

**BEDIENUNGSANLEITUNG
INSTRUCTION MANUAL
MANUEL DE INSTRUCCIONES
Gebruiksaanwijzing
Manuel d'instructions
MANUALE DI ISTRUZIONI**

Voigtländer

Seit 1756

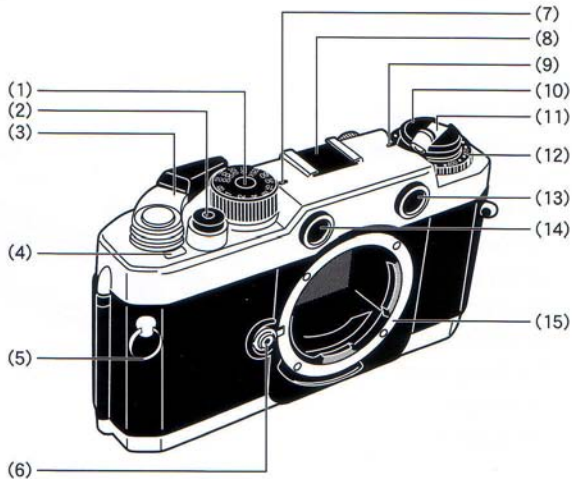
BESSA-T



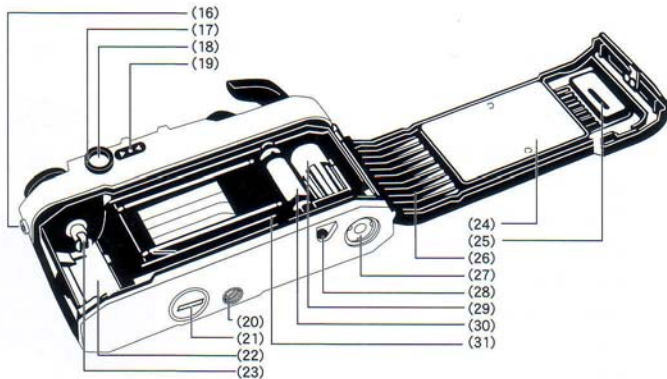
Congratulations on your selecting of Bessa camera.
This is compact and lightweight rangefinder camera with
VM lens mount and TTL exposure metering function.
Quick and accurate focusing is possible; through turning the focusing ring until
the double split images viewed through the finder's center converge to a
single image.

Description of Parts

- (1) Shutter Speed Dial
- (2) Shutter Release Button
- (3) Film Advance Lever
- (4) Frame Counter
- (5) Neck Strap Eyelet
- (6) Lens Release Button
- (7) Shutter Speed Index
- (8) Accessory Shoe
- (9) Film Speed Index
- (10) Film Rewind Knob
- (11) Film Rewind Crank
- (12) Film Speed Selector Dial
- (13) Viewfinder Window
- (14) Rangefinder Window
- (15) VM Lens Mount

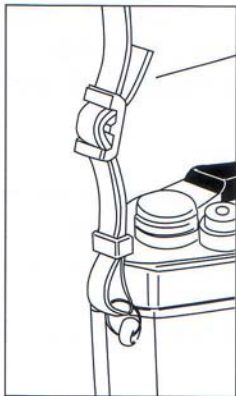
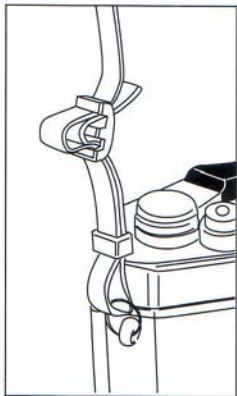


- (16) Synchro Contact
- (17) Diopter Adjuster
- (18) Rangefinder Eyepiece
- (19) LED Lamps
- (20) Tripod Socket
- (21) Battery Chamber Lid
- (22) Film Cartridge Chamber
- (23) Rewind Fork
- (24) Film Pressure Plate
- (25) Film Cartridge Confirmation Window
- (26) Camera Back
- (27) Winder Coupler
- (28) Film Rewind Button
- (29) Film Take-up Spool
- (30) Film Sprockets
- (31) Film Guide Rails



Attaching Neck-strap

Attach the neck-strap to the camera as illustrated below:



Be sure the end of the strap is on the inside.

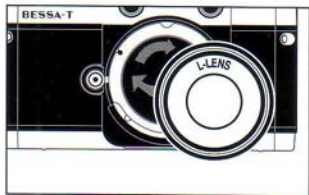
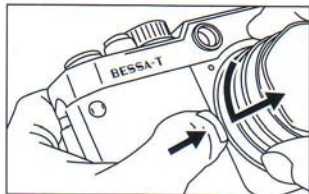
Mounting /Removing Lens

○ M(Bayonet) Mount lens

1. To mount the lens,after matching the red mark on the camera body with the red mark on the lens barrel,insert the lens in the camera body and turn the lens clockwise until it clicks.
2. To remove the lens from the camera body,turn the lens all the way counterclockwise while keeping the lens release button (6) pressed,then lift it straight out of the mount.

