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ZEISS IKON

Instruction Manual

Contessamat SE

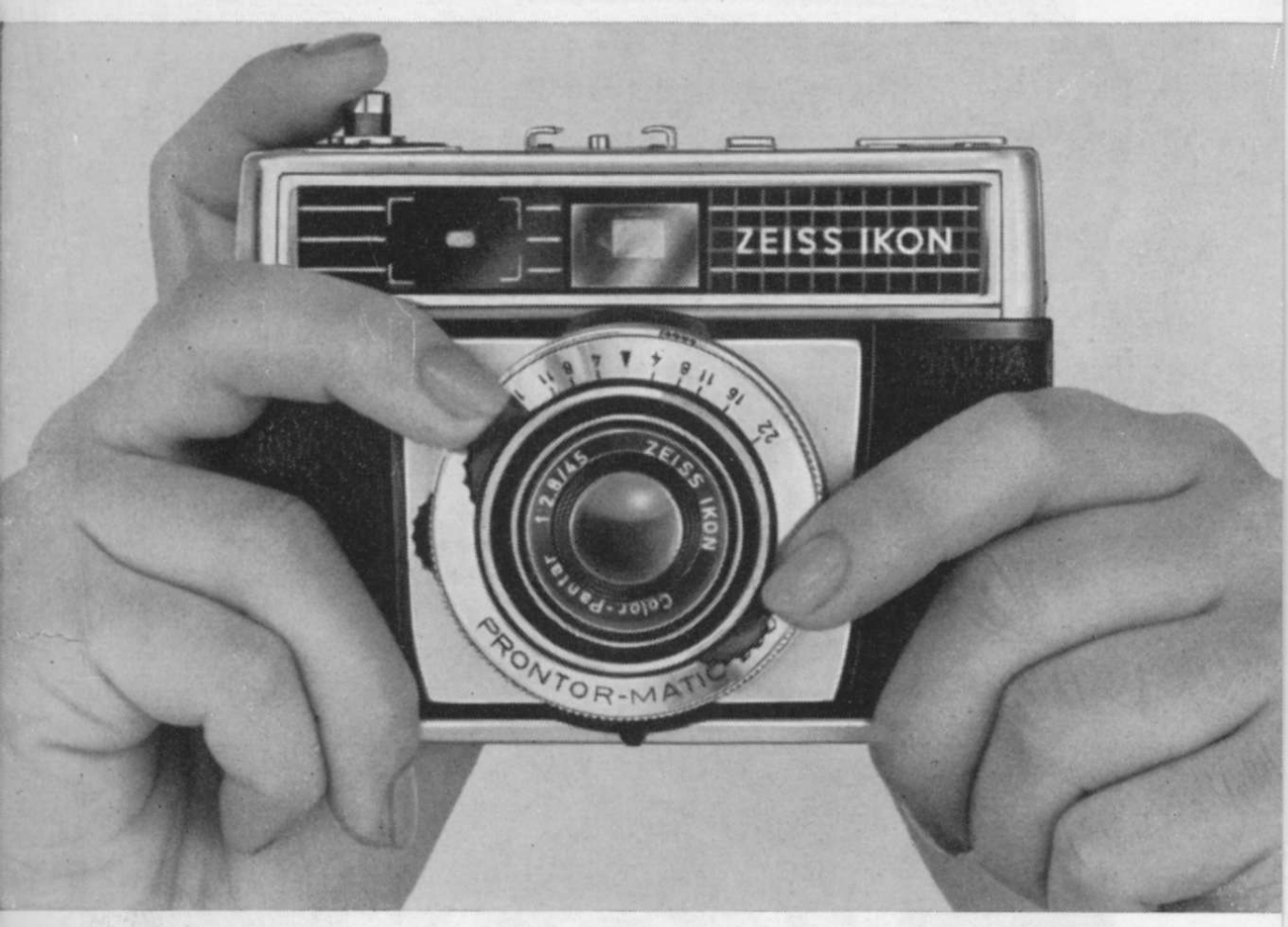
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In your
own interest . . .

