oft cloth and to keep the interior of the camera particularly te film guide and the spool chambers, free from all foreign articles which could damage the film.

A serial number is engraved on the back of every serian camera. It is recommendable to note down this number in order to be able to identify the camera in case it is lost or unintentionally exchanged.

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OF STORY

Inch 20012 W Found in Germany C2020a2



THE ZEISS IKON

The entiress of its manipulation is a compicuous feature of this camera, which, if handled properly, gives excellent results, as is proved by the two pictures contained in this booklet, which were made with servast cameras. The picture of the house was taken with lens step 11 and lws second and the snapshot of the motorcycle race, with lens step 4,5 and ½sss second. Once you are familie with the few minipulation. explained in this booklet, you will have no difficulty in obtaining good photographs, and will take a great pleasure in

The sectran it takes 12 pictures 21/4" x 21/4" on standard B1/6 roll film, it is equipped either with a Novar 4/6,3 or with a Novar 4/4.5 less. Its lenses are factory-coated, ensuring utmost sharpness in black and white as well as colory photography.

THE NETTAR

Hold the camera in one hand, slightly tilting it forward. Press opening knoband the NETTAR will snapinto the taking position.





ROW TO CLOSE

Take the camera in both hands as in the illustration, press the struts (15) down with your two or thumbs and close the lid. In order to close the NETTAR in the taking position press the struts (15) down with your two index to come and close the camera camera and close the camera camer



are engraved on the lens mount. The NETTAR is focused on the object to be photographed by turning the front-lens mount. The respective setting figure





For setting the diaphragm on the desired lens aperture turn the diaphragm setting lever until (seen from above) the dia-



SETTING OF THE EXPOSURE TIME

etting mark (2) is opposite the desired exposure time. The gures engraved on the exposure time setting ring indicate ractions of a second, i. e. "25" means ½s sec. With setting "B" the shutter remains open as long as the body shutter





synchronization contacts with

The delayed action release

After setting the distance, diaphragm and exposure time, wind
the shutter as usual and press down the red-dotted lever (16)
of the delayed action release.

The synchro switch (17) of the Prontor SV shutter must be set on X. Upon pressing the body shutter release knob the delayed action mechanism starts, running and releases the shutter with a 7-second delay. The delayed action release cannot be used for time exposures (shutter speed setting ring on "B"). Flash Photographs with Vario or Pronto shutter.

To fire flash bulbs with Vario or Pronto shutter set the exposure time on Via sec, wind the shutter, put in the plag of the cable from the flash unit into the flash contact (13), insert the flash bulb, and release the shutter. With electronic flashes shorter exposure times can be chosen. For flash photographs with Prontor SV shutter, the following instructions must be observed.

Flash Photographs with Prontor SV slutter.

For flash photographs with Prontor SV slutter two positions
of the syndrou switch (177) are possible (X and M). In both
cases the distance, disphragm and exposure time has to be
set before taking the picture.

Then set the synchro switch on X resp. M (see below), put the plug of the flush cord into the contact tipple (18), insert the flush in the contact tipple (18) insert the flush lamp and finally press down the shutter release button. Detailed information about film sensitivity, disphragan setting and distance of the flush lamp can be ascertained from the instructions added to every flash lamp.



Special Observations:

Sattles V

When synchro switch (17) in posi-

 electronic flashes in conjunction with all shutter speeds:

ion with all shutter speeds from 1 to 1/800 sec.; b) flash lamms in conjunction with

b) Bash lamps in conjunction with
all shutter speeds from 1 to
Vis sec.

Thisps Photofux

With the push lever in position "X", the delayed action release can also be used for flash photography.

With the synchro switch (17) in position M, and the lever (16) pushed until stop it is possible to fire flash lamps in conjunction

with shutter speeds from V_{III} to V_{III}-sec. The M-setting must be re-set for every shut.

Kind of fash large Synthes-Position Shutter speed

Osram Vacublitz F0, F1, F2	X	1-%
Ogram Vacabilitz S 0, S 1, S 2	x	1-50
	34	Non-Man
Philips Photoflux PF14, PF25, PF56	x	1-1/n

LENS APERTURE, DEPTH OF FIELD

A large depth of field can be achieved by reducing the lens aperture. The lens aperture and the disphraps setting figures are reciprocal, i.e. the smaller the lens aperture the higher the diaphraps setting figure. Every reduction of the lens aperture necessitates an extrusion of the exposure time. When reducing the lens aperture, the depth of field increases both in forward and in badward direction from the distance on which the lens is focused. The depth of field for any given less aperture and distance setting can be correctly ascertained from the depth of field for a free field scale. It is represented by the distance settings opposite the two disphragm setting figures on the right and the field of the disphragm setting figures.

THE CORRECT EXPOSURE TIME

can be ascertained from exposure tables or with the aid of the photo-electric exposure meter russs iron 'ncorsor'. The exposure time depends on the diaphragm setting, the film sensitivity, and the prevailing lighting conditions.

