TAMRON International Service

Should any TAMRON product require service, TAMRON'S international service is available in over 48 nations world wide.

TAMRON CO.,LTD.

Manufacturers of lenses for photographic, industrial, laboratory, video, and scientific applications.

Tokyo Main Office

Tamron Bldg., 17-11, 7-chome, Takinogawa, Kita-ku, Tokyo, Japan

Tel: (03) 916-0131 Telex: J23977 TAMRON Cable: "TAMRONTAISEI TOKYO"

805EM058 Printed in Japan



Model OSA

TAMRON

ADAPTALL-2

35-70mm F3.5-4.5 CF MACRO

COMPACT ZOOM

OWNER'S MANUAL



ADAPTALL-2 MOUNT SYSTEM



Thank you for selecting the new Tamron Adaptall-2 35-70 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 Adaptall-2 lens will give you many years of beautiful and exciting pictures.

CONTENTS

| 1. | NAMES OF PARTS |
|-----|---|
| 2. | SPECIFICATION |
| 3 | FEATURES |
| 4 | FITTING AND REMOVING THE ADAPTALL CUSTOM MOUNT |
| | |
| ٥. | |
| | |
| | (2) Zooming |
| | (3) Aperture Control |
| | (4) Infra-red Index |
| | (5) Lens Hood |
| | (6) Magnification Scales for Macro Photography |
| | (7) Checking Depth-of-Field |
| | (8) Depth-of-Field Tables |
| 6. | DEPTH OF FIELD TABLES |
| 7 | |
| 8 | |
| a. | SPECIFICATIONS OF TAMRON ADAPTALL-2 SERIES LENSES |
| 10 | |
| , - | |
| | 0, 201, 101, 101, 101, 101, 101, 101, 10 |
| 12. | CARING FOR YOUR NEW LENS |
| | |

1. NAMES OF PARTS



2. SPECIFICATION

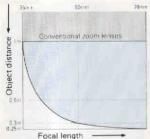
| Focal length | 35-70mm |
|-------------------------------------|--|
| Aperture range | f/3.5-4.5 — 32, AE (w/half stops) |
| Lens construction (Groups/Elements) | 7/7 |
| Coating | BBAR multiple layer coating |
| Angle of View | 64° – 34° |
| Minimum focus from film plane | 1.0m (39.4 in.) at f = 35mm 0.25m (9.8 in.) at f = 70mm |
| Focusing ring rotation | 65° 38′ at f = 35mm 320° 19′ at f = 70mm |
| Max. Magnification | 1:2.8 (f = 70mm) |
| Zooming system | Rotation system |
| Lens accessory size | 58mm |
| Length (at inf.) | 61.0mm (2,4 in.) (w/Nikon mount) |
| Diameter | 64.5mm (2.5 in.) |
| Weight | 322 grams (11.4 oz.) |
| Lens hood | Screw-in type |

3 FEATURES

(1) Minimum Object Distance (M.O.D.) Selector System

This system makes possible the closest possible minimum object distance at all focal lengths in the zoom range (M.O.D. = Minimum Object Distance) by a new type of coupling between the zoom and focusing rings developed by Tamron, Conventional zoom lenses covering the wide-angle to standard range were limited to a minimum object distance of about 1.0 meter at either wide-angle or telephoto setting. With this new lens, however, the minimum object distance is 1.0 meter at the wide-angle end but only 0.25 meter (9.8 in.) at the telephoto position for a maximum magnification ratio of 1:2.8 at f = 70 mm.

Relationship between focal length and minimum object distance with the M.O.D. Selector System.



For example, when the lens is focused at the closest possible distance of 0.25m (9.8 in.), the focal length is set to 70mm. This system also makes possible macro photography at a magnification ratio of 1:2.8 at the 70mm focal length posi-

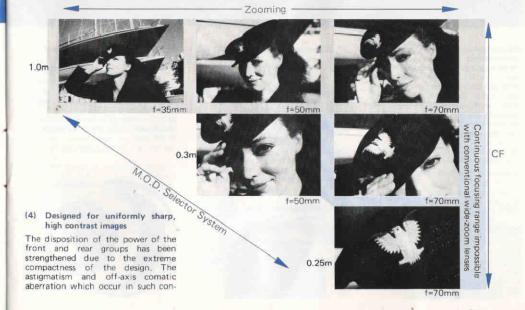
tion.