. . . we recommend that you read these instructions carefully. Unfold the inner leaves of the cover so that you can keep a constant check on the positions of the various controls. Before you load the first film, be thoroughly familiar with your CONTESSAMAT SE. You can



readily obtain advice and information free of charge on all photographic problems from your photo-dealer, or from the Photo Customer's Service Department (Fotoberatung) of ZEISS IKON AG, Stuttgart, Postfach 540, West Germany.

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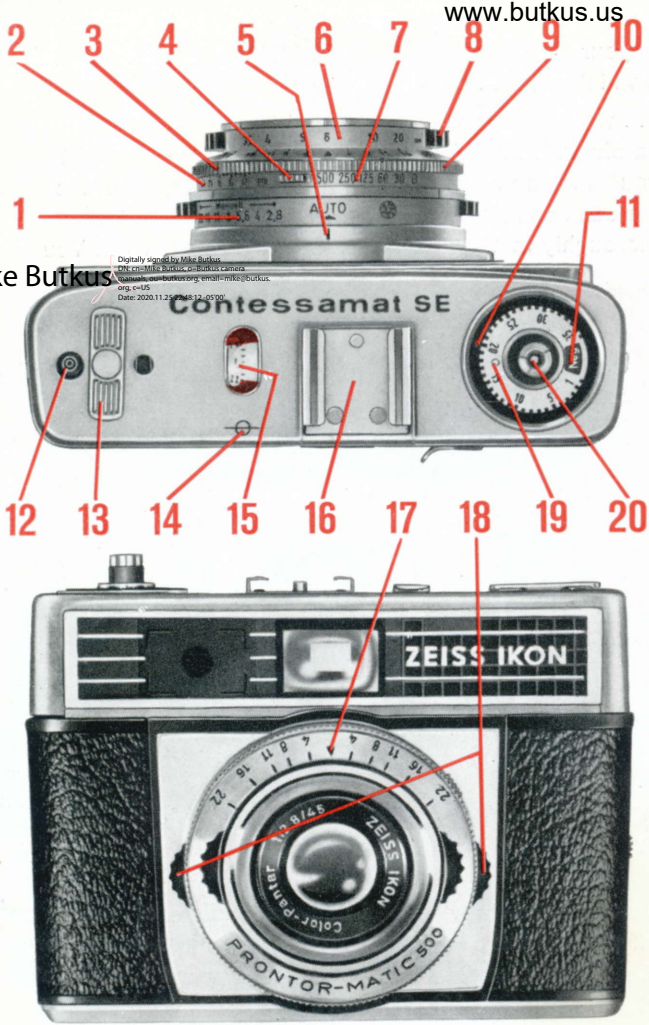
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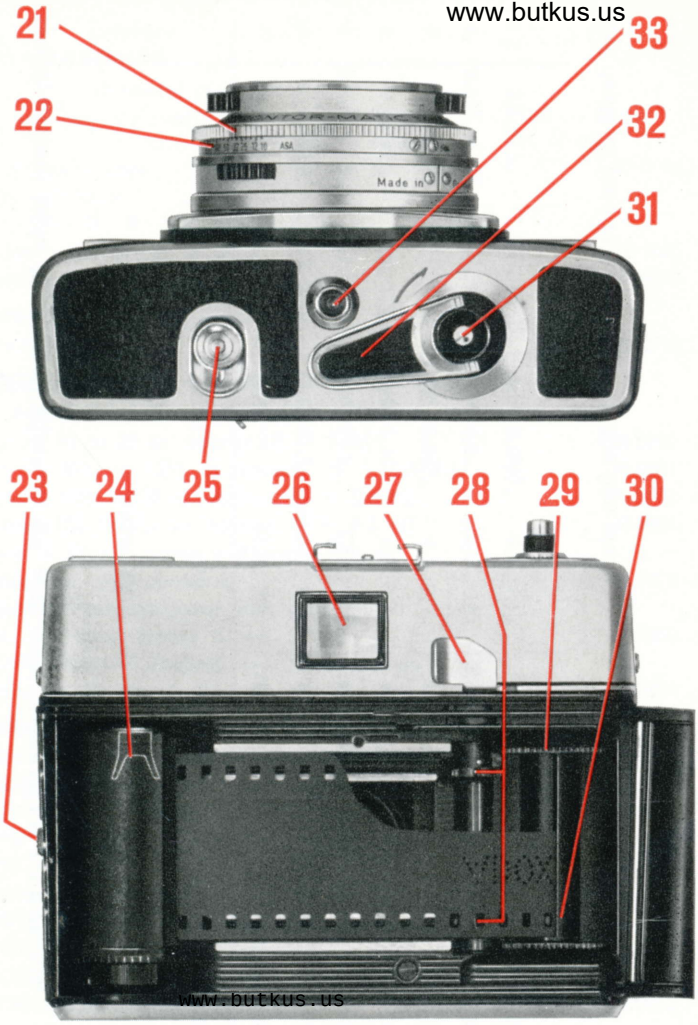
Operating instructions

