












OLYMPUS XA4 MACRO

■ INSTRUCTIONS ■ GEBRAUCHSANLEITUNG
■ MODE D'EMPLOI ■ INSTRUCCIONES

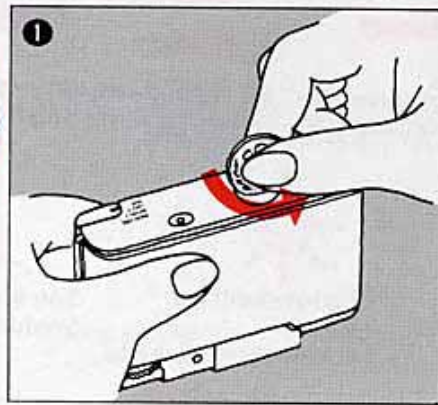
NOTE: Some of the Non-English text has been removed – hence the missing page numbers

E Symbols used in this manual

					
Correct	Incorrect	Operation	Operation order	Two-step operation	Attention
					
Automatic operation	Lamp on	Lamp blinking	Electronic sound	Intermittent sound	













Inserting the batteries
Einlegen der Batterien
Mise en place des piles
Colocación de las pilas

E Uncap the battery chamber.
G Batteriefachdeckel öffnen.
F Ouvrir le logement des piles.
S Abra el compartimento de las pilas.



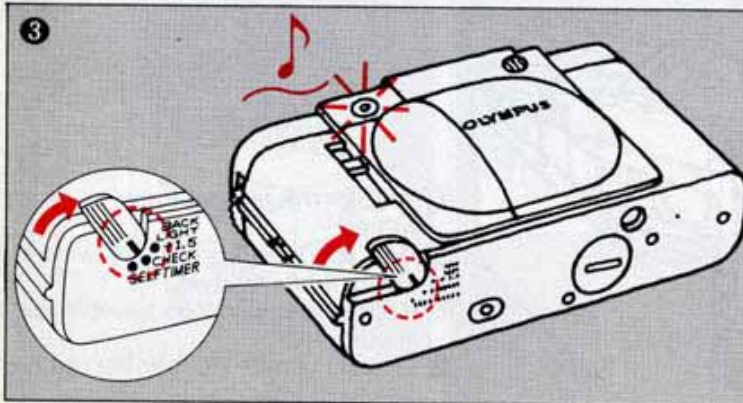
E Insert batteries.
G Batterien einsetzen.
F Introduire les piles.
S Inserte las pilas.

2

YES	NO	NO	NO
			
			
			

1.5V LR44 (alkaline-manganese: A76) or SR44 (silver oxide: EPX-76 or equivalent) x 2

- E** Check the batteries.
- G** Batterien kontrollieren.
- F** Contrôler les piles.
- S** Compruebe la carga de las pilas.

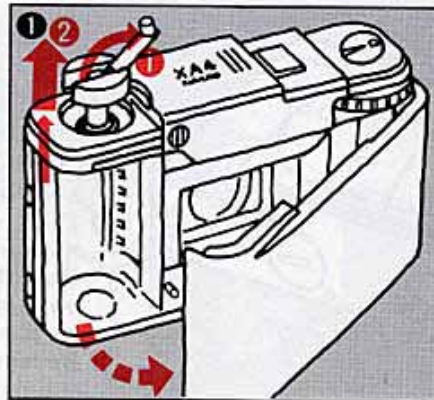


- E** If the sound becomes intermittent or the LED blinks, replace batteries.
- G** Falls die rote LED blinkt und kein Ton hörbar ist, die Batterien auswechseln.
- F** Quand la tonalité sonne par intermittence ou quand le témoin LED clignote, remplacer les piles.
- S** Recambie las pilas si el sonido es intermitente o si parpadea el LED de confirmación.

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Loading the film
Einlegen des Films
Mise en place du film
Carga de la película

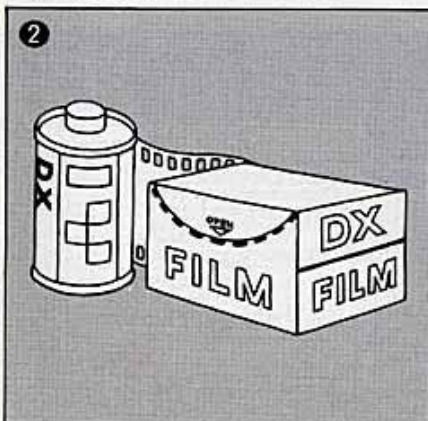
- E** Close the dust barrier and open the camera back.
- G** Den Staubschutzdeckel schließen und die Kamera-Rückwand öffnen.
- F** Refermer le protecteur et ouvrir le dos de l'appareil.
- S** Cierre el protector del objetivo y abra la tapa posterior de la cámara.



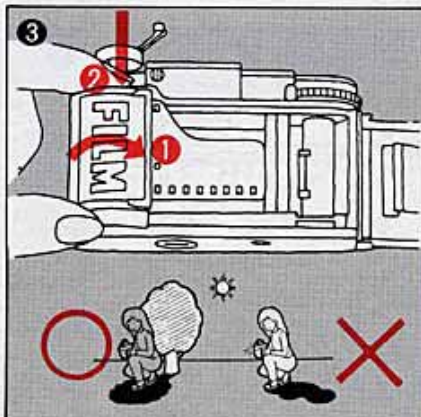
- E** Pull up the rewind knob as far as it will go.
- G** Den Rückspulknopf so weit wie möglich hochziehen.
- F** Retirer le bouton de rebobinage au maximum.
- S** Tire del mando de rebobinado hasta que haga tope.

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- E** Prepare "DX" film.
- G** Einen "DX"-Film vorbereiten.
- F** Préparer le film "DX".
- S** Prepare película "DX".



- E** Load the film cartridge.
- G** Filmpatrone einsetzen.
- F** Charger le film.
- S** Inserte la película.

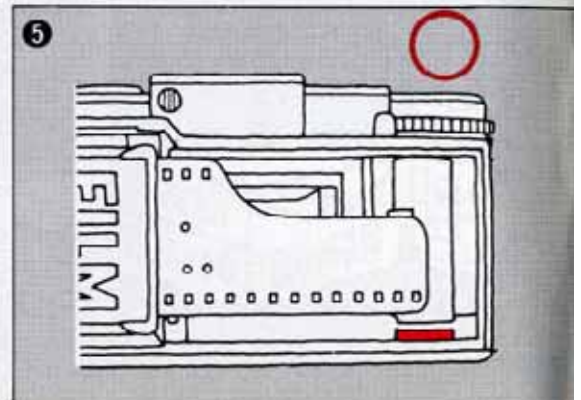
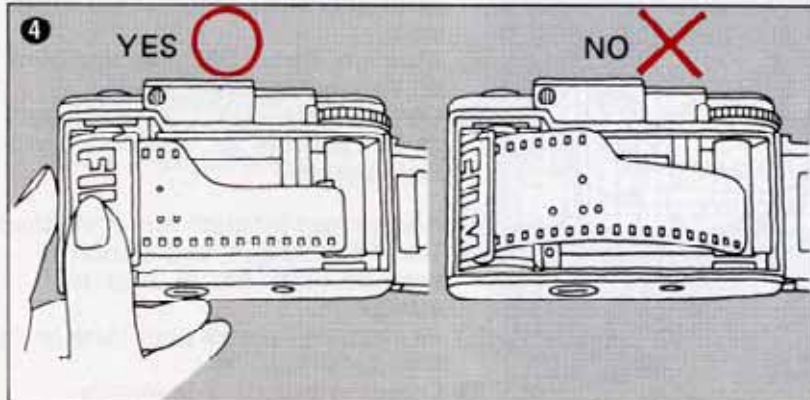


- E** With "DX" film, the film speed is automatically set.
- G** Bei "DX"-Filmen wird die Filmeempfindlichkeit automatisch eingestellt.
- F** Avec un film "DX", la sensibilité est automatiquement réglée.
- S** Con película "DX", la sensibilidad de la película se establece automáticamente.
- E** Always load (unload) film in the shade.
- G** Das Filmeinlegen und Herausnehmen sollte nur in Schatten erfolgen.
- F** Se mettre à l'ombre pour installer le film dans l'appareil.
- S** Cargue la película a la sombra.

