

# travemat

## Operating Instructions

Version 1

### EXAKTA

## Congratulations to your acquisition of the SCHACHT TRAVEMAT.

Accurate and reliable through-the-lens metering is rendered possible with this combined prism viewfinder and exposure meter for the Exakta and Exa I enabling you to fully benefit from the advantages of your mirror-reflex camera such as interchangeable lenses, extension tubes, etc. And we are sure you will like the results, so — good luck to you!

CONSTANTIN RAUCH KG  
Division: ALBERT SCHACHT

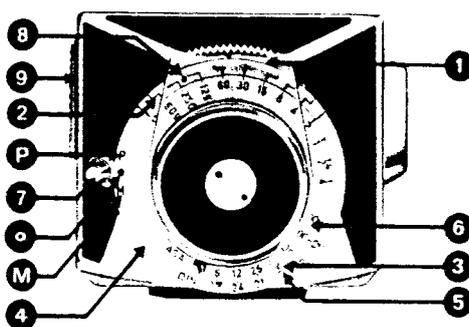
## SCHACHT TRAVEMAT — Interchangeable Prism Viewfinder with TTL Exposure Meter

Measuring of the incident light is effected by a cadmium-sulphide resistance above the ground glass screen. This CdS cell measures the light of the image on the film irrespective of lenses, extension tubes or other accessories. And measuring it is very simple. Nevertheless it is advisable to first consult the instructions before using the Travemat. The reference index specifies the individual conditions described in the following folder.

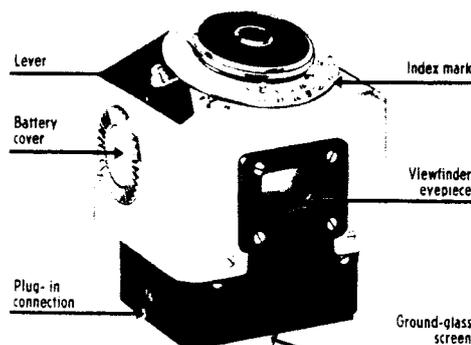
### Nomination

- ① Time lever
- ② Graduated scale
- ③ Index mark for DIN film speed
- ④ DIN scale
- ⑤ Index mark for ASA film speed
- ⑥ ASA and shutter speed scale
- ⑦ Lever
- ⑧ Red spot for checking battery charge
- ⑨ Battery cover
- P Index mark for checking battery charge
- o Battery switched off — red spot
- M Index mark for MEASURING

### Instructions



### Instructions



### Instructions for Use

#### 1. Ready for Operation

Remove the battery cover (9) by turning it to the left before inserting the Travemat.

Attention: In case the cover does not move smoothly, wedge the back of a knife into the corrugation and move it slightly to the left.

Insert the "Mallory PX 13" battery with the positive pole directed downwards, the coloured ring facing outwards, then reinsert the protective cover (9) and fasten it slightly.

Check the battery by shifting lever (7) to index "P". Then watch the indicator, moving it to the upper edge of the index mark by turning time lever (1).

The index mark of the time lever (1) must now be opposite the red spot (8) on the graduated scale (2). Should the time lever lie approx. 1½ time factors beyond the red spot, the battery must be replaced.

#### Finding the Proper Aperture

Set the lens diaphragm mechanism to M (manual). Shift lever (7) to M (measuring). Focus the viewfinder image on the ground-glass screen at full aperture, then watch the indicator on the left-hand side in the TRAVEMAT viewfinder while slowly turning the aperture ring until the indicator lies in the centre of the measuring bracket.

The correct aperture setting is obtained as soon as the indicator is clearly centered in the bracket.

Now the camera shutter can be triggered.

This procedure offers the advantage of only having to vary the f/number when taking series of shots under different light conditions.

The readiness for shooting can be substantially increased by this mode of operation: lift the camera to your eye, wind it, focus it, find the proper f/number — and shoot.

Now the TRAVEMAT is ready for operation.

To switch off the battery, turn lever (7) to the red spot "O" between "P" and "M".

#### 2. Application

Insert the TRAVEMAT into the camera so that it catches.

Select the proper DIN film speed by turning scale (6) until index mark (3) is in register with the DIN factor on scale (4) of the film used. For ASA values proceed in reversed order. The ASA factor on scale (6) will then coincide with index mark (5) on scale (4).

