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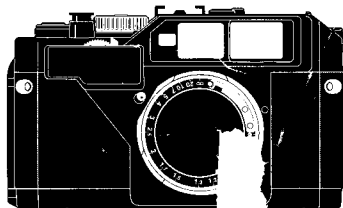
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**BEDIENUNGSANLEITUNG
INSTRUCTION MANUAL
MANUEL DE INSTRUCCIONES
Gebruiksaanwijzing
Manuel d'instructions
MANUALE DI ISTRUZIONI**

Voigtländer

Seit 1756

**BESSA-R2S
-R2C**

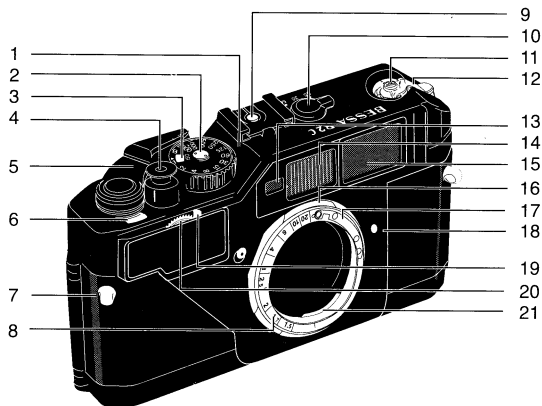


Congratulations on selecting your Voigtlander Bessa R2S or R2C camera. The Voigtlander Bessa R2 and R2S are compact and lightweight mechanical shutter rangefinder cameras with TTL exposure metering and LED finder readout.

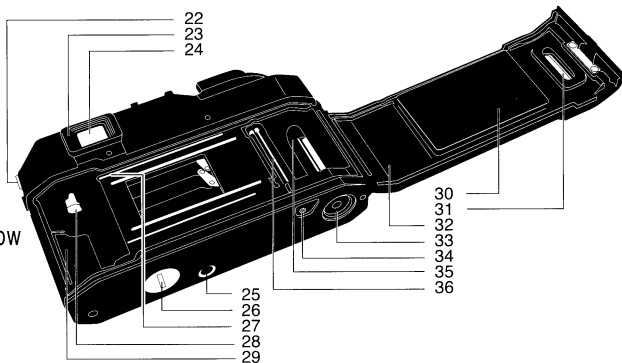


Description of Parts

- (1) Shutter Speed Index
- (2) Shutter Speed ISO/Filmspeed Set Ring
- (3) Filmspeed Window
- (4) Shutter Release Button
- (5) Film Advance Lever
- (6) Frame Counter
- (7) Neck Strap Eyelet
- (8) Distance Scale
- (9) Hot Shoe Contact/Accessory Shoe
- (10) Frame Selector Lever
- (11) Film Rewind Shaft
- (12) Film Rewind Crank
- (13) Rangefinder Window
- (14) Bright-line Frame illumination window
- (15) Viewfinder Window
- (16) Outer Bayonet
- (17) Lens Lock Spring
- (18) Lens Release Index
- (19) Infinity Lock Release Lever
- (20) Focusing Wheel
- (21) Inner Bayonet

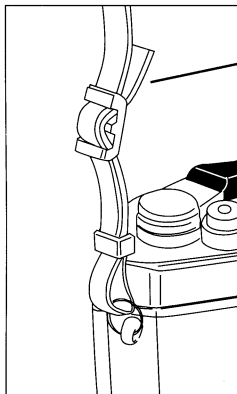
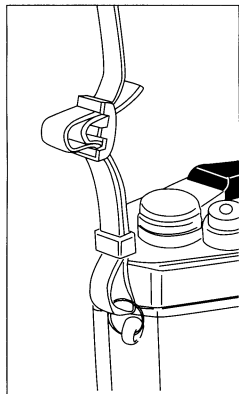