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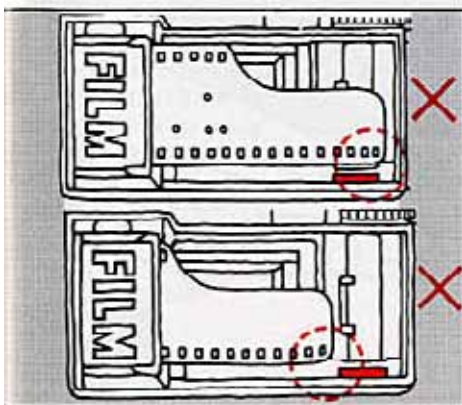
- E** Press the film to keep it taut.
- G** Den Film nach unten drücken, um ihn straff zu halten.
- F** Appuyer sur le film pour qu'il soit tendu.
- S** Presione la película para mantenerla plana.

- E** Pull out the film tip as far as the red line indicated below.
- G** Den Filmanfang bis zur roten Linie herausziehen.
- F** Extraire l'amorce du film jusqu'à la ligne rouge.
- S** Tire de la punta de la película hasta llegar a la línea roja.

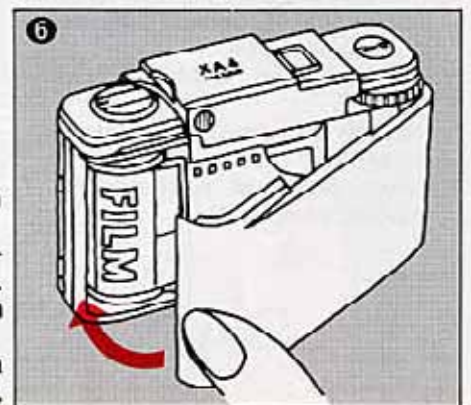


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- E** Close the camera back.
- G** Kamera-Rückwand schließen.
- F** Refermer le dos de l'appareil.
- S** Cierre la tapa posterior.



- E** Engage film perforations with sprocket teeth.
- G** Die Filmperforation mit den Transportradzähnen in Eingriff bringen.
- F** Engager les perforations du film dans les dents du pignon.
- S** Meta las perforaciones de la película en los dientes de la rueda dentada.

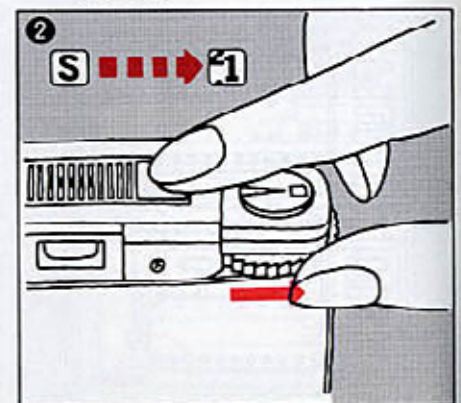
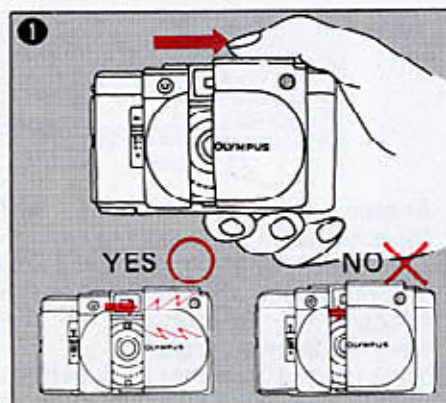


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Setting the Exposure Counter to "1".
Einstellen des Bildzählwerks auf "1".
Réglage du compteur d'images sur la vue "1".
Cómo poner el contador de exposiciones en "1".

- E** Open the Dust Barrier fully.
- G** Staubschutz voll öffnen.
- F** Ouvrir à fond le protecteur.
- S** Abra por completo el protector.

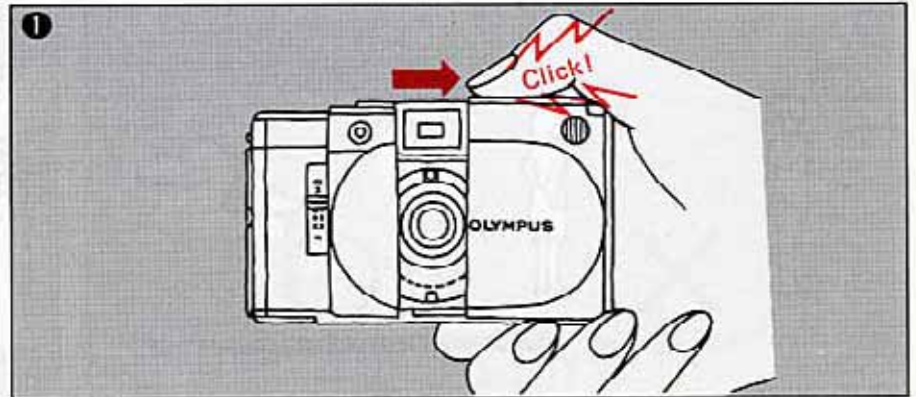
- F** Press the shutter button and advance the film until "1" appears.
- G** Blindaufnahmen machen, bis "1" im Bildzählwerk erscheint.
- F** Armer et déclencher jusqu'à ce que le "1" apparaisse.
- S** Haga tomas en blanco hasta que se vea el "1".



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Taking Pictures
Aufnahme-Technik
Prise de vues
Cómo fotografiar

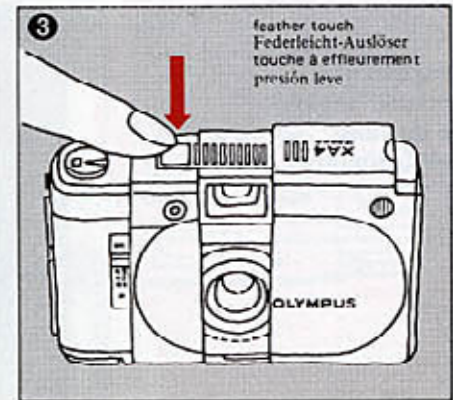
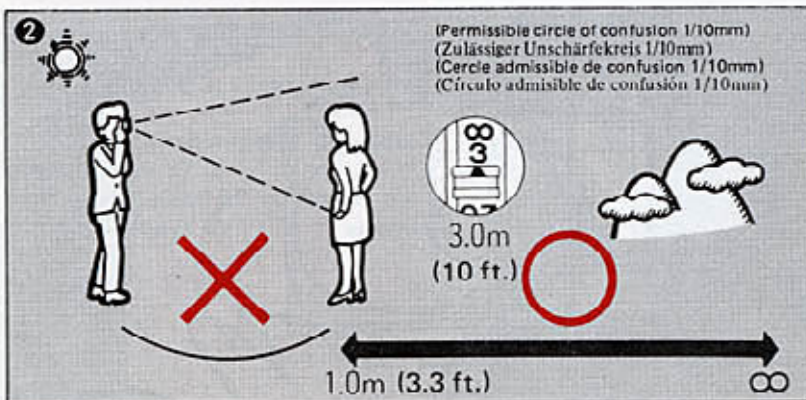
- E** Open the Dust Barrier fully.
- G** Staubschutz voll öffnen.
- F** Ouvrir à fond le protecteur.
- S** Abra por completo el protector.



