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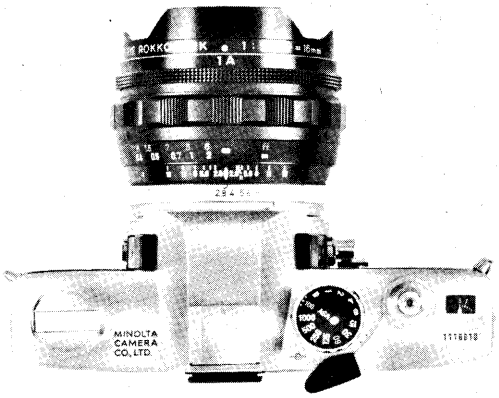
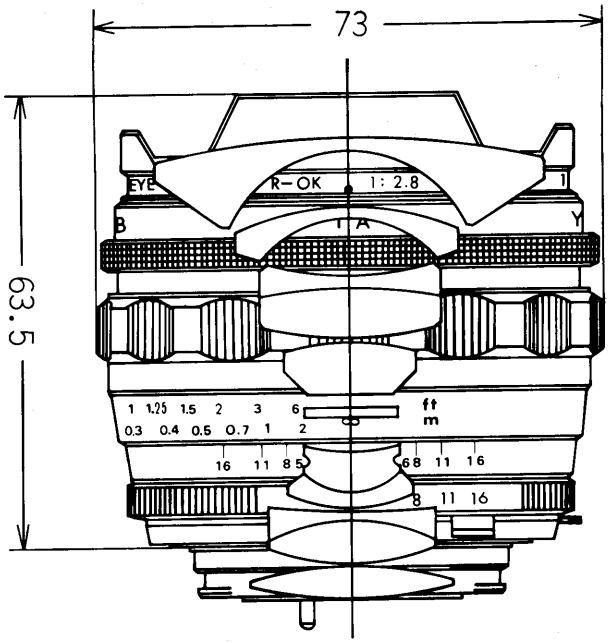
Lens Directory





16mm f/2.8 MC FISHEYE ROKKOR

Lens construction: 11 elements, 8 groups
Apertures: 2.8～16
Focusing distance, one head, vertical: 0.3m (1 ft)—subject to perspective distortion
Focusing distance, two heads, horizontal: 0.3m (1 ft)—subject to perspective distortion
Focusing distance, one to three persons (6 ft) standing: 0.45m (1.5 ft)
Angles of view: Diagonal: 180°
Horizontal: 137°
Vertical: 86°
Ratio of image size at infinity to image of standard lens (55 or 58mm = 1): 1:3.3 (0.3X)
Filters: Built-in, turret-type 1A, Y48, O56, 80B
Lens hood: Built-in, fixed
Weight: 445g (15.7 oz)

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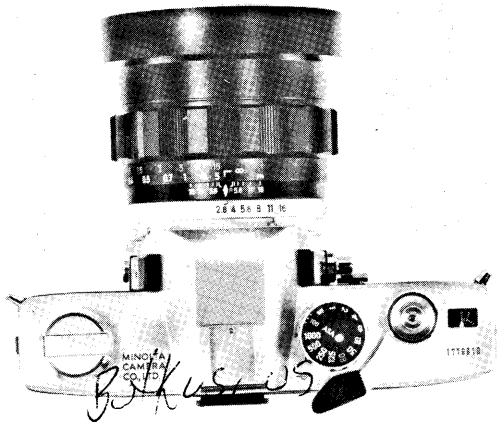
DEPTH-OF-FIELD TABLES FOR 16mm f/2.8 MC FISHEYE ROKKOR

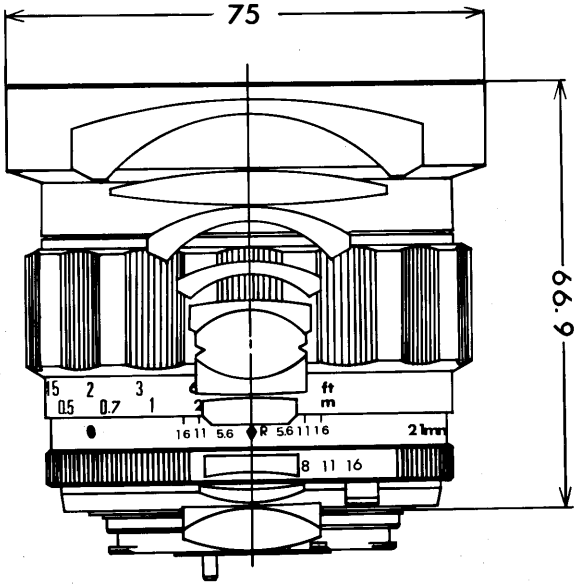
(in feet)

F No. / Dis (ft)	2.8	4	5.6	8	11	16	22
∞	∞ 9′4⅛″	∞ 6′8¼″	∞ 4′9½″	∞ 3′5½″	∞ 2′ 6¼″	∞ 1′10″	∞ 1′4⅝″
6	15′8″ 3′9⅜″	50′8″ 3′3½″	∞ 2′9½″	∞ 2′3⅞″	∞ 1′11	∞ 1′ 6⅛″	∞ 1′2⅜″
3	4′1⅞″ 2′4⅜″	5′0″ 2′2¼″	7′⅜″ 2′0″	17′6″ 1′8⅞″	∞ 1′ 6″	∞ 1′ 3¼″	∞ 1′¾″
2	2′4¾″ 1′8⅝″	2′7½″ 1′7⅝″	3′⅝″ 1′6¼″	4′0″ 1′4¾″	7′ 2½″ 1′ 3″	∞ 1′ 1⅛″	∞ 11⅜″
1.5	1′8¼″ 1′4¼″	1′9⅜″ 1′3⅝″	1′11⅜″ 1′2⅞″	2′3″ 1′1⅞″	2′11″ 1′¾″	5′2″ 11½″	∞ 10¼″
1.25	1′4⅜″ 1′1⅛″	1′5″ 1′1½″	1′6⅛″ 1′⅞″	1′8″ 1′¼″	2′0″ 11⅜″	2′ 8½″ 10½″	6′4¾″ 9½″
1	1′¾″ 11⅜″	1′1″ 11⅛″	1′1⅝″ 10¾″	1′2½″ 10⅜″	1′ 4″ 9⅞″	1′ 7″ 9¼″	2′2½″ 8½″

(in meters)

F No. / Dis (m)	2.8	4	5.6	8	11	16	22
∞	∞ 2.85	∞ 2.04	∞ 1.46	∞ 1.06	∞ 0.77	∞ 0.57	∞ 0.42
2	6.26 1.21	71.2 1.05	∞ 0.89	∞ 0.73	∞ 0.59	∞ 0.47	∞ 0.37
1	1.45 0.77	1.80 0.71	2.77 0.63	12.8 0.55	∞ 0.48	∞ 0.40	∞ 0.33
0.7	0.88 0.59	0.98 0.55	1.19 0.51	1.73 0.46	5.20 0.41	∞ 0.35	∞ 0.30
0.5	0.57 0.45	0.61 0.43	0.68 0.40	0.81 0.37	1.11 0.34	2.65 0.31	∞ 0.27
0.4	0.44 0.37	0.46 0.36	0.49 0.34	0.55 0.32	0.66 0.30	0.96 0.27	3.07 0.25
0.3	0.318 0.284	0.327 0.278	0.340 0.270	0.361 0.260	0.397 0.248	0.468 0.233	0.642 0.215





21mm f/2.8 MC ROKKOR

Lens construction: 12 elements, 9 groups
Apertures: 2.8~16, intermediate click-stops
Nearest focus: 0.25m (0.8 ft)
Ratio of object to image size at nearest focusing distance: 1:5.7 (0.175X)
Focusing distance, one head, vertical: 0.3m (1 ft)—subject to perspective distortion
Focusing distance, two heads, horizontal: 0.37m (1.2 ft)—subject to perspective distortion
Focusing distance, one to three persons (6 ft) standing: 1.2m (4 ft)
Angles of view: Diagonal: 92°
Horizontal: 81° 30′
Vertical: 60°
Ratio of image size at infinity to image of standard lens (55 or 58mm = 1): 1:2.5 (0.4X)
Screw-in filter mount diameter: 72mm
Lens hood: Exclusive angle (Minolta-type)
Weight: 510g (18 oz)

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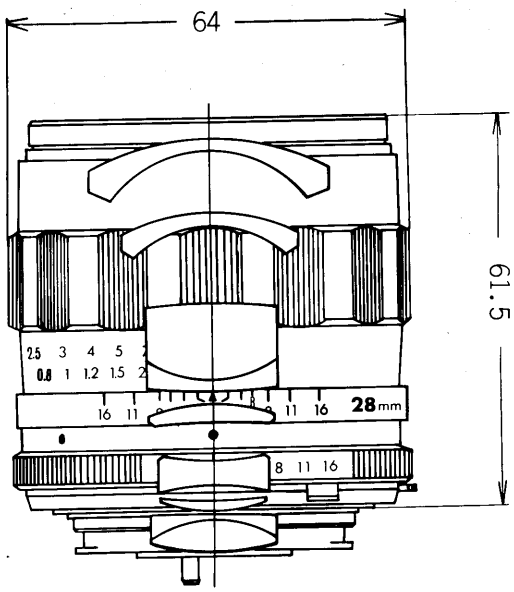
DEPTH-OF-FIELD TABLES FOR 21mm f/2.8 MC ROKKOR

(in feet)

Dis (ft) \ F No.	2.8	4	5.6	8	11	16
∞	∞ 16′33″	∞ 11′ 9″	∞ 8′ 4⅞″	∞ 6′1⅛″	∞ 4′ 3⅛″	∞ 3′ 1¾″
6	9′ 2″ 4′ 5¾″	11′ 7″ 4′ 1⅛″	19′ 2″ 3′ 7⅛″	363″ 3′ 1⅝″	∞ 2′ 7⅝″	∞ 2′2″
3	3′ 6⅝″ 2′ 7⅛″	3′10⅛″ 2′ 5⅝″	4′ 4⅜″ 2′ 3⅝″	5′ 5⅛″ 2′ 1⅜″	8′ 4⅜″ 1′10¾″	41′4″ 1′ 7⅞″
2	2′ 2½″ 1′ 9⅞″	2′ 3⅝″ 1′ 9¼″	2′ 5½″ 1′ 8¼″	2′ 8¾″ 1′ 7⅛″	3′ 1⅛″ 1′ 5¾″	4′ 6⅛″ 1′ 4⅛″
1.5	1′ 7⅛″ 1′ 4⅞″	1′ 7¾″ 1′ 4½″	1′ 8½″ 1′ 4″	1′ 9⅞″ 1′ 3⅜″	2′1¼″ 1′2½″	2′ 4¾″ 1′ 1½″
1.25	1′ 3¾″ 1′ 2¼″	1′ 4⅛″ 1′ 2⅛″	1′ 4½″ 1′1 ⅝″	1′ 5⅜″ 1′1¼″	1′ 6⅝″ 1′⅝″	1′ 8⅞″ 11⅞″
1	1′ ⅜″ 11½″	1′ ½″ 11⅜″	1′¾″ 11¼″	1′1¼″ 11″	1′ 1⅞″ 10⅝″	1′ 2⅞″ 10⅛″

(in meters)

Dis (m) \ F No.	2.8	4	5.6	8	11	16
∞	∞ 4.98	∞ 3.60	∞ 2.57	∞ 1.83	∞ 1.82	∞ 0.95
5	∞ 2.53	∞ 2.13	∞ 1.73	∞ 1.37	∞ 1.07	∞ 0.82
2	3.23 1.46	4.27 1.32	8.28 1.16	∞ 1.00	∞ 0.83	∞ 0.68
1	1.21 0.85	1.32 0.81	1.53 0.75	1.99 0.68	3.49 0.61	∞ 0.51
0.7	0.79 0.63	0.83 0.61	0.90 0.58	1.03 0.54	1.30 0.49	2.10 0.44
0.5	0.54 0.47	0.56 0.46	0.58 0.44	0.63 0.42	0.71 0.39	0.87 0.36
0.4	0.42 0.38	0.43 0.37	0.45 0.36	0.47 0.35	0.51 0.34	0.58 0.32
0.25	0.26 0.25	0.26 0.24	0.26 0.24	0.27 0.24	0.28 0.23	0.29 0.22



28mm f/2.5 MC ROKKOR

Lens construction: 9 elements, 7 groups
Apertures: 2.5~16, intermediate stops from *f*/4
Nearest focus: 0.5m (1.75 ft)
Ratio of object to image size at nearest focusing distance: 1:12 (0.83X)
Focusing distance, one head, vertical: 0.5m (1.75 ft)—subject to perspective distortion
Focusing distance, two heads, horizontal: 0.5m (1.75 ft)—subject to perspective distortion
Focusing distance, one to three persons (6 ft) standing: 1.7m (5.5 ft)
Angles of view: Diagonal: 76°
Horizontal: 65°
Vertical: 46°
Ratio of image size at infinity to image of standard lens (55 or 58mm = 1): 1:2 (0.5X)
Screw-in filter mount diameter: 55mm
Lens hood: Exclusive angle (Minolta-type)
Replacement lens cap: 57mm
Weight: 364g (12.8 oz)

Close-Up Data

Extension Rings	Magnification	Distance Range—Subject to Film
50mm Macro ring (+25mm)	0.91~1.01×	149.99~149.74mm
100mm Macro ring (+50mm)	1.77~1.87×	161.19 ~ 159.21mm
Reverse adapter	2.3×	169.9mm (6.69")

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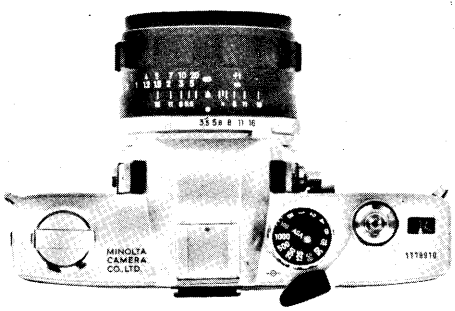
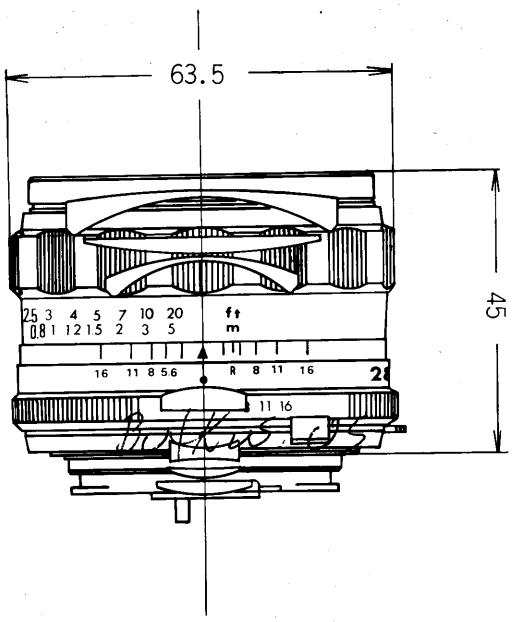
Bellows Data	Auto Bellows I	Auto Bellows II	Bellows III
a. Distance to subject from lens edge (normal position)	8.70~0.00mm	749.00~0.00mm	10.36~0.00mm
Magnification (image ratio) range	1.38~2.38×	1.47~2.38×	1.27~2.38×
b. Distance to subject from lens edge set at infinity (reversed)	44.31~39.92mm	44.15~40.46mm	44.47~39.87mm
Magnification (image ratio) range	3.44~7.47×	3.53~6.66×	3.33~7.54

DEPTH-OF-FIELD TABLES FOR 28mm f/2.5 MC ROKKOR

F No. / Dis (ft)	2.5	3.5	4	5.6	8	11	16
∞	∞ 31′	∞ 22′ 3″	∞ 19′11″	∞ 14′ 2″	∞ 10′ 1″	∞ 7′ 2″	∞ 5′ 2″
20	55′ 1″ 12′ 3″	188′ 10′ 8″	∞ 10′ 1″	∞ 8′ 4¾″	∞ 6′ 9¾″	∞ 5′ 4⅝″	∞ 4′ 2″
10	14′ 6″ 7′ 7⅛″	17′ 9″ 6′11⅛″	19′ 6″ 6′ 9¼″	32′ 5″ 6′ 0″	∞ 5′ 1¾″	∞ 4′ 3⅝″	∞ 3′ 6⅛″
7	8′11″ 5′ 9⅜″	10′ 0″ 5′ 4⅞″	10′ 6″ 5′ 3¼″	13′ 3¼″ 4′ 9½″	21′ 4″ 4′ 3″	171′ 3′ 8″	∞ 3′ 1″
5	5′10″ 4′ 4⅜″	6′ 3¾″ 4′ 1¾″	6′ 6″ 5′ 0″	7′ 5⅛″ 3′ 9½″	9′ 4¼″ 3′ 5⅝″	14′10″ 3′1⅞″	101′ 2′ 7″
4	4′ 6⅛″ 3′ 7⅛″	4′ 9⅜″ 3′ 5⅜″	4′10½″ 3′ 4¾″	5′ 4⅜″ 3′ 2⅜″	6′ 3¼″ 3′ 0″	8′ 3⅛″ 2′ 8¼″	15′ 4″ 2′ 4½″
3	3′ 3¼″ 2′ 9¼″	3′ 4¾″ 2′ 8¼″	3′ 5¼″ 2′ 7⅞″	3′ 8″ 2′ 6½″	4′½″ 2′ 4¾″	4′ 9″ 2′ 2⅝″	6′ 4¼″ 2⅛″
2.5	2′ 8⅛″ 2′ 4⅛″	2′ 9¼″ 2′ 3½″	2′ 9⅜″ 2′ 3¼″	2′11⅛″ 2′ 2¼″	3′ 1⅞″ 2′ 1″	3′ 6½″ 1′11″	4′ 3⅞″ 1′ 9½″
2	2′ 1¼″ 1′11″	2′ 1″ 1′10⅜″	2′ 2″ 1′10¼″	2′ 3″ 1′ 9⅝″	2′ 4⅜″ 1′ 8¾″	2′ 6″ 1′ 7¾″	2′11⅛″ 1′ 6½″
1.5	1′ 6″ 1′ 5⅜″	1′ 6¾″ 1′ 5¼″	1′ 7″ 1′ 5⅛″	1′ 7⅜″ 1′ 4¾″	1′ 8⅛″ 1′ 4¼″	1′ 9⅛″ 1′ 3¾″	1′11″ 1′ 3″

F No. / Dis m	2.5	3.5	4	5.6	8	11	16
∞	∞ 9.45	∞ 6.78	∞ 6.07	∞ 4.31	∞ 3.07	∞ 2.19	∞ 1.57
5	10.4 3.31	18.5 2.94	27 2.78	∞ 2.35	∞ 1.94	∞ 1.56	∞ 1.22
3	4.32 2.31	5.35 2.13	5.75 2.04	9.37 1.81	90.8 1.56	∞ 1.30	∞ 1.06
2	2.49 1.67	2.78 1.57	2.90 1.53	3.58 1.40	5.36 1.25	18.9 1.08	∞ 0.92
1.5	1.75 1.31	1.89 1.25	1.94 1.23	2.21 1.14	2.76 1.04	4.31 0.93	22.6 0.81
1.2	1.35 1.08	1.43 1.04	1.46 1.02	1.60 0.97	1.86 0.90	2.43 0.81	4.37 0.72
1.0	1.10 0.92	1.15 0.89	1.17 0.88	1.25 0.84	1.40 0.78	1.69 0.72	2.42 0.65
0.8	0.86 0.75	0.89 0.74	0.90 0.73	0.95 0.70	1.03 0.66	1.17 0.62	1.45 0.57
0.6	0.63 0.57	0.65 0.56	0.65 0.56	0.67 0.54	0.71 0.52	0.77 0.50	0.87 0.47
0.5	0.52 0.48	0.53 0.47	0.53 0.47	0.55 0.46	0.57 0.45	0.60 0.43	0.66 0.41





