

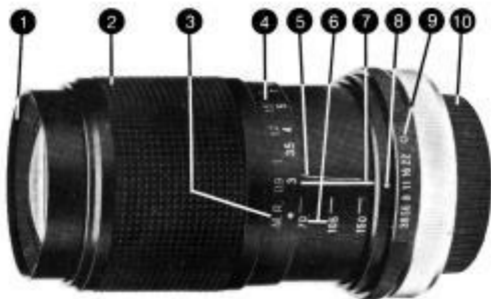
Vivitar®

Macro-Focusing One-Touch Zoom

Instruction Sheet

70-150mm

f3.8



- ① **Accessory Thread.** Accepts 52mm threaded accessories such as filters and lens hoods.
- ② **Zoom/Focus Ring.** Turn the Zoom/Focus Ring to focus; slide the Zoom/Focus Ring along the lens barrel to change focal length.
- ③ **Macro Range Position.** Closest focusing distance for achieving maximum reproduction ratios.
- ④ **Distance Scales.** The white scale shows the distance in feet; the green scale shows the distance in meters.
- ⑤ **Infrared Focus Line.** Infrared radiation focuses on a different plane than light. When using infrared film, focus normally, then move the distance setting from the Distance Index Line to the Infrared Focus Line.
- ⑥ **Focal Length Settings**
- ⑦ **Distance Index Line**
- ⑧ **Aperture Index Point**
- ⑨ **Aperture Ring and Scale**
- ⑩ **Lens Mount.** Your new Vivitar zoom is designed to fit your camera with ease and precision. Simply slide the Zoom/Focus Ring to the 70mm position and mount the lens (holding the lens barrel) as you would your normal lens.

Automatic Diaphragm Control

The automatic diaphragm of your lens allows you to focus and compose your pictures with the diaphragm "wide open" (at maximum aperture). It will automatically stop down to the preselected aperture at the moment of exposure and immediately re-open as the exposure is completed.

NOTE: Universal Thread Mount lenses have an "Auto/Manual Switch" located on the lens mount. This switch must be set to the "A" (auto) position for Automatic Diaphragm Control. In the "M" (manual) position, the diaphragm opens and closes as the Aperture Ring is turned.

EE Coupled Lenses

Canon: Canon Mount lenses have a click stop at the green "O" for EE operation. The Aperture Ring may be set and removed from this position in the same manner as selecting a specifically marked f-stop.

Minolta: On Minolta Mount lenses the minimum aperture setting (f22) is engraved in green. When using this lens in the shutter priority mode (on Minolta cameras having this feature) the lens must be set at this minimum aperture position.

Using the Macro Range Setting

First, align the yellow "M.R." on the Zoom/Focus Ring with the Distance Index Line. Next, move your camera and lens toward your subject until the image comes into sharp focus. You'll then be able to continuously change your reproduction ratio by changing zoom settings. There's no need to refocus.

NOTE: "Reproduction ratio" refers to the relationship between the size of your subject and the size of its image on film. For example, a reproduction ratio of 1:4 means that the size of the image on film is $\frac{1}{4}$ life-size. At 70mm your reproduction ratio is 1:8.6—approximately $\frac{1}{9}$ life size. Zooming to 150mm increases your reproduction ratio to 1:4. By

adding the optional Vivitar 70–150mm 2X Matched Multiplier your focal length range will be changed to 140–300mm, with reproduction ratios of 1:4.3 at 140mm and a full 1:2 at 300mm. Ask your photo dealer for more information about this useful accessory.

Lens Care

1. It's a good idea to keep a filter (Skylight 1A or UV) on your lens at all times to protect the front element from fingerprints and scratches.
2. Keep your lens dust free by making sure both the front and rear lens caps are in place when it's not in use.
3. Clean your lens only when necessary, using only tissues, brushes, cleaners, etc. made specifically for photographic lenses. Never rub the lens surface with your finger, clothing, or any other abrasive material.
4. Always store your lens in a cool, dry place. In humid weather, it's best to store it with the supplied packet of silica gel.

Specifications

Optical Construction: 13 elements, 9 groups

Angles of Acceptance: 34°–16.5°

Aperture Range: f3.8–f22

Minimum Focusing Distance from Film Plane: 0.81M (2.6 ft.)

Maximum Barrel Diameter: 64mm (2.5 in.)

Length at Infinity: 98mm (3.8 in.)

Weight: 435 g (15.3 oz.)

Coating: Multicoated

Accessory Size: 52mm

Lens Cap Size: 52mm

Specifications subject to change without notice. Weights and lengths vary slightly depending on lens mount.

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