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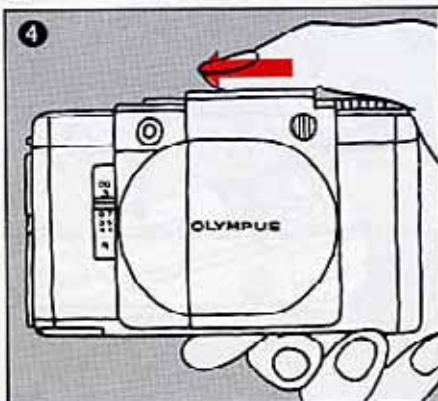
- E** You can take sharp pictures in this range without focusing.
- G** In diesem Bereich können scharfe Bilder ohne Scharfeinstellung gemacht werden.
- F** Les photos prises dans cette plage seront nettes sans mise au point.
- S** Dentro de esta gama, usted puede tomar fotografías nítidas in necesidad de enfocar.

- E** Release the shutter.
- G** Auslöser betätigen.
- F** Déclencher l'obturateur.
- S** Oprima el disparador.



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- E** Close the Dust Barrier.
- G** Staubschutz schließen.
- F** Fermer le protecteur.
- S** Cierre el protector del objetivo.

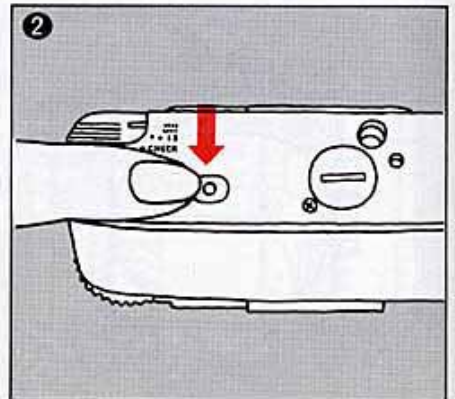
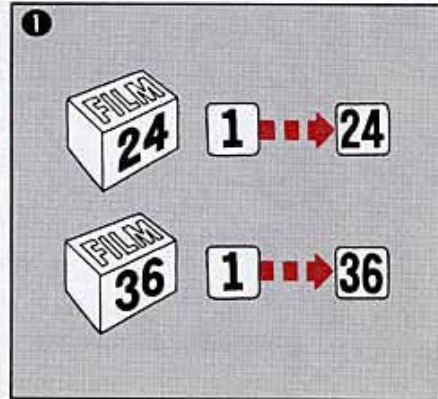


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Unloading the Film
Herausnehmen des Films.
Déchargement du film
Cómo extraer la película

- E** End of film
- G** Filmende
- F** Fin du film
- S** Fin de la película

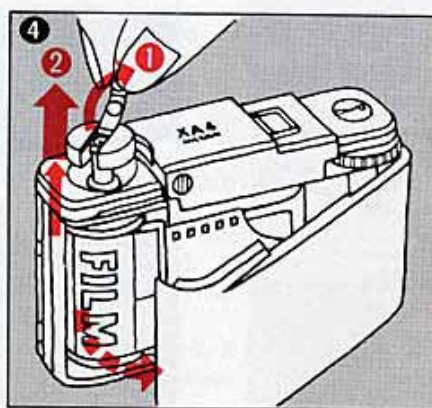
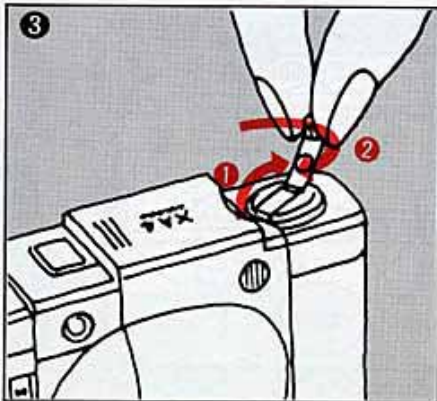
- E** Press the rewind release button.
- G** Rückspul-Freilaufknopf drücken.
- F** Appuyer sur le bouton.
- S** Oprima el botón.



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- E** Rewind until the tension is released.
- G** Zurückspulen, bis kein Widerstand mehr spürbar ist.
- F** Rebobiner jusqu'au relâchement de la tension.
- S** Rebobine hasta que se pierda la tensión.

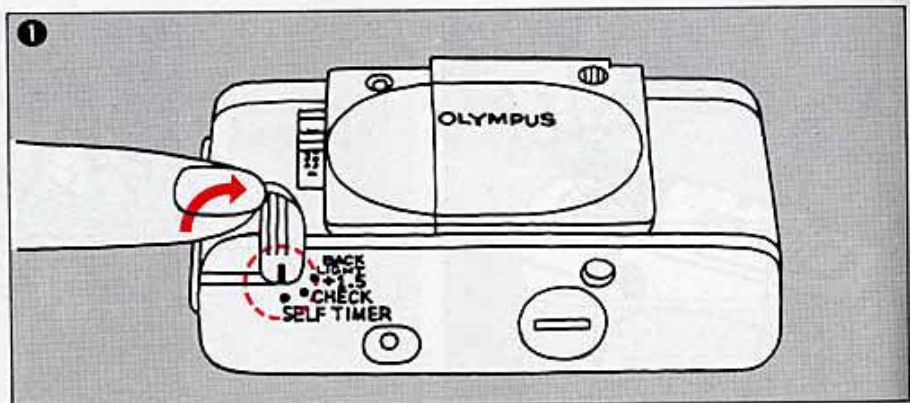
- E** Remove the film.
- G** Film herausnehmen.
- F** Retirer le film.
- S** Extraiga la película.



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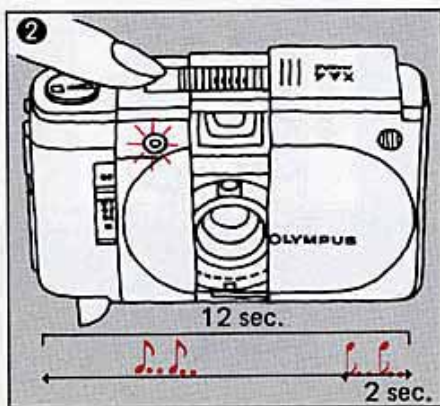
Self-Timer
Selbstausslöser
Déclencheur à retardement
Autodisparador

- E** Set the control lever to SELF TIMER.
- G** Wahlschalter auf "SELF TIMER" stellen.
- F** Placer le levier commutateur sur la position "SELF TIMER".
- S** Coloque la palanca conmutadora de modos en la posición "SELF TIMER".



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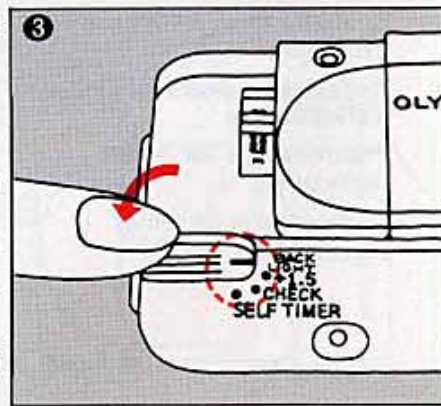
- E** Release the shutter.
- G** Auslöser betätigen.
- F** Déclencher l'obturateur.
- S** Oprima el disparador.



- E** The shutter will fire in 12 seconds.
- G** Die Vorlaufzeit des Selbstaüslöser betragt 12 Sekunden.
- F** L'obturateur se declenche apres 12 secondes.
- S** El obturador se disparara a los 12 segundos.

- E** Return the lever.
- G** Wahlschalter zuruckstellen.
- F** Replacer le levier.
- S** Vuelva la palanca.

- E** To stop the timer midway, return the lever.
- G** Selbstaüslöser stoppt, wenn der Wahlschalter zuruckgestellt wird.
- F** Pour arreter le declencheur a mi-course, replacer le levier.
- S** Para cancelar el autodisparador a medio camino, vuelva la palanca conmutadora.