- (22) Synchro Contact
- (23) Finder Frame
- (24) Rangefinder Eyepiece
- (25) Tripod Socket
- (26) Battery Chamber Lid
- (27) Film Guide Rails
- (28) Rewind Fork
- (29) Film Cartridge Chamber
- (30) Film Pressure Plate
- (31) Film Cartridge Confirmation Window
- (32) Camera Back
- (33) Trigger Winder Connection
- (34) Film Rewind Button
- (35) Film Take-up Spool
- (36) Film Sprockets
- (37) Lens Compatibility



Attaching Neck-strap

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



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

The body has a built in lens helical and inner bayonet for 50mm lenses, and an outer bayonet mount for all other lenses.

This design allows much smaller 50mm lenses compared to other rangefinder mounts.

Mounting/Removing Lens

Outer Bayonet Lenses (all lenses except 50mm lenses, and the 50/1.1 Nikkor with outer bayonet mount)

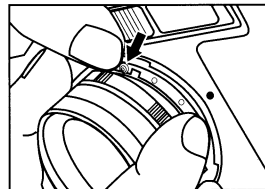
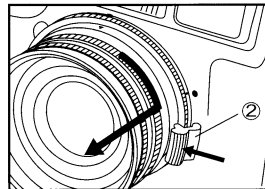
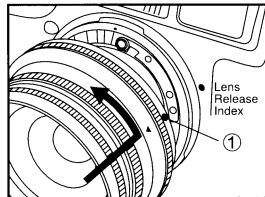
1. Set Distance Scale (8) on camera body at infinity.
2. Set Distance Scale on lens at infinity.
3. Align Lens Release Index (18) on camera body with Red Dot on lens. Place the lens on the outer bayonet on camera.
4. Make sure that the lens is aligned to camera mount horizontally. Push the lens lightly, then turn counter clockwise until it locks.
5. To remove the lens, turn the lens distance scale to infinity. Press the release lever on the lens inward, turn the lens clockwise while keeping the lock lever on the lens pressed, then lift lens straight out of the mount.

Caution

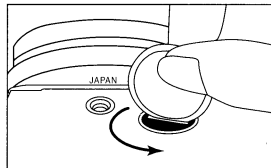
With outer bayonet mount lenses, make sure the distance scale on the camera body and lens are BOTH set at infinity while mounting or removing lenses. Otherwise, it may result in serious damage to the camera body and/or lens.

● Inner Bayonet Lenses (All 50mm lenses except the outer bayonet 50/1.1 Nikkor)

1. Set Distance Scale (8) on camera body at infinity.
2. Align Lens Release Index (18) on camera body with Red Dot on lens mounting lug. Insert the lens into the inner bayonet on the camera.

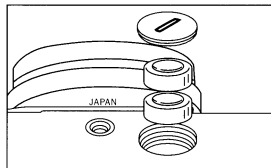


3. Make sure that the lens is aligned to camera mount horizontally, and push the lens lightly into the mount.
4. Then turn the lens counter clockwise, until it locks.
5. To remove the lens, turn the distance scale on the camera body to infinity, press down the chrome spring lock, turn the lens clockwise all the way while keeping the lock lever on the lens pressed, then lift lens straight out of the mount.



Inserting Batteries

1. Turn the Battery Chamber Lid (26) counter clockwise using a coin or something similar.
2. The camera uses two LR44 type alkaline or two SR44 type silver batteries.
3. Place the batteries so that both positive + sides point towards the top of the camera.
4. Turn the Battery Chamber Lid clockwise until it closes firmly.



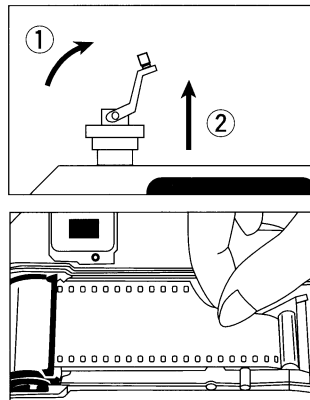
Battery Check

Advance the shutter and then activate the metering system by lightly pressing the shutter release button (4). When one of three LED lamps lights in the finder, then battery is OK. If no LED lights, the batteries need replacing or have been loaded incorrectly, or the battery cap has not been closed completely.

