



PENTACON PRAKTICA super TL

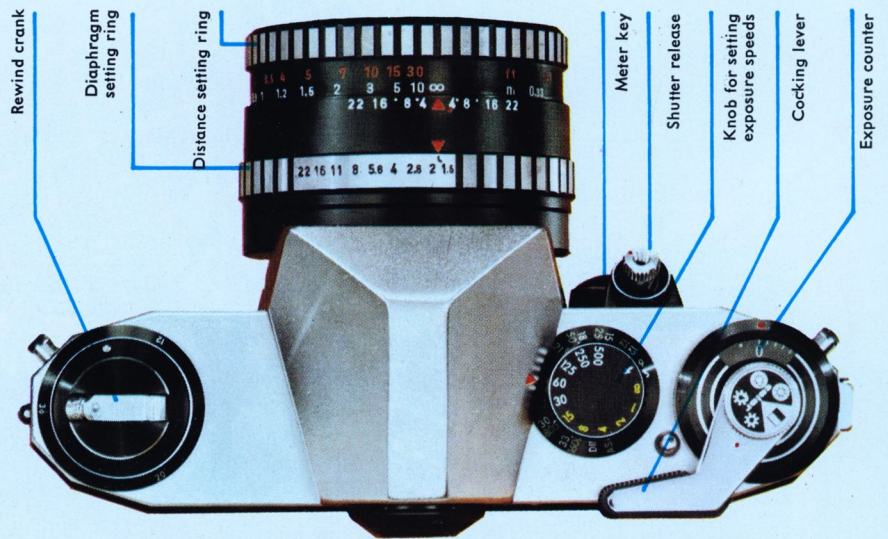




The PRAKTICA super TL is a type of true single-lens 35 mm reflex camera. The special features of this camera system have, in the PRAKTICA super TL, been combined with a new method of through-the-lens metering based on the experience gained by KOMBINAT VEB PENTACON DRESDEN in the construction of TTL cameras.

The internal metering in the PRAKTICA super TL is brought about by a Beam Splitter and a Light Concentrator in connection with a Cds photo-resistance.

It is above all to these two structural elements that the camera owes its capacity for absolutely reliable metering. Additional facilities, such as PL automatic film loading, fully automatic diaphragm control, and the typical PENTACON camera accessory program, accentuate the operational efficiency of the PRAKTICA super TL. Despite its technical superiority, the camera is light in weight and easy to handle, it is interesting and worth striving for both by the technically uninitiated photo amateur as well as by the professional.