(2) Continuous Focusing (CF)
Continuous focusing is possible from

infinity to the minimum possible object distance of 0.25m (9.8 in.) in the macro range. There is no need for a macro button as with previous macro lenses. When focusing with this lens at the focal length of 35mm, the M.O.D. Selector System couples the zoom ring when the minimum object distance becomes less than that possible at 35mm and shifts to a focal length at which that minimum object distance is possible.

(3) Versatile zoom lens combining the functions of four different lenses

The Adaptall-2 35-70mm is a versatile zoom lens combining the functions of four different lenses (a 35mm wide-angle suitable for a wide range of applications, 50mm standard, a medium telephoto of 70mm suitable for portraiture and a macro lens providing a maximum magnification ratio of 1:2.8) in a compact package.



figurations have been completely compensated by using a new type concave element in the front group and a convex element made of glass with a high refractive index in the rear group. By the employment of these sophisticated technology for reducing aberrations to the absolute minimum, uniformly sharp and high contrast images can be obtained.

(5) Lightweight, Comapct Zoom for Easy Portability

Extremely light and compact with an overall length of 61mm (2.4 in.) and a maximum diameter of 64.5mm (2.5 in.) and total weight of 322 grams (11.4 oz.).

(6) Fast Enough

Now that 400 ASA color films are available, the maximum aperture of f/3.5 is fast enough since it is equivalent to a standard lens with f/1.4 maximum aperture at the age of ASA 100 films.

(7) Constant F/Number

The constant f/number feature means that f-values are exactly the same from infinity to the macro range, Exposures are correct without any need for compensation even for electronic flash photography.

(8) Minimum Aperture of F/32 for Greater Depth of Field

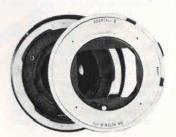
The minimum aperture of f/32 enables a wide range of expression in either the wide-angle, standard or macro range. Also highly useful with ASA400 films in bright lighting

(9) Intermediate Click Stops on Aperture Ring Enables Precise Exposure Control

Intermediate click stops are provided in the aperture ring from f/3.5 to f/16 to enable a wide range of expression through precise exposure con-

(10) Adaptall/Adaptall-2 Interchangeable Mount System

This lens uses the Adaptall/Adaptall-2 mount system so use is possible with any popular 35mm camera. With the Adaptall-2 mount system, one mount is sufficient even with shutter-speed priority AE cameras, regardless of the maximum aperture of the lens.



(11) Expanded vistas of photography with the SP flat-field 2X tele-

Tamron's SP 2X tele-converter is a high performance converter specially designed for use with the telephoto and zodm lenses in the SP and Adaptall-2 series. Combining the tele-converter with your Adaptall-2 35-70mm zoom lens expands your range of photography in the following ways:

- a) Macro range is expanded from a ratio of 1:2.8 to 1:1.4.(f = 70mm)
- b) Focal length is doubled, giving a total range of focal length from 35mm to 140mm.
- An effective aperture of f/64 is made available for greater depth of field and for special effects.

4. FITTING AND REMOVING THE ADAPTALL CUSTOM MOUNT

Aligh 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.

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 was so that it engages in the slot



provided on the lens, and the exposue control mechanism of the lens will crosscouple to the camera's system.

Note: The method of fitting custom mounts for Canon FD, Minolta MD and Nikon AI is the same as described in Steps (1) and (2) above. However, the custom mounts for Canon FD, Minolta MD and Nikon AI each have two coupling levers — Therefore, when the mount is fitted, engage the two coupling levers in the corresponding slots — on both sides of the lens.



FITTING AND REMOVING THE ADAPTALL CUSTOM MOUNT

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 Canon FTb or AT-1 camera, be sure to move the aperture ring to a position other than AE.

Removing the custom mount: Before removing the custom mount, be sure to move the aperture ring to the maximum opening. (However, with the Canon or Konica mount aper



ture ring is set at the AE position. Depress the AE lock button to release the AE setting and then move the aperture ring to the maximum opening.)