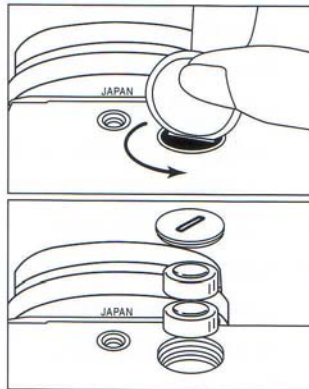
○ L Mount lens

1. Mount M-Bayonet Adapter Ring(Separately available) on the camera body.
 - Any one of three sizes of M-Bayonet Adapter Ring can be used.
 - Refer to the instruction manual for M-Bayonet Adapter Ring to mount it on the camera body.
2. Align the lens mount screw with that of the M-Bayonet Adapter Ring,then turn the lens clockwise.
 - Pay attention not to over tighten the lens to the body.
3. To remove the lens from the camera,turn the lens counterclockwise.



Inserting Batteries

1. Turn the battery chamber lid (21) counterclockwise using a coin or something similar.
2. Two LR44 type alkaline or two SR44 type silver batteries are used with camera.
3. Place the batteries so that both positive \oplus sides are at the bottom of the battery chamber.
4. Turn the battery chamber lid clockwise until it closes firmly.

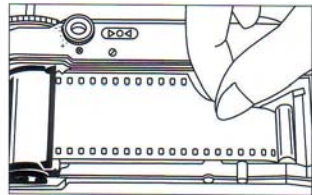
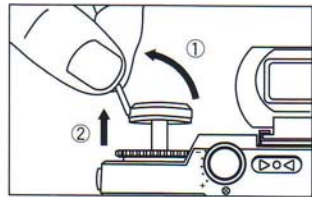


Battery Check

1. Lightly press the shutter release button (2) after winding the film advance lever (3). Now the exposure metering system is switched on. When one of three LED lamps lights, then battery condition is satisfactory. If no lamp lights, the batteries need replacing or have been loaded incorrectly.
 2. Renew both batteries as necessary.
- IF the shutter release button is lightly pressed, LED will light for approx. 12sec.
 - After releasing the shutter, the exposure metering switch will be locked until the film advance lever is advanced.

Loading Film

1. To open the camera back (26) , pull Film rewind knob (10) out. When the back cover opens, the frame counter (4) automatically resets to "S" .
2. Insert the film cartridge into the film chamber so that the projecting end of the film cartridge is downward.
3. Fold out and lift up the film rewind crank (11) . Then rotate the crank carefully while push in it down lightly until the film locks on the film rewind fork (23) .
4. Return the film rewind knob to its original position.



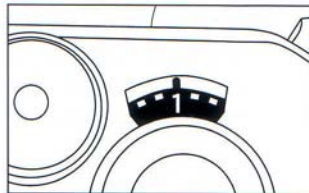
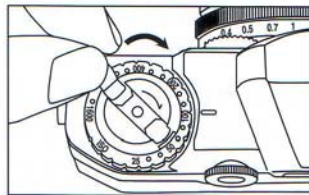
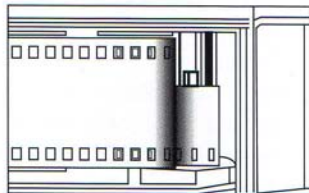
5. Insert the film leader into the groove of the film take-up spool (29) and place it so that the film perforations engage with the spool teeth.
6. Check that the film perforations engage properly with the teeth of Film sprockets (30) and the film slides smoothly along the film guide rails (31) by operating lightly the film advance lever (3) to advance the film.

Caution: Do not touch the shutter curtains.

7. Gently close the back cover and push it until it clicks.
8. Turn the film rewind crank gently in the direction of the arrow to properly tension the loaded film. Stop turning the crank when it becomes stiff, and return the crank to its original position.
9. Advance the film a couple of frames, pressing the shutter release button each time until the frame counter indicates "1" between 0 and 2.

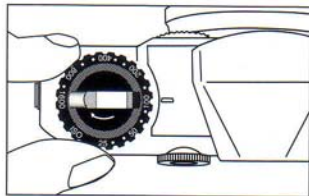
The film rewind knob rotates each time the film is advanced showing that the film is advancing properly.

- When advancing the film, wind the film advance lever slowly and securely until the film is fully transported to the next frame.