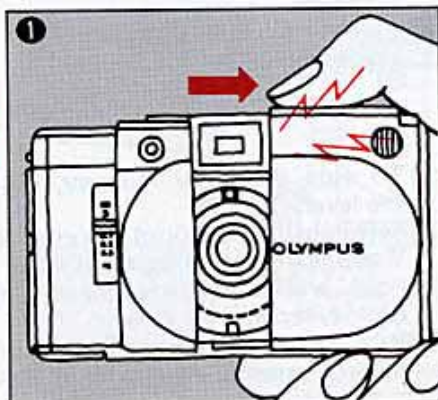
Photographing in Special Situations

Aufnahmen unter besonderen Verhaltnissen

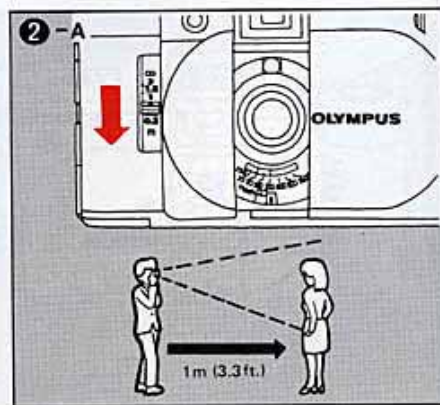
Photographie de sujets particuliers

La fotografa de temas especiales

- E** Open the Dust Barrier fully.
- G** Staubschutz voll öfnen.
- F** Ouvrir a fond le protecteur.
- S** Abra por completo la barrera.

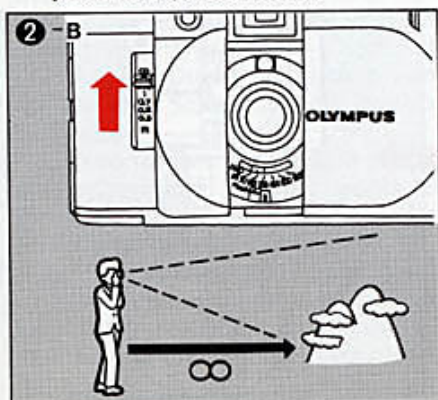


- E** Set the focusing lever according to the subject distance. (A: Close-up in a room/B: Typical scenic view)
- G** Den Scharfeinstellhebel entsprechend der Entfernung des Motivs einstellen. (A: Nahaufnahmen in einem Zimmer/B: Landschaftsaufnahmen)



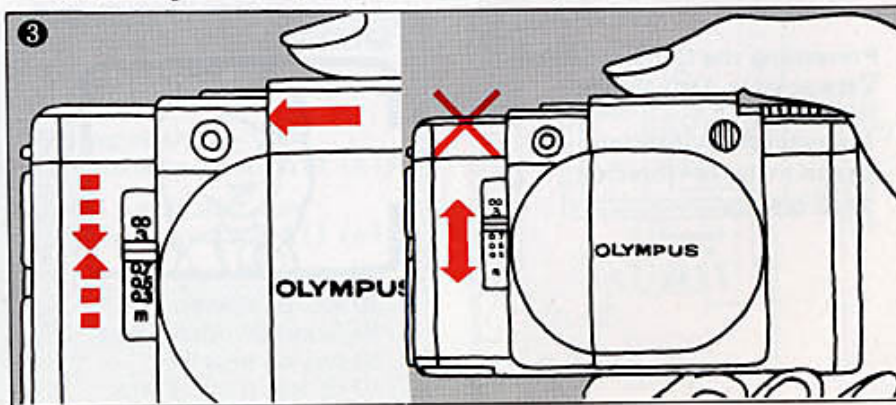
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- F** Regler le levier de mise au point en fonction de la distance par rapport au sujet. (A: Gros-plan en interieur/B: Paysage type)
- S** Ponga la palanca de enfoque en la posicion correspondiente a la distancia hasta el sujeto. (A: Primer plano en una habitacion/B: Vista panoramica tipica el protector.)



- E** Close the Dust Barrier. The focusing lever resets itself to 3m (10ft.). The lever will not operate if the dust barrier is closed.
- G** Staubschutz schlieen. Der Scharfeinstellhebel stellt sich automatisch zuruck auf 3m. (Der Hebel funktioniert nicht, wenn der Objektivschutzdeckel geschlossen ist.)

- F** Fermer le protecteur. Le levier de mise au point revient de lui-meme sur 3m. (Le levier ne fonctionnera pas si le protecteur est ferme.)
- S** Cierre le protector. La palanca de enfoque vuelve a la posicion de 3m automaticamente. (La palanca no funcionara si esta cerrado el protector del objetivo.)

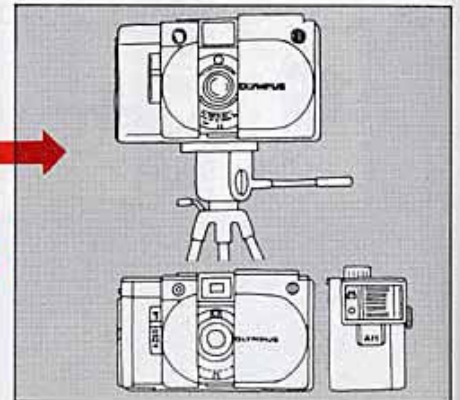
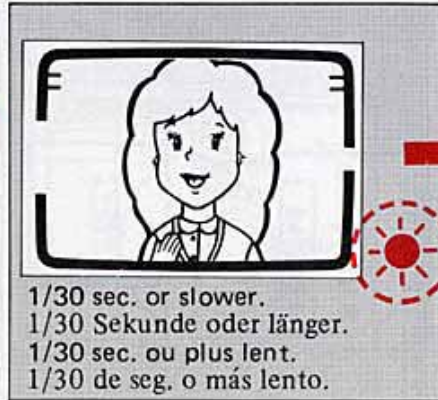


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Preventing the Camera Shake
Verwackelte Aufnahmen vermeiden
Indicateur de vibration
Cómo evitar la vibración de la cámara

- E** When the warning appears:
- G** Die Langzeit-Warnung erscheint:
- F** Lorsque le signal apparaît:
- S** Cuando aparece la señal:

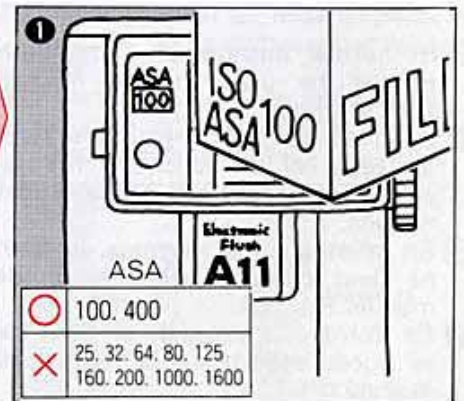
- E** Use the flash or a tripod.
- G** Den Blitz oder ein Stativ verwenden.
- F** Utiliser le flash ou un trépied.
- S** Use el flash o un trípode.



- E** To save battery, the warning lamp will go out after 90 seconds. It will turn on again if you close and open the dust barrier.

