TAMRON International Service

Should any TAMRON product require service, TAMRON's international service is available in over 48 nations worldwide.

TAMRON CO...LTD.

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

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OWNER'S MANUAL



Thank you for selecting the Tamron 60–300mm F/3.8– 5.4 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.





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1. NAMES OF PARTS

Lens accessory thread Operating ring Distance scale Distance/Aperture index Macro, magnification scale Aperture control ring Adaptall mount index

Depth-of-field scales

Zooming scale

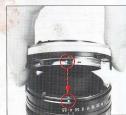
Index for infra-red photography Aperture index

Aperture scale

2. SPECIFICATIONS

	Focal Length	60~300mm		
	Aperture Range	F/3,8~5.4 - 32, A	Æ	36
	Lens Construction	11 groups, 15 elem	nents	2.42.02
	Coating	BBAR multiple-lay	er coating	1911
	Angle of View	40°~8°		12 - 10 -
	Minimum Focus from Film Plane	1.9 m (6.2 ft.) 0.3 m (11.8 in.)	(f=60mm-300mm) (f=60 mm)	- 1
	Max, Reproduction Ratio	1:1.55 (f=60 mm l	M.O.D. 0.3 m)	
NE IN L	Zooming System	One-touch, direct	extention	
	Lens Accessory Size	62mm		1.00
	Overall Length	166mm (w/Mount	for Nikon) (6.5")	CW BOOK
	Max, Diameter	68mm (2.7")	1,000	380 6
	Weight	870g (30.7 oz.)		2161 h
170.35	Lens Hood	Bayonet type		4

3. 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.

position

Align the Mount to Your Lens
 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.



2) The custom mounts for cameras featuring TTL light-metering, AE and automatic disphragm control, are provided with a meter coupling lever which activates the control ring. After fifting 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 crosscoule 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

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.

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 depresses the thing was to be
lever depressed in the was tops
and then lift the meant of the lears.



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 openion.



4 TAMRON ADAPTALL-2 CUSTOM MOUNTS

Mount	Mount Type	Adaptall	Adaptell-2 lenses
For Canon	Bayonet type	X	0
For Minolta MD	Bayonet type	×	0
For Konica AR	Bayonet type	×	0.
For Contax/Yashica	Bayonet type	×	0
For Olympus	Bayonet type	0	0
For Pentax K	Bayonet type	0	0
For Pentax ES	Screw-in type	0	0.
For Pentax Universal	Sorew-in type	0	0
For Nikon AVE	Bayonet type	×	0
For Nikon Al	Bayonet type	041	041
For Fujice AX	Bayonet type	×	0
For Fujica ST	Screw-in type	0	0
For Marriya SX	Screw-in type	0	0
For flollei	Bayonet type	0	0
For Toposn	Bayonet type	0	0.0
For Praktica-B	Bayonet type	0.42	0
For Praktica-LLC	Screw-in type	0	0
For "C" mount for CCTV/	VTR comeras and 16mm movie cameras	0	0

- * Mount requires initial maximum aper-
- ture adjustment.

 Due to small rear aperture, this mount will not accept the SP 70-210mm F/3.5-4 (52A), SP 90mm F/2.5 (52B), SP flat-field 2X tele-converter (1)F, Adaptall-2 80-210mm F/3.8-4 (03A) and Adaptall-2 80-250mm F/3.8-4 (03A)
- (04A & 104A).

 1 Will not synchronize with Auto Mode
- of designated speed light of Nikon EM.

 42 Program AE system and AE system of shutter speed priority will not work.

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 view-finder. Focusing is continuous from infinity to 18m throughout the entire focal length range. Among the state of the s

It is easier to focus at the telephoto end of the zoom range due to the shallower depth of

field.

The Distribution of the infinity mark (∞) of this lens is shifted slightly to the positive side to enable focus adjustment even when focus shift is caused due to temperature changes. The shift range is denoted by an L-shaped line. Be sure to check the focus through the viewfinder even

when you shoot at infinity.