An L-shaped mount release lever is provided directly opposite the aperture indicator window which, when depressed, releases the mount. Therefore, while keeping the L-shaped mount release lever depressed, turn the custom mount counterclockwise all the way until it stops and then lift the mount off the lens.



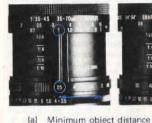
5. OPERATING

(1) Focusing

Focus by rotating the focusing ring until the subject appears sharp in the viewfinder. Focusing is continuous from infinity to the macro range with its minimum object distance of 0.25m (9.8 in.)

Due to the use of the M.O.D. Selector System, however, the zoom ring couples when the minimum object distance for any zoom focal length is exceeded and sets the lens to a focal length at which focusing is possible at that distance.

INSTRUCTIONS



70mm)

(zooming is possible





is 1m at the 35mm focal length (zooming is

possible from 35mm to (b) When the focusing ring is moved to the 0.3m position (11.8 in.), the zoom ring starts to move

from 50mm to 70mm with the focusing ring at 0.3m).

(c) At the minimum object distance of 0.25m (9.8 in.), the zoom control ring is set to f=70mm.

Note: The relationship between the focusing and zoom rings.

As described above, this zoom lens provides a minimum object distance (M.O.D.) of 1m from 35mm to 70mm, a M.O.D. of 0.3m (11.8 in.) from 50mm to 70mm and a M.O.D. of 0.25m (9.8 in.) at 70mm

For example, when the lens is set at the 35mm position the zoom ring will shift to the 70mm position if the lens is focused at 0.25m (9.8 in.) In this case, the zoom ring cannot be moved beyond the 70mm position toward the wide-angle range.

Thus, when using a short focal length it is necessary to move the focusing ring to a distance farther away than the subject. In other words, if we reverse the relationship between focal legth and minimum object distance (M.O.D.) given above, the usable focal length range will be 70mm at a distance of 0.25m (9.8) in.). 35-70mm at a distance of 1m (39 4 in.)

OPERATING INSTRUCTIONS

(2)- Zooming

(a) The focal length is increased steplessly when the zoom ring is rotated to the left, increasing the apparent subject size. Select the desired subject size, focus effect and perspective while looking through the viewfinder.

116

22 18 11 8 56 4 - 35

b) When the zoom ring is set at the 35mm wide-angle position, zooming is unrestricted at any minimum object distance above 1m (39.4 in.). But when the lens is focused closer than 1m, the M.O.D. Selector System couples the zoom ring to the focusing ring to set a longer focal length at which that minimum object distance is possible. This also serves to prevent the distortion which otherwise would appear when close-ups are taken with a wide-angle lens.

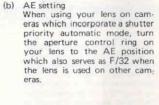


(3) Aperture Control

(a) Set the required aperture by rotating the aperture ring until the desired f-stop is aligned with the index line. Aligh the desired f-stop to the blue index line at the wide-angle position (f=35mm) and to the yellow index line at the telephoto position (f=70mm). Intermediate click stops are provided from f/3.5 to f/16 for precise exposure control.



Note: When setting a desired f-stop by using the exposure meter built in your camera, be sure to align the aperture scale to the blue index line provided for the wide-angle photography even when taking photographs at the telephoto position.



(4) Infra-red Indices

Since the focal point shifts in infrared photography, it is necessary to correct the focus using the focusing scale graduations. After focusing in the normal manner, shift the indicated distance to the blue index mark when using the 35mm position. When using the 70mm position, shift the indicated distance to the right to the yellow index mark.









OPERATING INSTRUCTIONS

(5) Lens Hood

A screw-in type lens hood is available. The lens hood is always advantageous since it prevents unwanted light from striking the lens causing image degrading flare giving poor point quality.

(6) Magnification Scale for Macro Photography

Macro magnification ratios (at f=70mm) changing with variations in object distance are shown to the left of the index mark for the distance/aperture scales. It is possible to focus by aligning with the macro magnification ratio scale. On the right side of the index mark for the focusing scale is found the magnification scale for when the SP 2X tele-converter is used.



(7) Checking Depth-of-Field

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

(8) Depth-of-Field Tables

To ascertain the depth-of-field for example when you shoot at a distance of 1 meter (3.3 ft.) with the 35-70mm lens whose aperture and focal length are set to F/8 and f=35mm, read where the figures shown on the f/8 horizontal row intersect with the 1 meter (3.3 ft.) value shown on the vertical distance column. In this case, the depth-of-field is from 0.85 meters (2.8 feet) to 1.23 meters (4.0 ft.).

