



OWNER'S MANUAL

Vivitar
automatic T-4
Lens System

THE LENSES

The Vivitar Automatic T-4 Lens System is a complete automatic lens line . . . and it's still growing. With an entire range of focal lengths to choose from, the T-4 line allows you complete control of your subject in virtually every photographic situation.

Your new lens has been created by photographers for photographers. Computer-designed for optimum optical performance, each T-4 lens has been precision-engineered and field tested for optical and mechanical reliability and will deliver superb line resolution and contrast. To you, the photographer, this means crisp, clear images with exceptional tonal gradation and color balance.

There is a Vivitar T-4 Lens for your every photographic need and this versatile system will provide you with many years of picture taking enjoyment.



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THE ADAPTERS

In addition to exceptional optical and mechanical performance, the Vivitar Automatic T-4 Lens System gives you yet another benefit — complete interchangeability between two or more 35mm single lens reflex cameras with differing lens mounts. If you are now using two different SLRs or if you someday replace your present camera with a camera of different make, you can still use your entire range of Vivitar T-4 Lenses by simply changing the automatic T-4 Adapter. These Vivitar T-4 Adapters are available for most 35mm SLR camera mounts and feature automatic diaphragm mechanisms and full meter coupling to behind-the-lens exposure controls of the camera.

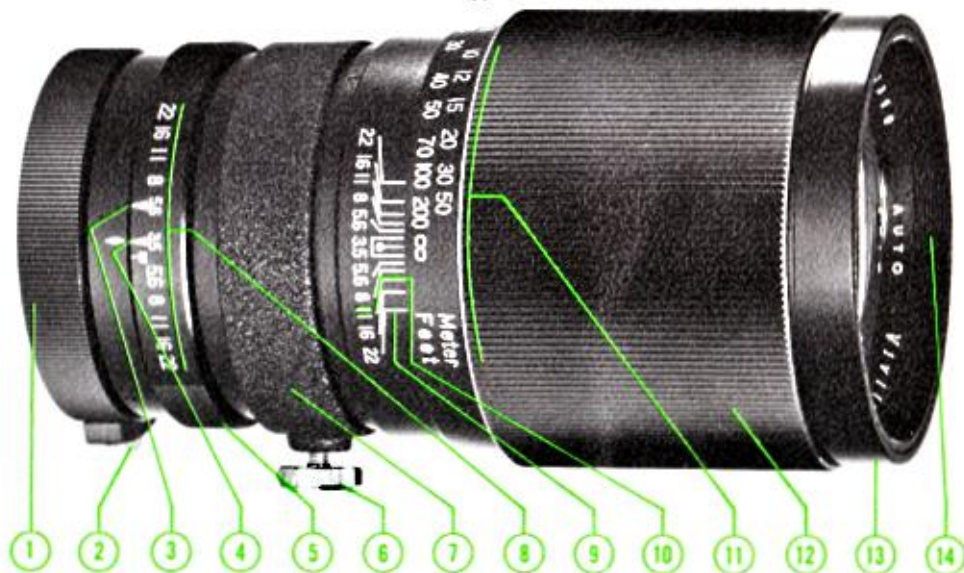
Attached without the need for any tools, bands, rings or special couplings, the unique breech-lock design of a Vivitar T-4 Adapter when mounted on a T-4 Lens results in a combination that has the integrity of your camera's normal lens. Accidental separation or loosening through wear is virtually impossible.



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GETTING ACQUAINTED WITH YOUR LENS

The controls and features with their locations are shown below in a typical Vivitar T-4 Lens.



- | | | | |
|---|-------------------------|----|---------------------------------|
| 1 | LENS LOCK RING | 8 | APERTURE SCALE |
| 2 | ADAPTER RELEASE BUTTON | 9 | DEPTH OF FIELD SCALE |
| 3 | ORANGE TRIANGLE | 10 | INFRARED INDEX MARK (see below) |
| 4 | GREEN TRIANGLE | 11 | DISTANCE SCALES (see below) |
| 5 | APERTURE RING | 12 | FOCUSING RING |
| 6 | TRIPOD SOCKET SET SCREW | 13 | RETRACTABLE LENS HOOD |
| 7 | TRIPOD SOCKET COLLAR | 14 | FILTER THREAD |

DEPTH-OF-FIELD SCALE

This scale shows you the range of subjects which will appear in sharp focus on the film. This range will vary with the aperture selected, and is indicated by the reference marks bordering the distance index mark. The smaller the aperture (numerically higher), the deeper the depth-of-field, and vice versa.

INFRARED INDEX MARKS

The red marking on the right half of the depth of field scale is a focusing reference when using infrared film. Focus normally first, read the distance as indicated opposite the distance index mark, then turn the lens barrel until the distance reading is opposite the Infrared Index Mark. The lens is now focused for infrared photography.

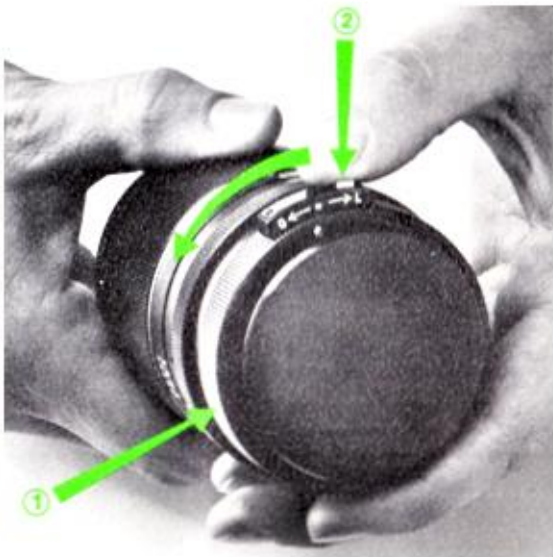
DISTANCE SCALE

This scale, in both feet and meters, gives the distance between the subject in focus and the film surface in your camera.