28mm f/3.5 MC ROKKOR

Lens construction: 7 elements, 7 groups
Apertures: 3.5~16
Nearest focus: 0.6m (2 ft)
Ratio of object to image size at nearest focusing distance: 1:19 (0.053X)
Focusing distance, one head, vertical: 0.6m (2 ft)—subject to perspective distortion
Focusing distance, two heads, horizontal: 0.6m (2 ft)—subject to perspective distortion
Focusing distance, one to three persons (6 ft) standing: 1.7m (5.5 ft)
Angles of view: Diagonal: 76°
Horizontal: 65°
Vertical: 46°
Ratio of image size at infinity to image of standard lens (55 or 58mm = 1): 1:2 (0.5X)
Screw-in filter mount diameter: 55mm
Lens hood: Exclusive angle (Minolta-type)
Replacement lens cap: 57mm
Weight: 245g (8.6 oz)

Close-Up Data

Extension Rings	Magnification	Distance Range—Subject to Film
50mm Macro ring (+25mm)	0.92~0.98×	133.63~133.45mm
100mm Macro ring (+50mm)	1.79~1.84×	144.17 ~ 143.20mm
Reverse adapter	2.1×	148.6mm (5.85")

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Bellows Data	Auto Bellows I	Auto Bellows II	Bellows III
a. Distance to subject from lens edge (normal position)	9.00~0.00mm	7.79~0.00mm	10.76~0.00mm
Magnification (image ratio) range	1.39~2.53×	1.48~2.53×	1.29~2.53×
b. Distance to subject from lens edge set at infinity (reversed)	44.15~39.72mm	43.97~40.22mm	44.34~39.65mm
Magnification (image ratio) range	3.45~7.52×	3.54~6.70×	3.34~7.59×

DEPTH-OF-FIELD TABLES FOR 28mm f/3.5 MC ROKKOR

(in feet)

Dis (ft) \ F No	2.5	3.5	4	5.6	8	11	16
∞	∞ 31′	∞ 22′ 3″	∞ 19′11″	∞ 14′ 2″	∞ 10′ 1″	∞ 7′ 2″	∞ 5′ 2″
20	55′ 1″ 12′ 3″	188′ 10′ 8″	∞ 10′ 1″	∞ 8′ 4¾″	∞ 6′ 9¾″	∞ 5′ 4⅝″	∞ 4′ 2″
10	14′ 6″ 7′ 7⅛″	17′ 9″ 6′11⅛″	19′ 6″ 6′ 9¼″	32′ 5″ 6′ 0″	∞ 5′ 1¾″	∞ 4′ 3⅝″	∞ 3′ 6⅛″
7	8′11″ 5′ 9⅜″	10′ 0″ 5′ 4⅛″	10′ 6″ 5′ 3¼″	13′ 3¼″ 4′ 9½″	21′ 4″ 4′ 3″	171′ 3′ 8″	∞ 3′ 1″
5	5′10″ 4′ 4⅜″	6′ 3¾″ 4′ 1¾″	6′ 6″ 5′ 0″	7′ 5⅛″ 3′ 9½″	9′ 4¼″ 3′ 5⅝″	14′10″ 3′⅛″	101′ 2′ 7″
4	4′ 6⅛″ 3′ 7⅛″	4′ 9⅜″ 3′ 5⅜″	4′10½″ 3′ 4¾″	5′ 4⅜″ 3′ 2⅜″	6′ 3¼″ 3′ 0″	8′ 3⅛″ 2′ 8¼″	15′ 4″ 2′ 4½″
3	3′ 3¼″ 2′ 9¼″	3′ 4¾″ 2′ 8¼″	3′ 5¼″ 2′ 7⅛″	3′ 8″ 2′ 6½″	4′½″ 2′ 4¾″	4′ 9″ 2′ 2⅝″	6′ 4¼″ 2⅛″
2.5	2′ 8⅛″ 2′ 4⅛″	2′ 9¼″ 2′ 3½″	2′ 9⅜″ 2′ 3¼″	2′11¼″ 2′ 2¼″	3′ 1⅞″ 2′ 1″	3′ 6½″ 1′11″	4′ 3⅛″ 1′ 9½″
2	2′ 1¼″ 1′11″	2′ 1″ 1′10⅜″	2′ 2″ 1′10¼″	2′ 3″ 1′ 9⅝″	2′ 4⅜″ 1′ 8¾″	2′ 6″ 1′ 7¾″	2′11⅛″ 1′ 6½″
1.5	1′ 6″ 1′ 5⅜″	1′ 6¾″ 1′ 5¼″	1′ 7″ 1′ 5⅛″	1′ 7⅜″ 1′ 4¾″	1′ 8¼″ 1′ 4¼″	1′ 9½″ 1′ 3¾″	1′11″ 1′ 3″

(in meters)

Dis m \ F No.	2.5	3.5	4	5.6	8	11	16
∞	∞ 9.45	∞ 6.78	∞ 6.07	∞ 4.31	∞ 3.07	∞ 2.19	∞ 1.57
5	10.4 3.31	18.5 2.94	27 2.78	∞ 2.35	∞ 1.94	∞ 1.56	∞ 1.22
3	4.32 2.31	5.35 2.13	5.75 2.04	9.37 1.81	90.8 1.56	∞ 1.30	∞ 1.06
2	2.49 1.67	2.78 1.57	2.90 1.53	3.58 1.40	5.36 1.25	18.9 1.08	∞ 0.92
1.5	1.75 1.31	1.89 1.25	1.94 1.23	2.21 1.14	2.76 1.04	4.31 0.93	22.6 0.81
1.2	1.35 1.08	1.43 1.04	1.46 1.02	1.60 0.97	1.86 0.90	2.43 0.81	4.37 0.72
1.0	1.10 0.92	1.15 0.89	1.17 0.88	1.25 0.84	1.40 0.78	1.69 0.72	2.42 0.65
0.8	0.86 0.75	0.89 0.74	0.90 0.73	0.95 0.70	1.03 0.66	1.17 0.62	1.45 0.57
0.6	0.63 0.57	0.65 0.56	0.65 0.56	0.67 0.54	0.71 0.52	0.77 0.50	0.87 0.47
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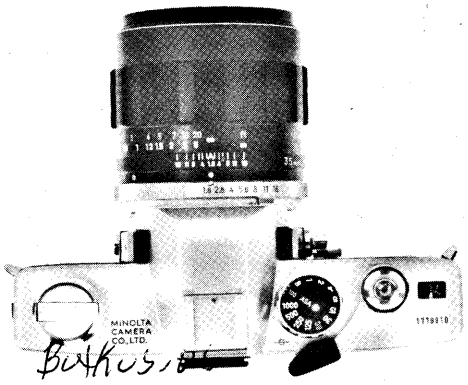

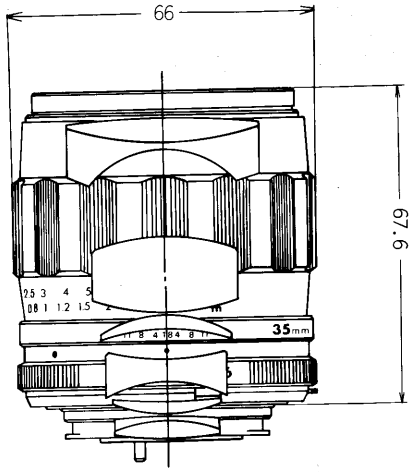

35mm f/1.8 MC ROKKOR

Lens construction: 8 elements, 6 groups
Apertures: 1.8~16, intermediate stops from 2.8
Nearest focus: 0.3m (1 ft)
Ratio of object to image size at nearest focusing distance: 1:5.4 (0.184X)
Focusing distance, one head, vertical: 0.5m (1.7 ft)—subject to perspective distortion
Focusing distance, two heads, horizontal: 0.6m (2.1 ft)—subject to perspective distortion
Focusing distance, one to three persons (6 ft) standing: 2.1m (7 ft)
Angles of view: Diagonal: 64°
Horizontal: 54°
Vertical: 38°
Ratio of image size at infinity to image of standard lens (55 or 58mm = 1): 1:1.67 (0.6X)
Screw-in filter mount diameter: 55mm
Lens hood: Exclusive angle (Minolta-type)
Replacement lens cap: 57mm
Weight: 420g (14.8 oz)

Close-Up Data

Extension Rings	Magnification	Distance Range—Subject to Film
50mm Macro ring (+25mm)	0.74~0.92×	174.63~171.68mm
100mm Macro ring (+50mm)	1.43~1.61×	179.52 ~ 175.96mm
Reverse adapter	1.4×	176.0mm (6.93")

Bellows Data	Auto Bellows I	Auto Bellows II	Bellows III
a. Distance to subject from lens edge (normal position)	26.81~4.71mm	19.79~5.91mm	24.46~4.37mm
Magnification (image ratio) range	1.11~4.56×	1.19~3.90×	1.03~4.61×
b. Distance to subject from lens edge set at infinity (reversed)	49.3~42.04mm	48.93~43.01mm	49.59~42.09mm
Magnification (image ratio) range	2.72~5.97×	2.79~5.32×	2.63~6.03×

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Close-Up Lenses	Magnification	Area Range	Distance Range
No. 1	0.072~0.245×	332×498~97×147mm	613~259mm
No. 2	0.133~0.301×	181×272~80×120mm	389~236mm
No. 1+2	0.199~0.356×	120×180~67×101mm	307~224mm

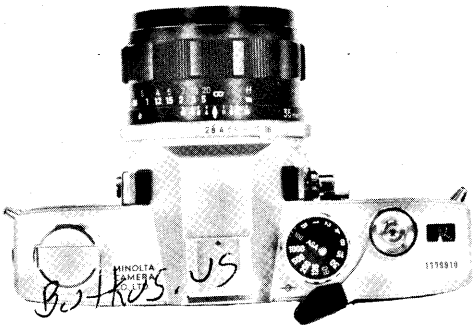
DEPTH-OF-FIELD TABLES FOR 35mm f/1.8 MC ROKKOR

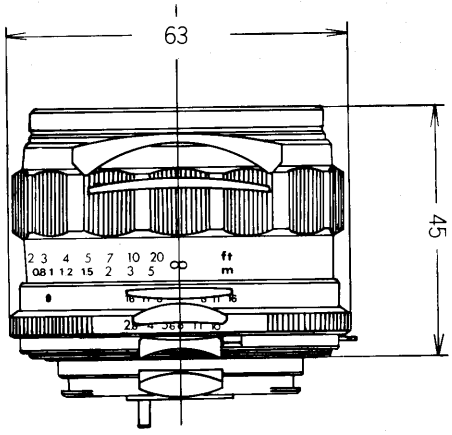
(in feet)

Dis ft \ F No.	1.8	2.8	4	5.6	8	11	16
∞	∞ 65′ 9″	∞ 42′10″	∞ 30′ 4″	∞ 21′ 6″	∞ 15′ 3″	∞ 10′11	∞ 7′ 9″
20	28′ 6″ 15′ 5″	36′11″ 13′ 9″	57′ 2″ 12′ 2″	256′ 10′ 6″	∞ 8′10″	∞ 7′ 2	∞ 5′ 8⅜″
10	11′ 8″ 8′ 8¾″	12′10″ 8′ 2¼″	14′ 7″ 7′ 7½″	18′ 1″ 6′11″	27′ 6″ 6′ 2⅛″	105′ 5′ 4¼″	∞ 4′ 6″
7	7′ 9¼″ 7′ 4⅜″	8′ 3⅛″ 6′ 1″	8′11″ 5′ 9¼″	10′ 1″ 5′ 4½″	12′ 4½″ 4′11″	18′ 4″ 4′ 4¾″	58′11″ 3′ 9¾″
5	5′ 4⅜″ 4′ 8⅛″	5′ 7″ 4′ 6¼″	5′10″ 4′ 4¼″	6′ 4⅛″ 4′ 1¾″	7′ 1¾″ 3′11″	8′ 8¾″ 3′ 6½″	12′ 9″ 3′ 2″
4	4′ 2″ 3′ 9½″	4′ 4¼″ 3′ 3⅜″	4′ 6¼″ 3′ 7″	4′ 9⅜″ 3′ 5¼″	5′ 2½″ 3′ 3⅛″	6′ 0″ 3′3⅜″	7′ 7″ 2′ 9⅛″
3	3′ 1⅜″ 2′11″	3′ 2¼″ 2′10″	3′ 3¼″ 2′ 9¼″	3′ 4¾″ 2′ 8¼″	3′ 7⅛″ 2′ 7″	3′11″ 2′ 5¼″	4′ 6¼″ 2′ 3¼″
2.5	2′ 6″ 2′ 5⅛″	2′ 7½″ 2′ 4″	2′ 8⅛″ 2′ 4⅛″	2′ 9⅛″ 2′ 3⅜″	2′11″ 2′ 2½″	4′ 0″ 2′ 1⅜″	3′ 5″ 1′11″
2	2′½″ 1′11″	2′ 0″ 1′11″	2′ 1¼″ 1′11″	2′ 1¾″ 1′10″	2′ 2″ 1′ 9″	2′ 3″ 1′ 9⅛″	2′ 6″ 1′ 8⅛″
1.5	1′ 6¼″ 1′ 5″	1′ 6⅜″ 1′ 5½″	1′ 6½″ 1′ 5⅜″	1′ 6¾″ 1′ 5⅛″	1′ 7¼″ 1′ 4¾″	1′ 7⅜″ 1′ 4½″	1′ 8¾″ 1′ 4″
1.25	1′ 3⅛″ 1′ 2⅛″	1′ 3¼″ 1′ 2¾″	1′ 3⅜″ 1′ 2⅝″	1′ 3½″ 1′ 2½″	1′ 3¾″ 1′ 2¼″	1′ 4⅛″ 1′ 2″	1′ 4½″ 1′ 1¾″
1.0	1′ 11⅞″	1′⅛″ 11⅞″	1′⅛″ 11¾″	1′¼″ 11¾″	1′⅜″ 11⅝″	1′½″ 11½″	1′¾″ 11¼″

(in meters)

Dis (m) \ F No.	1.8	2.8	4	5.6	8	11	16
∞	∞ 20	∞ 13.1	∞ 9.25	∞ 6.56	∞ 4.66	∞ 3.32	∞ 2.36
5	6.60 4.03	7.98 3.65	10.6 3.28	20.1 2.88	∞ 2.45	∞ 2.03	∞ 1.64
3	3.50 2.63	3.84 2.47	4.35 2.30	5.36 2.10	8.01 1.87	27.2 1.62	∞ 1.36
2	2.20 1.83	2.33 1.75	2.50 1.67	2.80 1.56	3.36 1.43	4.71 1.29	11.2 1.13
1.5	1.61 1.41	1.67 1.36	1.76 1.31	1.89 1.25	2.13 1.17	2.58 1.07	3.73 0.96
1.2	1.27 1.14	1.30 1.11	1.35 1.08	1.43 1.04	1.56 0.98	1.78 0.91	2.24 0.83
1	1.04 0.96	1.07 0.94	1.10 0.92	1.15 0.89	1.23 0.85	1.36 0.80	1.60 0.74
0.8	0.83 0.78	0.84 0.76	0.86 0.75	0.89 0.73	0.93 0.70	1.00 0.67	1.12 0.63
0.6	0.61 0.59	0.62 0.58	0.63 0.57	0.64 0.56	0.66 0.55	0.70 0.53	0.75 0.51
0.5	0.51 0.49	0.51 0.49	0.52 0.48	0.53 0.47	0.54 0.47	0.56 0.45	0.59 0.44
0.4	0.41 0.40	0.41 0.39	0.41 0.39	0.42 0.39	0.42 0.38	0.43 0.37	0.45 0.36
0.3	0.30 0.30	0.30 0.30	0.31 0.29	0.31 0.29	0.31 0.29	0.31 0.29	0.32 0.28





35mm f/2.8 MC ROKKOR

Lens construction: 7 elements, 6 groups
Apertures: 2.8~16
Nearest focus: 0.4m (1.4 ft)
Ratio of object to image size at nearest focusing distance: 1:8 (0.125X)
Focusing distance, one head, vertical: 0.5m (1.7 ft)—subject to perspective distortion
Focusing distance, two heads, horizontal: 0.6m (2.1 ft)—subject to perspective distortion
Focusing distance, one to three persons (6 ft) standing: 2.1m (7 ft)
Angles of view: Diagonal: 64°
Horizontal: 54°
Vertical: 38°
Ratio of image size at infinity to image of standard lens (55 or 58mm = 1): 1:1.67 (0.6X)
Screw-in filter mount diameter: 55mm
Lens hood: Clip-on type
Replacement lens cap: 57mm
Weight: 215g (7.6 oz)

Close-Up Data

Extension Rings	Magnification	Distance Range—Subject to Film
50mm Macro ring (+25mm)	0.74~0.86×	158.01~155.61mm
100mm Macro ring (+50mm)	1.43~1.61×	179.52 ~ 175.96mm

Bellows Data	Auto Bellows I	Auto Bellows II	Bellows III
a. Distance to subject from lens edge (normal position)	27.39~7.96mm	25.57~9.53mm	30.04~7.96mm
Magnification (image ratio) range	1.11~4.49×	1.19~3.84×	1.03~4.55×
b. Distance to subject from lens edge set at infinity (reversed)	49.78~41.89mm	49.37~42.9mm	50.13~41.93mm
Magnification (image ratio) range	2.56~5.81×	2.63~5.16×	2.47~5.87×

Close-Up Lenses	Magnification	Area Range	Distance Range
No. 1	0.07~0.185×	343×514~130×194mm	607~287mm
No. 2	0.132~0.245×	182×272~ 98×147mm	369~243mm
No. 1+2	0.199~0.306×	120×181~ 78×118mm	286~221mm

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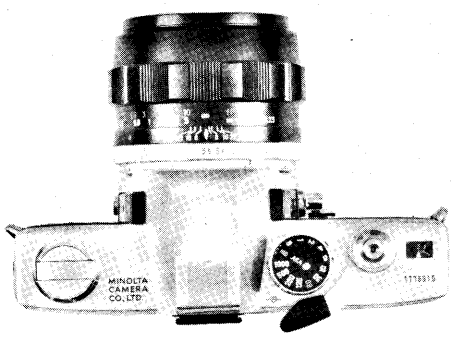
DEPTH-OF-FIELD TABLES FOR 35mm f/2.8 MC ROKKOR

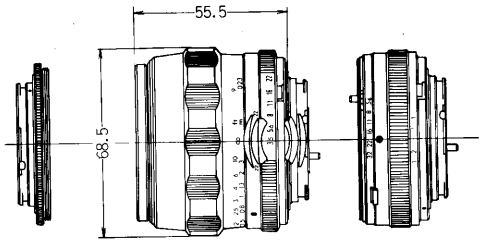
(in feet)