1. Replace both batteries as necessary.
 - After releasing the shutter, the exposure metering switch will be turned off until the film advance lever is advanced.
 - Caution: Keep batteries away from infants and small children. IF a battery is accidentally swallowed, call a doctor immediately as the material inside the battery can cause serious problems.

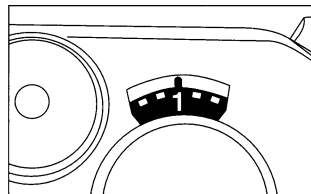
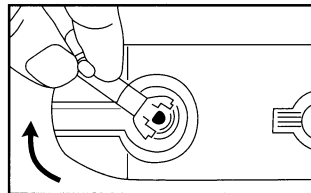
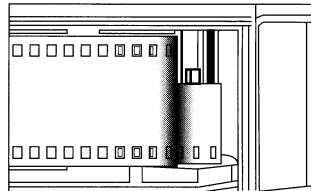
Loading Film

1. To open the camera back (32), fold out and lift up the Film Rewind Crank (12), then pull Film Rewind Shaft (11) out. When the back cover opens, the Frame Counter (6) automatically resets to S
2. Insert the film cartridge in the Film Chamber (29) so that the projecting end of the film cartridge is downward.
3. Lift up the Film Rewind Crank (12). Then rotate the crank carefully while pushing down lightly until the film locks on the Film Rewind Fork (28).
4. Return the film rewind shaft to its original position.
5. Insert the film leader into the groove of the Film Take-up Spool (35) 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 (36) and the film slides smoothly along the Film Guide Rails (27) by operating lightly the Film Advance Lever (5) to advance the film.



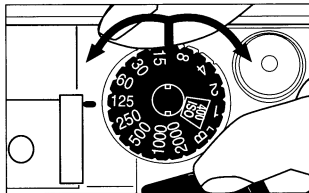
Caution: Do not touch the shutter curtains.

7. Turn the film rewind crank gently in the direction of the arrow to properly tension the loaded film. Stop turning the crank when it tightens, and return the crank to its original position.
 8. Gently close the back cover and push it until it clicks.
 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. IF the film is loaded correctly, the film rewind shaft will rotate each time the film is advanced.
- When advancing the film, wind the film advance lever slowly and securely until the film is fully transported to the next frame.
 - **CAUTION:** Do NOT advance the film lever BEFORE the shutter has closed from the previous exposure. This will jam the shutter and is not covered by warranty.



Film Speed Setting

1. Film speed is indicated on the outside of the film package or in the film instructions.
2. To set the film speed:
 - (1) Raise the shutter speed dial,
 - (2) Turn the shutter speed dial in raised position until the arrow indicator on the inner ring points to your chosen film speed (ISO) in the Film speed Window (3). The film speed dial is calibrated from 25 to 3200 in 1/3 stop increments.

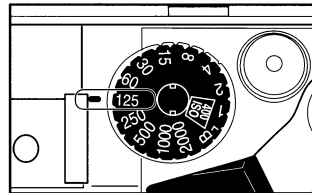


Subject

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



Exposure Setting (Shutter speed priority)

1. Turn the Shutter Speed Set Ring (2) so that the desired shutter speed aligns with the white index line. Intermediate speeds can NOT be used. Make sure the shutter speed dial is set to a click marked shutter speed. Speeds are 1 second to 1/2000th plus B. The shutter speed dial rotates 360 degrees.
2. With brighter subjects, fast moving subjects or with the higher value film speed of the film used, higher shutter speeds are recommended.
3. Recommended shutter speed with ISO 100/21 film under typical situation is as above.
4. To activate the meter, lightly press the shutter release button (4) and turn the aperture ring until the center O LED lights in the finder. The “+” LED indicates over exposure. The “-” LED indicates under exposure. Turn the aperture or the shutter dial in the direction indicated by the outer lit LED.