1 **Aperture scale**
2 **Film speed scale** (DIN)
3 **Setting mark** for DIN film speed
4 **Press button** for setting film speed (DIN or ASA)
5 **Setting mark** for AUTO (= automatic exposure control), aperture and shutter speed
6 **Distance (focusing) scale**
7 **Shutter speed scale**
8 **Finger-grips** for adjusting focus
9 **Shutter-speed setting ring**
10 **Setting mark** for frame counter
11 **Indicator window** for film type reminder disc
12 **Flash contact**
13 **Rotating safety cover** for flash contact
14 **Film-plane marking** (reference plane for focusing scale)
15 **Exposure meter needle** with aperture figures and red warning fields
16 **Accessory shoe**
17 **Distance-setting mark** and **depth of field scale**
18 **Finger grips** for selecting AUTO (= automatic control) or aperture
19 **Knob** for adjusting the film-type reminder disc
20 **Release button** with screw thread for cable release

The reference numbers 21–33 refer to the illustrations on the rear cover flap.

21 **Setting mark** for ASA film speed
22 **Film speed scale** (ASA)
23 **Catch** for opening camera back
24 **Rewind fork** (must engage with bar in film-cartridge core)
25 **Locking knob** for releasing the rewind crank
26 **Viewfinder eyepiece**

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27 **Rapid-wind lever**
28 **Film transport roller with sprocket wheels** for engaging in perforations of film
29 **Flange of take-up spool**
30 **Take-up spool** with slot and lug for securing beginning of film
31 **Axle of rewind crank** (must rotate when film is advanced)
32 **Retractable rewind crank**
33 **Tripod bushing**

Loading and unloading

Standard 35 mm cartridges – black-and-white or colour – giving 20 or 36 exposures can be used in the CONTESSA-MAT SE.

Loading the film
(See also illustration on rear cover flap)

Never load the camera in direct sunlight but only in the shade.
Open camera back by pressing catch 23 downwards.
Fit the rewind fork 24 into the base of the film cartridge so that the bar across the recess in the cartridge core engages in the slot in the fork. Then move locking knob 25 in the direction of the arrow until rewind crank 32 springs out (thus disengaging clutch of film transport roller 28).
Guide the beginning of the film leader tongue into slot 30 of the take-up spool and hook the 3rd. perforation hole over the lug in this slot. Wind on the film by turning the spool flange 29 until the sprocket wheels of the film transport roller 28 engage the perforations on both sides of the film.

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After closing the camera back rotate the rewind crank in the direction of the arrow until a resistance is felt: the film is then wound tightly within the cartridge.

Then push the rewind crank back into its recess until you hear it click home.

Setting the film speed - extremely important! (Fig. 1)
Use the ASA or DIN film-speed rating printed on the film carton.
Depress button 4 and rotate the setting ring 9 so as to move the setting marks 21 and 3 until they line up with the appropriate figures on the respective film-speed scales 22 (ASA) or 2 (DIN).

