

650-1300mm Telephoto Zoom Lens
INSTRUCTION MANUAL

V-650-1300

Vivitar
SERIES 1

Limited Five Year Warranty

Vivitar warrants this quality product to be free of defects in material and workmanship for a period of five years from the date of purchase. During the period, Vivitar will repair or replace the product at no charge for parts or labor.

TIME PERIOD OF THIS WARRANTY

The time period of this warranty starts from the date of the original purchase and expires on the fifth anniversary date of purchase.

WHAT IS NOT COVERED BY THIS WARRANTY

No express or implied warranty is made for any defects in this product which result from accident, abuse, misuse, failure to operate the product in accordance with relevant instructions, neglect, immersion in or exposure to chemicals or liquids, extremes of climate, fungus, excessive wear and tear/cosmetic damage and defects resulting from other extraneous causes such as unauthorised disassembly, repair or modification.

This warranty shall not extend to any incidental or consequential damages arising from the purchase, use or inability to use this product even if Vivitar has been advised of such damages. The laws of some countries and some States thereof do not allow the limitation of incidental or consequential damages, so the above limitation or exclusion may apply to you.

WHAT TO DO WHEN SERVICE IS NEEDED

STEP 1. Package the product and relevant accessories carefully, using ample padding materials and a sturdy mailing container to prevent damage in transit.

STEP 2. Include in package:

- a) Evidence of date and place of original purchase (for example, a copy of your sales receipt).
- b) Detailed description of your problem.
- c) When possible, a sample evidencing the problem.

STEP 3. Return item (insured) to: (in the U.S.):

Vivitar
Attn: Technical Support
195 Carter Drive
Edison NJ 08817

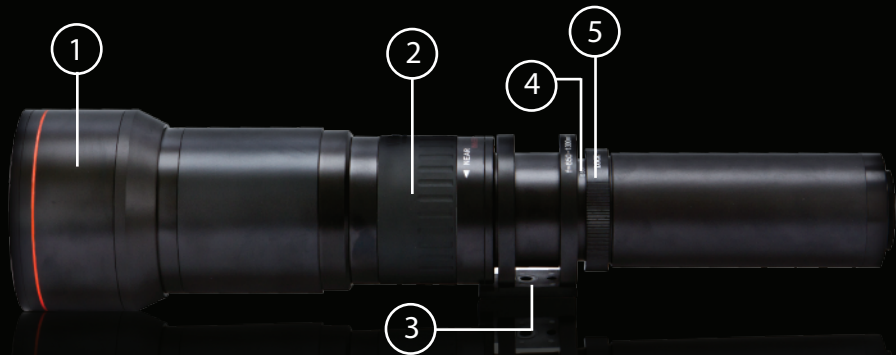
(in the U.K.)

Sakar UK
2D Siskin Parkway East
CV3 4PE, UK

When service is complete, the product will be returned to you shipping prepaid. In the event the product is deemed to be not faulty or the defect is a result in wear and tear, Vivitar may levy a handling charge for the return of the product. This warranty gives you specific legal rights. You may also have other rights which vary from country and State to State thereof. For more information visit our website www.vivitar.com

TECHNICAL SUPPORT

For technical support issues please visit our website at www.vivitar.com. You can find manuals, software and FAQ's at the website. Can't find what you are looking for? E-mail us at support@vivitar.com and one of our technical support team members will answer your questions. For phone support in the US please call 1-800-592-9541, in the UK call 0800 917 4831. If you would like to call from anywhere else, please visit www.vivitar.com for your local toll free number.



650-1300mm Mirror Lens

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|---------------------|---|
| 1. Hood (fixed) | 4. Index for Distance and Diaphragm Scale |
| 2. Focusing Ring | 5. Zoom Lock Ring |
| 3. Tripod Lock Bolt | |

Specifications

Filter Size	: 95mm
F/Stop Range	: F8-16 (only one effective aperture at any focal length)
Minimum Focus Distance	: 16 feet (4.9 m)
Zoom/Focus Control	: Two-touch
Angle of View	: 3.8-2 Degrees
Groups/Elements	: 5/8
Length	: 23.3" (592 mm) @ 1300mm focal length
Maximum Diameter	: 4.1" (105 mm)
Weight	: 4.4 lb (2kg)

Your 650-1300mm preset lens incorporates not only computerized optical design but also the latest in optical multi-coating techniques. The process of multi-coating assures virtually flare free photographs even under adverse lighting conditions resulting in crisp, high contrast pictures. Preset lenses are designed to retain a full range of exposure, automation and metering capabilities of the camera on which they are mounted.

MOUNTING THE LENS

Your preset lens utilizes a universal mounting ring (t-mount) which allows your lens to fit practically all SLR cameras manufactured since 1960. Simply attach the specific t-mount for your model camera to the preset lens and then mount it to the body of your camera in the same way as you would with the lens included with your camera. After mounting your t-mount lens adapter to the lens, you may have to adjust the t-mounts so that the top of the lens faces upwards. If this is necessary, loosen the small screws so that you can make the needed adjustments.

SETTING THE STOP

Your 650-1300 lens has a changeable F-stop according to the focal length. (Non-auto-Iris lens) F-stop according to the focal length is marked on the lens barrel. (Refer to the index for the distance and diaphragm scale)

FOCUSING THE LENS

In order to get a sharp and clear image, look through the viewfinder of your camera, and then rotate the focus ring which is marked "FAR <-> NEAR" until you can see a clear image through the viewfinder.

USING THE VIEWFINDER WITH THE TELEPHOTO LENSES

The effectiveness of different types of focusing screens varies with the focal length and maximum aperture of the lens. The range finder of microgrid prisms built into the ground glass do not work as well with longer focal length lenses as they do with the normal camera lens and most wide angle lenses, and may partially or full blackout the center focusing spot. When such a condition exists, focusing is best done on the ground glass portion of the viewing screen. On some SLR cameras, long telephoto lenses appear to produce a cutoff image in the upper corners or along the entire upper edge of the viewfinder. Such viewing cutoff is actually caused by the size of the camera's mirror which is more adequate for the shorter focal length lenses only. The exposed slide or negative will be unaffected by this viewing deficiency.

PROPER CARE OF YOUR LENS

Your lens should always be capped to protect it when not in use. Like other precision optics it should never be simply wiped with tissues since this may damage the surface with dust on the lens. Use a soft brush to clean the lens surface or polish very gently in a circular motion with high quality, moist lens tissue. Use lens cleaning fluid to moisten the tissue sparingly and only when necessary by applying one or two drops on the lens tissue. After the lens surface has dried, clean the lens with a dry tissue and blow away other particles with a soft brush.

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