With just a little practice you will be able to install an adapter on your lens in less than 10 seconds, but on this first occasion proceed slowly, follow directions carefully and **DO NOT FORCE ANYTHING**.

- A.** First, press the adapter release button ② and rotate the lock ring ① toward the "O" position (counterclockwise) as far as it will go.
- B.** Remove the rear plastic protective cap simply by lifting it off.

The lens is now ready for installation of the adapter designed for your camera.



ATTACHING THE ADAPTER TO YOUR LENS

A. Set your lens aperture ring to the proper triangle.

Mamiya/Sekor-Pentax, Nikon, Canon, Miranda, Petri FT and Exakta mounts — use ORANGE triangle ③ as shown.

Minolta, Topcon and Leicaflex SL mounts — use GREEN triangle ④ as shown.

B. Adjust meter coupling pin (for Nikon, Miranda, Minolta, Topcon and Leicaflex SL adapters only).

Set the meter coupling pin on your adapter opposite the "Set Pin Here" indicator.

You will feel a definite click when the coupling pin is in its proper position.



Vivitarautomatic T4
Lens System

ATTACHING THE ADAPTER TO YOUR LENS

C. Align Silver Arrows.

With the lens lock ring turned fully to the "O" position, match the silver arrows on both the lens and the adapter so that one is directly over the other.

Carefully lower the adapter onto the lens. A gentle movement of the adapter might be necessary to be sure of a proper fit.



D. Secure Lens Lock Ring.

With the adapter now in its proper position, press down on it slightly to hold it in place and rotate the lens lock ring firmly toward the "L" position (clock-wise) until it locks into place.

The adapter is now fully locked and your lens is ready to mount on your camera.



Vivitar

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Lens system

REMOVING THE ADAPTER FROM YOUR LENS

- A.** Press the adapter release button and firmly rotate the lens lock ring toward the "O" position (counterclockwise) as far as it will go.
- B.** Remove the adapter simply by lifting it off.

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KEEPING YOUR LENS IN TOP CONDITION

- A.** Keep your lens dust-free by making sure both front and rear lens caps are on when it is not in use.
- B.** Clean your lens by blowing it with an air brush or wipe it lightly with a camel hair brush or lens tissue. In extreme cases use a soft cotton cloth moistened with denatured alcohol. Never rub the lens surface or use any abrasive material.
- C.** Always store your lens in a cool, dry place. It's a good idea to pack it with silica gel just to be sure.

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SPECIFICATIONS

There is a lens in the Vivitar T-4 Automatic Lens System to meet your every photographic need. The pictures below show the effects of changing focal lengths when shooting the same subject.



21mm f3.8

9 elements in 8 groups;
90° angle of view;
f3.8 to f16.
Minimum focus: 15 inches.
Accessory size: 72mm.



28mm f2.8

7 elements in 6 groups;
74° angle of view;
f2.8 to f16.
Minimum focus: 12 inches.
Accessory size: 58mm.



135mm f2.8

4 elements in 4 groups;
18° angle of view;
f2.8 to f22.
Minimum focus: 6 feet.
Accessory size: 55mm.
Built-in retractable
lens hood.



200mm f3.5

4 elements in 4 groups;
12° angle of view;
f3.5 to f22.
Minimum focus: 10 feet.
Accessory size: 67mm.
Tripod socket.
Built-in retractable
lens hood.



300mm f5.5

5 elements in 3 groups;
8° angle of view;
f5.5 to f22.
Minimum focus: 20 feet.
Accessory size: 62mm.
Tripod socket.
Built-in retractable
lens hood.

**35mm f2.8**

6 elements in 5 groups;
63° angle of view;
f2.8 to f16.
Minimum focus: 18 inches.
Accessory size: 49mm.

**400mm f6.3**

4 elements in 3 groups;
6° angle of view;
f6.3 to f22.
Minimum focus: 24 feet.
Accessory size: 72mm.
Tripod socket.
Built-in retractable
lens hood.

**105mm f2.8**

4 elements in 4 groups;
23° angle of view;
f2.8 to f22.
Minimum focus: 5 feet.
Accessory size: 49mm.
Built-in retractable
lens hood.

**55mm-135mm f3.5 Zoom**

13 elements in 9 groups;
43° angle of view
at 55mm,
18° angle of view
at 135mm;
f3.5 to f22.
Minimum focus: 5 feet.
Accessory size: 62mm.
Built-in retractable
lens hood.

**135mm f3.5**

4 elements in 4 groups;
18° angle of view;
f3.5 to f22.
Minimum focus: 6 feet.
Accessory size: 49mm.
Built-in retractable
lens hood.

**90mm-230mm f4.5 Zoom**

11 elements in 7 groups;
28° angle of view
at 90mm,
11° angle of view
at 230mm;
f4.5 to f22.
Minimum focus: 8 feet.
Accessory size: 58mm.
Tripod socket.
Built-in retractable
lens hood.

Vivitar

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