**True single-lens 35 mm
Reflex Camera
PENTACON (PL)
automatic film loading system**

**PENTACON internal
metering (TTL System)
by means of beam splitter
and light concentrator**

**Measuring range
extended from 1 asb at
f/1.4 to the greatest
luminous densities**

PRAKTICA super TL

For distinguished quality, a Gold Medal was awarded to the PRAKTICA super TL

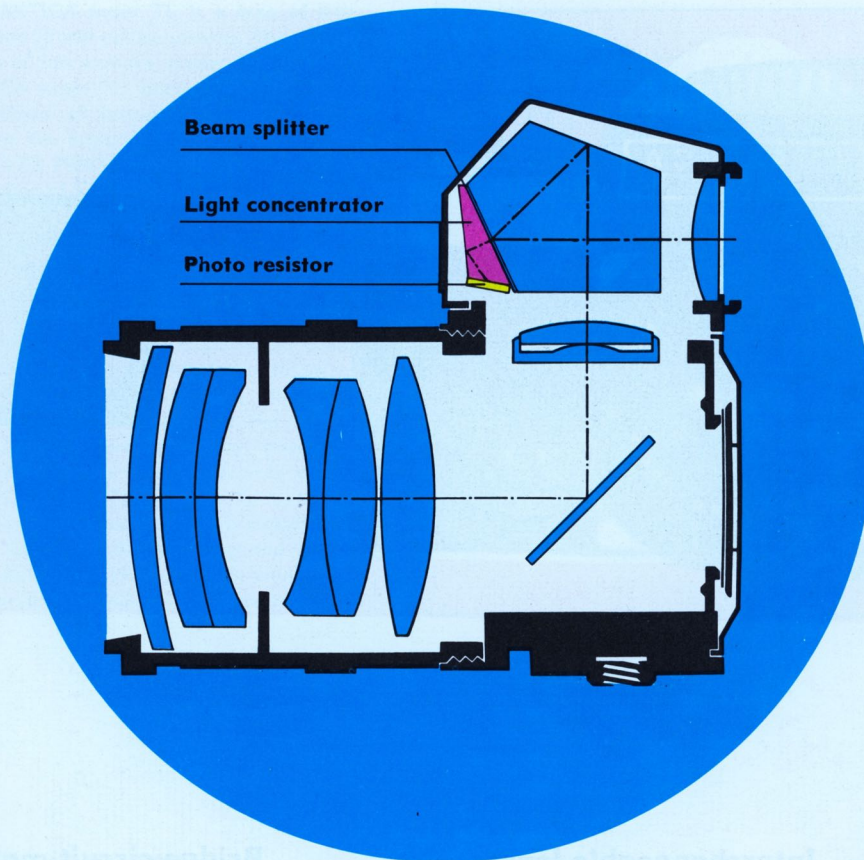


Focal-plane shutter with speeds from 1 sec. to $\frac{1}{500}$ sec. and B
Complete line of accessories for special activities

Interchangeable lenses with focal lengths from 20 mm to 1000 mm, lenses up to 300 mm with fully automatic diaphragm control

Bridge circuit makes metering independent of voltage of power source

Internal Metering with Beam Splitter and Light Concentrator



The PRAKTICA super TL measures the light through the lens, that means inside the camera. The result is accurate to the utmost, since only the light actually forming the image on the film is measured. To achieve this, the metering device is installed so as to measure the light in the path of rays. Accuracy in metering depends on the constructive solution, and the PENTACON designers, utilizing their experience already gained in the field of internal measuring, have created a perfectly new, precisely working system with beam splitter and light concentrator.

The beam splitter on the image erecting surface of the PENTA-prism directs a part of the light from the path of rays of the viewfinder to a light concentrator where it is concentrated and conducted to a photo resistor for metering.

Any stray light which may enter the viewfinder eyepiece becomes practically ineffective. This new system of internal metering ensures a better conduction of the light to the photo resistor, thus achieving an extended measuring range having a lower limit of 1 apostilb at an aperture of $f/1.4$.

With the PRAKTICA super TL precise light metering is possible even by candle light.

This internal measuring device is part of the automatic exposure control system. It is coupled to the film-speed, shutter-speed and aperture settings. While the measuring key is being depressed the meter needle in the image field has to be centered to a fixed circular mark by actuation either of the diaphragm setting ring or the exposure speed knob. In this way you get the correct meter reading and at the same time set the required values in the camera. Whether you are using

All the Advantages of the
Reflex Finder Image

Maintenance-free Power Source – Light Metering independent of potential differences

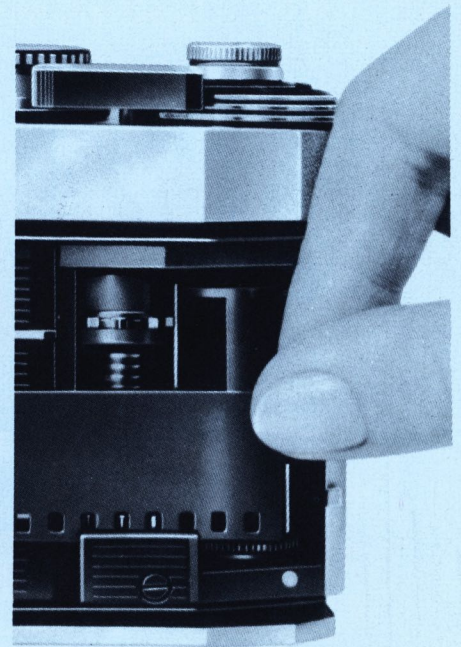
a wide-angle or a telephoto lens, the image angle of the lens is always the metering angle and, whatever the situation, only the light actually needed for composing the picture is measured. Also exposure factors for extension equipment (Intermediate Ring, Close-up Bellows Attachment) and for filters are automatically taken into account.