Dis ft \ F No.	1.8	2.8	4	5.6	8	11	16
∞	∞ 65′ 9″	∞ 42′10″	∞ 30′ 4″	∞ 21′ 6″	∞ 15′ 3″	∞ 10′11	∞ 7′ 9″
20	28′ 6″ 15′ 5″	36′11″ 13′ 9″	57′ 2″ 12′ 2″	256′ 10′ 6″	∞ 8′10″	∞ 7′ 2	∞ 5′ 8⅜″
10	11′ 8″ 8′ 8¾″	12′10″ 8′ 2¼″	14′ 7″ 7′ 7½″	18′ 1″ 6′11″	27′ 6″ 6′ 2⅛″	105′ 5′ 4¼″	∞ 4′ 6″
7	7′ 9¼″ 7′ 4⅜″	8′ 3⅛″ 6′ 1″	8′11″ 5′ 9¼″	10′ 1″ 5′ 4½″	12′ 4½″ 4′11″	18′ 4″ 4′ 4¾″	58′11″ 3′ 9¾″
5	5′ 4⅜″ 4′ 8⅛″	5′ 7″ 4′ 6¼″	5′10″ 4′ 4¼″	6′ 4⅛″ 4′ 1¾″	7′ 1¾″ 3′11″	8′ 8¾″ 3′ 6½″	12′ 9″ 3′ 2″
4	4′ 2″ 3′ 9½″	4′ 4½″ 3′ 3⅜″	4′ 6¼″ 3′ 7″	4′ 9⅜″ 3′ 5¼″	5′ 2½″ 3′ 3⅛″	6′ 0″ 3′3⅛″	7′ 7″ 2′ 9⅛″
3	3′ 1⅜″ 2′11″	3′ 2¼″ 2′10″	3′ 3¼″ 2′ 9¼″	3′ 4¾″ 2′ 8¼″	3′ 7⅛″ 2′ 7″	3′11″ 2′ 5¼″	4′ 6¼″ 2′ 3¼″
2.5	2′ 6″ 2′ 5⅛″	2′ 7½″ 2′ 4″	2′ 8⅛″ 2′ 4⅛″	2′ 9⅛″ 2′ 3⅜″	2′11″ 2′ 2½″	4′ 0″ 2′ 1⅜″	3′ 5″ 1′11″
2	2′½″ 1′11″	2′ 0″ 1′11″	2′ 1¼″ 1′11″	2′ 1¾″ 1′10″	2′ 2″ 1′ 9″	2′ 3″ 1′ 9⅛″	2′ 6″ 1′ 8⅛″
1.5	1′ 6¼″ 1′ 5″	1′ 6⅜″ 1′ 5½″	1′ 6½″ 1′ 5⅝″	1′ 6¾″ 1′ 5⅛″	1′ 7¼″ 1′ 4¾″	1′ 7⅜″ 1′ 4½″	1′ 8¾″ 1′ 4″
1.25	1′ 3⅛″ 1′ 2⅞″	1′ 3¼″ 1′ 2¾″	1′ 3⅜″ 1′ 2⅝″	1′ 3½″ 1′ 2½″	1′ 3¾″ 1′ 2¼″	1′ 4⅛″ 1′ 2″	1′ 4½″ 1′ 1¾″
1.0	1′ 11⅞″	1′⅛″ 11⅞″	1′⅛″ 11¾″	1′¼″ 11¾″	1′⅜″ 11⅝″	1′½″ 11½″	1′¾″ 11¼″

(in meters)

Dis (m) \ F No.	1.8	2.8	4	5.6	8	11	16
∞	∞ 20	∞ 13.1	∞ 9.25	∞ 6.56	∞ 4.66	∞ 3.32	∞ 2.36
5	6.60 4.03	7.98 3.65	10.6 3.28	20.1 2.88	∞ 2.45	∞ 2.03	∞ 1.64
3	3.50 2.63	3.84 2.47	4.35 2.30	5.36 2.10	8.01 1.87	27.2 1.62	∞ 1.36
2	2.20 1.83	2.33 1.75	2.50 1.67	2.80 1.56	3.36 1.43	4.71 1.29	11.2 1.13
1.5	1.61 1.41	1.67 1.36	1.76 1.31	1.89 1.25	2.13 1.17	2.58 1.07	3.73 0.96
1.2	1.27 1.14	1.30 1.11	1.35 1.08	1.43 1.04	1.56 0.98	1.78 0.91	2.24 0.83
1	1.04 0.96	1.07 0.94	1.10 0.92	1.15 0.89	1.23 0.85	1.36 0.80	1.60 0.74
0.8	0.83 0.78	0.84 0.76	0.86 0.75	0.89 0.73	0.93 0.70	1.00 0.67	1.12 0.63
0.6	0.61 0.59	0.62 0.58	0.63 0.57	0.64 0.56	0.66 0.55	0.70 0.53	0.75 0.51
0.5	0.51 0.49	0.51 0.49	0.52 0.48	0.53 0.47	0.54 0.47	0.56 0.45	0.59 0.44
0.4	0.41 0.40	0.41 0.39	0.41 0.39	0.42 0.39	0.42 0.38	0.43 0.37	0.45 0.36
0.3	0.30 0.30	0.30 0.30	0.31 0.29	0.31 0.29	0.31 0.29	0.31 0.29	0.32 0.28





50mm f/3.5 MC MACRO ROKKOR

Lens construction: 6 elements, 4 groups
Apertures: 3.5~22 (5.6~32 with intermediate tube)
Nearest focus: 0.23m (0.75 ft)
Ratio of object to image size at nearest focusing distance: 1:2 (0.5X); 1:1 with tube
Focusing distance, one head, vertical: 0.7m (2.25 ft)—subject to slight perspective distortion
Focusing distance, two heads, horizontal: 0.9m (3 ft)—subject to slight perspective distortion
Focusing distance, one to three persons (6 ft) standing: 3m (10 ft)
Angles of view: Diagonal: 45°
Horizontal: 38°
Vertical: 26°
Ratio of image size at infinity to image of standard lens (55 or 58mm = 1): 1:1.1 (0.9X)
Screw-in filter mount diameter: 55mm
Lens hood: Integral; lens deeply recessed within mount
Replacement lens cap: 57mm
Weight: 330g (11.6 oz)

Close-Up Data

Extension Rings	Magnification	Distance Range—Subject to Film
50mm Macro ring (+25mm)	0.50~1.00×	445.76 ~ 395.76mm
Reverse adapter	0.9×	203.8mm (8.02")

Bellows Data	Auto Bellows I	Auto Bellows II	Bellows III
a. Distance to subject from lens edge (normal position)	68.9~42.1mm	64.79~44.1mm	74.62~41.52mm
Magnification (image ratio) range	0.76~3.48×	0.81~3.03×	0.70~3.51×
b. Distance to subject from lens edge set at infinity (reversed)	67.86~49.75mm	67.01~51.79mm	68.76~49.67mm
Magnification (image ratio) range	1.64~3.85×	1.69~3.41×	1.58~3.89×

Close-Up Lenses	Magnification	Area Range	Distance Range
No. 1	0.103~0.588×	233×349~41×61mm	616~218mm
No. 2	0.195~0.675×	123×184~36×53mm	377~208mm
No. 1+2	0.294~0.764×	82×123~31×47mm	295~204mm

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Close-Up Lenses (With Adapter Ring)	Magnification	Area Range	Distance Range
No. 1	0.589~1.074×	41×61~22×34mm	218~203mm
No. 2	0.677~1.157×	35×53~21×31mm	208~201mm
No. 1+2	0.754~1.213×	32×48~20×30mm	205~202mm

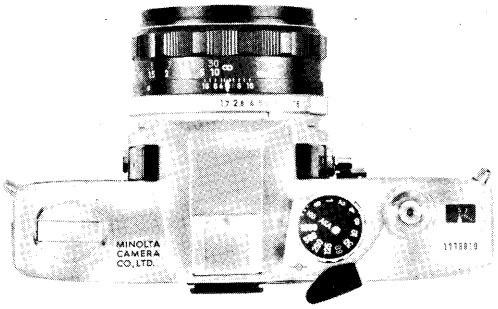
DEPTH-OF-FIELD TABLES FOR 50mm f/3.5 MC MACRO ROKKOR

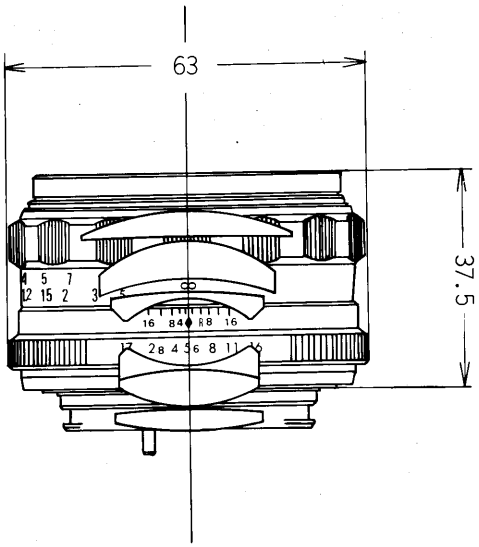
(in feet)

Dis ft \ F No.	3.5	4	5.6	8	11	16	22
∞	∞ 74′12″	∞ 65′ 7″	∞ 46′ 5″	∞ 32′11″	∞ 23′ 4″	∞ 16′ 6″	∞ 11′ 9″
10	11′ 6″ 8′10½″	11′ 8″ 8′ 8⅞″	12′ 7″ 8′ 3⅝″	14′ 2″ 7′ 9⅛″	17′ 1″ 7′ 1¼″	24′ 3″ 6′ 4½″	60′ 0″ 5′ 6½″
6	6′ 5¾″ 5′ 7⅛″	6′ 6⅝″ 5′ 6½″	6′ 9¾″ 5′ 4⅜″	7′ 2⅝″ 5′ 1¾″	7′10⅜″ 4′10¼″	9′ 1¼″ 4′ 5″	11′ 7″ 4′ 0″
4	4′ 2⅜″ 3′ 9⅞″	4′ 2¾″ 3′ 9¾″	4′ 3⅞″ 3′ 8⅝″	4′ 5¾″ 3′ 7⅜″	4′ 8⅜″ 3′ 5¾″	5′ 1¼″ 3′ 3⅝″	5′ 9¼″ 3′ 1″
3	3′ 1¼″ 2′10¼″	3′ 1¼″ 2′10¼″	3′ 2″ 2′10¼″	3′ 3″ 2′ 9½″	3′ 4⅜″ 2′ 8½″	3′ 6⅝″ 2′ 7½″	3′10¼″ 2′ 5⅞″
2.5	2′ 6¾″ 2′ 5¼″	2′ 6⅞″ 2′ 5¼″	2′ 7⅜″ 2′ 4¾″	2′ 8″ 2′ 4¼″	2′ 8⅞″ 2′ 3⅝″	2′10¼″ 2′ 2¾″	3′ ⅜″ 2′ 1⅝″
2	2′½″ 1′11½″	2′⅝″ 1′11⅜″	2′⅞″ 1′11¼″	2′ 1¼″ 1′10⅛″	2′ 1⅞″ 1′10⅜″	2′ 2¾″ 1′ 9⅞″	2′ 4¼″ 1′ 9″
1.75	1′ 9⅜″ 1′ 8⅝″	1′ 9⅜″ 1′ 8⅝″	1′ 9⅝″ 1′ 8⅜″	1′ 9⅞″ 1′ 8¼″	1′10⅜″ 1′ 7⅞″	1′11″ 1′ 7⅜″	1′11⅞″ 1′ 6¾″
1.5	1′ 6¼″ 1′ 5¾″	1′ 6¼″ 1′ 5¾″	1′ 6⅜″ 1′ 5⅜″	1′ 6⅝″ 1′ 5⅜″	1′ 6⅞″ 1′ 5¼″	1′ 7⅜″ 1′ 4⅞″	1′ 8″ 1′ 4⅜″
1.25	1′ 3⅛″ 1′ 2⅞″	1′ 3⅛″ 1′ 2⅞″	1′ 3¼″ 1′ 2¾″	1′ 3⅜″ 1′ 2⅝″	1′ 3⅝″ 1′ 2½″	1′ 3⅞″ 1′ 2¼″	1′ 4¼″ 1′ 2″
1	1′ 11⅞″	1′ 11⅞″	1′⅛″ 11⅞″	1′¼″ 11¾″	1′¼″ 11¾″	1′⅜″ 11⅝″	1′⅝″ 11⅜″
10(in.)	10″ 10″	10″ 10″	10⅛″ 9⅞″	10⅛″ 9⅞″	10⅛″ 9⅞″	10⅛″ 9¾″	10⅜″ 9⅜″
9(in.)	9″ 9″	9″ 9″	9″ 9″	9⅛″ 8¾″	9⅛″ 8¾″	9⅛″ 8¾″	9¼″ 8¾″

(in meters)

Dis (m) \ F No.	3.5	4	5.6	8	11	16	22
∞	∞ 30	∞ 20	∞ 14	∞ 10	∞ 7	∞ 5	∞ 3.6
3	3.4 2.7	3.5 2.6	3.8 2.5	4.2 2.3	5.1 2.1	7.1 1.9	16.6 1.7
2	2.2 1.9	2.2 1.8	2.3 1.8	2.5 1.7	2.7 1.6	3.2 1.5	4.3 1.3
1.3	1.4 1.2	1.4 1.2	1.4 1.2	1.5 1.2	1.7 1.1	1.7 1.1	1.9 1.0
1	1.0 0.96	1.0 0.96	1.1 0.94	1.1 0.92	1.1 0.89	1.2 0.86	1.3 0.81
0.8	0.82 0.78	0.83 0.78	0.84 0.77	0.86 0.75	0.88 0.73	0.92 0.71	0.98 0.68
0.6	0.61 0.59	0.62 0.59	0.62 0.58	0.63 0.57	0.65 0.56	0.68 0.55	0.70 0.53
0.5	0.51 0.49	0.51 0.49	0.51 0.49	0.52 0.49	0.53 0.48	0.54 0.46	0.56 0.45
0.4	0.41 0.40	0.41 0.39	0.41 0.39	0.41 0.39	0.42 0.38	0.43 0.38	0.44 0.37
0.35	0.354 0.346	0.354 0.346	0.356 0.344	0.359 0.342	0.363 0.338	0.368 0.334	0.376 0.328
0.3	0.303 0.298	0.303 0.297	0.304 0.296	0.306 0.294	0.308 0.292	0.312 0.289	0.317 0.285
0.25	0.251 0.249	0.252 0.248	0.252 0.248	0.253 0.247	0.255 0.245	0.257 0.244	0.260 0.241
0.23	0.231 0.229	0.231 0.229	0.232 0.228	0.233 0.228	0.234 0.227	0.235 0.225	0.237 0.223





55mm f/1.7 MC ROKKOR

Lens construction: 6 elements, 5 groups
Apertures: 1.7~16
Nearest focus: 0.5m (1.75 ft)
Ratio of object to image size at nearest focusing distance: 1:7.5 (0.133X)
Focusing distance, one head, vertical: 0.7m (2.5 ft)—subject to slight perspective distortion
Focusing distance, two heads, horizontal: 1m (3.3 ft)—subject to slight perspective distortion
Focusing distance, one to three persons (6 ft) standing: 3.1m (11 ft)
Angles of view: Diagonal: 43°
Horizontal: 36° 10′
Vertical: 24° 40′
Ratio of image size at infinity to image of standard lens (55 or 58mm = 1): 1:1 (1.0X)
Screw-in filter mount diameter: 52mm
Lens hood: Screw-in type
Replacement lens cap: 54mm
Weight: 225g (7.9 oz)

Close-Up Data

Extension Rings	Magnification	Distance Range—Subject to Film
50mm Macro ring (+25mm)	0.47~0.60×	243.73 ~ 225.46mm
100mm Macro ring (+50mm)	0.91~1.04×	211.24 ~ 210.83mm

Bellows Data	Auto Bellows I	Auto Bellows II	Bellows III
a. Distance to subject from lens edge (normal position)	97.28~45.46mm	92.84~48.96mm	104.15~45.41mm
Magnification (image ratio) range	0.71~2.90×	0.75~2.49×	0.65~2.94×
b. Distance to subject from lens edge set at infinity (reversed)	82.28~52.93mm	80.51~55.73mm	84.39~52.93mm
Magnification (image ratio) range	1.20~3.26×	1.24~2.85×	1.14~3.30×

Close-Up Lenses	Magnification	Area Range	Distance Range
No. 1	0.12~0.25×	197×227~96×144mm	600~330mm
No. 2	0.22~0.35×	109×163~69×103mm	360~260mm
No. 1+2	0.32~0.46×	74×112~52× 78mm	180~130mm

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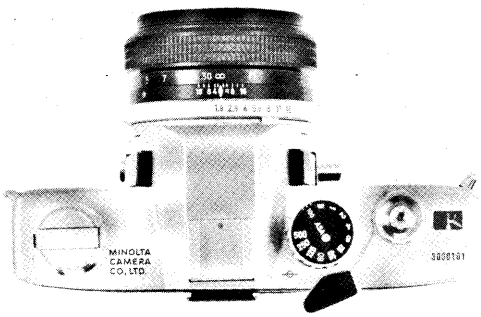
DEPTH-OF-FIELD TABLES FOR 55mm f/1.7 MC ROKKOR

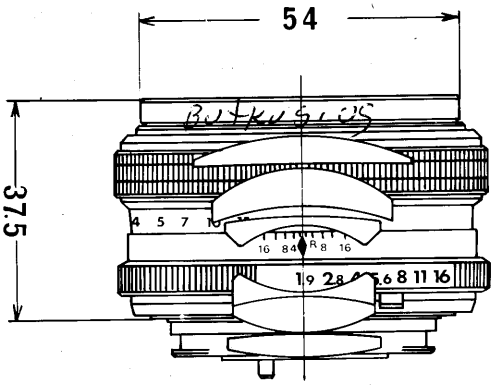
(in feet)

Dis. (ft) \ F No.	1.7	2.8	4	5.6	8	11	16
∞	∞ 175′	∞ 107′	∞ 75′	∞ 53′	∞ 38′	∞ 27′	∞ 19′
30	36′1″ 25′ 8″	41′ 6″ 23′ 6″	49′ 5″ 21′ 7″	67′ 7″ 19′ 4″	141′ 16′10″	∞ 14′ 3″	∞ 11′ 9″
15	16′ 4″ 13′10″	17′ 4″ 13′ 2″	18′ 7″ 12′ 7″	20′ 8″ 11′10″	24′ 6″ 10′10″	33′ 2″ 9′ 9″	67′ 4″ 8′ 6″
10	10′ 7″ 9′ 5⅞″	10′12″ 9′ 2¼″	11′ 5″ 8′10⅝″	12′ 2″ 8′ 5⅛″	13′ 5″ 7′11⅞″	15′ 7″ 7′ 4⅝″	20′ 5″ 6′ 8″
7	7′ 3¼″ 6′ 8″	7′ 5½″ 6′ 7¼″	7′ 7⅞″ 6′ 5⅜″	7′11¾″ 6′ 2⅞″	8′ 5⅝″ 5′11¾″	9′ 3⅜″ 5′ 7⅝″	10′ 9″ 5′ 2⅝″
5	5′ 1½″ 4′10½″	5′ 2⅝″ 4′ 9⅝″	5′ 3¾″ 4′ 8⅜″	5′ 5½″ 4′ 7⅜″	5′ 8⅛″ 4′ 5⅝″	6′1¼″ 4′ 3⅜″	6′ 7″ 4′½″
4	4′ 1″ 3′11⅛″	4′ 1⅝″ 3′10½″	4′ 2⅜″ 3′ 9⅞″	4′ 3⅜″ 3′ 9⅛″	4′ 4⅞″ 3′ 8″	4′ 7¼″ 3′ 6½″	4′11″ 3′ 4½″
3.5	3′ 6¾″ 3′ 5⅞″	3′ 7¼″ 3′ 4⅞″	3′ 7¾″ 3′ 4⅜″	3′ 8½″ 3′ 3¾″	3′ 9⅝″ 3′ 3″	3′11¼″ 3′ 1¾″	4′ 2″ 3′¼″
3	3′½″ 2′11½″	3′⅞″ 2′11⅛″	3′ 1¼″ 2′10⅞″	3′ 1¾″ 2′10⅜″	3′ 2½″ 2′ 9¾″	3′ 3¾″ 2′ 9″	3′ 5½″ 2′ 7¾″
2.5	2′ 6⅜″ 2′ 5¾″	2′ 6¼″ 2′ 5½″	2′ 6¾″ 2′ 5¼″	2′ 7⅛″ 2′ 4″	2′ 7¾″ 2′ 4½″	2′ 8⅜″ 2′ 4″	2′ 9⅝″ 2′ 3¼″
2.25	2′ 3¼″ 2′ 2¾″	2′ 3⅜″ 2′ 2⅝″	2′ 3⅜″ 2′ 2⅜″	2′ 3⅞″ 2′ 2¼″	2′ 4¼″ 2′ 1¾″	2′ 4⅞″ 2′ 1⅜″	2′ 5¾″ 2′ 1¼″
2	2′⅛″ 1′11⅞″	2′¼″ 1′11¾″	2′½″ 1′11⅝″	2′¾″ 1′11⅜″	2′ 1″ 1′11⅛″	2′ 1½″ 1′10¾″	2′ 2″ 1′10¼″
1.75	1′ 9⅛″ 1′ 8⅞″	1′ 9¼″ 1′ 8¾″	1′ 9¼″ 1′ 8⅝″	1′ 9½″ 1′ 8½″	1′ 9″ 1′ 8¼″	1′10″ 1′ 8⅛″	1′10½″ 1′ 7⅞″