Automatic Flash Photography with A11 (A16)

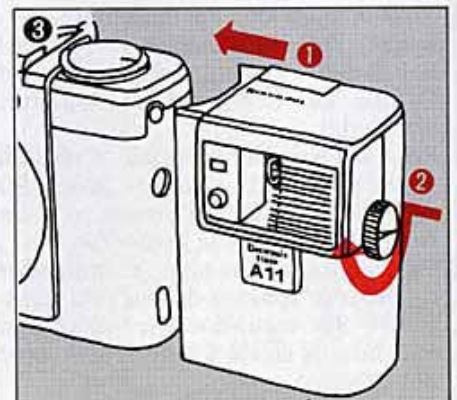
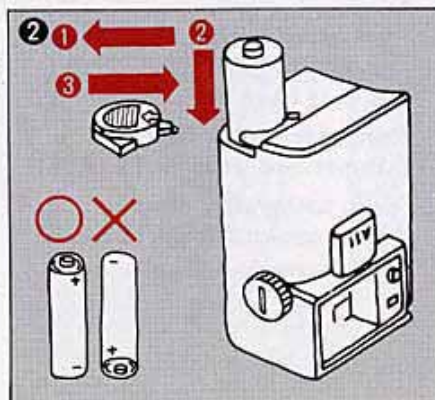
- E** Set the film speed.



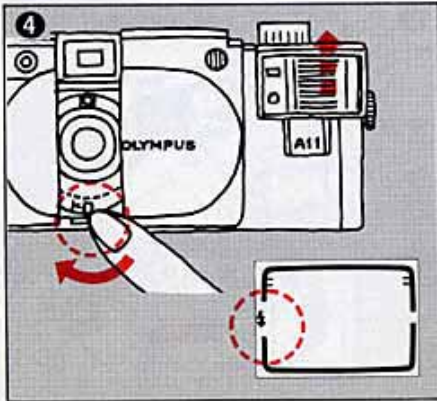
- E** In normal photography, the flash cannot be used in the manual (FULL) mode.

- E** Load one 1.5V AA size battery.
- G** Mignonbatterie einsetzen.
- F** Charger une pile 1,5V type AA.
- S** Inserte una pila 1,5V tipo AA.

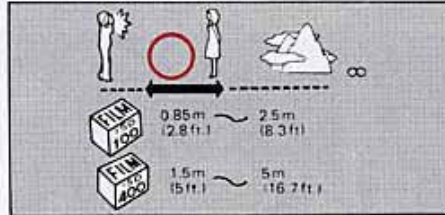
- E** Attach the A11 (A16).
- G** Blitzgerät A11 (A16) befestigen.
- F** Fixer le flash A11 (A16).
- S** Monte el A11 (A16).



- E** Set the flash lever to 'Flash.'
- G** Schalter auf Blitzsymbol stellen.
- F** Régler le levier sur le repère flash.
- S** Ajuste la perilla en la posición de flash.



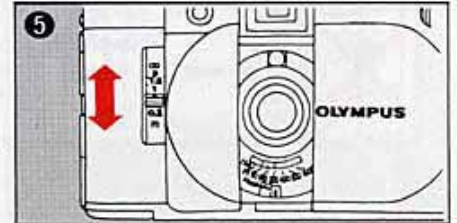
- E** Flash working range
- G** Effektiver Blitzbereich
- F** Plage d'utilisation du flash
- S** Alcance del flash



- E** The flash switch on the camera does not operate unless the flash is mounted.
- G** Der Blitz-Schalter an der Kamera ist wirkungslos, wenn kein Blitz angebracht ist.
- F** La commande de flash de l'appareil ne fonctionne pas si le flash n'est pas installé.
- S** El interruptor del flash de la cámara no funciona a menos que esté montado el flash.

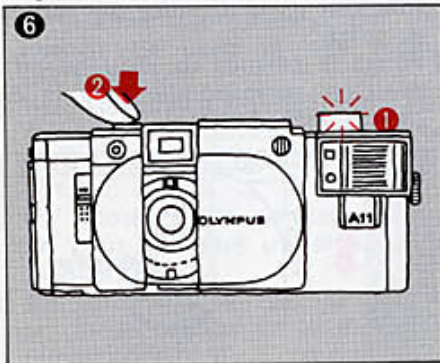
- E** Set the focusing lever according to the subject distance.
- G** Den Scharfeinstellhebel entsprechend der Entfernung des Motivs einstellen.

- F** Régler le levier de mise au point en fonction de la distance par rapport au sujet.
- S** Ponga la palanca de enfoque en la posición correspondiente a la distancia hasta el sujeto.

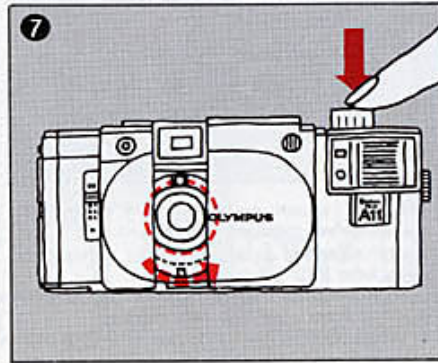


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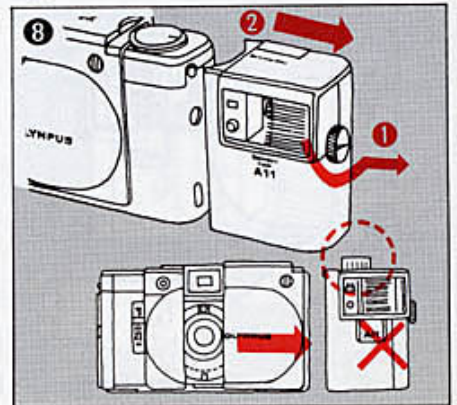
- E** After the lamp glows, release the shutter.
- G** Nach Aufleuchten der Lampe Verschluss auslösen.
- F** Lorsque la lampe s'allume, déclencher l'obturateur.
- S** Una vez que la lámpara se encienda, dispare el obturador.



- E** Depress the lamp after flash exposure to turn off.
- G** Lampe niederdrücken, wenn Blitzaufnahmen beendet.
- F** Abaisser la lampe après l'exposition.
- S** Oprima la lámpara hacia abajo después de la exposición.



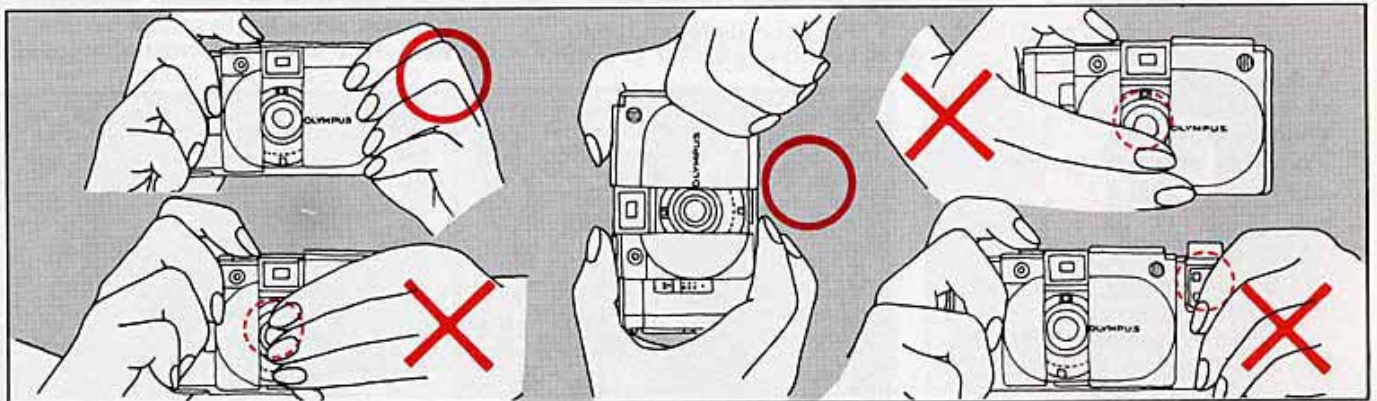
- E** Detaching the A11 (A16)
- G** Abnehmen des A11 (A16)
- F** Démontage du flash A11 (A16)
- S** Cómo desmontar el A11 (A16)



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Holding the Camera Halten der Kamera

Tenue de l'appareil Cómo sostener la cámara



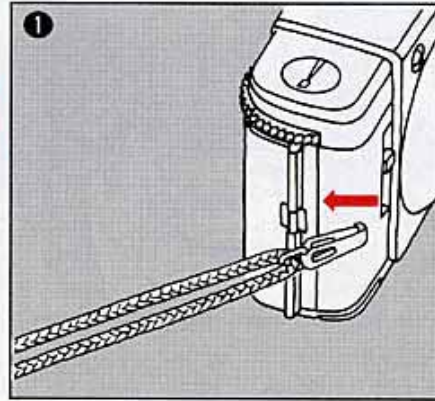
- E** Keep your fingers away from the lens and flash.
- G** Das Objektiv und den Blitz nicht mit den Fingern verdecken.
- F** Ne pas placer les doigts en face de l'objectif et du flash.
- S** No ponga los dedos delante del objetivo ni del flash.