The little Mallory Mercury Battery PX 13 (or PX 625) lasts as long as two years. This is all the more remarkable, since the maintenance-free battery shows only a slight voltage drop during this period. Because a bridge circuit is employed in the PRAKTICA super TL, light metering is widely independent of potential differences in the power source.

Quick and easy Film Loading by means of the PL System (PENTACON Loading)

Three procedures only are now needed for loading the film:

- Inserting the film cassette,
- Pulling the leading end of the film up to the marking point.
- Closing the camera back.



reflex
sharp 
pictures

Fresnel lens Ground-glass circle Micro-prism screen

Circular mark Meter needle



All the Advantages of the Reflex Finder Image

● The prism viewfinder image in the PRAKTICA super TL is the basic element for control and operation of the camera.

● Correct aperture/shutter speed combination is guaranteed by the centering of the above-mentioned meter needle to the fixed circular mark

● Attention! is called after every exposure when the red signal appears in the finder image. It means that the conveniently placed rapid wind lever has to be actuated to advance the film, and at the same time, cock the shutter.

● The focusing system of the PRAKTICA super TL comprises a brilliant Fresnel lens. In its centre is a micro-prism screen and a ground-glass circle, on which, by rotation of the distance setting ring, you are able to determine absolute sharpness of the image and also to check the depth of field. The extreme reliability in focusing with the PRAKTICA super TL is due to the sudden transition from sharpness to unsharpness and vice versa in the micro-prism screen.

● That is why pictures taken with the PRAKTICA super TL are reflex-sharp.



**Interchangeable lenses
with focal lengths from
20 mm to 1000 mm**

This unlimited choice of lenses is the outstanding advantage of a true single-lens reflex camera. The focal-plane shutter, characteristic of the true single-lens reflex, is separated from the lens, for it runs down directly in front of the film plane. This makes it possible to use lenses of many focal lengths. The specific grading within the range of focal lengths from 20 mm to 1000 mm adapts the PRAKTICA super TL to every subject. These are excellent preconditions for individual picture composition.

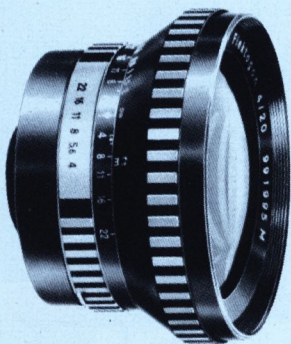
Light and color Filters are available for all lenses.

List of lenses

Zeiss Flektogon	20 mm f/4	APD
PENTACON auto	29 mm f/2.8	APD
Zeiss Pancolar	50 mm f/1.8	APD
PENTACON auto	50 mm f/1.8	APD
Domiplan	50 mm f/2.8	APD
Zeiss Tessar	50 mm f/2.8	APD



APD = automatic pressure diaphragm
 PD = pre-set diaphragm
 CD = click-stop- diaphragm



PENTACON auto 100 mm f/2.8 APD/CD
 PENTACON 135 mm f/2.8 PD
 aus Jena S 180 mm f/2.8 APD
 PENTACON 200 mm f/4 PD
 aus Jena S 300 mm f/4 APD
 PENTACON 300 mm f/4 PD
 PENTACON 500 mm f/5.6 PD

Zeiss Spiegelobjektiv
 (Mirror Lens) 500 mm f/4
 Zeiss Spiegelobjektiv
 (Mirror Lens) 1000 mm f/5.6



Wide Range of Accessories

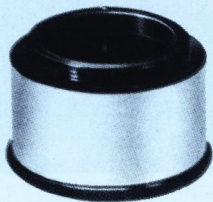
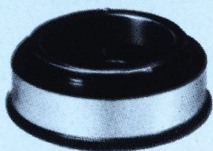
The through-the-lens metering of the PRAKTICA super TL makes just the right precondition for changing this reflex camera into a system camera. Extension factors resulting from using bellows attachments and filters are considered automatically. Intermediate rings, intermediate rings with

plunger mechanism and close-up bellows (extendable from 35 mm to 125 mm or 220 mm) are available. A special intermediate ring with double cable release serves to maintain the automatic diaphragm control when using simple intermediate rings and close-up bellows attachments.