(in meters)

Dis. (m) \ F No.	1.7	2.8	4	5.6	8	11	16
∞	∞ 55	∞ 33	∞ 23	∞ 16	∞ 11.5	∞ 8.2	∞ 5.8
10	12.3 8.4	14.4 7.7	17.6 7.0	25.6 6.2	72.6 5.4	∞ 4.5	∞ 3.7
5	5.5 4.6	5.9 4.4	6.3 4.1	7.1 3.9	8.7 3.5	12.5 3.1	33.9 2.7
3	3.17 2.85	3.29 2.76	3.43 2.67	3.64 2.55	4.0 2.41	4.64 2.22	6.01 2.01
2	2.07 1.93	2.12 1.89	2.18 1.85	2.26 1.80	2.39 1.72	2.59 1.63	2.96 1.52
1.5	1.54 1.46	1.57 1.44	1.59 1.42	1.64 1.39	1.70 1.34	1.80 1.29	1.97 1.22
1.2	1.22 1.18	1.24 1.16	1.26 1.15	1.28 1.13	1.32 1.10	1.38 1.06	1.47 1.02
1	1.02 1.98	1.03 0.98	1.04 0.96	1.06 0.95	1.08 0.93	1.12 0.91	1.18 0.87
0.9	0.91 0.89	0.92 0.88	0.93 0.87	0.94 0.86	0.96 0.85	0.99 0.82	1.04 0.80
0.8	0.81 0.79	0.82 0.78	0.82 0.78	0.83 0.77	0.85 0.76	0.87 0.74	0.90 0.72
0.7	0.71 0.69	0.71 0.69	0.72 0.68	0.73 0.68	0.74 0.67	0.75 0.66	0.77 0.64
0.6	0.61 0.60	0.61 0.59	0.61 0.59	0.62 0.58	0.63 0.58	0.64 0.57	0.65 0.56
0.55	0.55 0.55	0.56 0.54	0.56 0.54	0.56 0.54	0.57 0.53	0.58 0.53	0.59 0.52





55mm f/1.9 MC ROKKOR

Lens construction: 6 elements, 5 groups
Apertures: 1.9~16
Nearest focus: 0.5m (1.75 ft)
Ratio of object to image size at nearest focusing distance: 1:7.5 (0.133X)
Focusing distance, one head, vertical: 0.7m (2.5 ft)—subject to slight perspective distortion
Focusing distance, two heads, horizontal: 1m (3.3 ft)—subject to slight perspective distortion
Focusing distance, one to three persons (6 ft) standing: 3.1m (11 ft)
Angles of view: Diagonal: 43°
Horizontal: 36° 10′
Vertical: 24° 40′
Ratio of image size at infinity to image of standard lens (55 or 58mm = 1): 1:1 (1.0X)
Screw-in filter mount diameter: 52mm
Lens hood: Screw-in type
Replacement lens cap: 54mm
Weight: 225g (7.9 oz)

Close-Up Data

Extension Rings	Magnification	Distance Range—Subject to Film
50mm Macro ring (+25mm)	0.47~0.60×	243.73 ~ 225.46mm
100mm Macro ring (+50mm)	0.91~1.04×	211.24 ~ 210.83mm

Bellows Data	Auto Bellows I	Auto Bellows II	Bellows III
a. Distance to subject from lens edge (normal position)	97.28~45.46mm	92.84~48.96mm	104.15~45.41mm
Magnification (image ratio) range	0.71~2.90×	0.75~2.49×	0.65~2.94×
b. Distance to subject from lens edge set at infinity (reversed)	82.28~52.93mm	80.51~55.73mm	84.39~52.93mm
Magnification (image ratio) range	1.20~3.26×	1.24~2.85×	1.14~3.30×

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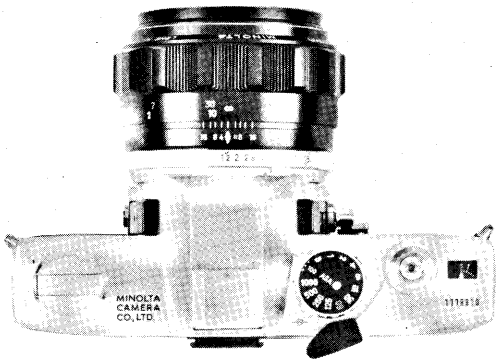
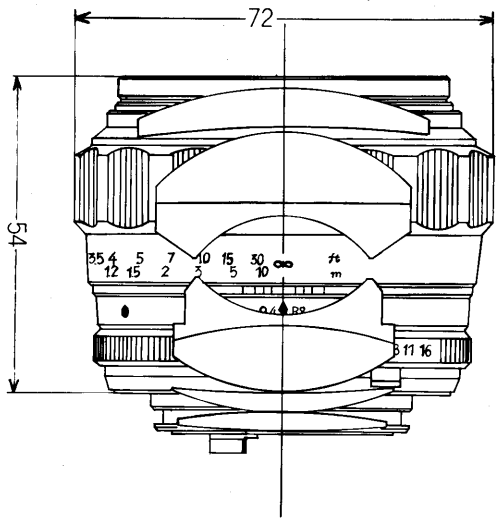
Close-Up Lenses	Magnification	Area Range	Distance Range
No. 1	0.12~0.25×	197×227~96×144mm	600~330mm
No. 2	0.22~0.35×	109×163~69×103mm	360~260mm
No. 1+2	0.32~0.46×	74×112~52× 78mm	180~130mm

DEPTH-OF-FIELD TABLE FOR 55mm f/1.9 MC ROKKOR

(in feet)

F No / Dis (ft)	1.9	2.8	4	5.6	8	11	16
∞	∞ 156′	∞ 107′	∞ 75′ 5″	∞ 53′ 5″	∞ 37′ 9″	∞ 26′ 9″	∞ 19′
30	37′ 25′ 3″	41′ 6″ 23′ 6″	49′ 5″ 21′ 7″	67′ 7″ 19′ 4″	141′ 16′10″	∞ 14′ 3″	∞ 11′ 9″
15	16′ 6″ 13′ 9″	17′ 4″ 13′ 2″	18′ 7″ 12′ 7″	20′ 8″ 11′10″	24′ 5″ 10′10″	33′ 2″ 9′ 9″	67′ 4″ 8′ 6″
10	10′ 8″ 9′ 5⅛″	10′12″ 9′ 2¼″	11′ 5″ 8′10⅝″	12′ 2″ 8′ 5⅞″	13′ 5″ 7′11⅞″	15′ 7″ 7′ 4⅝″	20′ 5″ 6′ 8″
7	7′ 3⅝″ 6′ 8⅝″	7′ 5½″ 6′ 7¼″	7′ 7⅞″ 6′ 5⅜″	7′11¾″ 6′ 2⅞″	8′ 5⅝″ 5′11¾″	9′ 3⅜″ 5′ 7⅝″	10′ 9″ 5′ 2⅝″
5	5′ 1¾″ 4′10⅜″	5′ 2⅝″ 4′ 9⅝″	5′ 3¾″ 4′ 8⅝″	5′ 5½″ 4′ 7⅞″	5′ 8⅛″ 4′ 5⅝″	6′1¼″ 4′ 3⅜″	6′ 7″ 4′½″
4	4′ 1⅛″ 3′10″	4′ 1⅝″ 3′10½″	4′ 2⅜″ 3′ 9⅞″	4′ 3⅜″ 3′ 9⅛″	4′ 4⅞″ 3′ 8″	4′ 7¼″ 3′ 6½″	4′11″ 3′ 4½″
3.5	3′ 6¾″ 3′ 5¼″	3′ 7¼″ 3′ 4⅞″	3′ 7¾″ 3′ 4⅜″	3′ 8½″ 3′ 3¾″	3′ 9⅝″ 3′ 3″	3′11¼″ 3′ 1¾″	4′ 2″ 3′¼″
3	3′½″ 2′11½″	3′⅞″ 2′11⅛″	3′ 1¼″ 2′10⅞″	3′ 1¾″ 2′10⅜″	3′ 2½″ 2′ 9¾″	3′ 3¾″ 2′ 9″	3′ 5½″ 2′ 7¾″
2.5	2′ 6½″ 2′ 5⅝″	2′ 6½″ 2′ 5½″	2′ 6¾″ 2′ 5¼″	2′ 7⅛″ 2′ 5″	2′ 7¾″ 2′ 4½″	2′ 8⅜″ 2′ 4″	2′ 9⅝″ 2′ 3¼″
2.25	2′ 3¼″ 2′ 2¾″	2′ 3⅜″ 2′ 2⅝″	2′ 3⅝″ 2′ 2⅜″	2′ 3⅞″ 2′ 2¼″	2′ 4¼″ 2′ 1¾″	2′ 4⅞″ 2′ 1⅜″	2′ 5¾″ 2′ 1¼″
2	2′¼″ 1′11¾″	2′¼″ 1′11¾″	2′½″ 1′11⅝″	2′¾″ 1′11⅜″	2′ 1″ 1′11⅛″	2′ 1½″ 1′10¾″	2′ 2″ 1′10¼″
1.75	1′ 9⅛″ 1′ 8¾″	1′ 9¼″ 1′ 8¾″	1′ 9⅜″ 1′ 8⅝″	1′ 9½″ 1′ 8½″	1′ 9⅝″ 1′ 8¼″	1′10″ 1′ 8⅛″	1′10½″ 1′ 7¾″





58mm f/1.2 MC ROKKOR

Lens construction: 7 elements, 5 groups
Apertures: 1.2~6
Nearest focus: 0.6m (2 ft)
Ratio of object to image size at nearest focusing distance: 1:8 (0.125X)
Focusing distance, one head, vertical: 0.85m (2.8 ft)—subject to slight perspective distortion
Focusing distance, two heads, horizontal: 1.1m (3.5 ft)—subject to slight perspective distortion
Focusing distance, one to three persons (6 ft) standing: 3.5m (11.5 ft)
Angles of view: Diagonal: 41°
Horizontal: 34° 30′
Vertical: 23° 20′
Ratio of image size at infinity to image of standard lens (55 or 58mm = 1): 1:1 (1.0X)
Screw-in filter mount diameter: 55mm
Lens hood: Exclusive angle (Minolta-type)
Replacement lens cap: 57mm
Weight: 455g (16.0 oz)

Close-Up Data

Extension Rings	Magnification	Distance Range—Subject to Film
50mm Macro ring (+25mm)	0.44~0.56×	256.89~235.17mm
100mm Macro ring (+50mm)	0.84~0.97×	216.51~214.76mm
Reverse adapter	0.8×	217.5mm (8.56")

Bellows Data	Auto Bellows I	Auto Bellows II	Bellows III
a. Distance to subject from lens edge (normal position)	88.57~28.08mm	83.31~31.66mm	95.76~27.61mm
Magnification (image ratio) range	0.66~2.71×	0.70~2.32×	0.61~2.74×
b. Distance to subject from lens edge set at infinity (reversed)	76.98~54.15mm	76.5~56.3mm	78.46~53.77mm
Magnification (image ratio) range	1.46~3.39×	1.51~3.00×	1.41~3.42×

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Close-Up Lenses	Magnification	Area Range	Distance Range
No. 1	0.12~0.25×	199×299~96×144mm	600~360mm
No. 2	0.23~0.36×	104×157~67×100mm	360~280mm
No. 1+2	0.34~0.47×	67×106~51× 76mm	180~130mm

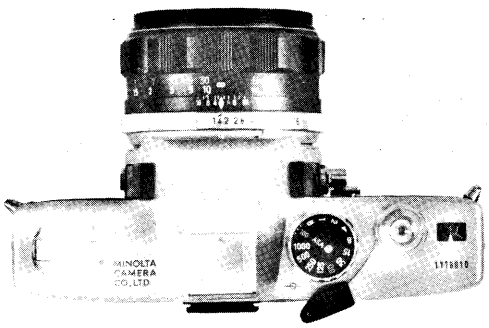
DEPTH-OF-FIELD TABLES FOR 58mm f/1.2 MC ROKKOR

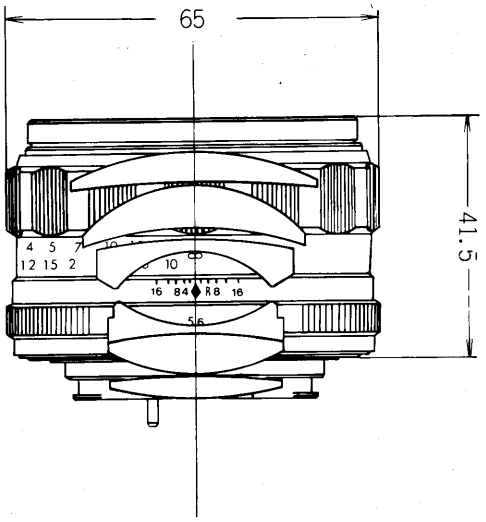
(in feet)

Dis (ft) \ F No.	1.2	1.4	2	2.8	4	5.6	8	11	16
∞	∞ 282′	∞ 244′	∞ 171′	∞ 121′	∞ 85′	∞ 61′	∞ 43′	∞ 30′	∞ 22′
30	33′ 6″ 27′ 2″	34′ 2″ 26′ 9″	36′ 3″ 25′ 7″	39′ 9″ 24′ 1″	45′11″ 22′ 4″	59′ 0″ 20′ 2″	98′ 0″ 17′ 9″	∞ 15′ 2″	∞ 12′ 8″
15	15′10″ 14′ 3″	15′11″ 14′ 2″	16′ 5″ 13′10″	17′ 1″ 13′ 5″	18′ 1″ 12′10″	19′ 9″ 12′11″	22′ 9″ 11′ 3″	29′ 0″ 10′ 2″	47′ 7″ 9′ 0″
10	10′ 4″ 9′ 8⅛″	10′ 5″ 9′ 8″	10′ 7″ 9′ 6″	10′10″ 9′ 3″	11′ 3″ 9′ 0″	11′10″ 8′ 8″	12′11″ 8′ 2″	14′ 8″ 7′ 7″	18′ 2″ 6′11″
7	7′ 2″ 6′⅛″	7′ 2¼″ 6′10″	7′ 3″ 6′ 9″	7′ 5″ 6′ 8″	7′ 7″ 6′ 6″	7′10″ 6′ 4″	8′ 3″ 6′ 1″	8′11″ 5′ 9″	10′ 1″ 5′ 5″
5	5′⅞″ 4′11″	5′ 1″ 4′11″	5′ 2″ 4′10″	5′ 2″ 4′10″	5′ 3″ 4′ 9″	5′ 5″ 4′ 8″	5′ 7″ 4′ 6″	5′10″ 4′ 4″	6′ 4″ 4′ 2″
4	4′½″ 3′11⅜″	4′ 1″ 3′11″	4′ 1″ 3′11″	4′ 1″ 3′11″	4′ 2″ 3′10″	4′ 3″ 3′ 9″	4′ 4″ 3′ 8″	4′ 6″ 3′ 7″	4′ 9″ 3′ 5″
3.5	3′ 6″ 3′ 5½″	3′ 6½″ 3′ 5½″	3′ 6¾″ 3′ 5¼″	3′ 7″ 3′ 4¾″	3′ 7½″ 3′ 4½″	3′ 8¼″ 3′ 4″	3′ 9¼″ 3′ 3¼″	3′10¾″ 3′ 2¼″	4′¾″ 3′¾″
3	3′¼″ 2′11⅝″	3′½″ 2′11¾″	3′½″ 2′11½″	3′¾″ 2′11¼″	3′ 1″ 2′10¾″	3′ 1½″ 2′10½″	3′ 2¼″ 2′10″	3′ 3¼″ 2′ 9¼″	3′ 4¾″ 2′ 8¼″
2.5	2′ 6⅛″ 2′ 5¾″	2′ 6¼″ 2′ 5¾″	2′ 6½″ 2′ 5¾″	2′ 5½″ 2′ 5½″	2′ 6¾″ 2′ 5¼″	2′ 7″ 2′ 5″	2′ 7½″ 2′ 4¾″	2′ 8¼″ 2′ 4¼″	2′ 9″ 2′ 3½″
2.25	2′ 3⅛″ 2′ 2⅞″	2′ 3¼″ 2′ 2¾″	2′ 3¼″ 2′ 2¾″	2′ 3½″ 2′ 2¾″	2′ 3½″ 2′ 2½″	2′ 3¾″ 2′ 2¼″	2′ 4¼″ 2′ 2″	2′ 4¾″ 2′ 1½″	2′ 5½″ 2′ 1″
2	2′⅛″ 1′11⅞″	2′¼″ 1′11¾″	2′¼″ 1′11¾″	2′¼″ 1′11¾″	2′½″ 1′11¾″	2′¾″ 1′11½″	2′¾″ 1′11¼″	2′ 1¼″ 1′10¾″	2′ 1¾″ 1′10½″

(in meters)