Over exposure



Slightly over



Correct exposure



Slightly under



Under exposure



Note: Outside the exposure metering range of your camera (EV1 to EV19), the exposure meter will not function properly.

Exposure Setting (Aperture priority)

1. Adjust the lens aperture to the desired f/stop.
2. Exposure changes according to the brightness of the subject, the depth-of-field desired or film speed 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 film speed on the Filmspeed Selector Dial. When setting the film speed, make sure that it clicks.
4. To activate the meter, advance the shutter and then lightly press the shutter release button (4). Turn the shutter speed dial until the center O LED lights in the finder. The “+” LED indicates over exposure. The “-” LED indicates under exposure. Turn the aperture or the shutter dial in the direction indicated by the outer lit LED. When the O mark lights 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.

Note: Outside the exposure metering range of your camera (EV1 to EV19), the exposure meter will not function properly.

Over exposure



Slightly over



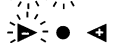
Correct exposure



Slightly under



Under exposure



Subject

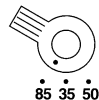
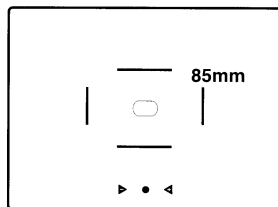
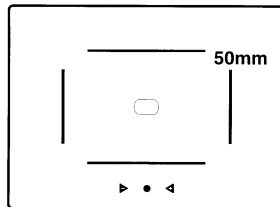
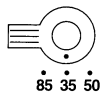
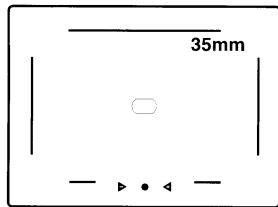
Stationary subject in subdued light
Indoors in normal conditions
Outdoors on a fine day
Seaside in midsummer
Mountain area with snow
Fast moving subjects

F/value

Faster than F2
F2~F4
F4~F8
F8~F11
F11~up
F11~up

Selecting Viewfinder Framelines

Turn the Frame Selector Lever on the top plate (10) to choose the 35, 50, or 85 frameline. Select the frame line according to the focal length of your lens. Parallax is automatically corrected according to the focused distance of your lens.



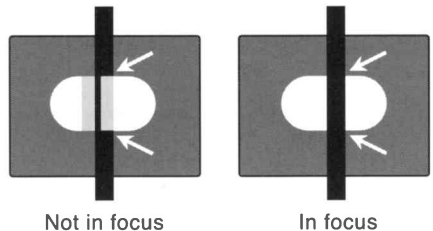
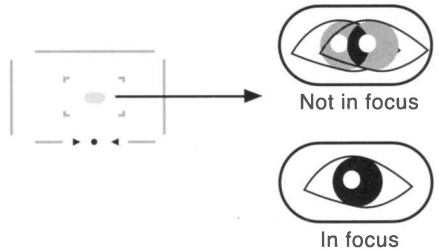
Focusing 1

For 50mm and shorter lenses, you may focus by either the index finger focusing wheel (20) on the camera body, OR by turning the lens barrel, until the two images in the central rangefinder patch coincide. It is important to keep your eye centered in the viewfinder for best visibility of the rangefinder focusing patch.

For longer than 50mm lenses, do NOT focus by the index finger focusing wheel (20) as it may damage the mechanism. Instead, focus ONLY by turning the lens barrel.