OPERATING INSTRUCTIONS



(2) Checking Depth of Field

To check depth-of-field, this lens has depth-offield scales for apertures F/8, F/16 and F/32. The colors of the depth-of-field scales correspond to the colors of the lines under the aperture scales. The index for infra-red photography (red line marked R) can also be used as a depth-of-field scale at F/6

Check depth-of field as follows: Example: When you shoot at f=100mm, F/16,

- at a distance of 5 meters:

 1) Set the aperture control ring to
- F/16.
 (II) Set the distance to 5 meters.
 (III) Read the value between the depthof-field scale (two yellow lines in



In this case, the depth-of-field is from 4 to 7 meters (13.1 to 23.0)

interest (15.1 to 25.0). The properties of more precise ones, please look at the depth-of-field with the depth-of-field with the open to check depth-of-field through the viewfinder of your camera, push the depth-of-field preview button on your camera (in case of Olympus cameras, push the built-in preview lever on the mount.)

(3) 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.



(4) Macro Operation and

Macro Magnification Ratio With this lens, you can focus down to 0.3 meters (11.8 in.) at the 60mm focal length setting for an almost life-size 1:1.55 maximum magnification ratio. First, set the operating ring to the f=60mm setting and turn the ring to I.9m minimum object distance setting, Pull the operating ring further and it will shift by about 1mm. Then, rotate the ring so that the orange lines on the right of the MACRO marks on the operating ring and the lens barrel meet together. Push the operating ring forward towards the object and you can see macro magnification scales, which show the macro magnification ratios at each setting. In this operation the object distance can be changed steplessly from 1.9m so the image will never disappear.

When you want to return to the normal mode



after macro operation, pull the operating ring towards the camera body and rotate it counterclock-wise

You can zoom when the operating ring goes past 1.9m, the minimum object distance in the normal mode In macro photography, the operating ring will

only shift forwards or backwards (5) 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 desired f-stop to the orange line at the wideangle position (f=60mm) or to the blue line at the telephoto position (f=300mm)

Intermediate click stops are provided from F/3 8 to F321

OPERATING INSTRUCTIONS



(6) 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.

(7) Infra-Red Index
Since the focal point shifts in infra-red photography, it is necessary to correct the focus.
Focus in the normal manner, and shift the
indicated distance to the red line marked "R".



Focal Length	Aperture (F)	4.7	5.6	8	
	1.90	1.88-	1.82	1.86-	-1
	2.00	2.03	2.03	1.96 - 2.05	1
	3.00	3.07	2.92-	2.89-	2
70.712	5.00	4.81-	5.74	4.69 - 5.36	4
f = 135mm	10.00	5.24- 10.5	9.11-	8.78-	8
	20 1	- 17 1-	16.7-	15.6-	11

(8) Lens Hood

A bayonet type lens hood is supplied. 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.

(9) Depth of Field Tables

Example of the use of depth of field tables:

Shooting at a distance of 5m (16.4 ft) with the aperture set at F/5.6 at a focal length of

135mm, Read off the depth of field from where the F/5.6 column intersects with the 5m (16.4 ft) distance on the horizontal row. In this case the depth of field is from 4.78—5.24m.



(10) Notes: Shooting with an electronic

This lens features a variable aperture design. with the maximum aperture changing about one stop between the wideangle and telephoto ends of the zoom range (F/3.8-F/5.4). 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

- Set the f-stop (obtained from the guide number of the flash) to the grange aperture index line at the 60mm wideangle end or the blue aperture index line at the
- 300mm telephoto end.
- 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 fiston with a signal from the camera, use the flash in a manual mode. When you use film with limited latitude
 - such as reversal film at f=60-100mm set the f-stop to the blue index line At f=100-200mm, to the middle of the two lines and f=200mm and over, to the orange index line This way, you will get the correct exposure,

NOTE: When shooting with cameras that control the exposure during exposure itself, no adjustment is needed.