Dis m \ F No.	1.2	1.4	2	2.8	4	5.6	8	11	16
∞	∞ 86.0	∞ 74.2	∞ 53.8	∞ 38.0	∞ 26.9	∞ 19.1	∞ 13.5	∞ 9.6	∞ 6.8
10	11.3 9.0	11.5 8.8	12.2 8.5	13.5 8.0	15.8 7.3	20.8 6.6	37.7 5.8	∞ 4.9	∞ 4.1
5	5.3 4.7	5.4 4.7	5.5 4.6	5.7 4.4	6.1 4.2	6.7 4.0	7.8 3.7	10.2 3.3	18.1 2.9
3	3.10 2.90	3.12 2.89	3.17 2.85	3.24 2.79	3.36 2.71	3.53 2.61	3.81 2.48	4.29 2.31	5.22 2.11
2	2.04 1.96	2.05 1.95	2.07 1.93	2.10 1.91	2.15 1.87	2.22 1.82	2.32 1.76	2.48 1.68	2.76 1.57
1.5	1.52 1.48	1.53 1.47	1.54 1.46	1.56 1.45	1.58 1.43	1.61 1.40	1.67 1.37	1.75 1.32	1.88 1.25
1.2	1.22 1.19	1.22 1.18	1.22 1.18	1.23 1.17	1.25 1.16	1.27 1.14	1.30 1.11	1.35 1.08	1.42 1.04
1	1.01 0.99	1.01 0.99	1.02 0.99	1.02 0.98	1.03 0.97	1.05 0.96	1.07 0.94	1.10 0.92	1.14 0.89
0.9	0.91 0.89	0.91 0.89	0.91 0.89	0.92 0.88	0.93 0.88	0.94 0.87	0.95 0.85	0.98 0.84	1.01 0.81
0.8	0.81 0.79	0.81 0.79	0.81 0.79	0.81 0.79	0.82 0.78	0.83 0.77	0.84 0.76	0.86 0.75	0.89 0.73
0.7	0.71 0.70	0.71 0.70	0.71 0.71	0.71 0.69	0.71 0.69	0.72 0.68	0.73 0.67	0.74 0.66	0.76 0.65
0.6	0.60 0.60	0.60 0.60	0.61 0.60	0.61 0.59	0.61 0.59	0.61 0.59	0.62 0.58	0.63 0.57	0.64 0.56





58mm f/1.4 MC ROKKOR

Lens construction: 6 elements, 5 groups
Apertures: 1.4~16
Nearest focus: 0.6m (2 ft)
Ratio of object to image size at nearest focusing distance: 1:8 (0.125X)
Focusing distance, one head, vertical: 0.85m (2.8 ft)—subject to slight perspective distortion
Focusing distance, two heads, horizontal: 1.1m (3.5 ft)—subject to slight perspective distortion
Focusing distance, one to three persons (6 ft) standing: 3.5m (11.5 ft)
Angles of view: Diagonal: 41°
Horizontal: 34° 30′
Vertical: 23° 20′
Ratio of image size at infinity to image of standard lens (55 or 58mm = 1): 1:1 (1.0X)
Screw-in filter mount diameter: 55mm
Lens hood: Screw-in type
Replacement lens cap: 57mm
Weight: 275g (7.60 oz)

Close-Up Data

Extension Rings	Magnification	Distance Range—Subject to Film
50mm Macro ring (+25mm)	0.44~0.56×	269.98~248.30mm
100mm Macro ring (+50mm)	0.85~0.97×	229.45~227.94mm
Reverse adapter	0.4×	292.0mm (11.5″)

Bellows Data	Auto Bellows I	Auto Bellows II	Bellows III
a. Distance to subject from lens edge (normal position)	114.23~53.61mm	108.98~57.24mm	121.61~53.65mm
Magnification (image ratio) range	0.66~2.71×	0.70~2.32×	0.61~2.75×
b. Distance to subject from lens edge set at infinity (reversed)	93.94~56.53mm	91.66~59.53mm	96.91~56.1mm
Magnification (image ratio) range	1.03~2.96×	1.07~2.57×	0.98~2.99×

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Close-Up Lenses	Magnification	Area Range	Distance Range
No. 1	0.12~0.25×	199×299~96×144mm	600~360mm
No. 2	0.23~0.36×	104×157~67×100mm	360~280mm
No. 1+2	0.34~0.47×	67×106~51× 76mm	180~130mm

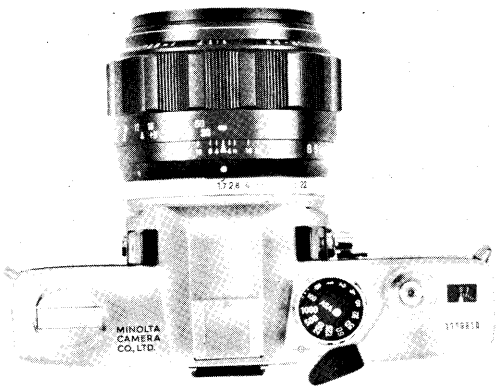
DEPTH-OF-FIELD TABLES FOR 58mm f/1.4 MC ROKKOR

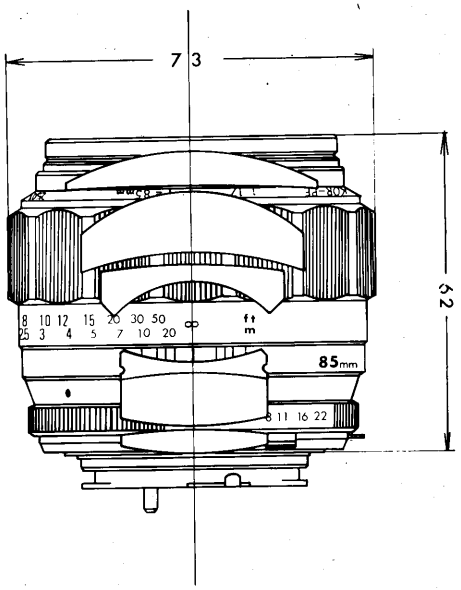
(in feet)

Dis.(ft) \ F No.	1.2	1.4	2	2.8	4	5.6	8	11	16
∞	∞ 282′	∞ 244′	∞ 171′	∞ 121′	∞ 85′	∞ 61′	∞ 43′	∞ 30′	∞ 22′
30	33′ 6″ 27′ 2″	34′ 2″ 26′ 9″	36′ 3″ 25′ 7″	39′ 9″ 24′ 1″	45′11″ 22′ 4″	59′ 0″ 20′ 2″	98′ 0″ 17′ 9″	∞ 15′ 2″	∞ 12′ 8″
15	15′10″ 14′ 3″	15′11″ 14′ 2″	16′ 5″ 13′10″	17′ 1″ 13′ 5″	18′ 1″ 12′10″	19′ 9″ 12′11″	22′ 9″ 11′ 3″	29′ 0″ 10′ 2″	47′ 7″ 9′ 0″
10	10′ 4″ 9′ 8⅛″	10′ 5″ 9′ 8″	10′ 7″ 9′ 6″	10′10″ 9′ 3″	11′ 3″ 9′ 0″	11′10″ 8′ 8″	12′11″ 8′ 2″	14′ 8″ 7′ 7″	18′ 2″ 6′11″
7	7′ 2″ 6′⅛″	7′ 2¼″ 6′10″	7′ 3″ 6′ 9″	7′ 5″ 6′ 8″	7′ 7″ 6′ 6″	7′10″ 6′ 4″	8′ 3″ 6′ 1″	8′11″ 5′ 9″	10′ 1″ 5′ 5″
5	5′⅛″ 4′11″	5′ 1″ 4′11″	5′ 2″ 4′10″	5′ 2″ 4′10″	5′ 3″ 4′ 9″	5′ 5″ 4′ 8″	5′ 7″ 4′ 6″	5′10″ 4′ 4″	6′ 4″ 4′ 2″
4	4′½″ 3′11⅜″	4′ 1″ 3′11″	4′ 1″ 3′11″	4′ 1″ 3′11″	4′ 2″ 3′10″	4′ 3″ 3′ 9″	4′ 4″ 3′ 8″	4′ 6″ 3′ 7″	4′ 9″ 3′ 5″
3.5	3′ 6″ 3′ 5½″	3′ 6½″ 3′ 5½″	3′ 6¾″ 3′ 5¼″	3′ 7″ 3′ 4¾″	3′ 7½″ 3′ 4½″	3′ 8¼″ 3′ 4″	3′ 9¼″ 3′ 3¼″	3′10¾″ 3′ 2¼″	4′¾″ 3′¾″
3	3′¼″ 2′11⅝″	3′½″ 2′11¾″	3′½″ 2′11½″	3′¾″ 2′11¼″	3′ 1″ 2′10¼″	3′ 1½″ 2′10½″	3′ 2¼″ 2′10″	3′ 3¼″ 2′ 9¼″	3′ 4¾″ 2′ 8¼″
2.5	2′ 6⅛″ 2′ 5¾″	2′ 6¼″ 2′ 5¾″	2′ 6½″ 2′ 5¾″	2′ 5½″ 2′ 5½″	2′ 6¾″ 2′ 5¼″	2′ 7″ 2′ 5″	2′ 7½″ 2′ 4¾″	2′ 8¼″ 2′ 4¼″	2′ 9″ 2′ 3½″
2.25	2′ 3⅛″ 2′ 2⅞″	2′ 3¼″ 2′ 2¾″	2′ 3¼″ 2′ 2¾″	2′ 3½″ 2′ 2¾″	2′ 3½″ 2′ 2½″	2′ 3¾″ 2′ 2¼″	2′ 4¼″ 2′ 2″	2′ 4¾″ 2′ 1½″	2′ 5½″ 2′ 1″
2	2′⅛″ 1′11⅞″	2′¼″ 1′11¾″	2′¼″ 1′11¾″	2′¼″ 1′11¾″	2′½″ 1′11¾″	2′¾″ 1′11½″	2′¾″ 1′11¼″	2′ 1¼″ 1′10¾″	2′ 1¾″ 1′10½″

(in meters)

Dis. m \ F No.	1.2	1.4	2	2.8	4	5.6	8	11	16
∞	∞ 86.0	∞ 74.2	∞ 53.8	∞ 38.0	∞ 26.9	∞ 19.1	∞ 13.5	∞ 9.6	∞ 6.8
10	11.3 9.0	11.5 8.8	12.2 8.5	13.5 8.0	15.8 7.3	20.8 6.6	37.7 5.8	∞ 4.9	∞ 4.1
5	5.3 4.7	5.4 4.7	5.5 4.6	5.7 4.4	6.1 4.2	6.7 4.0	7.8 3.7	10.2 3.3	18.1 2.9
3	3.10 2.90	3.12 2.89	3.17 2.85	3.24 2.79	3.36 2.71	3.53 2.61	3.81 2.48	4.29 2.31	5.22 2.11
2	2.04 1.96	2.05 1.95	2.07 1.93	2.10 1.91	2.15 1.87	2.22 1.82	2.32 1.76	2.48 1.68	2.76 1.57
1.5	1.52 1.48	1.53 1.47	1.54 1.46	1.56 1.45	1.58 1.43	1.61 1.40	1.67 1.37	1.75 1.32	1.88 1.25
1.2	1.22 1.19	1.22 1.18	1.22 1.18	1.23 1.17	1.25 1.16	1.27 1.14	1.30 1.11	1.35 1.08	1.42 1.04
1	1.01 0.99	1.01 0.99	1.02 0.99	1.02 0.98	1.03 0.97	1.05 0.96	1.07 0.94	1.10 0.92	1.14 0.89
0.9	0.91 0.89	0.91 0.89	0.91 0.89	0.92 0.88	0.93 0.88	0.94 0.87	0.95 0.85	0.98 0.84	1.01 0.81
0.8	0.81 0.79	0.81 0.79	0.81 0.79	0.81 0.79	0.82 0.78	0.83 0.77	0.84 0.76	0.86 0.75	0.89 0.73
0.7	0.71 0.70	0.71 0.70	0.71 0.71	0.71 0.69	0.71 0.69	0.72 0.68	0.73 0.67	0.74 0.66	0.76 0.65
0.6	0.60 0.60	0.60 0.60	0.61 0.60	0.61 0.59	0.61 0.59	0.61 0.59	0.62 0.58	0.63 0.57	0.64 0.56





85mm f/1.7 MC TELE ROKKOR

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

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

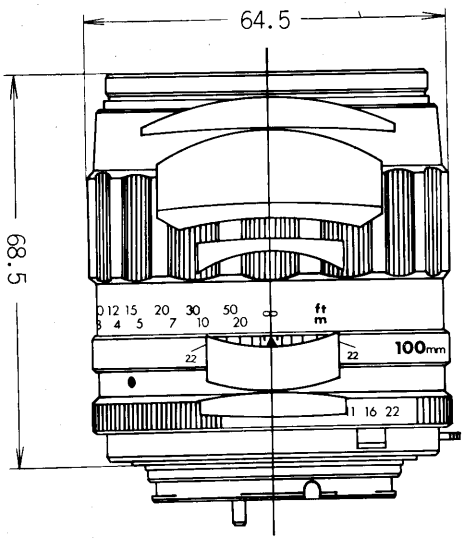
DEPTH-OF-FIELD TABLES FOR 85mm f/1.7 MC TELE ROKKOR

(in feet)

Dis ft \ 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′ 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″ 12′ 2″	22′ 5″ 11′ 4″	28′ 2″ 10′ 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 7/16″	19′ 8′ 9½″
10	10′ 3″ 9′ 9 5/16″	10′ 5″ 9′ 7 5/8″	10′ 7″ 9′ 5 7/8″	10′10″ 9′ 3 9/16″	11′ 2″ 9′ 1 1/16″	11′ 9″ 8′ 8¼″	12′ 9″ 8′ 2 15/16″	14′ 4″ 7′ 8 5/16″
8	8′ 1 11/16″ 7′10 5/16″	8′ 2 7/8″ 7′ 9 3/16″	8′ 4 3/16″ 7′ 8 1/8″	8′ 6″ 7′ 6 5/8″	8′ 8¾″ 7′ 4 9/16″	9′ 3/16″ 7′ 1 13/16″	9′ 7 3/8″ 6′10¼″	10′ 6″ 6′ 5 11/16″
7	7′ 1¼″ 6′10 11/16″	7′ 2¾″ 6′ 9 7/8″	7′ 3 1/8″ 6′ 9 1/16″	7′ 4½″ 6′ 7 7/8″	7′ 6½″ 6′ 6 5/16″	7′ 9 9/16″ 6′ 4 3/16″	8′ 2¼″ 6′ 1 7/16″	8′ 9¾″ 5′ 9 9/16″
6	6′ 1 5/16″ 5′11 1/16″	6′ 1 15/16″ 5′10 1/16″	6′ 2¼″ 5′ 9 1/8″	6′ 3 3/16″ 5′ 9″	6′ 4 5/8″ 5′ 7 1/8″	6′ 6¾″ 5′ 6 5/16″	6′10″ 5′ 4 3/16″	7′ 3″ 5′ 1½″
5	5′ 5/8″ 4′11 3/8″	5′ 1″ 4′10 5/16″	5′ 1½″ 4′10½″	5′ 2 1/8″ 4′ 9 5/16″	5′ 3 1/16″ 4′ 9 3/16″	5′ 4½″ 4′ 8 1/16″	5′ 6 3/8″ 4′ 6 5/8″	5′ 9¾″ 4′ 4 11/16″
4.5	4′ 6½″ 4′ 5½″	4′ 6 13/16″ 4′ 5 1/8″	4′ 7 3/16″ 4′ 4 13/16″	4′ 7 11/16″ 4′ 4 3/8″	4′ 8 7/16″ 4′ 3¾″	4′ 9½″ 4′ 2 7/8″	4′11 1/8″ 4′ 1 1/16″	5′ 1 9/16″ 4′1/8″
4	4′3/8″ 3′11 9/16″	4′5/8″ 3′11 5/16″	4′7/8″ 3′11 1/16″	4′ 1 5/16″ 3′10¾″	4′ 1 7/8″ 3′10¼″	4′ 2 1/16″ 3′ 9 9/16″	4′ 3 1/16″ 3′ 8 3/8″	4′ 5¾″ 3′ 7 3/8″
3.5	3′ 6¼″ 3′ 5 11/16″	3′ 6 7/16″ 3′ 5½″	3′ 6 5/8″ 3′ 5 5/16″	3′ 6 15/16″ 3′ 5 1/16″	3′ 7 3/8″ 3′ 4 11/16″	3′ 7 15/16″ 3′ 4 3/16″	3′ 8 3/16″ 3′ 3 1/16″	3′10 3/16″ 3′ 2½″

(in meters)

Dis m \ 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



100mm f/2.5 MC TELE ROKKOR

Lens construction: 6 elements, 5 groups
Apertures: 2.5~22
Nearest focus: 1.2m (4 ft)
Ratio of object to image size at nearest focusing distance: 1:9.5 (0.105X)
Focusing distance, one head, vertical: 1.5m (4.8 ft)
Focusing distance, two heads, horizontal: 1.8m (6 ft)
Focusing distance, one to three persons (6 ft) standing: 6.1m (20 ft)
Angles of view: Diagonal: 24°
Horizontal: 20° 40′
Vertical: 13° 40′
Ratio of image size at infinity to image of standard lens (55 or 58mm = 1): 1.8:1 (1.8X)
Screw-in filter mount diameter: 55mm
Lens hood: Exclusive angle (Minolta-type)
Replacement lens cap: 57mm
Weight: 410g (14.4 oz)

Close-Up Data

Extension Rings	Magnification	Distance Range—Subject to Film
50mm Macro ring (+25mm)	0.26~0.36×	600.73~503.90mm
100mm Macro ring (+50mm)	0.50~0.60×	440.12~416.78mm

Bellows Data	Auto Bellows I	Auto Bellows II	Bellows III
a. Distance to subject from lens edge (normal position)	334.53~149.47mm	316.71~159.55mm	355.90~143.42mm
Magnification (image ratio) range	0.39~1.63×	0.42~1.40×	0.36~1.65×
b. Distance to subject from lens edge set at infinity (reversed)	1465.19~119.26mm	1037.12~138.66mm	2536.62~117.92mm
Magnification (image ratio) range	0.07~1.21×	0.10~0.98×	0.04~1.23×

Close-Up Lenses	Magnification	Area Range	Distance Range
No. 0	0.1~0.2×	240×360~120×180mm	1080~530mm

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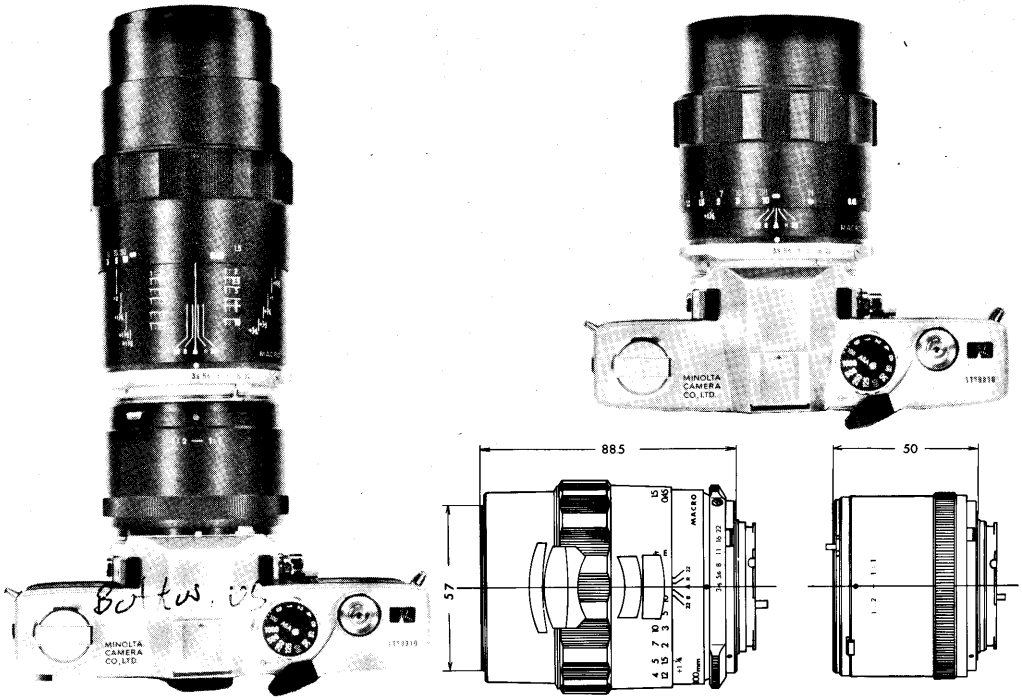
DEPTH-OF-FIELD TABLES FOR 100mm f/2.5 MC TELE ROKKOR

