



85mm f/1.7 MC TELE ROKKOR

<i>Lens construction:</i> 6 elements, 5 groups	<i>Angles of view:</i> Diagonal: 28° 30'
<i>Apertures:</i> 1.7~16, intermediate stops	Horizontal: 25° 50'
<i>Nearest focus:</i> 1m (3.3 ft)	Vertical: 16°
<i>Ratio of object to image size at nearest focusing distance:</i> 1:10 (0.10X)	<i>Ratio of image size at infinity to image of standard lens (55 or 58mm = 1):</i> 1.5:1 (1.5X)
<i>Focusing distance, one head, vertical:</i> 1.2m (4 ft)	<i>Screw-in filter mount diameter:</i> 55mm
<i>Focusing distance, two heads, horizontal:</i> 1.5m (5 ft)	<i>Lens hood:</i> Exclusive angle (Minolta-type)
<i>Focusing distance, one to three persons (6 ft) standing:</i> 5.2m (17 ft)	<i>Replacement lens cap:</i> 57mm
	<i>Weight:</i> 460g (16.2 oz)

Close-Up Data

Extension Rings	Magnification	Distance Range—Subject to Film	
50mm Macro ring (+25mm)	0.31~0.41×	448.35~390.66mm	
100mm Macro ring (+50mm)	0.60~0.70×	341.75~330.15mm	
Reverse adapter	0.0065×	14168.5mm	

Bellows Data	Auto Bellows I	Auto Bellows II	Bellows III
a. Distance to subject from lens edge (normal position)	228.09~97.88mm	216.93~105.36mm	241.31~97.72mm
Magnification (image ratio) range	0.46~1.92×	0.49~1.65×	0.43~1.95×
b. Distance to subject from lens edge set at infinity (reversed)	215.55~82.97mm	204.85~96.23mm	228.22~82.15mm
Magnification (image ratio) range	0.47~1.83×	0.50~1.56×	0.44~1.85×

Close-Up Lenses	Magnification	Area Range	Distance Range
No. 0	0.079~0.182X	302×454~132×198mm	1184~610mm
No. 1	0.168~0.274X	143×214~ 88×131mm	624~490mm
No. 2	0.318~0.431X	75×113~ 56× 84mm	385~332mm
No. 0+1	0.246~0.354X	98×146~ 68×102mm	470~382mm
No. 0+2	0.394~0.478X	61× 92~ 50× 75mm	339~313mm
No. 1+2	0.479~0.596X	50× 75~ 40× 60mm	303~282mm
No. 0+1+2	0.551~0.669X	44× 65~ 36× 54mm	284~270mm

DEPTH-OF-FIELD TABLES FOR 85mm f/1.7 MC TELE ROKKOR

(in feet)

