

TAMRON

35-135mm F/3.5-4.5

Model 40A



OWNER'S MANUAL



Thank you for selecting the new Tamron 35-135mm F/3.5-4.5 zoom lens as the latest addition to your photographic equipment. Before using your new lens, please read the contents of this Owner's Manual thoroughly to become fully acquainted with the proper techniques that will give you the best results possible.

With proper handling and care your Tamron lens will give you many years of beautiful and exciting pictures.

1. SPECIFICATIONS

Focal Length	35-135mm
Aperture Range	F3.5-4.5-32. AE (w/half stops)
Lens Construction	13 groups in 15 elements
Coating	BBAR multiple layer coating
Angle of View	63° - 18°
Minimum focus from film plane	1.5m (0.28m at f=35mm, 1.0m at f=135mm)
Max. Reproduction Ratio	1 : 4 (f=35mm)
Zooming System	Single Action Direct Zooming
Lens Accessory Size	58mm
Overall Length	100.5mm (w/Mount for Nikon) (3.9 in.)
Max. Diameter	65mm (2.6 in.)
Weight	547 grams (19.3 oz.)
Lens Hood	Bayonet type

Specifications subject to change without notice.

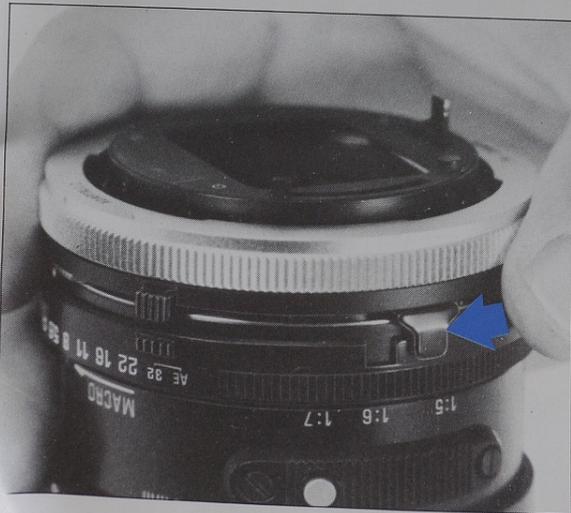
2. FITTING/REMOVING THE ADAPTALL-2 MOUNT AND MOUNTING THE LENS TO YOUR CAMERA



This lens employs the Tamron Adaptall Interchangeable Mount system. The lens can be fitted to most of the SLR cameras on the market. Please read the instruction manual enclosed with the Adaptall Interchangeable Mount, so that the proper fitting is made.

1. Fitting the Mount to Your Lens

- (1) Align the green dot on the bayonet of the custom mount with the matching green dot on the lens barrel and turn the mount clockwise for approximately 2cm until the mount is locked into the proper position.

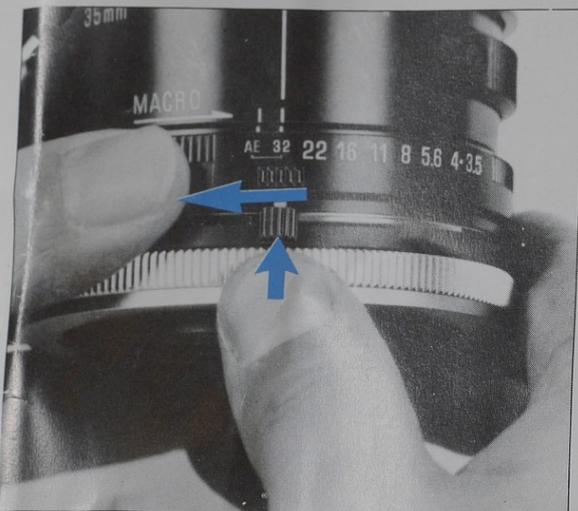


- (2) The custom mounts for cameras featuring TTL light-metering, AE and automatic diaphragm control, are provided with a meter coupling lever which activates the control ring. After fitting the custom mount, move the meter coupling lever so that it engages in the slot provided on the lens, and the exposure control mechanism of the lens will crosscouple to the camera's system.

NOTE: Some mounts have two coupling levers on both sides, so when fitting the mount of the lens, engage the two coupling levers in the corresponding slots on both sides of the lens.

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FITTING/REMOVING THE ADAPTALL-2 MOUNT AND MOUNTING THE LENS TO YOUR CAMERA



2. Removing the Mount from Your Lens

- (1) Before removing the custom mount, be sure to move the aperture ring to the maximum opening. When the aperture ring is set at the AE position, depress the AE lock button to release the AE setting and then move the aperture control ring to the maximum opening.
- (2) An L-shaped mount release lever is provided directly opposite the aperture indicator which, when depressed, will release the mount. Therefore, while keeping the L-shaped mount release lever depressed, turn the custom mount counter-clockwise all the way until it stops and then lift the mount off the lens.