(in feet)

Dis ft \ F No.	2.5	2.8	3.5	4	5.6	8	11	16	22
∞	∞ 394′	∞ 349′	∞ 280′	∞ 247′	∞ 174′	∞ 123′	∞ 87′ 5″	∞ 61′10″	∞ 43′10″
50	57′ 1″ 44′ 6″	58′ 2″ 43′10″	60′ 8″ 42′ 7″	62′ 6″ 41′ 8″	69′ 8″ 39′ 0″	83′ 3″ 35′ 9″	115′ 32′ 0″	251′ 23′11″	∞ 23′ 7″
30	32′ 5″ 27′11″	32′ 9″ 27′ 8″	33′ 6″ 27′ 2″	34′ 0″ 26′10″	36′ 0″ 25′ 9″	39′ 4″ 24′ 3″	45′ 1″ 22′ 6″	57′ 1″ 20′ 5″	91′ 7″ 18′ 0″
20	21′ 0″ 19′ 1″	21′ 2″ 18′11″	21′ 6″ 18′ 9″	21′ 8″ 18′ 7″	22′ 6″ 18′ 0″	23′ 8″ 17′ 4″	25′ 8″ 16′ 5″	29′ 0″ 15′ 3″	35′ 9″ 13′11″
15	15′ 7″ 14′ 6″	15′ 8″ 14′ 5″	15′10″ 14′ 3″	15′11″ 14′ 2″	16′ 4″ 13′11″	16′11″ 13′ 6″	17′11″ 12′11″	19′ 6″ 12′ 3″	22′ 3″ 11′ 4″
12	12′ 4″ 11′ 8″	12′ 5″ 11′ 8″	12′ 6″ 11′ 7″	12′ 7″ 11′ 6″	12′10″ 11′ 3″	13′ 2″ 11′ 0″	13′ 9″ 10′ 8″	14′ 8″ 10′ 2″	16′ 2″ 9′ 6⅞″
10	10′ 3″ 9′ 9¼″	10′ 3″ 9′ 8⅞″	10′ 4″ 9′ 8¼″	10′ 5″ 9′ 7⅝″	10′ 7″ 9′ 6″	10′10″ 9′ 3¾″	11′ 2″ 9′5⅜″	11′ 8″ 8′ 8⅝″	12′ 8″ 8′ 3⅜″
8	8′ 1¾″ 7′10¼″	8′ 1⅞″ 7′10⅛″	8′ 2½″ 7′ 9⅜″	8′ 2¾″ 7′ 9¼″	8′ 4⅛″ 7′ 8¼″	8′ 5¾″ 7′ 6¾″	8′ 8½″ 7′ 4¾″	9′½″ 7′ 2⅛″	9′ 6¾″ 6′10⅝″
7	7′ 1¼″ 6′10⅜″	7′ 1⅜″ 6′10½″	7′ 1⅞″ 6′10¼″	7′ 2⅛″ 6′ 9⅞″	7′ 3″ 6′ 9⅛″	7′ 4¼″ 6′ 8″	7′ 6¼″ 6′ 6½″	7′ 9⅛″ 6′ 4⅜″	8′ 1⅝″ 6′ 1¾″
6	6′⅞″ 5′11⅛″	6′ 1⅛″ 5′10⅝″	6′ 1¼″ 5′10¾″	6′ 1½″ 5′10½″	6′ 2⅛″ 5′ 9⅞″	6′ 3⅛″ 5′ 9⅛″	6′ 4⅜″ 5′ 8″	6′ 6⅜″ 5′ 6½″	6′ 9½″ 5′ 4½″
5	5′⅝″ 4′11⅜″	5′⅝″ 4′11¼″	5′⅞″ 4′11¼″	5′ 1″ 4′11″	5′ 1⅜″ 4′10⅝″	5′ 2″ 4′10⅛″	5′ 2⅞″ 4′ 9¼″	5′ 4¼″ 4′ 8¼″	5′ 6⅛″ 4′ 6⅞″
4.5	4′ 6⅜″ 4′ 5½″	4′ 6½″ 4′ 5⅜″	4′ 6⅝″ 4′ 5⅜″	4′ 6¾″ 4′ 5¼″	4′ 7⅛″ 4′ 4⅞″	4′ 7½″ 4′ 4½″	4′ 8¼″ 4′ 3½″	4′ 9¼″ 4′ 3″	4′10¾″ 4′ 1⅞″
4	4′⅜″ 3′11⅝″	4′⅜″ 3′11¼″	4′½″ 3′11½″	4′½″ 3′11⅜″	4′¾″ 3′11⅛″	4′ 1⅛″ 3′10½″	4′ 1¾″ 3′10⅜″	4′ 2½″ 3′ 9¾″	4′ 3⅝″ 3′ 8¾″

(in meters)

Dis m \ F No.	2.5	2.8	3.5	4	5.6	8	11	16	22
∞	∞ 120	∞ 106	∞ 85	∞ 75	∞ 53	∞ 38	∞ 27	∞ 19	∞ 13
20	24 17	25 17	26 16	27 16	32 15	42 13	79 12	∞ 9.8	∞ 8
10	10.9 9.3	11.0 9.2	11.3 9.0	11.5 8.9	12.2 8.5	13.5 8.0	15.8 7.3	20.8 6.6	38.1 5.8
7	7.4 6.6	7.5 6.6	7.6 6.5	7.7 6.4	8.0 6.2	8.5 6.0	9.4 5.6	10.9 5.2	14.3 4.7
5	5.2 4.81	5.2 4.78	5.3 4.73	5.3 4.70	5.5 4.49	5.7 4.44	6.1 4.25	6.7 4.00	7.8 3.69
4	4.13 3.88	4.15 3.86	4.18 3.83	4.21 3.81	4.30 3.74	4.44 3.64	4.65 3.51	4.99 3.34	5.57 3.13
3	3.07 2.93	3.08 2.93	3.10 2.91	3.11 2.90	3.16 2.85	3.23 2.80	3.34 2.72	3.51 2.62	3.78 2.49
2.5	2.55 2.45	2.55 2.45	2.57 2.44	2.58 2.43	2.61 2.40	2.66 2.36	2.73 2.31	2.84 2.24	3.01 2.14
2	2.03 1.97	2.03 1.97	2.04 1.96	2.05 1.96	2.07 1.94	2.10 1.91	2.14 1.88	2.20 1.83	2.30 1.77
1.7	1.72 1.68	1.72 1.68	1.73 1.67	1.73 1.67	1.75 1.66	1.77 1.64	1.80 1.61	1.84 1.58	1.90 1.54
1.5	1.52 1.48	1.52 1.48	1.52 1.48	1.52 1.48	1.54 1.47	1.55 1.45	1.57 1.43	1.60 1.41	1.65 1.37
1.3	1.31 1.29	1.31 1.29	1.32 1.28	1.32 1.28	1.33 1.28	1.34 1.27	1.35 1.25	1.37 1.23	1.41 1.21
1.2	1.21 1.19	1.21 1.19	1.21 1.19	1.21 1.19	1.22 1.18	1.23 1.17	1.24 1.16	1.26 1.15	1.29 1.12



100mm f/3.5 MC MACRO ROKKOR

Lens construction: 5 elements, 4 groups
Apertures: 3.5~22
Nearest focus: 0.45m (1.5 ft); 0.4m (1.33 ft) with intermediate ring
Ratio of object to image size at nearest focusing distance: 1:2; 1:1 with intermediate ring
Focusing distance, one head, vertical: 1.5m (4.8 ft)
Focusing distance, two heads, horizontal: 1.8m (6 ft)
Focusing distance, one to three persons (6 ft) standing: 6.1 (20 ft)
Angles of view: Diagonal: 24°
Horizontal: 20° 40′
Vertical: 13° 40′
Ratio of image size at infinity to image of standard lens (55 or 58mm = 1): 1.8:1 (1.8X)
Screw-in filter mount diameter: 55mm
Lens hood: Built-in
Replacement lens cap: 57mm
Weight: 550g (19.4 oz)

Close-Up Data

Extension Rings	Magnification	Distance Range—Subject to Film
100mm Macro ring (+50mm)	0.50~1.00×	445.76~395.76mm

Bellows Data	Auto Bellows I	Auto Bellows II	Bellows III
a. Distance to subject from lens edge (normal position)	357.74~173.58mm	333.99~183.58mm	379.04~172.84mm
Magnification (image ratio) range	0.39~1.64×	0.42~1.41×	0.36~1.66×
b. Distance to subject from lens edge set at infinity (reversed)	∞~139.29mm	∞~171.3mm	∞~137.21mm
Magnification (image ratio) range	1/∞~0.97×	1/∞~0.74mm	1/∞~0.99×

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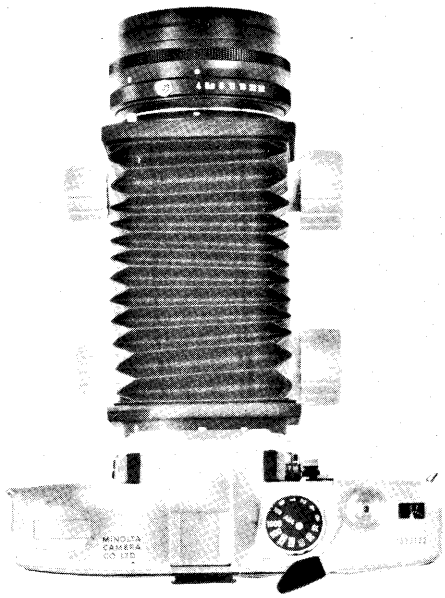
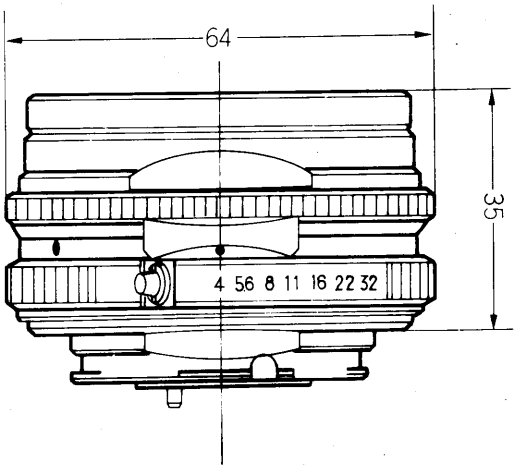
Close-Up Lenses (Without Adapter Ring)	Magnification	Area Range	Distance Range
No. 0	0.094~0.6×	254×381~40×60mm	1209~404mm
No. 1	0.2~0.731×	120×180~33×49mm	649~367mm
No. 2	0.379~0.959×	63× 95~25×38mm	411~326mm
No. 1+2	0.570~1.188×	42× 63~20×30mm	328~306mm
No. 0+1	0.293~0.842×	82×123~28×43mm	496~348mm
No. 0+2	0.469~1.066×	52× 77~23×34mm	365~316mm
No. 0+1+2	0.656~1.287×	37× 55~19×28mm	310~301mm

Close-Up Lenses (With Adapter Ring)	Magnification	Area Range	Distance Range
No. 0	0.617~1.122×	39×58~21×32mm	401~380mm
No. 1	0.749~1.28×	32×48~19×28mm	366~363mm
No. 2	0.979~1.559×	25×37~15×23mm	326~343mm
No. 1+2	1.209~1.827×	20×30~13×20mm	306~332mm
No. 0+1	0.861~1.41×	28×42~17×26mm	347~356mm
No. 0+2	1.087~1.684×	22×33~14×21mm	316~338mm
No. 0+1+2	1.309~1.940×	18×28~12×19mm	301~331mm

DEPTH-OF-FIELD TABLE FOR 100mm f/3.5 MC MACRO ROKKOR

F No / Dis (m)	3.5	4	5.6	8	11	16	22	32
∞	∞	∞	∞	∞	∞	∞	∞	∞
	85.8	15.1	53.1	37.6	26.6	18.8	13.4	9.47
50	119	14.8	819	∞	∞	∞	∞	∞
	31.7	30.1	25.8	215	17.4	13.7	10.6	8
30	45.9	49.7	68.4	146	∞	∞	∞	∞
	22.3	21.5	19.2	16.8	14.2	11.6	9.3	7.25
20	26	27.1	31.9	42.3	98.6	∞	∞	∞
	16.3	15.8	14.6	13.1	11.5	9.78	8.08	6.49
15	18.1	18.7	20.8	24.7	33.8	70.9	∞	∞
	12.8	12.5	11.7	10.8	9.66	8.43	7.14	5.88
10	11.3	11.5	12.2	13.5	15.8	20.8	38.1	∞
	8.98	8.86	8.46	7.95	7.33	6.60	5.79	4.94
7	7.6	7.69	8.02	8.53	9.38	10.9	14.3	21.2
	6.49	6.43	6.22	5.94	3.59	5.16	4.66	4.1
5	5.29	5.34	5.49	5.72	6.08	6.69	7.78	10.1
	4.74	4.71	4.59	4.44	4.25	4	3.7	3.34
4	4.12	4.21	4.30	4.44	4.65	4.99	5.57	6.66
	3.83	3.81	3.74	3.64	3.51	3.34	3.13	2.87
3	3.1	3.11	3.16	3.23	3.34	3.51	3.73	4.24
	2.91	2.9	2.85	2.8	2.42	2.62	2.49	2.33
2.5	2.57	2.58	2.61	2.66	2.73	2.84	3	3.28
	2.44	2.43	2.4	2.36	2.31	2.24	2.15	2.03
2	2.04	2.05	2.07	2.1	2.14	2.2	2.3	2.35
	1.96	1.96	1.94	1.91	1.88	1.83	1.77	1.67
1.7	1.73	1.73	1.75	1.77	1.8	1.84	1.9	2
	1.67	1.67	1.66	1.64	1.61	1.58	1.51	1.48
1.5	1.52	1.52	1.53	1.55	1.57	1.6	1.65	1.83
	1.48	1.48	1.47	1.45	1.43	1.41	1.38	1.35
1.3	1.32	1.32	1.33	1.34	1.35	1.37	1.41	1.46
	1.28	1.28	1.28	1.27	1.25	1.23	1.21	1.13
1.2	1.21	1.21	1.22	1.23	1.24	1.26	1.29	1.33
	1.19	1.19	1.18	1.14	1.16	1.14	1.12	1.10
1.1	1.11	1.11	1.12	1.12	1.13	1.15	1.17	1.20
	1.09	1.09	1.08	1.08	1.07	1.05	1.04	1.01
1.0	1.01	1.01	1.01	1.02	1.03	1.04	1.06	1.08
	0.991	0.991	0.987	0.982	0.974	0.964	0.950	0.951
0.9	0.906	0.907	0.91	0.915	0.921	0.930	0.943	0.863
	0.894	0.893	0.89	0.886	0.88	0.872	0.861	0.846
0.8	0.805	0.805	0.808	0.811	0.816	0.822	0.832	0.846
	0.795	0.795	0.792	0.789	0.785	0.779	0.771	0.76
0.7	0.703	0.704	0.705	0.708	0.711	0.715	0.722	0.732
	0.697	0.696	0.695	0.693	0.698	0.685	0.679	0.671
0.6	0.602	0.602	0.603	0.605	0.607	0.61	0.614	0.62
	0.598	0.598	0.597	0.595	0.593	0.591	0.587	0.582





100mm f/4 MC AUTO-BELLOWS ROKKOR

Lens construction: 3 elements, 3 groups
Apertures: 4~32
Nearest focus: Subject to bellows and other extensions
Focusing distance, one head, vertical: 1.5m (4.8 ft)
Focusing distance, two heads, horizontal: 1.8m (6 ft)
Focusing distance, one to three persons (6 ft) standing: 6.1m (20 ft)
Angles of view: Diagonal: 24°
Horizontal: 20° 40′
Vertical: 13° 40′
Ratio of image size at infinity to image of standard lens (55 or 58mm = 1): 1.8:1 (1.8X)
Screw-in filter mount diameter: 55mm
Replacement lens cap: 57mm
Weight: 165g (5.8 oz)

Close-Up Data

Extension Rings	Magnification	Distance Range—Subject to Film
100mm Macro ring (+50mm)	0.08×	1457.99mm

Bellows Data	Auto Bellows I	Auto Bellows II	Bellows III
a. Distance to subject from lens edge (normal position)	334.96~143.79mm	321.93~155.34mm	356.35~142.95
Magnification (image ratio) range	0.39~1.53×	0.41~1.30×	0.36~1.55×
b. Distance to subject from lens edge set at infinity (reversed)	1467.13~119.35mm	1038.42~138.74mm	2540.16~118.01mm
Magnification (image ratio) range	0.07~1.21×	0.10~0.98×	0.04~1.23×

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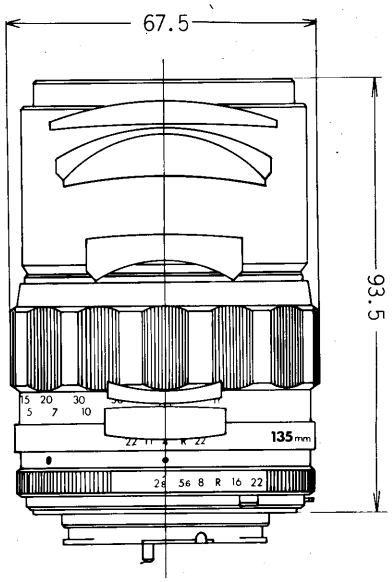
DEPTH-OF-FIELD TABLES FOR 100mm f/4 MC AUTO-BELLOWS ROKKOR

(in feet)

Dis ft \ F No.	4	5.6	8	11	16	22
∞	∞ 247′	∞ 174′	∞ 123′	∞ 87′ 5″	∞ 61′10″	∞ 43′10″
50	62′ 6″ 41′ 8″	69′ 8″ 39′ 0″	83′ 3″ 35′ 9″	115′ 32′ 0″	251′ 23′11″	∞ 23′ 7″
30	34′ 0″ 26′10″	36′ 0″ 25′ 9″	39′ 4″ 24′ 3″	45′ 1″ 22′ 6″	57′ 1″ 20′ 5″	91′ 7″ 18′ 0″
20	21′ 8″ 18′ 7″	22′ 6″ 18′ 0″	23′ 8″ 17′ 4″	25′ 8″ 16′ 5″	29′ 0″ 15′ 3″	35′ 9″ 13′11″
15	15′11″ 14′ 2″	16′ 4″ 13′11″	16′11″ 13′ 6″	17′11″ 12′11″	19′ 6″ 12′ 3″	22′ 3″ 11′ 4″
12	12′ 7″ 11′ 6″	12′10″ 11′ 3″	13′ 2″ 11′ 0″	13′ 9″ 10′ 8″	14′ 8″ 10′ 2″	16′ 2″ 9′ 6⅞″
10	10′ 5″ 9′ 7⅝″	10′ 7″ 9′ 6″	10′10″ 9′ 3¾″	11′ 2″ 9′5⅝″	11′ 8″ 8′ 8⅝″	12′ 8″ 8′ 3⅜″
8	8′ 2¾″ 7′ 9¼″	8′ 4⅛″ 7′ 8¼″	8′ 5¾″ 7′ 6¾″	8′ 8½″ 7′ 4¾″	9′½″ 7′ 2⅛″	9′ 6¾″ 6′10⅝″
7	7′ 2⅛″ 6′ 9⅞″	7′ 3″ 6′ 9⅛″	7′ 4¼″ 6′ 8″	7′ 6¼″ 6′ 6½″	7′ 9⅛″ 6′ 4⅜″	8′ 1⅝″ 6′ 1¾″
6	6′ 1½″ 5′10½″	6′ 2⅛″ 5′ 9⅞″	6′ 3⅛″ 5′ 9⅛″	6′ 4⅜″ 5′ 8″	6′ 6⅜″ 5′ 6½″	6′ 9½″ 5′ 4½″
5	5′ 1″ 4′11″	5′ 1⅜″ 4′10⅝″	5′ 2″ 4′10⅛″	5′ 2⅛″ 4′ 9½″	5′ 4¼″ 4′ 8¼″	5′ 6⅛″ 4′ 6⅞″
4.5	4′ 6¾″ 4′ 5¼″	4′ 7⅛″ 4′ 4⅞″	4′ 7½″ 4′ 4½″	4′ 8¼″ 4′ 3½″	4′ 9¼″ 4′ 3″	4′10¾″ 4′ 1⅞″
4	4′½″ 3′11⅜″	4′¾″ 3′11⅛″	4′ 1⅛″ 3′10½″	4′ 1¾″ 3′10⅜″	4′ 2½″ 3′ 9¾″	4′ 3⅝″ 3′ 8¾″