Film-type reminder disc
Set this by means of knob 19. Its sole purpose is to assist

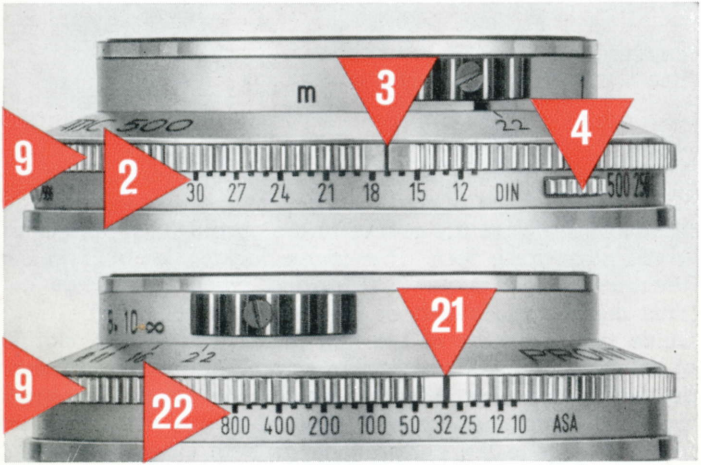


Fig. 1

your memory; the following symbols will appear in the indicator window 11:



1 Camera empty
2 Black-and-white film
3 Colour negative film
4 Colour reversal film Clear-flash type
5 Colour reversal film Daylight type
6 Colour reversal film Artificial light

Checking the film advance and setting the frame counter

Swing rapid-wind lever 27 **right up to its stop** and release the shutter by pressing button 20.

The axle 31 of the rewind crank (marked with a red dot) should then rotate in the opposite direction to that shown by the arrow. This allows you to check that the film is being wound on correctly; the red dot can also be observed through the hole in the base of the eveready case. After swinging the rapid-wind lever for a third time, the white mark 10 on the milled ring of the frame counter disc should be set to the number of exposures provided by the film you are using (e.g. to 36).

The frame counter always shows the number of frames still to be exposed. After the last exposure (when the frame counter indicates "1"), it will not be possible to operate the rapid-wind lever 27; the film should then be rewound.

Unloading the film

After the last exposure, release the rewind crank 32 by means of locking knob 25 and then turn the crank in the direction shown by the arrow until a gentle resistance is felt, indicating that the film has come off the take-up spool. Now open the camera back and take out the film cartridge. Always keep the take-up spool and film track perfectly clean.

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Fig. 2 sharp unsharp

Taking pictures

Setting the distance (focusing)

Hold the camera up to your eye and turn the finger grips 8 until the two semi-circular images visible in the centre of the viewfinder field line up accurately, so that the image can be clearly seen. The lens is thus focused automatically to the subject distance. This distance can then be read off from scale 6, against the setting mark 17.

Aperture and depth of field

Every photographic lens will form a sharp image of objects only at a limited range in front and behind the distance setting of the lens. This range called "depth of field" is increased with smaller lens stops; its ranges (at various lens stops) are shown on the depth-of-field scale 17.

Example (see Fig. 3):

Distance setting 20 ft
Depth of field at f/8
from 9 ft to ∞

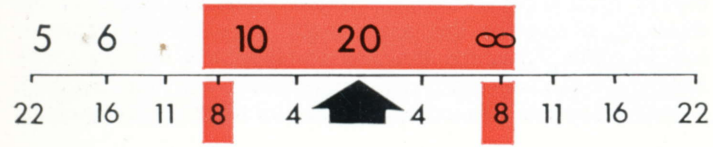


Fig. 3

Always remember:

Large aperture (f/2.8) means **Limited depth of field**
Small aperture (f/22) means **Maximum depth of field**

For exacting photographic work, accurate depth-of-field values will be found in the table on the rear cover flap.

Selecting the shutter speed

To set the shutter speed turn ring 9 by means of the two finger-grips and set the desired shutter speed against the setting mark 5.

The correct shutter speed depends on the movement of the subject. The faster the subject is moving, the shorter should be the exposure time. The figures on scale 7 represent fractions of seconds (60 means 1/60 second, etc.).

When set to "B" the shutter will remain open for as long as the release button 18 is depressed. The B setting cannot be used when the automatic exposure control is engaged.

Using the automatic exposure control

The word AUTO = "Automatic" must be locked against the setting mark 5. Select the shutter speed (intermediate speeds should not be set; "B" cannot be selected when the automatic control is engaged). Hold the camera up to your eye and point it toward the subject. If the exposure-meter pointer (above the viewfinder field) remains within the green field, then the light is sufficient for taking a picture and you can then press the shutter release. (See also section "Exposure Meter".)