6. DEPTH OF FIELD TABLES

| Focal Length | Aperture Distance(m) | 3.5 | 4.0 | 4.5 | 5.6 | 8.0 | 11.0 | 16.0 | 22.0 | 32.0 |
|-----------------|-------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|--------------|
| | 1.00 | 0.93- | 0.92~ | 0.91~ | 0.89~ 1.15 | 0.85~ 1.22 | 0.80 | 0.74~ 1.62 | 0.68~ 2.13 | 0.59 4.82 |
| * | 1.50 | 1.33~ | 1.32- | 1.29- | 1.25~ | 1.17- | 1.08- | 0.97~ 3.71 | 0.86 - 8.87 | 0.73~ |
| | 2.00 | 1.71~ | 1.68~ | 1.64- 2.57 | 1.58- | 1.58~ 3.32 | 1.45~ 4.45 | 1.31- | 0.99 | 0.82~ |
| | 3.00 | 2.38- 4.07 | 2.33-4.24 | 2.25— 4.54 | 2.12- 5.20 | 1.89~ 7.64 | 1.67- | 1.40~ | 1.17~ | 0.93- |
| F = 35mm | 5.00 | 3.48~ 8.00 | 3.36~ 9.91 | 3.20~ | 2.95- 17.5 | 2.51~ | 2.13 | 1.70- | 1.37~ | 1.05~ |
| | 10.00 | 5.31~ 98.2 | 5.04- ∞ | 4.69~ ∞ | 4.15 | 3.33~ | 2.68- | 2.03~ | 1.58~ | 1.16~ |
| | 20.00 | 7.20 ~ | 6.71~ ∞ | 6.10~ | 5.22- ∞ | 3,98~ | 3.08- | 2.25~ | 1.71~ | 1.23- |
| | 00 | 11.1- | 9.98- | 8,65- | 6.95~ | 4.87~ | 3.54- | 2.44 | 1.78~ | 1.23~ |

DEPTH OF FIELD TABLES

| Focal Length | Aperture Distanceim) | 4.0 | 4.5 | 5.6 | 8.0 | 11.0 | 16.0 | 22.0 | 32.0 |
|--------------|-------------------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|
| | 0.30 | 0.30 | 0.30~ | 0.30- | 0.29~ | 0.29~ | 0.29~ | 0.28- | 0.28- |
| F = 50mm | 0.50 | 0.49~ 0.51 | 0.49~ 0.51 | 0.49~ 0.52 | 0.48~ | 0.47~ | 0.46~ 0.55 | 0.45~ | 0.43 |
| | 1.00 | 0.95~ | 0.95~ | 0.94~ | 0.91~ | 0.88~ | 0.84~ | 0.79- | 0.72~ |
| | 1.50 | 1.40 - | 1.38~ | 1.36 ~ 1.68 | 1.30- | 1.24~ | 1.15- | 1.06- | 0.94~ 4.14 |
| | 2.00 | 1.82~ 2.23 | 1.79~ | 1.75~ | 1.66~ 2.53 | 1.56~ 2.81 | 1.42~ 3.47 | 4.83 | 1.11 |
| | 3.00 | 2.60 - 3.55 | 2.55~ 3.65 | 2.46~ 3.86 | 2.28- 4.40 | 2.10~ 5.36 | 1.85~ 8.41 | 1.62~ 27.5 | 1.35~ |
| | 5.00 | 3.97~ 6.76 | 3.85~ 7.15 | 3.65~ 7.00 | 3.27- | 2.90~ | 2.44- | 2.06~ | 1.64∼ |
| | 10.00 | 6.58~ 21.1 | 6.25~ 25.4 | 5.73~ 40.8 | 4.85~ | 4.07~ ∞ | 3,22~ | 2.58- | 1.94~ |
| | 29.00 | 9.78~ | 9.07~ | 8.01~ co | 6.38~ | 5.10~ ∞ | 3.82~ | 2.95~ ∞ | 2.15~ |
| | 00 | 19.0∼ ∞ | 16.5~ ∞ | 13.2~ | 9.27~ | 6.74~ ∞ | 4.64~ ∞ | 3.38- | 2 32~ ∞ |

