horiz./vert.)	63/54/38°
Coverage at close range	43 x 65 cm (17 x 26")
Image ratio at close range	1:18
Filter-thread	M 43 x 0.75
Length (with caps)	63 mm (2.5")
Diameter	56 mm (2.2")
Weight	250 g (8.8 oz.)
Camera mount	ZM (M bayonet)
Optional accessories	Lens Shade M 43

*referring to 35 mm format

Construction



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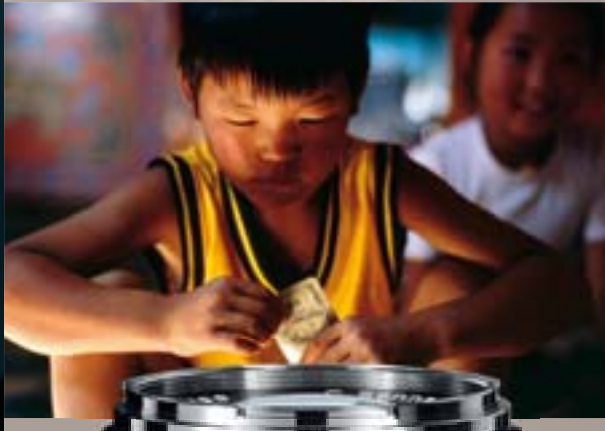
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Carl Zeiss ZM Lenses

C Sonnar T* 1,5/50 ZM

The Fast and Compact Photojournalist

This standard focal length offers special qualities which make it well-suited for portraiture. The 'C' designation in the **C Sonnar T* 1,5/50 ZM** name means both 'compact' and 'classic'. The lens design and aperture geometry reflect its predecessor from the 1930s, the Sonnar 1.5/50, which was the fastest standard lens of its time. The excellent flare control inherent of the Sonnar lens design is further optimized with the ZEISS T* anti-reflection coating. This new lens stays true to its heritage, physically resembling the objectives of bygone days. With its fast aperture, taking photographs with a beautiful 'bokeh' that reflect the ambiance of the golden age of rangefinder photography is as simple as pressing a button.



C Sonnar T* 1,5/50 ZM



We make it visible.



1 Fast f/1.5 aperture and 10-bladed diaphragm, creating a pleasing 'bokeh' effect to visually create the right mood.

2 Compact and fast lens, ideal for photojournalists and for available light photography.

3 Excellent flare control further optimized with the T* anti-reflection coating

Photo: Sven Zellner

The Fast and Compact Photojournalist

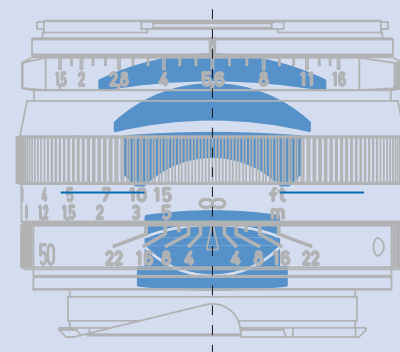
Technical Specifications

C Sonnar T* 1,5/50 ZM

Focal length	50 mm
Aperture range	f/1.5 – f/16 (1/3 stop intervals)
Number of elements/groups	6/4
Focusing range	0,9 m (3 ft) – ∞
Angular field* (diag./horiz./vert.)	46/39/27°
Coverage at close range	37 x 55 cm (15 x 22")
Image ratio at close range	1:15
Filter-thread	M 46 x 0.75
Length (with caps)	68 mm (2.7")
Diameter	52 mm (2")
Weight	240 g (8.5 oz.)
Camera mount	ZM (M bayonet)
Optional accessories	Lens Shade M 46

*referring to 35 mm format

Construction



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Carl Zeiss ZM Lenses

Planar T* 2/50 ZM

The Perspective of the Human Eye

This fast, standard focal length offers a natural perspective comparable to the human eye for a wide variety of applications. The **Planar T* 2/50 ZM** provides high imaging performance at full aperture, making it possible to use a shallow depth of field without compromising image quality. Combined with a digital rangefinder camera with a 1.3 crop factor, the lens has an effective focal length of 65 mm, ideal for portraits.



Planar T* 2/50 ZM



We make it visible.