6. DEPTH OF FIELD TABLES

ocal Length	Aparture (F) Distance (m)	3.8	4	5.6	. 8	-11	16	22	32	Focal Length	Aparture (F)	4.7	5.6	8	11	16	22	32
	1.90	2.00	1.81~ 2.01	2.05	2.12	1.66- 2.22	1.58~ 2.41	2.70	3.36	. 196	1.90	1.88-	1.87-	1.85-	1.85-	1.82~	1.79-	1.75-
	2.00	1.90- 2.11	1,89~	1.86~ 2.17	1.80~ . 2.26	1.74~ 2.37	1.64~ 2.59	1.54~ 2.92	1,39~ 3.73		2.00	1.97-	1.97-	1.95- 2.05	1.94 — 2.06	1.91-	1.88-	1.83
	3.00	2.76- 3.29	2.75- 3.31	2.66- 3.45	2.53- 3.69	2.40- 4.06	2.20- 4.82	2.00- 6.30	1.75-		3.00	2.94~	2,92-	2.89-	2.85- 3.16	2.79- 3.24	2.72-	2.61 3.5
	5.00	4,32- 5,95	4,29- 6.01	4.06- 6.53	3.76- 7.54	3,44- 9,34	3.03- 15.6	2.64- 87.5	2.19-		5.00	4.81-	4.78- 5.24	4.69- 5.36	4.58- 5.50	4.42- 5.77	4.23- 6.12	3.96
f =60mm	10.00	7.51 ~ 15.1	7.41 - 15.5	6.72- 19.8	5.90~ 34.6	5.12- \$4.0	4.21~	3.48~	2.71~	f =135mm	10.00	9.24	9.11~	8.78~	8.39~	7.83~ 13.9	7.24~ .16.3	6.43
	20.00	11.9- 64.4	11.6- 73.0	9.99-	8.24~	6.77~	5.23~ ∞	4.12~	3.06~		20.00	17.1~	16.7~ 25.0	15.6~	14.4-	12.7-	94.7	9.36
	70.00	20.4-	19.7-	15.3-	11,5-	8.79-	6.33-	4,75-	3.38-		70.00	43.8- 174.0	40.9- 244.0	34.7~	29.2~	23.1~	18.5~	13.5
	200.0	25.1~	24.0~	17.8~	12.8~	9.52%	6.69~	4.95~	3.48~		200.0	Ø33.7-	65.8-	51,1~	40.0~	29.3~	22.2~	15.9
	00	28.6~	27.2-	19.4-	13.7-	9.97-	6.91~	5.06~	3.53~		. 80	116.0~	97.7~	68.5~	49.8~	34.3~	25.0-	17.2