| Focal Length | Aperture Distance (m) | 4.5 | 5.6 | 8.0 | 11.0 | 16.0 | 22.0 | 32.0 |
|--------------|--------------------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|
| | 0.25 | 0.25 ~ 0.25 | 0.25~ 0.25 | 0.25~ 0.25 | 0.25 0.25 | 0.25 0.25 | 0.24- 0.26 | 0.24~ 0.26 |
| -1.1 | 0.30 | 0.30 | 0.30- 0.30 | 0.30 0.30 | 0.30- 0.30 | 0.29- | 0.29~ 0.31 | 0.29- |
| 1" | 0.50 | 0.49- | 0.49- | 0.49- 0.51 | 0.48- 0.52 | 0.48 | 0.47~ 0.54 | 0.46 0.55 |
| | 1.00 | 0.97 | 0.96~ 1.04 | 0.95~ 1.06 | 0.93- 1.08 | 0.91- | 0.87- | 0.83~ 1.27 |
| | 1.50 | 1.43- | 1.42- | 1.39- | 1.35- | 1.29 | 1.23~ | 1.14 - |
| F = 70mm | 2.00 | 1.88 | 1.86~ | 1.80~ | 1.74~ | 1.64-2.57 | 1.54~ 2.88 | 1.40- 3.62 |
| | 3.00 | 2.74~ 3.31 | 2.69~ 3.40 | 2.57- 3.60 | 2.44- 3.90 | 2,26— 4.52 | 2.07~ 5.60 | 1.81~ 9.35 |
| | 5.00 | 4.32- 5.94 | 4.18- 6.22 | 3.91~ 6.96 | 3.62 3.62 | 3.22- | 2.84- 22.7 | 2.38~ |
| | 10.00 | 7.60- | 7.18~ 16.6 | 6.41 ~ 23.0 | 5.65~ 45.4 | 4.73 | 3.95~ | 3.11~ |
| | 20.00 | 12.2- 55.2 | 11.2- 97.0 | 9.41~ | 7.86~ | 6.18~ | 4.92- | 3.68 |
| | 00 | 31.4- | 25.2~ | 17.7~ | 12.8~ | 8.83 | 6.42- | 4.42~ ∞ |

7. TAMRON ADAPTALL-2 SERIES LENSES



8. SPECIFICATIONS OF TAMRON ADAPTALL-2 SERIES LENSES

| Model No. | 018 | 028 | 03B | 048 | 20A | 03A | 04A | 05A | 06A | 07A | AQO |
|-----------------------------------|-------------------------|-----------------------------|--------------------|--------------------|--------------------|-----------------------|-----------------------|--------------------|--------------------|------------------------|----------------------|
| Focal Length/ Aperture | 24mm 1/2.5 | 28mm #2.5 | 135mm f/2.5 | 200mm f/3.5 | 70-150mm t/3.5 | 80-210mm t/3.8-4 | 75 250mm 1/3.8-4.5 | 70-350mm #4.5 | 200-500mm 1/6-9 | 28-50mm 1/3.5 - 4.5 | 35-70mm 1/3.5-4.5 |
| Construction (Groups/Elements) | 9/10 | 117 | 4/4 | 5/5 | 11/13 | 10/12 | 11/13 | 13/15 | 8/14 | 9/9 | 7/7 |
| Coating | | BBAR Multiple Layer Coating | | | | | | | | | |
| Angle of View | 84" | 75* | 18° | 12" | 34*-16* | 30"-113" | 32"-10" | 341-71 | 12"-5" | 75"-47" | 64*-34* |
| Minimum Focus from Film Plane | 0.25m (9.8 in.) | 0.25m (9.8 m.) | 1.2m (47.2 in.) | 1.7m (66.9 in.) | 0.7m (27.5 in.) | 0.9m (35.4 in.) | 1.2m (47.2 m.) | 2.5m (47.2 in.) | 3.0m (118 in.) | 0.25m (9.8 in.) | 0.25m (9.8 in.) |
| Focusing Method | Strain | nt helicoid-ex | tension system | n): | Rotation system | | | | | | |
| Max. Magnification | - 12 | 1.5.8 | 1:70 | 1:59 | 1:3 | 1.28 | 1:3.5 | - | 30 | 114 | 1:2.8 |
| Aperture Range | 25-22.AE | 25-32, AE | 2.5-32, AE | 3.5-32.AE | 3.5-32, AE | 38-32, AE | 3.8-32, AE | 45-32 AE | 69-32 | 3.5-32,AE | 3.5-32, AE |
| Accessory Size | 55mm | 49mm | 58mm | 58mm | 49mm | 58mm | 62mm | 82mm | 82mm | 58mm | 58mm |
| Length mm (in.) | 38 (1.5) | 33 (1.3) | 79.5 (3.1) | 108 (4.3) | 103.5 (4.1) | 146.5 (5.8) | 1785 (7.0) | 274 (10.8) | 370 (14.6) | 507(20) | 61.0mm(2.4) |
| Diameter mm (in.) | 64.5 (2.5) | 64.5 (2.5) | 64 5 (2.5) | 68 (2.7) | 64.5 (2.5) | 64.5 (2.5) | 72 (2.8) | 90 (3.5) | 90 (3.5) | 64.7 (2.5) | 64.5mm(2.5) |
| Weight gram (oz.) | 230 (8.1) | 180 (6.3) | 410 (14.5) | 540 (19.0) | 459g (16.2) | 610 (21.5) | 870 (30.7) | 2170.(76.5) | 2770 7.7) | 297 (10.5) | 322 (114) |
| Lens Hood | od Screw-in Optional | | | | | Builf-in, retractable | | | | | |