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3. Mounting the Lens to Your Camera

Your Tamron lens with the Adaptall custom mount can be fitted to your camera in the same manner as the camera manufacturer's lenses. When fitting the lens and adapter onto a camera, be sure to move the aperture control ring of the lens to the maximum opening.

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4. TAMRON ADAPTALL CUSTOM MOUNTS

Mount	Mount Type	SP/ Adaptall-2 lenses
For Canon	Bayonet type	○
For Minolta MD	Bayonet type	○
For Konica AR	Bayonet type	○*
For Contax/Yashica	Bayonet type	○
For Olympus	Bayonet type	○
For Pentax K	Bayonet type	○
For Pentax ES	Screw-in type	○
For Pentax Universal	Screw-in type	○
For Nikon AI/E	Bayonet type	○
For Nikon AI	Bayonet type	○▲
For Fujica AX	Bayonet type	○
For Fujica ST	Screw-in type	○
For Mamiya	Bayonet type	○
For Rollei	Bayonet type	○
For Topcon	Bayonet type	○
For Praktica-B	Bayonet type	○
For Praktica-LLC	Screw-in type	○
For "C" mount for CCTV/VTR cameras and 16mm movie cameras		○
For "MS" mount for CCTV/VTR cameras		○

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* Permits use in manual mode but not in shutter speed priority mode.

▲ Program AE system and AE system of shutter speed priority will not work when used with Pentax Super-A.

Couples to standard program shutter mode when used with Nikon FA. Other functions are same as those of AI lenses.

5. OPERATING INSTRUCTIONS



(1) Focusing

This lens features a one-touch zooming system, which means you can focus and zoom with one control ring. Focus by rotating the operating ring until the subject appears sharp in the viewfinder. Focusing is continuous from infinity to 1.5m throughout the entire focal length range. It is easier to focus at the telephoto end ($f=135\text{mm}$) of the zoom range due to the shallower depth of field. For closer focusing, please refer to MACRO OPERATION.

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OPERATING INSTRUCTIONS



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(2) Zooming

The focal length can be changed by pulling or pushing the operating ring, steplessly increasing or decreasing the size of the subject. Select the desired subject size and perspective while looking through the viewfinder.

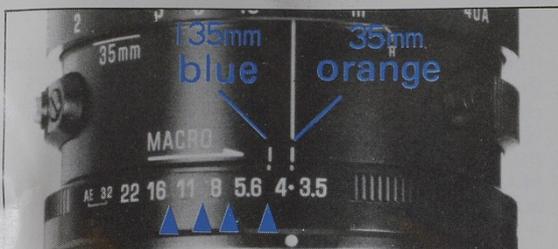


(3) Macro Operation

Focusing is continuous from infinity to 1.5 meters throughout the focal length range. For focusing closer than 1.5m (4.9 feet), turn the operating ring to 1.5m minimum object distance setting at first, then turn the lens barrel to the direction of the MACRO and arrow mark while pushing the macro button on the barrel. With this operation, you can focus continuously down to 0.28m (11 in.) at the wideangle setting (f=35mm) and to 1m (3.3 ft.) at the telephoto end (f=135mm). The maximum reproduction ratios marked on the lens barrel are for the 35mm setting. Minute adjustment of focusing can be done by turning the operating ring.

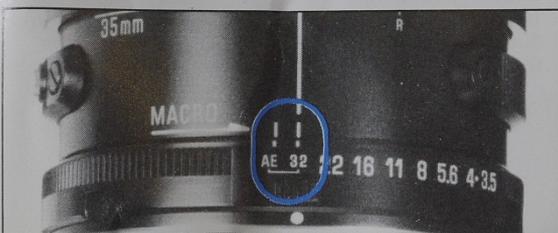
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OPERATING INSTRUCTIONS