Intermediate values between the standard factors, e. g. 17 or 22 DIN, can be assessed and then set on the scale.

The other procedure (3B) is particularly advisable under unfavourable light conditions or if a special f/number is to be used for obtaining a certain depth-of-field.

#### Procedure According to 3B

##### Finding the Proper Aperture

Focus the viewfinder image on the ground-glass screen at full aperture. Set the lens diaphragm mechanism to M (manual).

Then preselect the proper shutter speed.

Shift lever (7) of the TRAVEMAT to M (measuring).

Move lever (1) to and fro while watching the index mark until the indicator is centered in the measuring bracket.

#### 3. Mode of Operation

There are two ways for measuring

- A) proceeding from shutter speed to aperture, and
- B) proceeding from aperture to shutter speed.

The question of which procedure to choose depends on the circumstances — both, however, guarantee absolutely exact and reliable results.

#### Procedure According to 3A

Proceeding from exposure time to aperture means choosing the proper aperture at a preselected shutter speed.

The preselected time is set both at the camera time selector ring and the TRAVEMAT time lever (1).

The shutter speed can be read on the scale (6) where the graduated scale (2) is connected with time lever (1).

Then shift the camera time selector ring to the same time factor and the camera is ready for operation.

Should the index mark lie between two graduations on the scale, shift it to the nearest time factor and correct the shutter setting according to A. Attention: Shift lever (7) to the red spot after shooting to prevent fast running down of the battery. If the mechanism is switched off after each exposure, the battery will have a life expectancy of 1—1½ year.

## Measuring Range

With a film speed of 18<sup>1</sup> DIN, f/number 2–32 and shutter speed 1/2–1/1000, the light factors 3–19 will be covered, corresponding to 6.4 – more than 100.000 abs.

Depending on the lens used (wide-angle, standard or telephoto lens), the measuring range of the TRAVEMAT comprises approximately 20 light factors, i. e. for a film speed of 18<sup>1</sup> DIN = 50 ASA the shutter speed can be set to any value between 1/2 and 1/1000 sec. Any time factor can be connected with every f/number and vice versa.

Having 10 different exposure times and 9 f/numbers, this gives a total of 90 possible settings to cope with any light graduation of the image on the ground-glass screen.

## Ground-Glass Screen

The TRAVEMAT houses a ground-glass screen with fresnel and microgrid lens. Other types can be delivered on request and inserted according to instructions. For ground-glass screens with clear circle, the diameter of which exceeds 5 mm, an alteration of the measuring value must be taken into consideration. The factor for this correction will be given.

Attention: Do not use strong detergents for cleaning the ground-glass screen with microgrid and fresnel lens, but use cloth soaked with water-softening agent.

## General Instructions

To prevent the reading being misled by tricky back-light or incident sunlight from the side, use the Exakta eyecup.

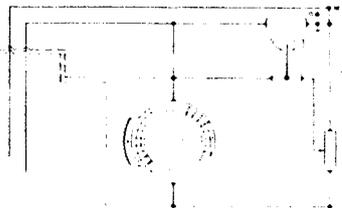
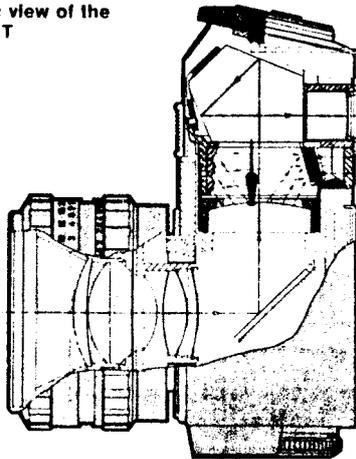
The same effect can be achieved with the help of an eyepiece cover provided with an opening. This protective eyepiece cover simultaneously serves for holding diopter glasses. A special glass correcting the eye's deficiency can be inserted by an optician on request.

If a small aperture is selected in great brightness caused e. g. by sun and snow, glaciers, etc., special attention must be paid to backlight. Make sure that the TRAVEMAT is always protected with its cover when removed from the camera to prevent any detrimental effect on the CdS cell.