(in meters)

Dis m \ F No.	4	5.6	8	11	16	22
∞	∞ 75	∞ 53	∞ 38	∞ 27	∞ 19	∞ 13
20	27 16	32 15	42 13	79 12	∞ 9.8	∞ 8
10	11.5 8.9	12.2 8.5	13.5 8.0	15.8 7.3	20.8 6.6	38.1 5.8
7	7.7 6.4	8.0 6.2	8.5 6.0	9.4 5.6	10.9 5.2	14.3 4.7
5	5.3 4.70	5.5 4.49	5.7 4.44	6.1 4.25	6.7 4.00	7.8 3.69
4	4.21 3.81	4.30 3.74	4.44 3.64	4.65 3.51	4.99 3.34	5.57 3.13
3	3.11 2.90	3.16 2.85	3.23 2.80	3.34 2.72	3.51 2.62	3.78 2.49
2.5	2.58 2.43	2.61 2.40	2.66 2.36	2.73 2.31	2.84 2.24	3.01 2.14
2	2.05 1.96	2.07 1.94	2.10 1.91	2.14 1.88	2.20 1.83	2.30 1.77
1.7	1.73 1.67	1.75 1.66	1.77 1.64	1.80 1.61	1.84 1.58	1.90 1.54
1.5	1.52 1.48	1.54 1.47	1.55 1.45	1.57 1.43	1.60 1.41	1.65 1.37
1.3	1.32 1.28	1.33 1.28	1.34 1.27	1.35 1.25	1.37 1.23	1.41 1.21
1.2	1.21 1.19	1.22 1.18	1.23 1.17	1.24 1.16	1.26 1.15	1.29 1.12



135mm f/2.8 MC TELE ROKKOR

Lens construction: 6 elements, 5 groups
Apertures: 2.8~22
Nearest focus: 1.5m (5 ft)
Ratio of object to image size at nearest focusing distance: 1:9 (0.111X)
Focusing distance, one head, vertical: 2m (6.5 ft)
Focusing distance, two heads, horizontal: 2.4m (8 ft)
Focusing distance, one to three persons (6 ft) standing: 8.2m (27 ft)
Angles of view: Diagonal: 18°
Horizontal: 15°
Vertical: 10°
Ratio of image size at infinity to image of standard lens (55 or 58mm = 1): 2.5:1 (2.5X)
Screw-in filter mount diameter: 55mm
Lens hood: Built-in
Replacement lens cap: 57mm
Weight: 425g (15 oz)

Close-Up Data

Extension Rings	Magnification	Distance Range—Subject to Film
50mm Macro ring (+25mm)	0.19~0.30×	992.90~747.23×
100mm Macro ring (+50mm)	0.37~0.48×	671.55~602.79×

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	0.29~1.25×	0.31~1.08×	0.27~1.26×
b. Distance to subject from lens edge set at infinity (reversed)	∞~265.7mm	∞~358.36mm	∞~258.9mm
Magnification (image ratio) range	1/∞~0.59×	1/∞~0.42×	1/∞~0.61×

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Close-Up Lenses	Magnification	Area Range	Distance Range
No. 0	0.13~0.25×	163×227~96×144mm	1070~600mm

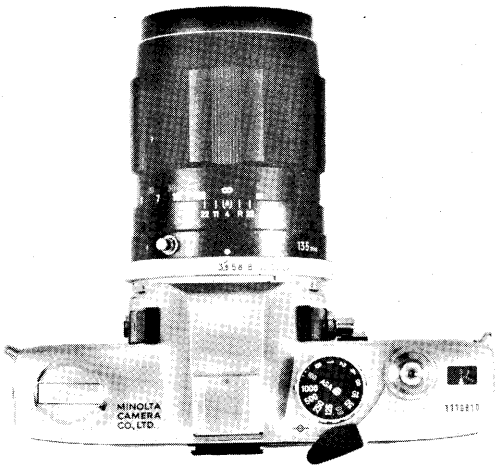
DEPTH-OF-FIELD TABLES FOR 135mm f/2.8 MC TELE ROKKOR

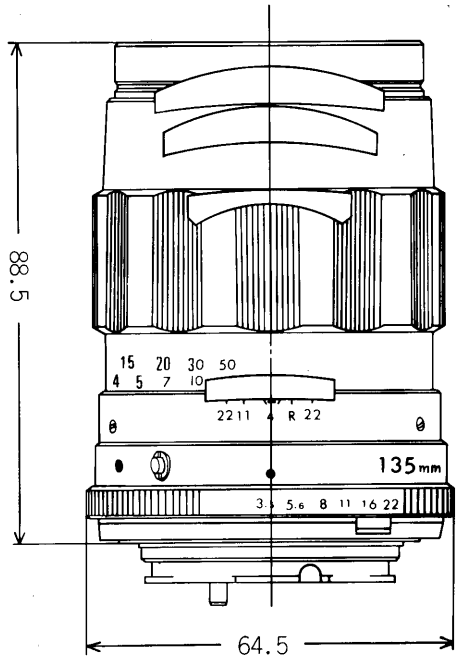
(in feet)

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′¼″
8	8′ 1″ 7′11″	8′ 1¼″ 7′10¾″	8′ 1⅜″ 7′10⅝″	8′ 2″ 7′10″	8′ 3″ 7′ 9¼″	8′ 4¼″ 7′ 8⅛″	8′ 6⅛″ 7′ 6⅝″	8′ 9″ 7′ 4½″
7	7′¾″ 6′11¼″	7′ 1″ 6′11″	7′ 1″ 6′11″	7′ 1⅜″ 6′10½″	7′ 2⅛″ 6′ 9⅞″	7′ 3⅛″ 6′ 9⅛″	7′ 4½″ 6′ 8″	7′ 6⅜″ 6′ 6⅜″
6	6′½″ 5′11½″	6′¾″ 5′11¼″	6′¾″ 5′11¼″	6′ 1¼″ 5′11″	6′ 1½″ 5′10½″	6′ 2¼″ 5′10″	6′ 3¼″ 5′ 9⅛″	6′ 4⅝″ 5′ 8″
5	5′⅜″ 4′11⅝″	5′½″ 4′11½″	5′½″ 4′11½″	5′⅝″ 4′11⅜″	5′ 1″ 4′11″	5′ 1⅜″ 4′10⅝″	5′ 2⅛″ 4′10⅛″	5′ 3″ 4′ 9⅜″

(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





135mm f/3.5 MC TELE ROKKOR

Lens construction: 4 elements, 4 groups
Apertures: 3.5~22
Nearest focus: 1.5m (5 ft)
Ratio of object to image size at nearest focusing distance: 1:9 (0.111X)
Focusing distance, one head, vertical: 2m (6.5 ft)
Focusing distance, two heads, horizontal: 2.4m (8 ft)
Focusing distance, one to three persons (6 ft) standing: 8.2m (27 ft)
Angles of view: Diagonal: 18°
Horizontal: 15°
Vertical: 10°
Ratio of image size at infinity to image of standard lens (55 or 58mm = 1): 2.5:1 (2.5X)
Screw-in filter mount diameter: 52mm
Lens hood: Exclusive (Minolta-type)
Weight: 400g (14 oz)

Close-Up Data

Extension Rings	Magnification	Distance Range—Subject to Film
50mm Macro ring (+25mm)	0.19~0.30×	1005.32~759.64mm
100mm Macro ring (+50mm)	0.37~0.48×	683.95~615.19mm

Bellows Data	Auto Bellows I	Auto Bellows II	Bellows III
a. Distance to subject from lens edge (normal position)	602.81~260.89mm	572.97~277.94mm	637.59~259.38mm
Magnification (image ratio) range	0.29~1.25×	0.31~1.08×	0.27~1.26×
b. Distance to subject from lens edge set at infinity (reversed)	∞~330.22mm	∞~358.36mm	∞~258.9mm
Magnification (image ratio) range	1/∞~0.46×	1/∞~0.29×	1/∞~0.48×

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Close-Up Lenses	Magnification	Area Range	Distance Range
No. 0	0.13~0.25×	163×227~96×144mm	1070~600mm

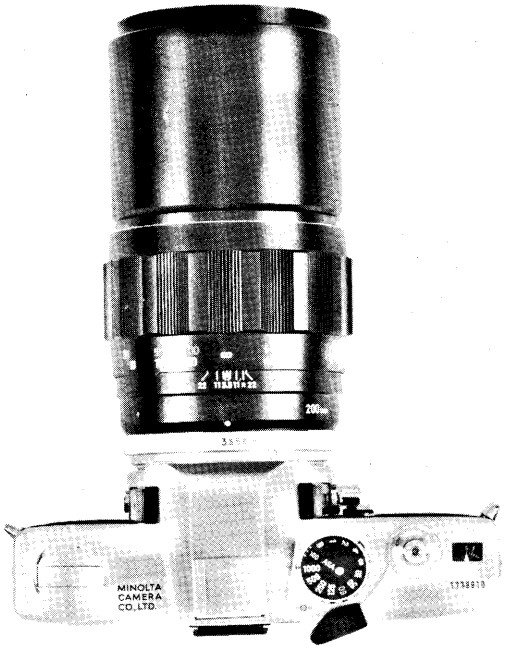
DEPTH-OF-FIELD TABLES FOR 135mm f/3.5 MC TELE ROKKOR

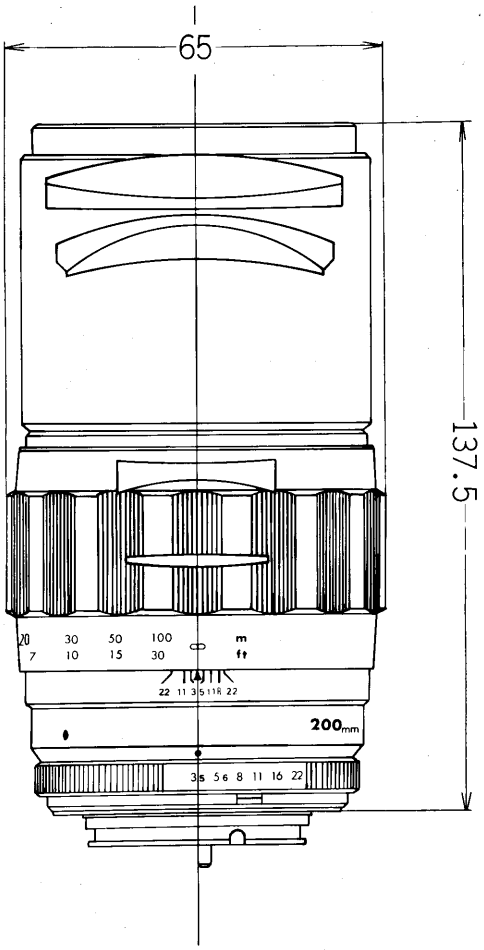
(in feet)

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′ 1¼″ 7′10¾″	8′ 1⅜″ 7′10⅝″	8′ 2″ 7′10″	8′ 3″ 7′ 9¼″	8′ 4¼″ 7′ 8⅛″	8′ 6⅛″ 7′ 6⅝″	8′ 9″ 7′ 4½″
7	7′¾″ 6′11¼″	7′ 1″ 6′11″	7′ 1″ 6′11″	7′ 1⅝″ 6′10½″	7′ 2⅛″ 6′ 9⅞″	7′ 3⅛″ 6′ 9⅛″	7′ 4½″ 6′ 8″	7′ 6⅝″ 6′ 6⅜″
6	6′½″ 5′11½″	6′¾″ 5′11¼″	6′¾″ 5′11¼″	6′ 1¼″ 5′11″	6′ 1½″ 5′10½″	6′ 2¼″ 5′10″	6′ 3¼″ 5′ 9⅛″	6′ 4⅝″ 5′ 8″
5	5′⅜″ 4′11⅝″	5′½″ 4′11½″	5′½″ 4′11½″	5′⅝″ 4′11⅜″	5′ 1″ 4′11″	5′ 1⅜″ 4′10⅝″	5′ 2⅛″ 4′10⅛″	5′ 3″ 4′ 9⅜″

(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





200mm f/3.5 MC TELE ROKKOR

Lens construction: 6 elements, 4 groups
Apertures: 3.5~22
Nearest focus: 2.5m (8 ft)
Ratio of object to image size at nearest focusing distance: 1:9.6 (0.141X)
Focusing distance, one head, vertical: 2.9m (9.5 ft)
Focusing distance, two heads, horizontal: 3.7m (12 ft)
Focusing distance, one to three persons (6 ft) standing: 12.2m (40 ft)
Angles of view: Diagonal: 12°
Horizontal: 10°
Vertical: 7°
Ratio of image size at infinity to image of standard lens (55 or 58mm = 1): 3.6:1 (3.6X)
Screw-in filter mount diameter: 62mm
Lens hood: Built-in
Replacement lens cap: 65mm
Weight: 720g (25.4 oz)

Close-Up Data

Extension Rings	Magnification	Distance Range—Subject to Film
50mm Macro ring (+25mm)	0.13~0.23×	1979.85~1331.86mm
100mm Macro ring (+50mm)	0.25~0.35×	1266.39~1058.11mm

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Bellows Data	Auto Bellows I	Auto Bellows II	Bellows III
a. Distance to subject from lens edge (normal position)	1236.12~486.9mm	1188.07~522.66mm	1346.09~484.29mm
Magnification (image ratio) range	0.20~0.87×	0.21~0.75×	0.18~0.88×

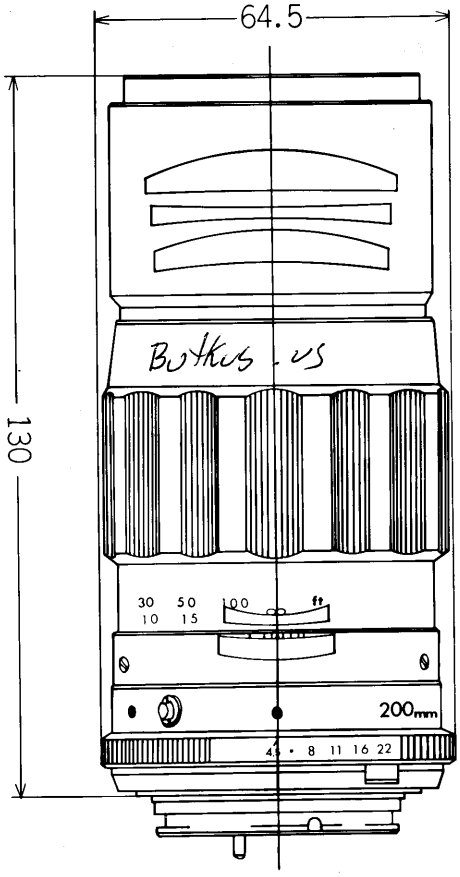
DEPTH-OF-FIELD TABLES FOR 200mm f/3.5 MC TELE ROKKOR

(in feet)

Dis. ft \ F No.	3.5	4	4.5	5.6	8	11	16	22
∞	∞ 1122′	∞ 982′	∞ 884′	∞ 695′	∞ 491′	∞ 348′	∞ 246′	∞ 174′
100	110′ 92′	111′ 91′	112′ 90′	116′ 88′	125′ 83′	139′ 78′	167′ 72′	231′ 64′
50	52′ 3″ 47′11″	52′ 7″ 47′ 8″	52′10″ 47′ 5″	53′ 8″ 46′ 9″	55′ 5″ 45′ 7″	58′ 0″ 43′11″	62′ 2″ 41′10″	69′ 2″ 39′ 3″
30	30′ 9″ 29′ 3″	30′11″ 29′ 2″	30′11″ 29′ 1″	31′ 3″ 28′10″	31′10″ 28′ 5″	32′ 8″ 27′ 9″	33′10″ 26′11″	35′ 9″ 25′10″
20	20′ 4″ 19′ 8″	20′ 4″ 19′ 8″	20′ 4″ 19′ 7″	20′ 6″ 19′ 6″	20′ 9″ 19′ 4″	21′ 1″ 19′ 0″	21′ 7″ 18′ 8″	22′ 4″ 18′ 2″
15	15′ 2″ 14′10″	15′ 2″ 14′10″	15′ 2″ 14′ 9″	15′ 3″ 14′ 9″	15′ 5″ 14′ 7″	15′ 7″ 14′ 6″	15′10″ 14′ 3″	16′ 3″ 14′ 0″
14	12′ 1″ 11′11″	12′ 1″ 11′11″	12′ 1″ 11′10″	12′ 2″ 11′10″	12′ 3″ 11′ 9″	12′ 4″ 11′ 8″	12′ 6″ 11′ 6″	12′ 9″ 11′ 4″
10	10′ 1″ 9′11¼″	10′ 1″ 9′11″	10′ 1″ 9′10⅞″	10′ 1″ 9′10⅝″	10′ 2″ 9′10¼″	10′ 3″ 9′ 9⅜″	10′ 4″ 9′ 8¼″	10′ 6″ 9′ 6¾″
8	8′½ 7′11½″	8′½″ 7′11⅜″	8′⅝″ 7′11⅜″	8′¾″ 7′11¼″	8′ 1⅛″ 7′10⅞″	8′ 1½″ 7′10⅝″	8′ 2⅜″ 7′ 9¾″	8′ 3¼″ 7′ 8⅞″

(in meters)

Dis (m) \ F No.	3.5	4	4.5	5.6	8	11	16	22
∞	∞ 342	∞ 299	∞ 268	∞ 212	∞ 150	∞ 106	∞ 75	∞ 53
30	33 28	33 27	34 27	35 26	37 25	42 24	50 22	68 19
15	15.7 14.4	15.8 14.3	15.8 14.2	16.1 14.0	16.6 13.7	17.4 13.2	18.6 12.6	20.6 11.8
10	10.3 9.7	10.3 9.7	10.4 9.7	10.5 9.6	10.7 9.4	11.0 9.2	11.4 8.9	12.2 8.5
7	7.1 6.9	7.2 6.9	7.2 6.8	7.2 6.8	7.3 6.7	7.5 6.6	7.7 6.5	8.0 6.3
5	5.1 4.9	5.1 4.9	5.1 4.9	5.1 4.9	5.2 4.8	5.2 4.8	5.3 4.7	5.5 4.6
4	4.0 3.96	4.1 3.96	4.1 3.95	4.1 3.94	4.1 3.91	4.1 3.88	4.2 3.83	4.2 3.76
3	3.02 2.98	3.02 2.98	3.03 2.97	3.03 2.97	3.05 2.95	3.07 2.93	3.10 2.91	3.14 2.87
2.5	2.51 2.49	2.52 2.48	2.52 2.48	2.52 2.48	2.53 2.47	2.54 2.46	2.56 2.44	2.59 2.42