The automatically-selected lens aperture (f/number) can be read off both in the viewfinder (Fig. 4) and in the meter window 15 on the camera body.

If the light is too bright or too dim the exposure meter pointer will remain within one of the red warning fields, which indicate that the photograph will be incorrectly exposed. Readjust the shutter speed, until the pointer swings into the green field. If the light is unsuitable for an auto-

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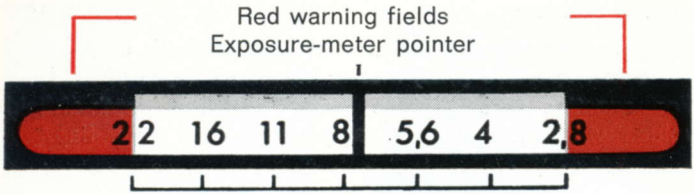


Fig. 4

matic exposure under any circumstances, the meter needle will remain within the red field even when the shutter speed is adjusted. Remedy: use flash (see page 12).
By rotating the shutter speed ring 9, any desired aperture can also be pre-selected for use with the automatic exposure control. This however can only be done when the shutter speed is set to one of the click-stop settings.

Releasing the shutter

Hold the CONTESSAMAT SE as shown on the front page of this instruction booklet. To take a picture, depress the release button 20 gently and smoothly – never jerk it. Everything which you can see within the bright line frame of the viewfinder will be recorded on the film. When taking pictures at 3–4 ft distance, keep the top of your subject below the two notches in the viewfinder frame. At slower shutter speeds than $^1/_{30}$ sec, the camera should be placed on a tripod. The shutter can be left tensioned for long periods of time without any harm.

Disengaging the automatic exposure control (Fig. 5)

Turn the aperture scale 1 marked "Manual" round to the setting mark 5 by means of the two control grips 18. By switching over to manual control, it is now possible to select any aperture and shutter-speed setting desired, either independently of the exposure meter or as indicated by it. You can, for example, correct the exposure (preferably by

altering the aperture setting) in either direction and by any amount.
When the camera is switched to "Manual", the exposure-meter coupling is disengaged (the needle therefore remains within the red field). This is a safety precaution designed to make errors impossible. Whenever the needle is visible within the green field, then you can be certain that the automatic control is in operation.



Fig. 5

The exposure meter

is calibrated for normal conditions and will indicate the correct exposure accordingly.
It will therefore be necessary to apply a correction to the meter reading when photographing open landscapes with dark foregrounds and large areas of sky, or low-contrast subjects (under overcast sky) on colour reversal film and particularly with all types of back-lighted scenes.
This correction can be made by any of the following methods:

1. The meter reading is measured only from the darker portions of the subject, either by holding the camera close to these areas or by pointing the camera towards the darker foreground. By giving a gentle pressure on the release button, the meter reading can be "held" until the camera is re-positioned so as to cover the desired picture

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area. Finally, press the release button right down to take the picture.

2. Read off the aperture setting indicated by the normal exposure-measuring technique, then switch over to "Manual" and re-set the aperture to a larger f/stop (normally 1 stop larger, e.g. indicated aperture f/8, set aperture to f/5.6).

3. The film speed can be set to a lower figure (1 stop slower = 3 DIN or half the ASA rating), then measure the exposure normally.

Using filters

The majority of filters necessitate increasing the exposure: this "filter factor" is usually marked on the rim of the filter mount (2 x, 4 x etc.).
When using filters, the film-speed setting on scale 2 or 22 should be reduced as mentioned below:

For filter factor	Reduce DIN setting (scale 2) by:
1 x	0 DIN
2 x	3 DIN
3 x	5 DIN
4 x	6 DIN
5 x	7 DIN
6 x	8 DIN
7 x	8 DIN
8 x	9 DIN

The film-speeed setting on the ASA scale (22) should be reduced by the same number of scale divisions as indicated for the DIN scale.
Do not forget to re-set the setting mark 3 or 21 after removing the filter.

Taking pictures with flash

(disengage the auto-control)

The ZEISS IKON IKOBLITZ 5 "cordless" flash unit can be directly plugged into the flash contact 12 after turning the safety cover 13.

