



LENS DATA: 135mm f/2.8 MC TELE ROKKOR

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<i>Lens construction:</i> 6 elements, 5 groups	<i>Angles of view:</i> Diagonal: 18°
<i>Apertures:</i> 2.8~22	Horizontal: 15°
<i>Nearest focus:</i> 1.5m (5 ft)	Vertical: 10°
<i>Ratio of object to image size at nearest focusing distance:</i> 1:9 (0.111X)	<i>Ratio of image size at infinity to image of standard lens (55 or 58mm = 1):</i> 2.5:1 (2.5X)
<i>Focusing distance, one head, vertical:</i> 2m (6.5 ft)	<i>Screw-in filter mount diameter:</i> 55mm
<i>Focusing distance, two heads, horizontal:</i> 2.1m (8 ft)	<i>Lens hood:</i> Built-in
<i>Focusing distance, one to three persons (6 ft) standing:</i> 8.2m (27 ft)	<i>Replacement lens cap:</i> 57mm
	<i>Weight:</i> 425g (15 oz)

#### Close-Up Data

Extension Rings	Magnification	Distance Range—Subject to Film	
50mm Macro ring (+25mm)	0.19~0.30X	992.90~747.23X	
100mm Macro ring (+50mm)	0.37~0.48X	671.55~602.79X	
Bellows Data	Auto Bellows I	Auto Bellows II	Bellows III
a. Distance to subject from lens edge (normal position)	585.4~243.49mm	555.56~260.54mm	620.18~241.98mm
Magnification (image ratio) range	0.29~1.25X	0.31~1.08X	0.27~1.26X
b. Distance to subject from lens edge set at infinity (reversed)	∞~265.7mm	∞~358.36mm	∞~258.9mm
Magnification (image ratio) range	1/∞~0.59X	1/∞~0.42X	1/∞~0.61X

Close-Up Lenses

Magnification

Area Range

Distance Range

No. 0

0.13~0.25×

163×227~96×144mm

1070~600mm

DEPTH-OF-FIELD TABLES FOR 135mm f/2.8 MC TELE ROKKOR

(in feet)

Dis. ft. \ F No.	2.8	3.5	4	5.6	8	11	16	22
∞	246'	518'	449'	318'	225'	159'	113'	80'
50	54' 1" 46' 6"	55' 2" 45' 9"	56' 1" 45' 1"	59' 1" 43' 4"	63' 11" 41' 1"	72' 3" 38' 3"	88' 8" 34' 11"	131' 31'
30	31' 5" 28' 9"	31' 9" 28' 5"	32' 1" 28' 2"	33' 0" 27' 6"	34' 5" 26' 7"	36' 8" 25' 5"	40' 5" 23' 11"	47' 2" 22' 1"
20	20' 7" 19' 5"	20' 9" 19' 4"	20' 11" 19' 2"	21' 3" 18' 11"	21' 10" 18' 6"	22' 8" 17' 11"	24' 0" 17' 2"	26' 3" 16' 2"
15	15' 4" 14' 8"	15' 5" 14' 7"	15' 6" 14' 7"	15' 8" 14' 5"	16' 0" 14' 2"	16' 5" 13' 10"	17' 1" 13' 4"	18' 2" 12' 10"
12	12' 2" 11' 10"	12' 3" 11' 9"	12' 4" 11' 9"	12' 5" 11' 7"	12' 7" 11' 5"	12' 11" 11' 3"	13' 3" 10' 11"	13' 11" 10' 7"
10	10' 2" 9' 10"	10' 2" 9' 10"	10' 2" 9' 9"	10' 3" 9' 8"	10' 5" 9' 7"	10' 7" 9' 5"	10' 10" 9' 3"	11' 3" 9' 1/4"
8	8' 1" 7' 11"	8' 1 1/4" 7' 10 3/4"	8' 1 3/8" 7' 10 3/8"	8' 2" 7' 10"	8' 3" 7' 9 1/4"	8' 4 1/4" 7' 8 1/2"	8' 6 1/8" 7' 6 3/8"	8' 9" 7' 4 1/2"
7	7' 3/4" 6' 11 1/4"	7' 1" 6' 11"	7' 1" 6' 11"	7' 1 5/8" 6' 10 1/2"	7' 2 1/8" 6' 9 3/8"	7' 3 1/8" 6' 9 1/4"	7' 4 1/2" 6' 8"	7' 6 3/8" 6' 6 3/8"
6	6' 1/2" 5' 11 1/2"	6' 3/4" 5' 11 1/4"	6' 3/4" 5' 11 1/4"	6' 1 1/4" 5' 11"	6' 1 1/2" 5' 10 1/2"	6' 2 1/4" 5' 10"	6' 3 1/4" 5' 9 3/8"	6' 4 3/8" 5' 8"
5	5' 3/8" 4' 11 3/8"	5' 1/2" 4' 11 1/2"	5' 1/2" 4' 11 1/2"	5' 3/8" 4' 11 3/8"	5' 1" 4' 11"	5' 1 3/8" 4' 10 3/8"	5' 2 1/8" 4' 10 1/4"	5' 3" 4' 9 3/4"

(in meters)

Dis. m. \ F No.	2.8	3.5	4	5.6	8	11	16	22
∞	196	158	137	97	69	49	34	24
20	22.2 18.2	22.8 17.8	23.4 17.5	25.1 16.6	28.1 15.5	33.7 14.2	47.1 12.7	∞ 11.1
10	10.5 9.5	10.6 9.4	10.8 9.3	11.1 9.1	11.6 8.8	12.5 8.3	13.9 7.8	16.7 7.2
7	7.3 6.8	7.3 6.7	7.4 6.7	7.5 6.6	7.8 6.4	8.1 6.2	8.7 5.9	9.7 5.5
5	5.1 4.9	5.1 4.9	5.2 4.8	5.3 4.8	5.4 4.7	5.5 4.6	5.8 4.4	6.2 4.2
4	4.08 3.93	4.09 3.91	4.11 3.90	4.16 3.86	4.22 3.80	4.32 3.72	4.48 3.62	4.71 3.48
3	3.04 2.96	3.05 2.95	3.06 2.94	3.08 2.92	3.12 2.89	3.17 2.85	3.25 2.79	3.37 2.71
2.5	2.53 2.47	2.53 2.47	2.54 2.46	2.56 2.45	2.58 2.43	2.61 2.40	2.67 2.35	2.74 2.30
2	2.02 1.98	2.02 1.98	2.02 1.98	2.03 1.97	2.05 1.95	2.07 1.94	2.10 1.91	2.14 1.88
1.7	1.71 1.69	1.71 1.69	1.72 1.68	1.72 1.68	1.73 1.67	1.75 1.66	1.77 1.64	1.80 1.61
1.5	1.51 1.49	1.51 1.49	1.51 1.49	1.52 1.48	1.52 1.48	1.54 1.47	1.55 1.45	1.57 1.43