(4) Aperture Control

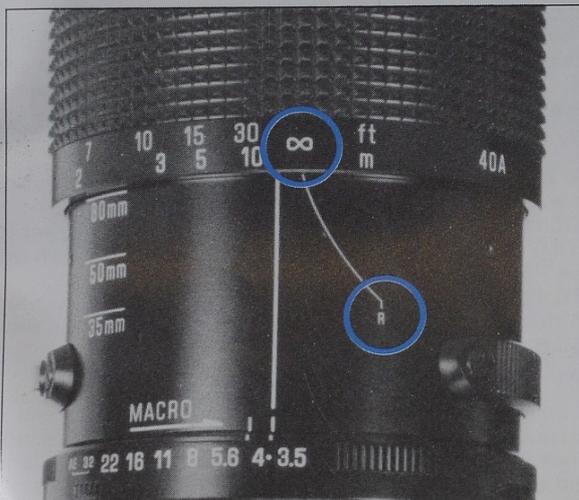
Rotate the aperture control ring and set the required aperture against the index line. In fact, there are two aperture indexes, because the maximum aperture of this lens changes at the wideangle and telephoto ends. Set the required f-stop to the orange line at the wideangle position (f=35mm) or to the blue line at the telephoto position (f=135mm). Intermediate click stops are provided from F/4 to F/16 for precise exposure control.



(5) AE Setting

When using your lens on cameras which incorporate a shutter priority automatic mode, turn the aperture control ring on your lens to the AE position which also serves F/32 when the lens is used on other cameras.

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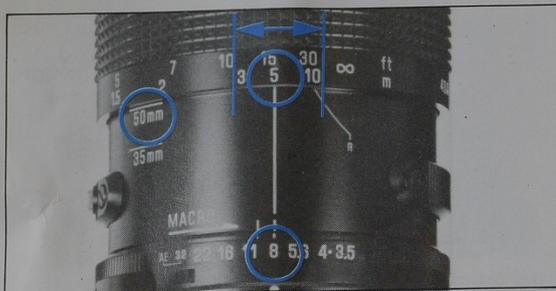


(6) Infra-Red Index

Since the focal point shifts in infra-red photography, it is necessary to correct the focus. Focus in the normal manner, set an infra-red filter and shift the indicated distance to the red line marked "R".

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OPERATING INSTRUCTIONS



(7) Checking Depth of Field

The depth of field can be checked using the depth of field preview button provided on your camera. (In case of Olympus cameras, the mount has a built-in preview lever.)

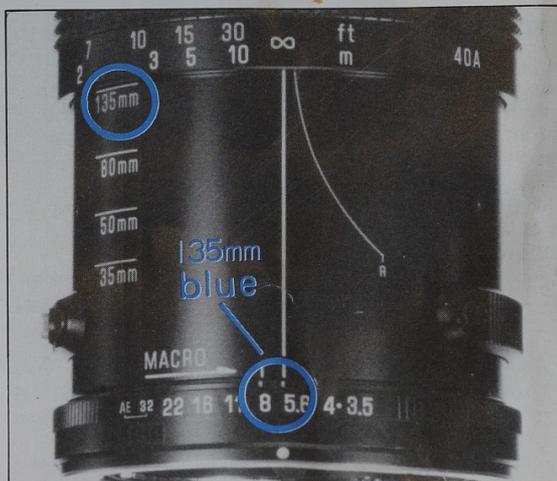
Depth of Field Tables

To ascertain the depth of field for example when you shoot at a distance of 5 meter (16.4 feet) with 35–135mm lens whose aperture and focal length are set to F/5.6 and f=135mm, read where the figures shown on the F/5.6 vertical row intersect with the 5 meters (16.4 feet) value shown on the horizontal distance column. In this case, the depth of field is from 5.7m to 5.26m (15.6 to 17.3 feet).

(8) Lens Hood

A bayonet type lens hood is available as an optional extra. The use of this lens hood is always recommended since it prevents unwanted light from striking the lens and causing image degrading flare, which results in poor print quality.

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OPERATING INSTRUCTIONS

(9) Notes: Shooting with an electronic flash

This lens features a variable aperture design, with the maximum aperture changing about a half stop between the wideangle and telephoto ends of the zoom range (F/3.5–4.5). When you shoot in the normal mode using a TTL light metering mode, the aperture will automatically be adjusted to the amount of the incident light. When shooting with an electronic flash, adjust the aperture by following the procedure below.

1. Set the f-stop (obtained from the guide number of the flash) to the orange aperture index line at the 35mm wideangle end or the blue aperture index line at the 135mm telephoto end.
2. When you shoot at an intermediate focal length setting or while zooming, set the f-stop obtained from the guide number in the middle of the two index lines.
3. When shooting with the type of auto flash that

- controls the f-stop with a signal from the camera, use the flash in a manual mode.
4. When shooting with cameras that control the exposure during exposure itself, no adjustment is needed.

PP 16-21 were just depth of field tables and lens cleaning instructions.

Images taken with Elicar 90mm f2.5 macro lens on Lumix G1 my Marcus Brown 1/2014.

Contact: marcusBMG on Pentax forums:

<http://www.pentaxforums.com/forums/>