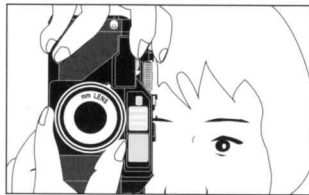
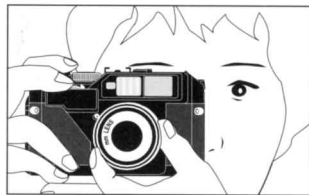
Focusing 2

For accurate focusing of architectural or technical subjects with vertical lines, use the 'Split Image' focusing option. To achieve this, simply turn and adjust the lens so that the lines join together.



Holding Camera

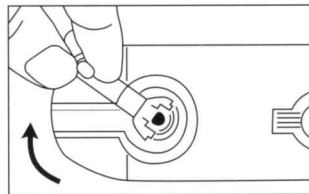
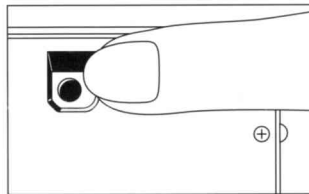
1. Hold the camera in the palm of the left hand so as to turn the lens barrel ring easily with your fingers.
2. Hold the camera body lightly and place your right index finger lightly on the shutter release button and middle finger on the focusing wheel (20).
3. All lenses can be focused by turning the lens barrel, with your left hand. 50mm and shorter lenses may also be focused by turning the focusing wheel, should you prefer that method. However, do NOT use the focusing wheel for longer than 50mm lenses as damage to the focusing mechanism may result.
4. Press your left elbow lightly against your body and look through the rangefinder eyepiece to steady the camera against your face. Then relax your right arm holding the grip. Press the Shutter Release GENTLY for sharpest results.



Rewinding the Film

1. When the film is at its end, the advance lever will no longer operate. Check the Frame Counter (6) display. If the frame counter shows that the all frames of the loaded film have been exposed, the film should be rewound into the film cartridge.
2. Press the Film Rewind Button (34) on the camera base.
3. Fold out the Film Rewind Crank (12) 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 Shaft (11) and pull it out to open the Camera Back (32). Now the film cartridge can be taken out.
6. Do this in a place away from direct sunlight.

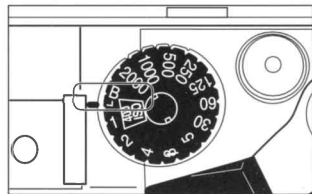
Note: If the film reaches the end of the roll during film advance, the film advance lever will lock. Rewind the entire roll, then complete the movement of the film advance lever and put it back into place.



"B" (Bulb) setting

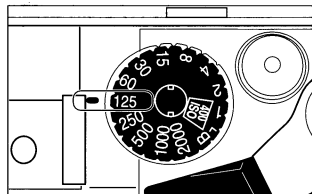
1. With the Shutter Speed ISO/Film speed Set Ring (2) set at "B" position, the shutter will remain open for as long as the Shutter Release Button (4) is pressed.
2. This setting is useful when an exposures longer than one second is required, such as landscape photography at night.
3. Be sure to use a tripod and/or cable release when using longer than 1/15 second shutter speeds.

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



Flash Photography

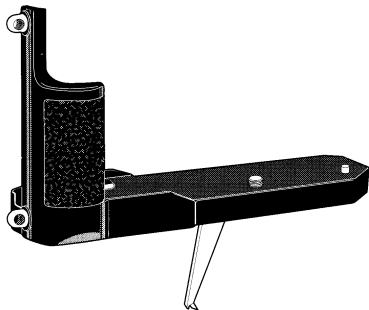
1. Simply fit the flash unit in the Hot Shoe (9), or connect the flash to the PC outlet on the side of the camera.
2. Set the Shutter Speed (2) at 1/125 sec. or lower.
3. Flash operation varies with the type of flash you have, and the setting you are using. Consult the Flash operating manual.



Optional Accessory

Manual operation fast Trigger Winder

The Bessa Trigger winder can be used on the Bessa R2S, R2C, R2, and Bessa T.