F No.	1.7	2.8	4	5.6	8	11	16	22
∞	409' [∞]	246' [∞]	174' [∞]	123' [∞]	87' [∞] 1'	61' [∞] 8'	43' [∞] 8'	30' [∞] 11'
30	32' 4" 28'	34' 1" 26' 10"	36' 1" 25' 8"	39' 5" 24' 3"	45' 4" 22' 5"	57' 6" 20' 4"	93' 18'	750' 15' 5"
20	21' 1" 19' 1"	21' 8" 18' 7"	22' 6" 18'	23' 9" 17' 4"	25' 9" 16' 5"	29' 2" 15' 3"	36' 1" 13' 10"	54' 4" 12' 4"
15	15' 7" 14' 6"	15' 11" 14' 2"	16' 4" 13' 10"	17' 13' 5"	18' 12' 11"	19' 7" 10' 2"	22' 5" 9' 6 1/2"	28' 2" 8' 3"
12	12' 4" 11' 8"	12' 7" 11' 6"	12' 10" 11' 3"	13' 3" 11'	13' 10" 10' 7"	14' 9" 10' 2"	16' 3" 9' 6 1/2"	19' 8' 9 1/2"
10	10' 3" 9' 9 3/8"	10' 5" 9' 7 3/8"	10' 7" 9' 5 3/8"	10' 10" 9' 3 3/8"	11' 2" 9' 1 3/8"	11' 9" 8' 8 1/4"	12' 9" 8' 2 1/2 3/8"	14' 4" 7' 8 5/16"
8	8' 1 1/8" 7' 10 3/8"	8' 2 1/8" 7' 9 3/8"	8' 4 3/8" 7' 8 1/8"	8' 6" 7' 6 3/8"	8' 8 3/8" 7' 4 3/8"	9' 3/8" 7' 1 1/8"	9' 7 3/8" 6' 10 1/4"	10' 6" 6' 5 1/8"
7	7' 1 1/4" 6' 10 3/8"	7' 2 3/8" 6' 9 3/8"	7' 3 3/8" 6' 9 3/8"	7' 4 1/2" 6' 7 3/8"	7' 6 1/2" 6' 6 3/8"	7' 9 3/8" 6' 4 3/8"	8' 2 1/4" 6' 1 1/8"	8' 9 3/8" 5' 9 3/8"
6	6' 15/16" 5' 11 1/8"	6' 1 1/8" 5' 10 3/8"	6' 2 1/4" 5' 9 3/8"	6' 3 3/8" 5' 9"	6' 4 5/8" 5' 7 3/8"	6' 6 3/4" 5' 6 3/8"	6' 10" 5' 4 3/8"	7' 3" 5' 1 1/2"
5	5' 5/8" 4' 11 3/8"	5' 1" 4' 10 3/8"	5' 1 1/2" 4' 10 1/2"	5' 2 1/2" 4' 9 3/8"	5' 3 3/8" 4' 9 3/8"	5' 4 1/2" 4' 8 1/8"	5' 6 3/8" 4' 6 3/8"	5' 9 3/8" 4' 4 3/8"
4.5	4' 6 1/2" 4' 5 1/2"	4' 6 3/8" 4' 5 3/8"	4' 7 3/8" 4' 4 3/8"	4' 7 1/8" 4' 4 3/8"	4' 8 1/8" 4' 3 3/8"	4' 9 1/2" 4' 2 3/8"	4' 11 1/8" 4' 1 1/8"	5' 1 3/8" 4' 1 1/8"
4	4' 3 3/8" 3' 11 3/8"	4' 5/8" 3' 11 3/8"	4' 1 1/8" 3' 11 1/8"	4' 1 3/8" 3' 10 3/4"	4' 1 1/2" 3' 10 1/4"	4' 2 1/8" 3' 9 3/8"	4' 3 3/8" 3' 8 3/8"	4' 5 1/4" 3' 7 3/8"
3.5	3' 6 1/8" 3' 5 1/8"	3' 6 3/8" 3' 5 1/2"	3' 6 3/8" 3' 5 3/8"	3' 6 3/8" 3' 5 1/8"	3' 7 3/8" 3' 4 1/8"	3' 7 3/8" 3' 4 3/8"	3' 8 3/8" 3' 3 3/8"	3' 10 3/8" 3' 2 3/8"

(in meters)

F No.	1.7	2.8	4	5.6	8	11	16	22
∞	125	75.0	53.0	37.5	26.6	18.8	13.3	9.43
20	23.8 17.3	27.2 15.8	31.9 14.6	42.5 13.1	79.6 11.5	∞ 9.74	∞ 8.04	∞ 6.46
10	10.9 9.27	11.5 8.85	12.3 8.44	13.5 7.93	15.9 7.31	21.0 6.58	38.8 5.76	∞ 4.91
5	5.20 4.82	5.34 4.70	5.50 4.59	5.73 4.43	6.10 4.24	6.72 3.99	7.85 3.68	10.3 3.32
3	3.07 2.93	3.12 2.89	3.17 2.85	3.24 2.79	3.35 2.72	3.53 2.61	3.80 2.48	4.28 2.32
2.5	2.55 2.46	2.58 2.43	2.61 2.40	2.66 2.36	2.74 2.30	2.85 2.23	3.02 2.13	3.31 2.01
2	2.03 1.97	2.05 1.95	2.07 1.94	2.10 1.91	2.14 1.87	2.21 1.83	2.31 1.76	2.47 1.68
1.7	1.72 1.68	1.73 1.67	1.75 1.65	1.77 1.64	1.80 1.61	1.85 1.58	1.91 1.53	2.02 1.47
1.5	1.52 1.48	1.53 1.47	1.54 1.46	1.55 1.45	1.58 1.43	1.61 1.40	1.66 1.37	1.74 1.32
1.3	1.31 1.29	1.32 1.28	1.33 1.27	1.34 1.26	1.36 1.25	1.38 1.23	1.42 1.20	1.47 1.17
1.2	1.21 1.19	1.22 1.18	1.22 1.18	1.23 1.17	1.25 1.16	1.27 1.14	1.30 1.12	1.34 1.09
1.1	1.11 1.09	1.11 1.09	1.12 1.08	1.13 1.07	1.14 1.06	1.15 1.05	1.18 1.03	1.21 1.01
1	1.01 0.99	1.01 0.99	1.01 0.99	1.02 0.98	1.03 0.97	1.04 0.96	1.06 0.95	1.09 0.92