Make sure that the TRAVEMAT is protected with its cover when detached from the camera to prevent any detrimental effect on the sensitivity of the CdS cell.

Technical details are subject to change without notice.

Schematic view of the TRAVEMAT



## Batteries for the TRAVEMAT

Standard equipment: Mallory PX 13  
 for cold temperature: Mallory PX 625  
 or Mallory Mu-625 G  
 or Pertrix 246  
 or a rechargeable battery accumulator: DEAC battery 50 DK.

It is advisable to choose a medium shutter speed corresponding to a medium f/number, e. g. 5.6. The cable is adjusted to 18<sup>1</sup> DIN.

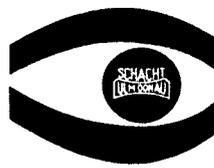
It is not that important which value you preselect as it can be greatly varied according to the prevailing light conditions.

weather	shutter speed	aperture
 sunny – bright	1/200 or 1/250	5.6
 sunny – misty	1/100 or 1/125	5.6
 covered sky or clouds	1/50 or 1/60	5.6
 rainy	1/25 or 1/30	5.6

The values being applicable to daylight from 2 hours after dawn to 2 hours before sunset.

With the subsequent measuring procedure the proper f/number for the preselected shutter speed can be obtained.

A member of the SCHACHT lens programme



For years the ALBERT SCHACHT has been specializing in the development and production of high-quality taking lenses for SLR cameras. On the following pages you will find a survey on our interchangeable lens programme. For individual folders see your photo-dealer or write to us directly.

SCHACHT lenses meet the requirements of modern photography. Our specialized delivery programme comprises the focal lengths from 35–400 mm as well as the fully automatic diaphragm, the automatic diaphragm and the preset diaphragm.

### SCHACHT lens system

lens type	camera	relative aperture	focal length mm	diaphragm
S-Travegon Weitwinkelobjektiv	Edixa Praktica Pentacon, Pentax Exakta, Exa I/II	1:2,8	35	fully automatic diaphragm
Travegon Weitwinkelobjektiv	Edixa Praktica Pentacon, Pentax Exakta, Exa I/II	1:3,5	35	fully automatic diaphragm
Travenar Weitwinkelobjektiv	Edixa Praktica Pentacon, Pentax Exakta, Exa I/II	1:3,5	35	preset diaphragm
S-Travelon Standardobjektiv	Edixa Praktica Pentacon, Pentax Exakta, Exa I/II	1:1,8	50	fully automatic diaphragm
Travenar Standardobjektiv	Edixa Praktica Pentacon, Pentax Exakta, Exa I/II	1:2,8	50	fully automatic diaphragm
M-Travenar Makro- und Standardobjektiv	Edixa Praktica Pentacon, Pentax Exakta, Exa I/II	1:2,8	50	preset diaphragm
Travenar Porträt- und Teleobjektiv	Edixa Praktica Pentacon, Pentax Exakta, Exa I/II	1:2,8	90	automatic diaphragm
Travenar Porträt- und Teleobjektiv	Edixa Praktica Pentacon, Pentax Exakta, Exa I/II	1:2,8	90	fully automatic diaphragm
Travegar Langbrennw. Objektiv	Edixa Praktica Pentacon, Pentax Exakta, Exa I/II	1:3,3	100	preset diaphragm
Travenar Teleobjektiv	Edixa Praktica Pentacon, Pentax Exakta, Exa II	1:3,5	135	fully automatic diaphragm
Travenon Langbrennw. Objektiv	Edixa Praktica Pentacon, Pentax Exakta, Exa II	1:4,5	135	click-stop
Travenon Langbrennw. Objektiv	Edixa Praktica Pentacon, Pentax Exakta, Exa II	1:4,5	135	preset diaphragm
Tele-Travelon	Edixa Pentacon, Pentax Praktica Exakta, Exa II	1:4,0	200	preset diaphragm

 S-Travegon 2,8/35

 Travegon 3,5/35

 Travenar 3,5/35

 S-Travelon 1,8/50

 Travenar 2,8/50  
M-Travenar 2,8/50

 Travenar 2,8/90

 Travegar 3,3/100

 Travenar 3,5/135

 Travenon 4,5/135

 Tele-Travelon 4/200

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