DEPTH OF FIELD TABLES

Focal Length	Aperture (F) Distance (m)	5.2	5.6	8	11	16	22	32	Focal Length	Aperture (F) Distance (m)	5.4	5.6	8	11,	16	22	32
	1.90	1.89~	1.89	1.88-	1.87-	1.85-	1.85-	1.83~		1.90	1.89~	1.89-	1,89~ 1,91	1.89~ 1.91	1.88-	1.88-	1.87-
	2.00	2.01	1.99~ 2.01	1.98-	1.97~	1.96-	1.94-	1.92~		2.00	1.99-	1.99-	1.99-	1.99-	1.98-	1.97~	1.96~
	3.00	2.97- 3.03	2:96- 3:04	2.95- 3.06	2.93- 3.07	2.90~ 3.11	2.87- 3.15	2.81- 3.22		3.00	2.98-	2.98~ 3.02	2.98~ 3.02	2:97~ 3.03	2.95~ 3.05	2.94~ 3.06	2.91-
	5.00	4.90- 5.10	4,90~ 5.11	4.85~ 5.16	4.80~ 5.22	4.71 - 5.32	4.62~ 5.46	4.46~ 5.69		5.00	4.95~ 5.05	4.95- 5.05	4.93 - 5.07	4.91- 5.09	4.87~ 5.14	4.82- 5.19	4.24 5.25
$f=200\pi m$	10.00	9.60- 10.4	9.57~ 10.5	9.40- 10.7	9.20~ II.0	8.87~ II.5	8.51 - 12.1	7.98~ 13.4	f = 300mm	10.00	9,81~	9.81~ 10.2	9.72-	9.63-	9.46- 10.6	9.28- 10.8	8.98
	20.00	18.4- 21.9	18.3~ 22.0	17.7- 23.0	17.0~ 24.4	15.9~ 27.1	14.7-	13.2-		20.00	19.2-20.8	19.2-	18.9-	18.5-	17.9- 22.6	17.3- 23.8	16.2
	70.00	53.8~ 100.0	52.9- 104.0	47.8~ 131.0	42.8- 193.0	36.3~ 974.0	30.8~	24.6		70.00	61.5- 81.3	61.2- 81.8	58.0- 88.2	54.5~ 97.7	49.6~ 119.0	44.7~ 162.0	38.4 400.
	200.0	107.0~ 1481.0	104.0- 2920.0	85.9~	70.7~	54.7- ∞	43.0~	31.7-	5.3	200.0	143.0- 333.0	141.0- 341.0	126.0- 490.0	110.0~	91.7~	76.2~	59.5
	- 00	231.0-	214.0~	150.0-	. 109.0~	75.1~	54.6-	37.6~	41 300	oo	500.0-	482.0-	338.0~	246.0~	169.0~	123.0-	84.4

7. SPECIFICATIONS OF TAMRON LENSES

Specification Model No.	13A	17A	27A	60A	28A	224	2040	26A	1941	105A	164A
Focel Longth	N-thus.	35-70mm	28-80mm	25-50mm	26-135mm	35-136mm	30-160mm	35-210mm	10-210mm	80-210mm	75-250mi
Max. Apertura	1/05-08	1/25	F25-4.2	F/2.8-3.8	F/4-4.5	7/35-42	nos.	F/25-4.2	P/2.6	FIS.8-4	1/28-45
Angle of View	04"-45"	10,-31,	76"-32.6"	64"-30"	75"-12"	63"-16"	31"-16"	64"-11"	34.5"-12"	307-114	33"-10"
ans Construction	6/10	2/7	10	69	10/17	12/14	. 33/12	12/16	11/16	10/13	1093
Desting	T. Was				1500	BRARDARIES	Layer Course			7.73	171.00
Minimum Paess Inon Film Plans	0.811	0.25m	0.36m	0.230	20=	1.8m	0.7m	1.6m	0.85%	0.9m	1.2m
Arx. Reproduction Matte	15-7	1/24	1:24	1:25	114	1:4	1:3	91.11	1 266	1:28	1:24
periore Range	3.5/3:9-32, AE	35-32 At	35/42-32.46	2.8/3.9-32. AS	49.6-32, AF	3.6/12-32, AE	3.5-22.4E	1.5/4.2-22, AE	35-32,48	38/4-32, AB	1,6/45-32 AE
ent Accessory Size	77mm	58mm	- 67em	62.40	62mm	67mm	damm	Bloom	62mm	Stem	. 62om
angth at = [80/Nikon Moyer] most	61 (69.6)	66 (59.5)	82 (865)	72 (74.5)	106 [110.5]	109 (109.8)	99 (102.5)	121.2 (129.3)	160 [154,5]	137.7 [142.29	172 (176.5)
dan Diameter (mind	64.5	65.6	70	64.5	.70	72.4	64.5	. 73	71	65	71.
Reight (g)	346	330	400	385	715	103	459	875	860	634	896
Lens Hood	Respect	Puth on	Reporte	Repron	Euronet	Beyonet	Buffi (n	Bayonet	Sayonet type. coupled to zooming	Screwin	Baltin