Compatibility of S and C mount

While the exterior mounts and back focus for classic Nikon Rangefinder lenses and classic Zeiss Contax Rangefinder lenses are the same, the helical travel is different between the two mounts. At the present time, all Voigtlander SC lenses are Nikon Rangefinder mount, though the 35 and shorter lenses will work well on classic Contax mount cameras. Please refer following notes for detailed information.

1. Some standard and tele lens of classic Contax rangefinder are slightly hard to fit on R2S(for Nikon S series). On the other hand, some standard and tele lens of Nikon S rangefinder series are slightly loose on R2C(for classic Contax rangefinder). With wide angle lens, there is no problem.
2. There is a difference between Nikon S series and Contax Rangefinders on the helical rotation between infinity to 0.9m on helicoid. The Bessa R2S is designed for Nikon rangefinder mount lenses. The Bessa R2C is designed for classic Contax rangefinder lenses (not the modern Contax G mount).
3. When interchanging lenses between the R2S and R2C systems, the difference between the wide angle lenses is generally considered to be so small as to be negligible. On 50mm and longer lenses, focusing inaccuracies between the two lens lines increase as A) the focal length increases B) the focused distance decreases and C) aperture increases. Please refer the chart on next page for approximate limits of lens interchangeability.

50mm

	F5.6	F4	F3.5	F2.5	F2	F1.5
	○	○	○	○	○	○
5m	○	○	○	○	○	○
3m	○	○	○	○	○	×
2m	○	○	○	○	×	×
1.5m	○	○	○	×	×	×
1m	○	×	×	×	×	×
0.9m	○	×	×	×	×	×

85mm

	F16	F11	F8	F5.6	F4	F2.8	F2
	○	○	○	○	○	○	○
5m	○	○	○	○	○	×	×
3m	○	○	○	○	×	×	×
2m	○	○	○	×	×	×	×
1.5m	○	○	×	×	×	×	×
1m	○	×	×	×	×	×	×
0.9m	○	×	×	×	×	×	×

- Within Depth-of-Field
 × Out of Depth-of-Field

Focus are within depth-of-field with wide angle lenses (wider than 35mm).

This chart is for reference information only, and should not be considered a guarantee of lens performance.

Caution

- Collapsible type lens can be used on the camera, but to be on the safe side, it is not recommended to collapse the lens into the body. Do not collapse the lens forcibly otherwise it may result in serious damage to the camera body and/or lens.
- The following lenses can not be used on the Bessa-R2S/C.
 - Pre-War Biogon 35mm F2.8 by Carl Zeiss Jena or the Russian 35/2.8 copy of Biogon (Post War West German Zeiss Opton and Carl Zeiss 35/2.8 will be no problem).
 - Nikkor 21mm F4
 - Zeiss Biogon 21mm F4.5 can be used by removing the collar on the rear lens elements by loosening two screws

Note: Misuse of the lens and/or camera as above points 1 and/or 2 are not covered by the product guarantee.

Specifications

Type:	35mm camera with mechanical focal plane shutter and TTL metering system.
Film Format:	35mm film, 24x36mm
Lens Mount:	VS-mount/VC mount
Shutter:	Vertically moving metal focal plane shutter B, 1-1/2000 sec.
Focusing:	Coincidence type
Exposure display:	▲ mark LED.....Over exposure warning ● mark LED.....Good exposure indication ▶ 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. -F15, 1/2000sec)
Flash Terminal:	Synchronized at 1/125sec. or lower speed.
Film Advance:	By single and/or ratchet 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 camera back.
Film Speed Range:	ISO 25-3200 by 1/3 steps
Power Source:	Two 1.5V Alkaline batteries (LR44) or Silver batteries (SR44)
Dimensions:	135.5 (W) × 81.5 (H) × 43.5 (D) mm
Weight:	520g
Body color:	Black

● These specification and external appearance are subjected to change without prior notice.