BASIC RULE: Outdoor photographs in bright sunshine: film sensitivity 32 ASA

Outdoor photographs sky overcast: film sensitivity 32 ASA diaphragm setting 5.6





Lens setting feet fat.	Diaphragm												
	45		5,6		8		111		. 16		22		
	55"	0.	44"	4"	31"	0*	22	8"	15	8"	111	4"	
	60		60		60		00		60		60		
45"	25"	8*	23.	4"	197	0.	15"	8"	12'	0"	9	4"	
	364" 0"		60		60		60		60		60		
24"	17"	0*	15	8.	13"	8"	111	8"	9	8"	18	0.	
	42"	0.	51"	4"	101	0*	60		60 60		20	00	
12"	10"	0.	9	8"	8"	8"	8'	0.	7	0"	*	0*	
	15"	0"	16	4"	19	0*	24"	4"	47	0*	١,	20	
9	7'	8.	7"	8"	7	0"	6	6	5	10"	10	2"	
	10'	8"	11"	0*	12	4"	16	4	197	8"	35		
6	5"	6.	5	4"	5	2"	4	10"		60			
100	6	8*	6	10"	7	4"	8	0"	8	4.	111		
	97	91	3.	9"	2.	7.55	i.	* **					

THE PERSON NOT BELLINOR SPECIES.

enables the service of encour to take instant enoughin enad lighting conditions without previous time. consuming settings. Set the disphram setting lever and the distance setting mark on the red dots and everyahing from 13 feet to infinity will be rendered sharply According to the prevailing lighting conditions exposure times from Vis to Vise see may be used





LOADING OF CAMERA

The camera back can be opened after pulling out the locking hole

and sall the protective paner close the camera.



Onen the small window at the back of the camera and turn





the film winding key until the dow. In order to prevent double exposures the film has to be wound on by one frame immediately after every exposure.



UNLOADING OF THE CAMERA

turn film winding key until paper of the spool passes the window at the back of the camera. Then open the camera back, pull out the spring prong as when inserting the ally to the shadow (not in bright sunshing () and seal it. Before inserting a new film, the empty feeding spool must be inserted into the take-up

film winding key, make sure that the empty spool has engaged with the prong of the film winding key.

HOLDING THE NETTAR II

The NETTAR II must be held calmly during the exposure. The right-hand index finger rests on the body shutter release. The exposure is made by

pressing down the shutter release When making time exposures with setting "B", the shutter remains open as long as the shutter release (8) is pressed down.



PHOTOGRAPHIC EQUIPMENT AND ACCESSORIES FOR THE NETTAR II

THE EVEREADY CARRYING GASE
The zeess scon Eveready Carrying Case for the NETAR II is elegant and protects the camera from any detrimental external influences. The NETAR II is screwed into the Case and need not be removed for taking pictures.

THE CABLE RELEASE

The shutter can also be released with a cable release to be screwed into the thread of the shutter. It is especially advisable to use a cable release for time exposures from a tripod or in cases where the slip-on brilliant viewfinder.

ZEISS IKON FILTERS improve the rendering of the tone values in black and white photography. The effect depends on the colour and on the absorbing qualities of the filter. The use of a filter necessitates an extension of the exposure time.

Slip-on filters are used with the METTAR II models with Vario shutter whilst for the METTAR II models with Pronto or Pronto-SV shutter screw-on filters are to be used.

SUPPLEMENTARY LENSES FOR CLOSE-UPS

With the standard lens equipment of the NETTAR II photographs can be made of objects from 3.5 feet to infinity. Objects closer than 3.5 feet can be photographed only with the aid of zoss soos supplementary lenses (Proza lenses), which are slipped on to the camera lens mount. Two different Proxar lenses are available for the NETTAR II. See table on page 18.

When making close-ups with supplementary lenses, the photographer has to account for the difference of distance between the viewfinder and the distance from the object to the supplementary lens. The field embtaced by the viewfinder will always be somewhat too high in close-up work.

When using supplementary lenses (Kinss Proxar lenses) the following table is anolicable:

Size of picture field

11/4" x 2" 31/4"

2%" x 2" 2%"

101/4" x 101/4"

Width

Distance between Reduction

object and camera

10%

1' 1%

setting

The distance of the object must be measured from the front edge of the supplementary lens mount. In order to achieve and are, therefore, most suitable for colour photography, which every amateur can, in fact, master with the same ease as black and white photography.

as black and white photography.

It is recommendable to use a photo-electric exposure meter, such as the zusus uses usorssor, for good black and white photography; for colour photography, however, it is absolutely indistructed.

HOW TO TAKE CARE OF THE NETTAR II

The NETTAR does not require special maintenance work. It

The NETTAE II has at its doctorn a timess for many con a tripod.

COLOUR PHOTOGRAPHY

The ZEISS INON Novar lenses are carefully colour corrected i...

prevents flares or haze in against-the-light photography and protects the lens from rain or snow.

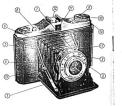
TRIPOD THREAD

TRIPOS THE BIT has at its bottom a thread for fixing the camera

The Country of the Co

a sufficiently large depth of field, it is necessary to use at least the disphragm setting "8".

THE LENS HOOD



- 1 = Rotating front lens for distance setting
- 2 Distance setting mark
- 3 = Depth of field scale 4 = Thread for cable release
- 5 = Exposure time setting ring
- . Lever for disphraem setting
- Lever for winding shutter = Rody dutter release
- Knob for opening camera
- 10 Film winding knob 11 - Built-in optical viewfinder
- 12 Shoe for slip-on accessories
- 13 Flash synchronization contact
- 14 Bolt for locking camera back
- 15 Struts
- 16 Lever for delayed action release (see p. 9)
- 17 = Synchro switch (see p. 9)