9. TAMRON SP SERIES LENSES



10. SPECIFICATIONS OF TAMRON SP SERIES LENSES

| Model No. Specifications | 52A | 558 | 528 | 548 | OIF | 518 | DIA | 51A | | | | |
|----------------------------------|--|--|--|---|--|---|--|---|--|--|--|--|
| Forai Length Aperture | 70=210mm F/3:5-4 | 500 nm F/8 | 90mm F/2-5 | 300mm F/5.6 | 2X the focal length of master lens | 17mm F73.5 | 35-80mm F/2.8-2.8 | 70~150mm F/2.8 | | | | |
| Angle of View | 34" 11" | 5" | 27" | 8" | - | 104" | 64" 30" | 34" 16" | | | | |
| Construction | 16 elements in 15 groups | 7 etements in 4-proups | B elements in 6 groups | 5 elements in 5 groups | 6 elements in 5 groups | 12 elements in 10 groups | 9 elements in 8 groups | 14 elements in 10 groups | | | | |
| Coating | BBAR and green multiple layer coating | | BBAIT multiplie layer coating | | | | | | | | | |
| Minimum Focus from Film Plane | 0.75m (30 inches) | 1.7m (66.9 inches) | 0.30m (16.4 inches) | 1.4m (56.1 inches) | Same as that of master lens | 0.25m (0.8 mches) | 6 27m (10 6 inches) | 0.98m (inches) | | | | |
| Max. Magnification Ratio | 1.2 | 1.3 | 1 2 | 1033 | 2X the magnification ratio of master lens | - | 1 : 2.5 | 1:40 | | | | |
| Focusing Ring Rotation | #-2m 72° 44° 2m-0.75m 224°32° (297° 16°) | +-4m 126" 4m-1 7m 201" (327") | =-1.5m.44* 56' 1.5m-0.39m.293*06' (338* 02') | =-2.5m 120° 51° 2.5m-1 4m 148° 50° (278° 44°) | Tall | =-2m9" 41 2m-0.25m97" 35 (107" 16') | =-1m 67 ⁶ 52' =-0.27m 324 ⁶ 56' | = 2m 76° 55' 2m=0.9m 118' 1194' | | | | |
| Lens Aconssory Size | 56mm | 30 Som (82mm front) | 49mm | 58mm | | 4-piece filters built in (82mm front) | 62mm | 62mm | | | | |
| Length (at infinity) | 165mm (6.5 inches) | 87mm (3.4 inches) | 66mm (2.6 inches) | 163 Senm 16.4 inches? | 42.5mm (1,7 inches) | 43mm (1.7 mches) | 76 5mm (3.0 inches) | 147mm (inches) | | | | |
| Diameter | 64.5mm (2.5 inches) | 84mm (3.3 inches) | 64.5mm (2.5 inches) | 64.5mm (2.5 inches) | 64.5mm 12.5 inches) | 70mm (2.8 inches) | 64 5mm (2.5 inches) | 67.5mm (inches) | | | | |
| Wright | 750 g (26.5 ounces) | 575g (20:2 ources) | 420g (14.8 nunces) | 610g (21 B concest | 250g (8.8 corrent) | 290g (10.2 ounces) | 386g (13.6 ounces) | 760g (cunced) | | | | |
| Lens Hood | Built in, retractable | Scrievin type, detachable | Screw-in type, available is optional | Builties, retractable | | Push on type, maile- ble as optional extra | Screw in type, evailable as optional | Screw in type, available as optional | | | | |
| Accessory | Tripod mount ring, available as optional | w/Tripod mount ring & 5 piece filter set | | Tripod mount ring, available as optional | | Push on type lone hood which takes 82mm front times | | | | | | |