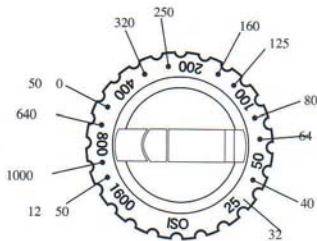
Filmspeed setting

1. Filmspeed is indicated on the outside of film package, in the film instructions, or on the film cartridge.
2. Set Filmspeed Selector Dial (12) so that Filmspeed index (9) indicates the value on Filmspeed Selector Dial corresponding to the film used. For example, if Filmspeed shown on the film is ISO 100/21 · , set the Filmspeed Selector Dial to the 100 on the dial matches with the index.
3. Click points are provided at each step of Filmspeed on the Filmspeed Selector Dial. When setting the film speed, make sure that it clicks.



Exposure Setting (shutter speed priority)

1. Wind the film advance lever (3) and turn the shutter speed dial (1) so that the indicator white line aligns with the desired shutter speed value. Then if the dial is set at the intermediate positions of the index, shutter speed will be incorrect. Be sure that the dial clicks at the position where the white line aligns with the desired value.
2. With brighter subjects, fast moving subjects or with the higher value film speed of the film used, it is recommended to use higher shutter speeds.
3. Recommended shutter speed with ISO 100/21 · film under typical situation is as below:
4. To monitor exposure, lightly press the shutter release button (2) and turn the aperture ring until the green ● mark lights. When the red ◀ mark lights, it means over exposure. So turn the aperture ring in the direction of greater f/value. If the red ▶ mark lights, it means under exposure, so turn the aperture ring to a smaller f/value.



Subject

Stationary subject in subdued light

Indoors in normal conditions

Outdoors on a fine day

Seaside in midsummer

Mountain area with snow

Fast moving subjects

Shutter speed

1~1/15

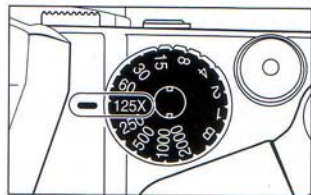
1/30~1/60

1/125~1/250

1/500~1/2000

1/500~1/2000

1/500~1/2000



Note: Outside the exposure metering range of your camera (EV4 to EV19), the exposure meter will not function properly and the green LED indicator may come on indicating incorrect exposure.

Over exposure



Slightly over



Correct exposure



Slightly under



Under exposure



Exposure Setting (aperture priority)

1. Wind the film advance lever (3) and turn the aperture ring until the index on the lens barrel indicates the desired f/value.
2. The suitable aperture value changes according to the brightness of the subject, the depth-of-field desired or Filmspeed of the film in use, and typical settings of the aperture with ISO 100/21 · film are as below.
3. Click points are provided each step of filmspeed on the Filmspeed Selector Dial. When setting the film speed, make sure that it clicks.
4. To monitor the exposure, lightly press the shutter release button (2) and turn the shutter speed dial until the green ● mark lights. If the red ◀ mark lights, turn the shutter speed dial to the higher shutter speed setting and if the red ▶ mark lights, then turn the shutter speed dial to the lower shutter speed setting. When the green ● mark light at intermediate positions between click, first set the dial at a click on either side and make fine control by operating the aperture ring afterwards.

Subject
 Night, or with small depth-of-field
 Indoors in normal conditions
 Outdoors on a cloudy day
 Outdoors on a fine day
 Seaside in midsummer
 Mountain areas with snow

F/value
 Faster than F/2
 F/4~F/5.6
 F/4~F/8
 F/8~F/11
 F/11~F/16
 F/11~F/16

Over exposure



Slightly over



Correct exposure



Slightly under

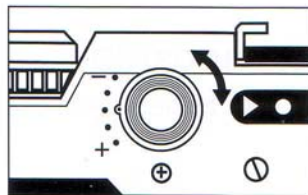


Under exposure



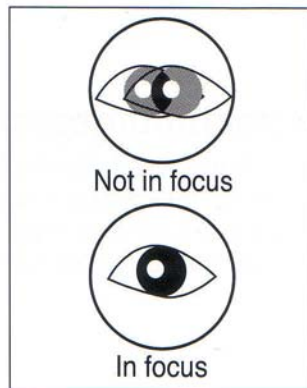
Diopter adjusting

Turn the Diopter Adjuster (17) while looking through the Rangefinder Eyepiece (18) and Adjust accordingly.



Focusing

A “double split image” viewfinder with a central focus zone will ensure that sharp images are taken. To achieve this, simply turn and adjust the lens until the double split image appears converges together as one.