234	BIA	31A	
80-300vm	70 - 250 mm	200-500res	
113,8-54	1715	7.60.0	
40"-4"	36.7	125"-6"	
11715	1976	10/14	
1.9m	2.5m	2.511	
1:186	-	1:352	
105.4-37, AE	4.5-32, AE	5.6-32	
62mm	92nm	(Gran (Gran Instri	
(6) 5 [190]	274 (278.5)	265 (269.5)	
- 69	30	105	
879	2,170	2,700	

	850	216	510	018	028	100
4	BIA	JIA	310	- UIL		
Signer .	20-250ees	200-900res	1hore	News	28 ev	90
1-54	1715	7.60.0	105	#12.5	F/2.8	19
· er	38*-3"	125"-6"	100"	80"	76*	2
ns.	1376	10/34	10/12	9/10	7/7	6
					BRAN S	Miss
)es	2.5m	2.64	0.25m	0.25m	0.25m	0.3
136	-	1:352	*	- 1	1:58	1
30, AE	4.5-32, AE	5.6-32	3.6-22, Ali	2.5-32, 46	25-32, AE	25-
nen.	92nm	(Gran (Dan Isar)	Bullian	Steen	dim	49
1991	274 (278.5)	365 (369.5)	40 H754	38 (42.5)	33 (37.5)	661
0	90	105	70	615	61.6	6
72	2,170	2,700	270	220	100	
unet	Daltein	Eulinia	Patron	Scools	Scravin	Son

-	28 wn	90nm	135mm	200ros	303mm	300mm	260mm	500mm	
5	F/2.8	1/2.5	172.5	rns	7/2.0	195.6	F/5.6	F.89	
	767	22*	10"	12"	E	r	230	51	116
0	7/7	68	446	66	U7	5/6	4/7	4/7	6/6
	9804	Maragine Lager 6	Corrieg		100	110	5 1 2		odfi
in	0.25m	0.38w	124	t)a	304	1.4h	1,100	LTex	
1	1:58	1:2	1:7	1:59	20	1:33	1:25	113	-
, AE	25-32, AE	25-32 AF	25-32, 68	35-52,46	2.0-22, AT	5,6-30,74	٥.	-	
en .	dim	40cm	Stereo	58mm	112mm Chain bourt	Shee	82nm 30.5mm (npp)	Elimen (III forest brant)	
2.51	33 037.55	6617051	70.5 (41)	108 [112:5]	199 [200,5]	163.5 (168)	33.5 [79]	87 (91.6)	42.504
4	61.6	61.5	64.5	61	117.5	64.5	. 86	104	615
	100	109	410	540	2,071	610	527	535,	290
	Scravin	Sowin	Bullion	Bullio	Sound	Solition	Scawin	Sorru-In	
_	_	* Specif	ications a	nd availa	bility are	subject to	change	without no	tice.

	465	Г
ċ	coring	
	124	
	1:7	
	25-32, 68	3.
	Stern	
	20.5 (81)	10
	64.5	
	450	П

200 135mm

8. CARING FOR YOUR LENS

- Avoid touching the lens surface. Use a photographic brush or blower to remove dust from the lens surface. When not using
- the lens, put a lens cap on for protection.

 2. Use a lens cleaning tissue or lintless cloth with a drop of cleaning solution to clean fingerprints or dirt on the lens surface with a rotary motion from center to edge. Use a silicon cloth to clean your lens barrel only.
- When carrying a lens on your camera without a camera case, hang it from your shoulder with the lens towards your body to protect it from objects which it might



- When storing your lens in a lens case, turn
 the focusing ring so that the ∞ mark on the
 distance scale is aligned to the index line.
 Also store it with a necket of desiccant
- Fungus is an enemy of your lens. Clean the lens after shooting at seaside or in a humid place. Store your lens in a clean, cool and dry place. If you find fungus on your lens, please consult a repair shop or nearby photographic store.