11. TAMRON ADAPTALL/ADAPTALL-2 MOUNT SYSTEM

| Adaptall Mounts | Adaptall Lenses | SP Adaptal 2 Lenses | | |
|--|-----------------|----------------------|--|--|
| For Pentax K | Yes | Yes | | |
| For Pentax ES 🗘 | You | Yes O | | |
| For Pentas Universal | Yes | Yes | | |
| For Nicor A1 1 | Yes | ves† | | |
| For Fujica ST | Yes | Yes | | |
| For Marriya SX. | Yes | Ves | | |
| For Topicon RE Q | Yes | Yes O | | |
| For Roller Voigtlander | Yes | | | |
| For Canon FL | Yen | Ves | | |
| For Minoita | | Yes | | |
| 200 | Yes | Yes | | |
| For Olympus OM | Yes | (e) | | |
| For Contax Yashura* | Yes | Yes* | | |
| For Canon FD (6 mounts) ♥ 12.5, 12.8, 13.5, 13.8, 14.5, 15.6 | Yes | | | |
| For Konics AR (6 mounts) # 125 128 135, 138 145 156 | Ves | | | |
| For Minolta MD (4 mounts) 1 2 5 4 5, 1 2 8 5 6, 1 3 5, 1 3 8. | Yes | | | |
| SP/Admirtall-2 Mounts | Adaptall Lenses | SP/Adaptali 2 Lenses | | |
| For Olympus OM | Yes | Yes | | |
| For Canon FD | 740 | Yes | | |
| For Minolta MD | | Van | | |
| For Konica AR* | | Yes.* | | |
| For Contax Yashica | | 3757 | | |
| The state of the s | | Yes | | |
| For "C" mount for CCTV VTR cameras and 16mm movie cameras | Yes | Ves | | |
| For "MS" minunt for CCTV VTR | | | | |
| The state of the s | Yes | Yes | | |

- Due to small rear aperture, this mount will not accept the SP 70-210mm f/3.5-4, SP 90mm f/2.5, SP Flat Field 2X Converter, and Adaptall-2 80-210mm f/3.8-4
- Some early Nikon A1 Adaptall mounts cannot be used with the above lenses. Please check with your dealer.
- Mount requires initial maximum aperture adjustment.

mount

- () Does not have aperture stop down control on mounts. SP lenses do not have Auto/Manual selector switch
- Will not accept the SP Flat Field 2X Converter, due to its small inside diameter.

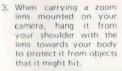
Note: The Tamron SP Flat Field Tele-Converter is compatible with most Tamron Interchangeable Lenses, except wide angle lenses. However, be sure to use the appropriate

12. CARING FOR YOUR NEW LENS

1. Avoid touching the surface of your lens. When not using your lens, be sure to put the lens cap on for protection.



- 2. Cleaning your lens:
- a. Use a photographic lens brush to remove dust or dirt from the surface
 - b. Moisten a lens cleaning tissue with one drop of cleaning solution and clean the surface gently.
 - c. Remove excess maisture from the lens surface with a dry tissue







ment can be delicate. Protect it from any



Fine photographic equipavoidable impact