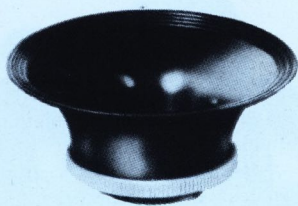
For exposures exceeding the 1:1 ratio a reversing ring may be used, and for the stepless changing of the subject distance, a focusing slide.

In conjunction with the close-up bellows attachment intermediate negatives or duplicates can be made with the slide ring from black and white and color negatives as well as from diapositives.

The camera is connected directly to the microscope with the micro attachment for photomicrography. An accessory clip can be attached to the eyepiece for flash exposures and the rubber eye cup keeps out extraneous light.



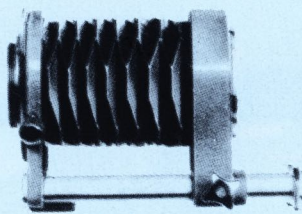
Intermediate Rings



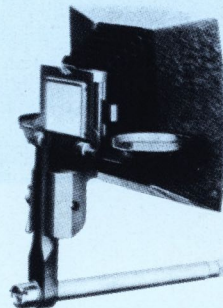
Rubber Eye Cup



Mount for correcting lens



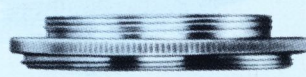
Close-up Bellows Attachment



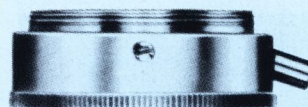
Transparency Copying Device



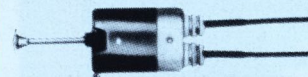
Focusing Slide



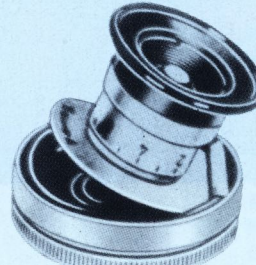
Reversing Ring



Special Intermediate Ring



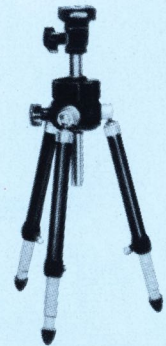
Double Cable Release



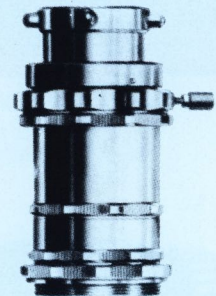
Focusing Telescope



Angle Finder



Universal Tripod



Microscope Attachment Piece



Accessory Clip

PRAKTICA super TL

Those who wear glasses can use the correction ring to be able to take pictures without the glasses hampering their vision.

Absolutesteadiness of the camera is ensured by using the universal tripod, for exposures near the ground the angle finder may be used, the focusing telescope serves to focus with utmost accuracy and, of course, the camera itself is carried in the everready case.



Technical Features

- True single-lens 35 mm reflex camera
- Through-the-lens metering by means of beam splitter and light concentrator with photo-resistor coupled with shutter-speed, film-speed and aperture settings
- Maintenance-free power source (Mallory Mercury Battery PX 13 or PX 625)
- Extended measuring range. from 1 apostilb at f/1.4 to the greatest luminous densities
- Switch-on key for light meter
- Focusing either on micro-prism screen or on ground-glass circle
- PL automatic film loading system
- Focal-plane shutter with speeds from 1 sec. to $\frac{1}{500}$ sec. F and X synchronization
- Interchangeable lenses with focal lengths from 20 mm to 1000 mm, up to 300 mm with automatic diaphragm control
- Weight 560 grams ($19\frac{3}{4}$ ozs.) without lens. Dimensions: 157 mm x 96 mm x 50 mm ($6\frac{1}{3}$ " x 4" x 2")
- Wide range of accessories

Slight alterations of the details given above may result from further development in the manufacturing process.

PENTACON
PRAKTICA
super TL

Kombinat VEB PENTACON DRESDEN
DEUTSCHE DEMOKRATISCHE REPUBLIK



III-6-15 131-71 Ag 22-12-71 E