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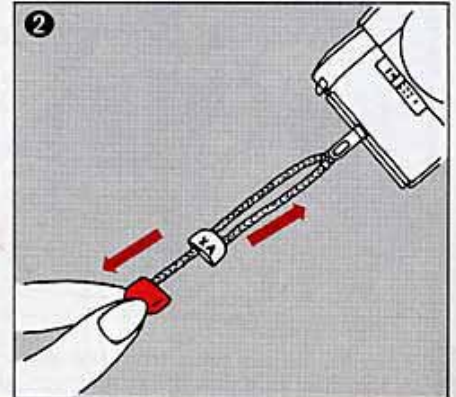
Taking close-ups
Nahaufnahmen
Prise de gros plans
Tomas de primeros planos

The strap can be fixed at 0.3 m (10 ft.) or 0.5 m (17 ft.).
 Das Band kann bei 0,3 m oder 0,5 m befestigt werden.
 La courroie peut être réglée à 0,3 m ou 0,5 m.
 La correa puede fijarse a 0,3 m ó 0,5 m.

- E** Attach the strap.
- G** Das Band anbringen.
- F** Fixation de la courroie.
- S** Cómo enganchar la correa



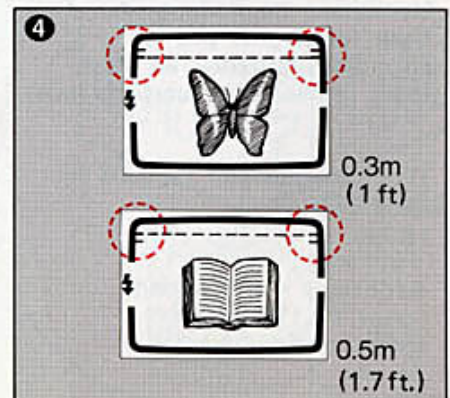
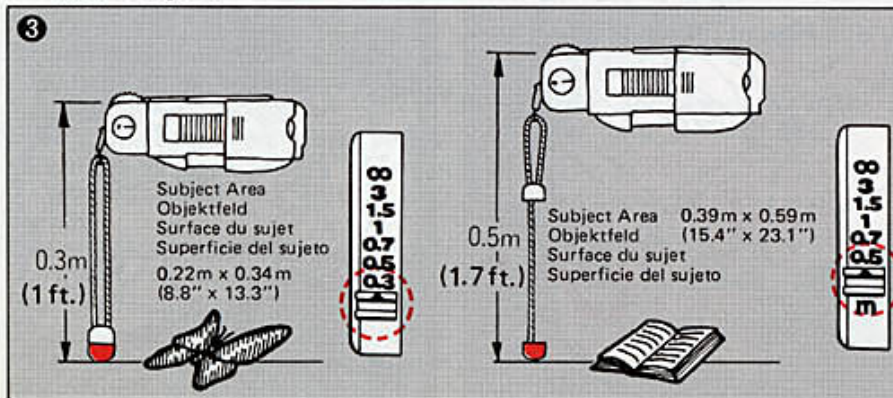
- E** The strap is set at 0.5m (1.7 ft.) by pulling the red knob.
- G** Durch Ziehen des roten Knopfes wird das Band auf 0,5 m eingestellt.
- F** La courroie est réglée sur 0,5 m en tirant sur le bouton rouge.
- S** Tirando del mando rojo, el cordón se establece en 0,5 m.



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- E** Set the focusing lever to 0.3m (1 ft.) or 0.5m (1.7 ft.) according to the subject distance.
- G** Entsprechend der Entfernung des Motivs den Scharfeinstellhebel auf 0,3 m oder 0,5 m einstellen.
- F** Régler le levier de mise au point sur 0,3 m ou 0,5 m d'après la distance par rapport au sujet.
- S** Ponga la palanca de enfoque en 0,3 m ó 0,5, de acuerdo con la distancia hasta el sujeto.

- E** Take care to avoid parallax.
- G** Darauf achten, Parallaxenfehler zu vermeiden.
- F** Procéder avec soin pour éviter une erreur de parallaxe.
- S** Tenga cuidado de evitar el paralaje.



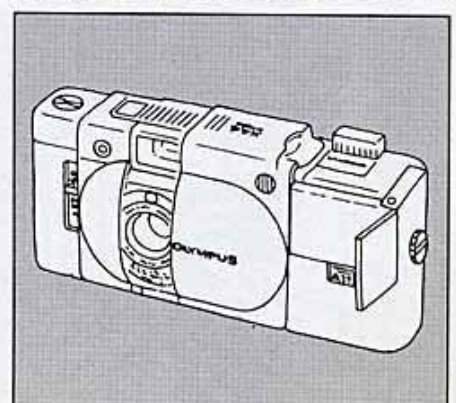
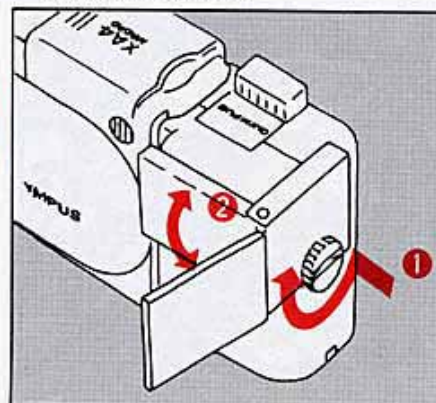
26

Using the flash adapter (for close-ups)
Verwendung des Blitzadapters (für Nahaufnahmen)
Utilisation de l'adaptateur de flash (pour gros plans)
Uso del adaptador de flash (para tomas de primeros planos)

(This adapter can be used for A11 only.)
 (Kann nur für All verwendet werden.)
 (Utilisable uniquement pour l'A11.)
 (Sólo puede usarse con el A11.)

- E** Open the dust barrier and attach the adapter.
- G** Den Objektivschutzdeckel öffnen und den Adapter anbringen.
- F** Ouvrir le protecteur et installer l'adaptateur.
- S** Abra el protector del objetivo y monte el adaptador.

- E** Set the flash at FULL.
- G** Den Blitz auf FULL stellen.
- F** Régler le flash sur FULL.
- S** Ponga el flash en la posición FULL.



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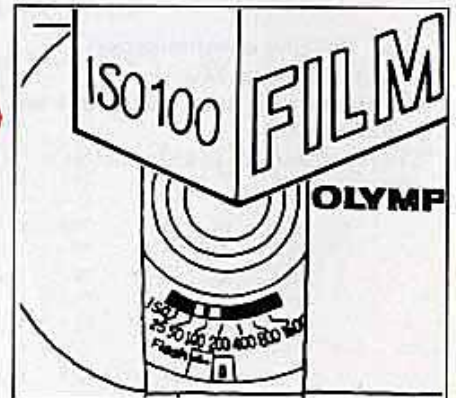
- E** Release the shutter.
- G** Auslöser betätigen.
- F** Déclencher l'obturateur.
- S** Oprima el disparador.

E Illumination streaks may appear on the picture of strongly reflecting subjects.