Other types of flash unit should either be fitted in the accessory shoe 16 or attached by means of a bracket to the tripod bushing 33. Plug the cable into the flash contact 12, and fit the flashbulb into the flash unit. The shutter is X-synchronized. The fastest shutter speed suitable for use with expendable flashbulbs is $^1/_{30}$ sec; electronic flash can be used at any speed from $^1/_{30}$ to $^1/_{500}$ sec.

The aperture setting depends on the flash guide number and on the subject distance; you will find more detailed information in the instruction manual provided with your flash unit.

Care of the CONTESSAMAT SE

Dust the spool chambers and the inside of the camera back from time to time with a soft brush. The lens should be cleaned only when it is absolutely necessary, by wiping it carefully with a soft, well-washed linen cloth (not washleather); first remove all dust with a fine brush.

A serial number is engraved in the back of every CONTESSAMAT SE. Make a careful note of this number in order to be able to establish your ownership in the event of loss or misappropriation.

In the interest of technical development changes may be made without further notice.

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Depth-of-field table for CONTESSAMAT SE with COLOR-PANTAR f/2.8,45 mm

Distance	APERTURE						
	f/2.8	f/4	f/5.6	f/8	f/11	f/16	f/22
∞	64′4″-∞	45′1″-∞	32′4″-∞	22′9″-∞	16′8″-∞	11′6½″-∞	8′6″-∞
20′	15′4″-28′9″	14′-35′6″	12′6″-51′7″	10′8¾″-162′5″	9′2″-∞	7′4½″-∞	5′11¾″-∞
10′	8′8½″-11′9″	8′3″-12′8″	7′8¾″-14′3″	7′1½″-17′5″	6′4¼″-24′3″	5′5½″-71′4″	4′8″-∞
6′	5′4″-6′9″	5′2″-7′2″	4′10″-7′10″	4′6″-9′1″	4′2″-11′3″	3′8″-18′10″	3′2″-100′7″
5′	4′8″-5′4½″	4′6½″-5′6¾″	4′4¾″-5′9¾″	4′2″-6′3″	3′11¼″-6′11″	3′7″-8′5″	3′3″-11′5″
4′	3′9½″-4′2¾″	3′8½″-4′4″	3′7¼″-4′6″	3′5½″-4′9″	3′3½″-5′1¼″	3′¾″-5′10″	2′9¾″-7′1″
3.5′	3′4″-3′7″	3′3⅓″-3′9⅕″	3′2⅕″-3′10½″	3′1″-4′1″	2′11⅓″-4′4″	2′9⅙″-4′10″	2′9″-5′8⅓″

The depth of field is measured from the film plane.

Accessories

Order No.

Key: ϕ = Diameter of mount in mm
S = Screw-in mount G = Yellow GR = Green
O = Orange R = Red

Ever-ready case	23.0009
Colour filters G - GR - O - R - UV, Ikolor - B - C - F, ϕ 27	20.1000
Lens cap	20.0602

Lenshoods

Flexible, ϕ 27	20.0713

ZEISS PROXAR Lenses

ϕ A 28.5 for close-up pictures	
from 40 to 20 in. approx. (f = 1 m)	20.0800
from 20½ to 13½ in. approx. (f = 0.5 m)	20.0801
from 13½ to 10 in. approx. (f = 0.3 m)	20.0802
from 8¼ to 6¼ in. approx. (f = 0.2 m)	20.0803
1 set of Proxar lenses with depth-of-field calculator and container	20.7070
Depth-of-field calculator with container for set of Proxar lenses alone	20.7059
ZEISS PROXAR doublet lens, for close-ups down to 3⅛ in. ϕ 27	20.0804

Other accessories

Cable release with time-exposure lock	20.0280
IKOBLITZ 5 "cordless" capacitor flashgun	
for capless flashbulbs	22.0006
for No 5 bulbs, and M 5 and M 25 bulbs	22.0007
15 V battery	20.2279
Cable release with time-lock	20.0281
IKOTRON S 2 electronic flash unit	22.0102
IKOTRON C 1 electronic flash unit	22.0103
IKOBLITZ 6 capacitor flashgun, cordless	22.0008
IKOBLITZ LD capacitor flashgun	22.0012

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