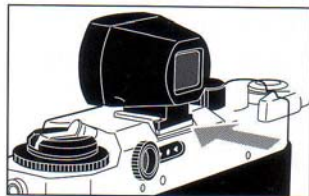
Composition

1. Look at the subject through the view finder.

Attaching/detaching View finder

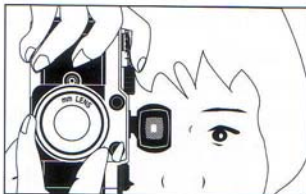
Attach the view finder by inserting it until it firmly clicks on the camera's accessory shoe (8) .

- When detaching the finder from the camera, pull the finder towards you straightly not to turn it forcibly.



Holding Camera

1. Hold the camera in the palm of the left hand so as to turn the lens focusing ring easily with fingers.
2. Hold the camera body lightly and place your right index finger lightly on the shutter release button.
3. Press your left elbow lightly against your body and look through the view finder to steady the camera against your face. Then relax your right arm holding the grip.
4. With lower shutter speeds, it is recommended to use a tripod and/or cable release.

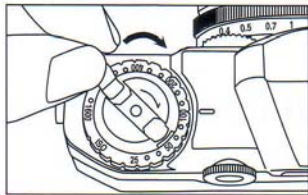
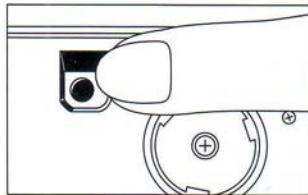


Winding the Film

- You can wind the film on to the next free frame either by a full single stroke or 'inching' using the Film Advance Lever (3) .
- A manual operation, fast trigger winder is available as an optional extra

Rewinding the Film

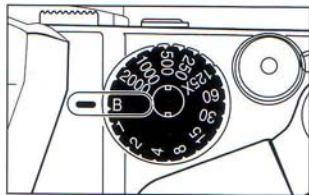
1. When the film is at its end, the advance lever no longer operates smoothly, check the frame counter (4) display. If the frame counter shows that the all frames of the loaded film have been exposed, the film then need to be rewound.
2. Press the film rewind button (28) on the camera base.
3. Fold out the film rewind crank (11) and turn it in the direction of the arrow.
4. Once the pressure eases, the film is completely wound into the cartridge.
5. Lift up the film rewind knob (10) and pull it out to open the camera back (26) . Now the film cartridge can be taken out.
6. Do this in a place way from direct sunlight.
Note: If the film reaches the end of the roll during film advance, the film advance lever will rock. Rewind the entire roll, then complete the movement of the film advance lever and put it back into place.



“B” (bulb) Setting

1. With the shutter speed set dial (1) set at “B” position, the shutter will remain open for as long as the shutter release button (2) is pressed.
2. This setting is useful when an exposure longer than one second is required, such as in landscape photography at night.
3. Be sure to use a tripod and/or cable release when using this long time shutter speed setting.

Note: We recommend that you remove the batteries from the camera at this setting to avoid wasting the batteries.

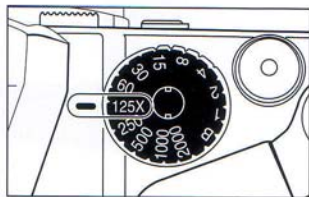


Flash Photography

Use the grip type (bracket type) flash unit.

1. Connect the Synchro cord with the Synchro contact of the camera.
2. Set the shutter speed dial (1) at 1/125 second or lower.
3. Set the aperture.

Note: To set the correct aperture, please refer to the instruction manual for the flash unit.



Optional Accessories

1. Manual operation fast Trigger Winder
2. M-Bayonet adapter ring



Specifications

Type:	35mm camera with focal plane shutter and TTL metering system
Film Format:	35mm film, 24×36mm
Lens Mount:	VM mount
Shutter:	Vertically moving metal focal plane shutter B, 1-1/2000 sec.
Self-Timer:	Mechanical self timer with 10 sec operating time
Focusing:	Coincidence type rangefinder
Exposure display:	Red ◀ mark LED. . . Over exposure warning Green ● mark LED. . . Good exposure indication Red ▶ mark LED. . . Under exposure warning
Exposure Metering System:	Center-weighted average metering. By pressing shutter release button
Exposure Coupling Range:	EV1-19 (ISO 100, F1.4, 1sec-F16, 1/2000sec.)
Flash Terminal:	X Synchro contact. Synchronized at 1/125 sec or lower speed.
Film Advance:	By single and/or multiple 'inching' lever action. Double exposure lock system. Trigger winder available as optional extra.
Film rewind:	By film rewind button and film rewind crank
Frame Counter:	Additive type with autoreset by opening the camera back
Film Speed Range:	ISO25-1600 by 1/3 steps
Power Source:	Two 1.5V Alkaline batteries (LR44) or Silver batteries (SR44)
Dimensions:	135.5 (W) × 78.5 (H) × 33.5 (D) mm
Weight:	385g

• These specification and external appearance are subjected to change for improvement without prior notice.