**When using non-"DX" film
Bei Verwendung von
Nicht-"DX" Filmen**

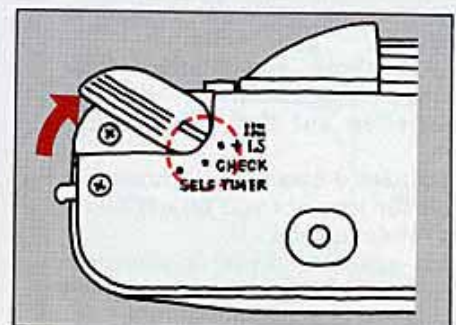
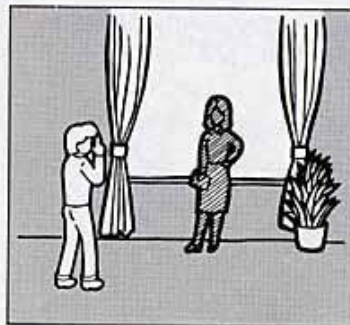
Intermediate settings are not available.

E Set the ISO film speed.



**Back lighting compensation
Gegenlichtkorrektur
Compensation pour l'éclairage en
contre-jour
Correcciones de la exposición a
contraluz**

E If you are shooting backlit subjects (under a bright sky, on a seashore, snow scenes or subjects in front of a window), use the control lever.



**Depth of Field Table (in meters)
Schärfentiefentabelle (m)
Table de profondeur de champ (m)
Tabla de profundidades de campo (m)**

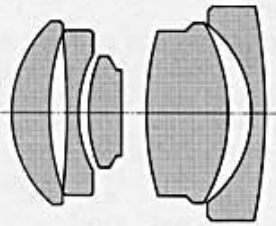
	※0.3	※0.5	※0.7	※1	※1.5	2	※3	5	※∞
3.5	—	—	0.64 0.77	0.88 1.15	1.25 1.88	2.57 2.75	2.14 5.07	2.97 16.18	7.32 ∞
4	—	—	0.63 0.78	0.87 1.18	1.22 1.95	1.53 2.91	2.05 5.63	2.81 23.83	6.41 ∞
5.6	0.28 0.32	0.45 0.56	0.61 0.82	0.83 1.27	1.14 2.22	1.40 3.57	1.82 8.72	2.39 ∞	4.59 ∞
8	0.28 0.33	0.44 0.59	0.58 0.89	0.77 1.44	1.03 2.80	1.24 5.40	1.56 50.27	1.96 ∞	3.23 ∞
11	0.27 0.34	0.42 0.63	0.55 0.99	0.71 1.73	0.93 4.17	1.09 15.39	1.33 ∞	1.60 ∞	2.36 ∞
16	0.26 0.36	0.39 0.72	0.50 1.22	0.63 2.62	0.79 24.52	0.90 ∞	1.07 ∞	1.23 ∞	1.63 ∞

- E** Figures with ※ are engraved on the distance scale.
- G** ※!Eingravierte Entfernungsstufen auf Scharfeinstellung.
- F** Ces distances précédées de ※ sont gravées sur l'objectif.
- S** Los números con ※ están grabados sobre la escala de distancias.

Depth of Field Table (in feet)

	※1	※1.7	※2.3	※3.3	※5	6	※10	15	※∞
3.5	—	—	2.11 2.53	2.92 3.81	4.16 6.29	4.81 7.99	7.09 17.10	9.24 40.59	23.97 ∞
4	—	—	2.09 2.57	2.87 3.89	4.06 6.53	4.68 8.39	6.81 19.05	8.76 53.78	21.00 ∞
5.6	0.94 1.07	1.53 1.91	2.01 2.69	2.73 4.20	3.78 7.45	4.31 9.99	6.04 30.00	7.52 ∞	15.05 ∞
8	0.92 1.10	1.47 2.02	1.91 2.91	2.54 4.76	3.42 9.46	3.85 14.05	5.17 226.69	6.21 ∞	10.58 ∞
11	0.89 1.14	1.41 2.17	1.80 3.24	2.34 5.73	3.07 14.34	3.40 28.76	4.39 ∞	5.11 ∞	7.73 ∞
16	0.85 1.22	1.31 2.49	1.64 4.00	2.07 8.72	2.62 111.01	2.85 ∞	3.56 ∞	3.95 ∞	5.35 ∞

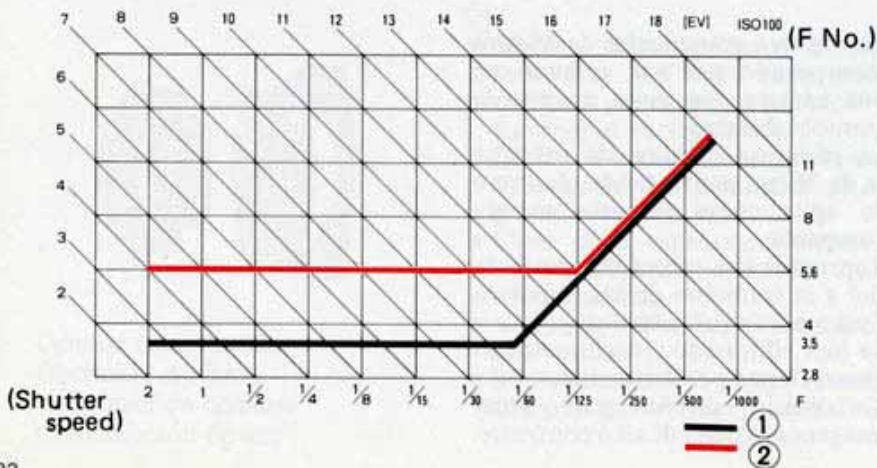
The XA4 lens features
 Merkmale des Objektivs XA4
 Caractéristiques de l'objectif XA4
 Puntos más destacados de objetivo de la XA4



Optical construction
 Optischer Aufbau
 Construction optique
 Construcción óptica

- E
 - 28-mm wideangle lens incorporated for the first time into a compact camera to enhance the functional performance.
 - 30-cm shortest focusing distance to expand the compacts' photographic horizon.
 - Clear color reproduction true to the professional-oriented Zuiko Lens tradition.
 - Virtually eliminated distortion aberration.
 - Sophisticated lens design to create sharp, high-contrast images.

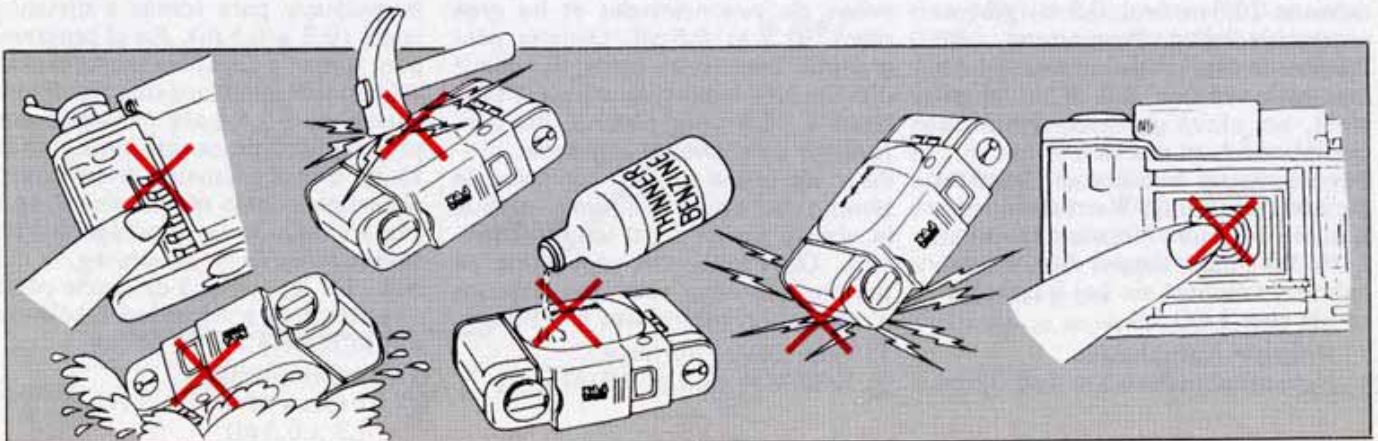
PROGRAM CHART
 DIAGRAMM DER PROGRAMM-AUTOMATIK
 TABLEAU DE PROGRAMMATION
 TABLA DE PROGRAMA



E
 There are two programs for normal shots and close-up shots (0.3m and 0.5m). In the program for close-up shots, the maximum lens aperture value is set at F 5.6 to get a larger depth of field. In normal shots, the camera shake warning lamp will turn on when the shutter speed is 1/30 sec. or slower. In close-up shots, it will turn on with shutter speeds slower than 1/90 sec.