1 The lens offers a natural perspective, comparable to the human eye.

2 High imaging performance at full aperture keeps details in focus while producing a pleasing out-of-focus background.

3 Combined with a digital rangefinder camera, the effective 65 mm focal length is well suited for portraits.

Photo: Tobias Zehnder

The Perspective of the Human Eye

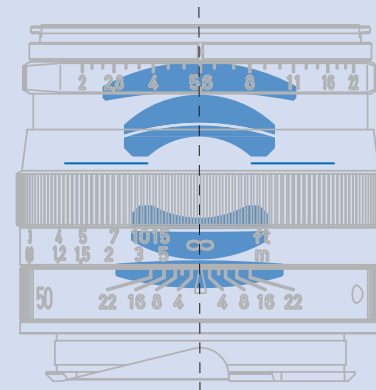
Technical Specifications

Planar T* 2/50 ZM

Focal length	50 mm
Aperture range	f/2 – f/22 (1/3 stop intervals)
Number of elements/groups	6/4
Focusing range	0.7 m (2.3 ft) – ∞
Angular field* (diag./horiz./vert.)	47/39/27°
Coverage at close range	29 x 43 cm (11 x 17")
Image ratio at close range	1:12
Filter-thread	M 43 x 0.75
Length (with caps)	68 mm (2.7")
Diameter	52 mm (2")
Weight	230 g (8.1 oz.)
Camera mount	ZM (M bayonet)
Optional accessories	Lens Shade M 43

*referring to 35 mm format

Construction



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Carl Zeiss ZM Lenses

Sonnar T* 2/85 ZM

The Flexible Selector

This extremely fast, short telephoto lens incorporates a modern lens design and manufacturing processes to deliver uncompromising image quality. The **Sonnar T* 2/85 ZM** is manufactured in Germany and utilizes floating lens elements to provide excellent sharpness and distortion-free images across the entire focusing range. The lens has a very wide and precise focus rotation to help with critical focusing. With a fast $f/2$ aperture, the photographer can use selective depth of field to separate the subject from the foreground and background. The **Sonnar T* 2/85 ZM** features a non-linear rangefinder coupling mechanism and engages the 85 mm viewfinder frame line when used with the Zeiss Ikon rangefinder camera. Combined with a digital rangefinder camera with a 1.3 crop factor, the lens has an effective focal length of 111 mm.



Sonnar T* 2/85 ZM



We make it visible.



Photo: Michael Ankenbrand

- 1** A fast f/2 aperture allows for selective depth of field, focusing attention on the key elements of the image.
- 2** Extremely accurate, non-linear rangefinder coupling mechanism helps with critical focusing.
- 3** Designed for a wide variety of applications where critical focus and some image compression is valued.

The Flexible Selector

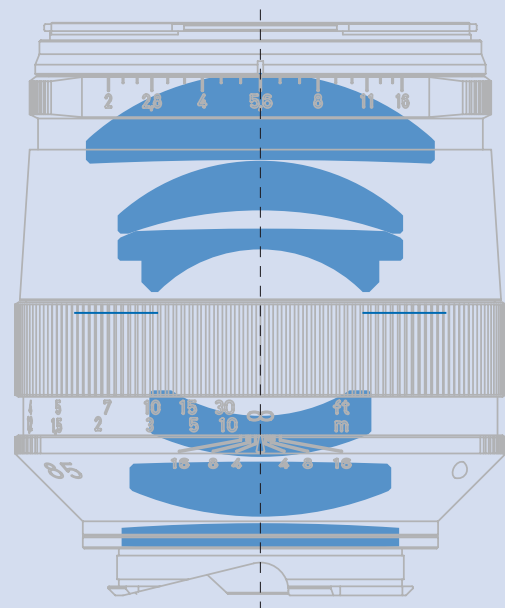
Technical Specifications

Sonnar T* 2/85 ZM

Focal length	85 mm
Aperture range	f/2 – f/16 (1/3 stop intervals)
Number of elements/groups	6/6
Focusing range	1 m (3.3 ft) – ∞
Angular field* (diag./horiz./vert.)	29/24/16°
Coverage at close range	24 x 36 cm (9.4 x 14")
Image ratio at close range	1:10
Filter-thread	M 58 x 0.75
Length (with caps)	100 mm (3.9")
Diameter	70 mm (2.8")
Weight	500 g (18 oz.)
Camera mount	ZM (M bayonet)
Optional accessories	Lens Shade M 58

*referring to 35 mm format

Construction



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