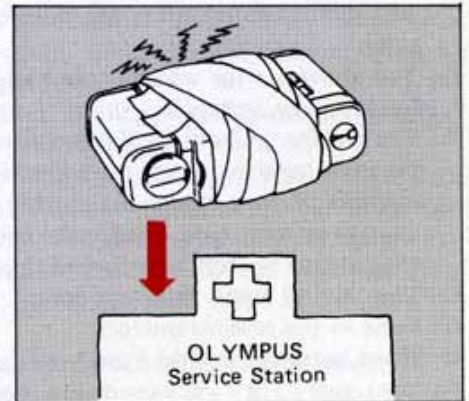
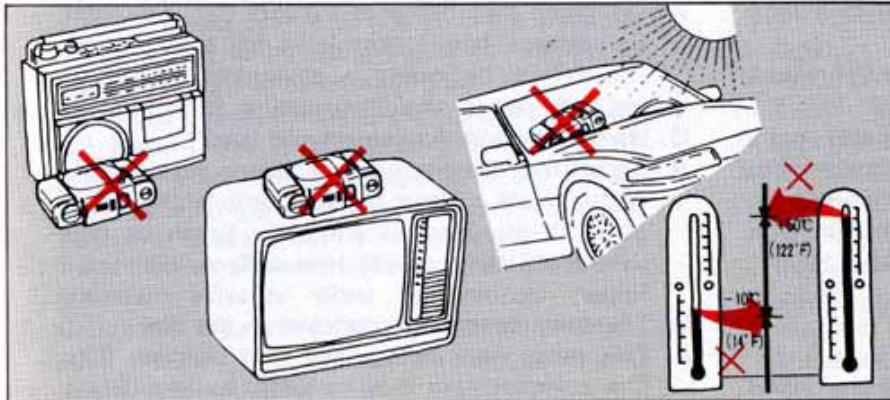
- ① Normal shots
- ② Close-up shots (0.3m & 0.5m)

- E Take care in handling the camera.
- G Vorsicht bei der Handhabung.
- F Manipuler l'appareil délicatement en toutes circonstances.
- S Tenga cuidado al manipular la cámara.



- E** Guard against high temperature and magnetic fields.
- G** Vor hohen Temperaturen und Magnetfeldern schützen.
- F** Tenir l'appareil à l'écart des champs magnétiques et à l'abri des températures élevées.
- S** Protéjala contra temperaturas elevadas y campos magnéticos.

- E** In case of malfunction, take the camera to your nearest Olympus service station.
- G** Bei Funktionsstörung sollte die Kamera zur nächsten Olympus-Service-Station geschickt werden.
- F** En cas de problème de fonctionnement, contacter votre revendeur ou le service après-vente agréé Olympus local.
- S** En caso de tener problemas de funcionamiento, lleve la cámara al centro de servicio Olympus más cercano.



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E Questions and Answers

Q: The shutter release button fails to operate.

A: Have you wound the film advance knob as far as it will go? If yes, check to see if the dust barrier is fully open. The shutter release button will not operate unless the dust barrier is fully open.

Q: The shutter trips when I touched on the release button very lightly.

A: The shutter release of XA-series cameras uses a pressure-sensitive electro-conductive material to prevent camera shake. With this feather-touch shutter release, you need only touch lightly on the release button to trip the shutter.

Q: The rewind crank does not turn.

A: Press in the rewind button.

Q: What batteries should I use?

A: Use two 1.5V silver oxide batteries SR44

(Eveready EPX-76 or equivalents). Never use 1.3V mercury batteries (though they are the same size).

Q: When should I check the batteries?

A: (1) When new batteries are inserted. (2) After the camera hasn't been used for a long time. (3) Before beginning a prolonged period of use. (4) When the temperature is very cold.

Q: How do I clean the camera and lens?

A: Clean the camera using a clean, soft lintless cotton cloth. Clean the lens only with a hand powered air blower, antistatic brush or lens tissue. NEVER rub the lens surfaces with your finger, clothing or other abrasive material.

Q: There are sometimes scratches on the film.

A: The cause may be a soiled film passage. The film compartment may be soiled by film debris

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during long use of the camera. Be sure to dust off the camera periodically.

Q: How do I store the camera?

A: Remove the camera from its case and store it in a dry, well ventilated place. Protect against excess moisture by using packs of silica gel or other desiccant in the storage area.

Q: The flash's illumination angle is stated to cover the picture area of a 35mm lens. Is there no problem when taking picture with the XA-4?

A: Practically, there is no problem as the A-series flash unit virtually covers the 28mm lens.

Q: I have taken pictures without setting the film speed.

A: Check the type of film you have loaded. If you used a "DX" film, the camera has set the ISO speed automatically.

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DESCRIPTION OF CONTROLS



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MAIN SPECIFICATIONS

Camera type: 35mm electronic lens-shutter camera.
 Film format: 35mm standard cassette (24 x 36mm).
 Lens: Zuiko 28mm F3.5, 5 elements in 5 groups.
 Shutter: Programmed between-lens shutter.
 Viewfinder: Bright frame finder, 0.5x. Long exposure warning and flash mark visible in finder.
 Focusing: Eye estimation and distance scale; 0.3m (1 ft.)—∞ focusing range (provided with strap for 0.3m (1 ft.) and 0.5m (1.7 ft.) distance measurement).
 Exposure control: Programmed shutter. Automatic exposure range 2 sec. (F3.5) — 1/750 sec. (F14).
 Film speed range: Automatic film speed setting with DX film (manual film speed setting for ISO 25-1600 with non-DX film).
 Film winding: Rear winding thumbwheel 405°
 Exposure counter: Progressive type with automatic reset.
 Film rewind: Crank type with rewind release button.
 Shutter release: Electromagnetic shutter release.
 Self-timer: Electronic self-timer with 12 second delay. Blinking LED and electronic beeper (Piezoelectric Ceramic Vibration) during self-timer operation.
 Battery check: Via self-timer/battery check lever.

Continuous LED and PCV.
 Flash mounting: Exclusive automatic Electronic Flash A11 attaches to (or detaches from) the camera in seconds.
 Setting camera's flash lever to flash symbol switches the A11 on, and sets the XA4 for autoflash.
 Flash control: Automatic control of flash exposure with auto-flash; flash adapter for close-up shots (optional accessory) for automatic light control.
 Lens/finder barrier: Sliding cover. When the cover is opened, power is switched on and shutter release unlocks. When the cover is closed, power is switched off and shutter release locks.
 Power source: Two 1.5V silver-oxide batteries SR44 (Eveready EPX-76; alkaline manganese batteries LR44 or equivalent).
 Dimensions: 104 (W) x 64.5 (H) x 38.5 (D) mm. (4.1" x 2.5" x 1.5").
 Weight: 230 grams or 8.1 oz. (less batteries).

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