200mm f/4.5 MC TELE ROKKOR

Lens construction: 5 elements, 5 groups
Apertures: 4.5~22
Nearest focus: 2.5m (8 ft)
Ratio of object to image size at nearest focusing distance: 1:9.6 (0.141X)
Focusing distance, one head, vertical: 2.9m (9.5 ft)
Focusing distance, two heads, horizontal: 3.7m (12 ft)
Focusing distance, one to three persons (6 ft) standing: 12.2m (40 ft)
Angles of view: Diagonal: 12°
Horizontal: 10°
Vertical: 7°
Ratio of image size at infinity to image of standard lens (55 or 58mm = 1): 3.6:1 (3.6X)
Screw-in filter mount diameter: 52mm
Lens hood: Built-in (Note: will not be extensible when 52/55mm step-up ring is used, in which case independent hood must be used)
Replacement lens cap: 54mm
Weight: 500g (17.6 oz)

Close-Up Data

Extension Rings	Magnification	Distance Range—Subject to Film
50mm Macro ring (+25mm)	0.13~0.23×	2038.33~1389.44mm
100mm Macro ring (+50mm)	0.25~0.35×	1323.87~1115.30mm

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Bellows Data	Auto Bellows I	Auto Bellows II	Bellows III
a. Distance to subject from lens edge (normal position)	1301.37~551.26mm	1253.25~587.04mm	1411.48~548.64mm
Magnification (image ratio) range	0.20~0.87×	0.21~0.75×	0.18~0.88×

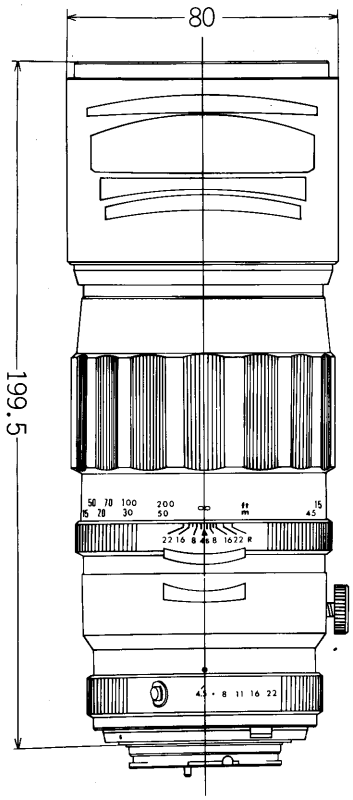
DEPTH-OF-FIELD TABLES FOR 200mm f/4.5 MC TELE ROKKOR

(in feet)

Dis. ft \ F No.	3.5	4	4.5	5.6	8	11	16	22
∞	∞ 1122′	∞ 982′	∞ 884′	∞ 695′	∞ 491′	∞ 348′	∞ 246′	∞ 174′
100	110′ 92′	111′ 91′	112′ 90′	116′ 88′	125′ 83′	139′ 78′	167′ 72′	231′ 64′
50	52′ 3″ 47′11″	52′ 7″ 47′ 8″	52′10″ 47′ 5″	53′ 8″ 46′ 9″	55′ 5″ 45′ 7″	58′ 0″ 43′11″	62′ 2″ 41′10″	69′ 2″ 39′ 3″
30	30′ 9″ 29′ 3″	30′11″ 29′ 2″	30′11″ 29′ 1″	31′ 3″ 28′10″	31′10″ 28′ 5″	32′ 8″ 27′ 9″	33′10″ 26′11″	35′ 9″ 25′10″
20	20′ 4″ 19′ 8″	20′ 4″ 19′ 8″	20′ 4″ 19′ 7″	20′ 6″ 19′ 6″	20′ 9″ 19′ 4″	21′ 1″ 19′ 0″	21′ 7″ 18′ 8″	22′ 4″ 18′ 2″
15	15′ 2″ 14′10″	15′ 2″ 14′10″	15′ 2″ 14′ 9″	15′ 3″ 14′ 9″	15′ 5″ 14′ 7″	15′ 7″ 14′ 6″	15′10″ 14′ 3″	16′ 3″ 14′ 0″
14	12′ 1″ 11′11″	12′ 1″ 11′11″	12′ 1″ 11′10″	12′ 2″ 11′10″	12′ 3″ 11′ 9″	12′ 4″ 11′ 8″	12′ 6″ 11′ 6″	12′ 9″ 11′ 4″
10	10′ 1″ 9′11¼″	10′ 1″ 9′11″	10′ 1″ 9′10⅞″	10′ 1″ 9′10⅝″	10′ 2″ 9′10¼″	10′ 3″ 9′ 9″⅞	10′ 4″ 9′ 8¼″	10′ 6″ 9′ 6¼″
8	8′½ 7′11½″	8′½″ 7′11⅜″	8′⅝″ 7′11⅜″	8′¾″ 7′11¼″	8′ 1⅛″ 7′10⅞″	8′ 1½″ 7′10⅛″	8′ 2⅜″ 7′ 9¾″	8′ 3¼″ 7′ 8⅞″

(in meters)

Dis. (m) \ F No.	3.5	4	4.5	5.6	8	11	16	22
∞	∞ 342	∞ 299	∞ 268	∞ 212	∞ 150	∞ 106	∞ 75	∞ 53
30	33 28	33 27	34 27	35 26	37 25	42 24	50 22	68 19
15	15.7 14.4	15.8 14.3	15.8 14.2	16.1 14.0	16.6 13.7	17.4 13.2	18.6 12.6	20.6 11.8
10	10.3 9.7	10.3 9.7	10.4 9.7	10.5 9.6	10.7 9.4	11.0 9.2	11.4 8.9	12.2 8.5
7	7.1 6.9	7.2 6.9	7.2 6.8	7.2 6.8	7.3 6.7	7.5 6.6	7.7 6.5	8.0 6.3
5	5.1 4.9	5.1 4.9	5.1 4.9	5.1 4.9	5.2 4.8	5.2 4.8	5.3 4.7	5.5 4.6
4	4.0 3.96	4.1 3.96	4.1 3.95	4.1 3.94	4.1 3.91	4.1 3.88	4.2 3.83	4.2 3.76
3	3.02 2.98	3.02 2.98	3.03 2.97	3.03 2.97	3.05 2.95	3.07 2.93	3.10 2.91	3.14 2.87
2.5	2.51 2.49	2.52 2.48	2.52 2.48	2.52 2.48	2.53 2.47	2.54 2.46	2.56 2.44	2.59 2.42



300mm f/4.5 MC TELE ROKKOR

Lens construction: 6 elements, 6 groups
Aperture: 4.5~22
Nearest focus: 4.5m (15 ft)
Ratio of object to image size at nearest focusing distance: 1:12 (0.083X)
Focusing distance, one head, vertical: 4.4m (14.5 ft)
Focusing distance, two heads, horizontal: 5.5m (18 ft)
Focusing distance, one to three persons (6 ft) standing: 18.3m (60 ft)
Angles of view: Diagonal: 8° 10′
Horizontal: 6° 50′
Vertical: 4° 30′
Ratio of image size at infinity to image of standard lens (55 or 58mm = 1): 5.5:1 (5.5X)
Screw-in filter mount diameter: 72mm
Lens hood: Built-in
Replacement lens cap: 75mm
Weight: 1150g (40.5 oz)

Close-Up Data

Extension Rings	Magnification	Distance Range—Subject to Film
50mm Macro ring (+25mm)	0.09~0.17×	4139.13~2594.35mm
100mm Macro ring (+50mm)	0.17~0.25×	2594.35~2053.59mm

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Bellows Data	Auto Bellows I	Auto Bellows II	Bellows III
a. Distance to subject from lens edge (normal position)	2843.39~1068.0mm	2679.04~1138.46mm	3035.71~1060.53mm
Magnification (image ratio) range	0.13~0.59×	0.14~0.52×	0.12~0.60×

DEPTH-OF-FIELD TABLES FOR 300mm f/4.5 MC TELE ROKKOR

(in feet)

Dis (ft) \ F No.	4.5	5.6	8	11	16	22
∞	∞ 1990′	∞ 1584′	∞ 1120′	∞ 793′	∞ 561′	∞ 397′
200	222′ 182′	228′ 178′	243′ 170′	266′ 160′	308′ 148′	398′ 134′
100	105′ 95′4″	106′ 94′3″	109′ 92′1″	114′ 89′3″	121′ 85′5″	132′ 80′7″
70	72′5″ 67′9″	73′1″ 67′2″	74′5″ 66′1″	76′5″ 64′7″	79′6″ 62′7″	84′3″ 59′11″
50	51′2″ 48′10″	51′6″ 48′7″	52′2″ 48′0″	53′1″ 47′3″	54′6″ 46′3″	56′7″ 44′10″
40	40′9″ 39′3″	40′11″ 39′3″	41′4″ 38′9″	41′11″ 38′3″	42′9″ 37′7″	44′1″ 36′8″
30	30′5″ 29′7″	30′6″ 29′6″	30′9″ 29′4″	31′0″ 29′1″	31′6″ 28′8″	32′1″ 28′2″
25	25′3″ 24′9″	25′4″ 24′8″	25′6″ 24′6″	25′8″ 24′4″	26′0″ 24′1″	26′5″ 23′9″
20	20′2″ 19′10″	20′2″ 19′10″	20′3″ 19′9″	20′5″ 19′7″	20′7″ 19′5″	20′10″ 19′3″
17	17′1″ 16′11″	17′2″ 16′10″	17′2″ 16′10″	17′3″ 16′9″	17′5″ 16′7″	17′7″ 16′5″
15	15′1″ 14′11″	15′1″ 14′11″	15′2″ 14′10″	15′3″ 14′10″	15′4″ 14′9″	15′5″ 14′7″

(in meters)

Dis (m) \ F No.	4.5	5.6	8	11	16	22
∞	∞ 607	∞ 483	∞ 341	∞ 242	∞ 171	∞ 121
50	54.4 46.3	55.6 45.4	58.4 43.8	62.7 41.6	70.1 38.9	84.2 35.6
30	31.5 28.6	31.9 28.3	32.8 27.7	34.1 26.8	36.1 25.7	39.4 24.2
20	20.6 19.4	20.8 19.3	21.2 19.0	21.7 18.6	22.5 18.0	23.7 17.3
15	15.3 14.7	15.4 14.6	15.6 14.4	15.9 14.2	16.3 13.9	16.9 13.5
10	10.1 9.86	10.2 9.82	10.3 9.75	10.4 9.65	10.5 9.51	10.8 9.32
8	8.09 7.91	8.12 7.89	8.16 7.84	8.23 7.78	8.33 7.69	8.48 7.57
7	7.07 6.93	7.08 6.92	7.12 6.88	7.17 6.84	7.25 6.77	7.35 6.68
6	6.05 5.95	6.06 5.94	6.09 5.92	6.12 5.88	6.17 5.84	6.25 5.77
5	5.03 4.97	5.04 4.96	5.06 4.95	5.08 4.92	5.11 4.89	5.16 4.85
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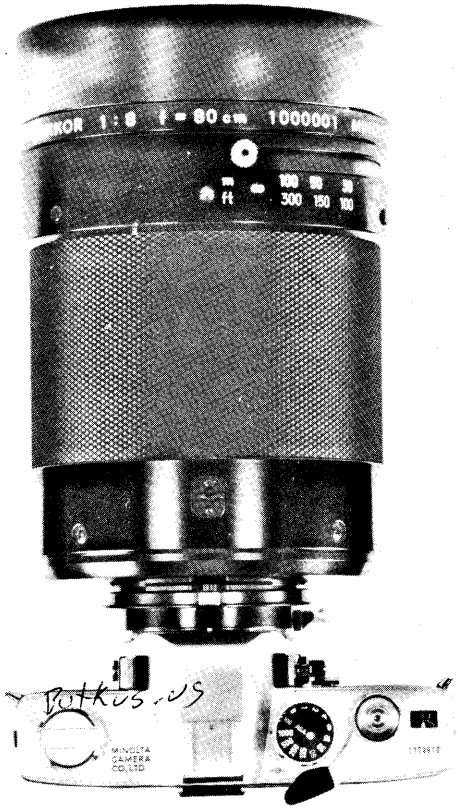

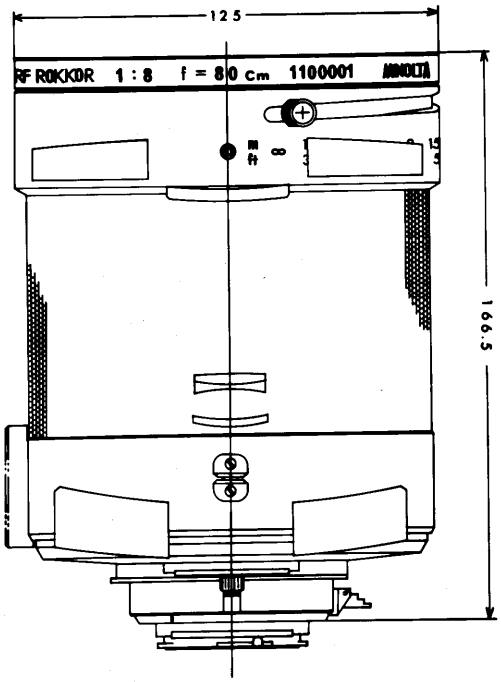

800mm f/8 RF ROKKOR

Lens construction: Catadioptric; second mirror rotated by lever to focus
Apertures: f/8 fixed; smaller apertures to f/22 simulated by neutral density filters 2X, 4X, and 8X
Nearest focus: 8m (26 ft)
Focusing distance, one head, vertical: 11.6m (38 ft)
Focusing distance, two heads, horizontal: 14.6m (48 ft)
Focusing distance, one to three persons (6 ft) standing: 48.8m (160 ft)
Angles of view: Diagonal: 3° 2′
Horizontal: 2° 30′
Vertical: 1° 40′
Ratio of image size at infinity to image of standard lens (55 or 58mm = 1): 14.5:1 (14.5X)
Filters: Built-in behind-the-lens turret for Y4, O54, and R60
Weight: 1500g (53 oz)

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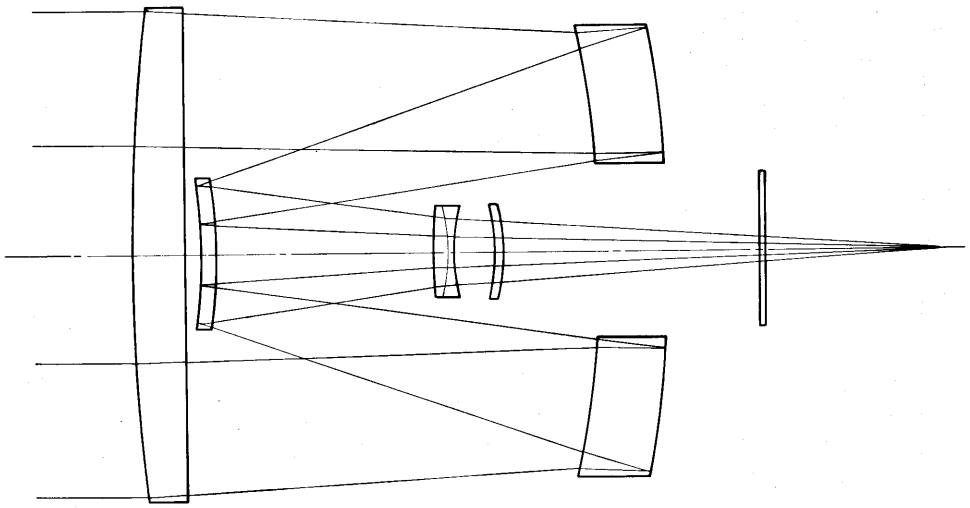
DEPTH-OF-FIELD TABLES FOR 800mm f/8.0 RF ROKKOR

(in meters)

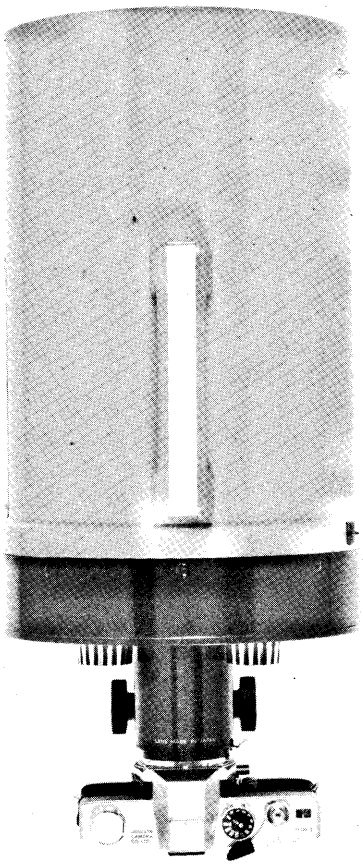
F No Dis (m)	8.0
∞	∞ ~ 591.4
100	104.2 ~ 96.13
50	51.03 ~ 49.02
30	30.36 ~ 29.65
20	20.16 ~ 19.84
15	15.09 ~ 14.91
12	12.06 ~ 11.94
10	10.04 ~ 9.962
8	8.025 ~ 7.976

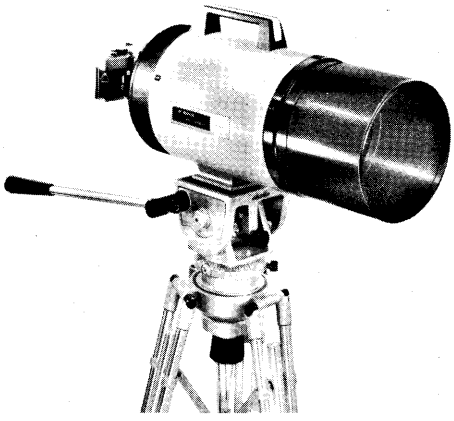
(in feet)

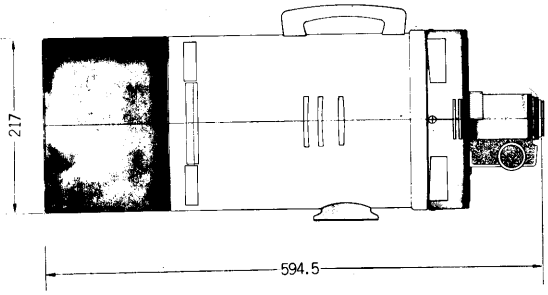
F No Dis (ft)	8.0
∞	∞ ~ 1940'3"
300	311'6" ~ 289'4"
150	152'10" ~ 147'4"
100	101'3" ~ 98'10"
70	70'7" ~ 69'5"
50	50'4" ~ 49'8"
40	40'2" ~ 39'10"
35	35'2" ~ 34'10"
30	30'1" ~ 29'11"



Optical path of 800mm f/8 RF Rokkor. Light enters from left and is reflected and refracted internally as shown.







1000mm f/6.3 RF ROKKOR

Lens construction: Catadioptric
Apertures: $f/6.3$ fixed; smaller apertures to $f/22$ simulated by neutral density filters in turret
Nearest focus: 30.43 (100 ft)
Ratio of object to image size at nearest focusing distance: 1:28
Focusing distance, one head, vertical: 11.6m (48 ft)
Focusing distance, two heads, horizontal: 18.3m (60 ft)
Focusing distance, one to three persons (6 ft) standing: 61m (200 ft)
Angles of view: Diagonal: 2° 30′
Horizontal: 2°
Vertical: 1° 20′
Ratio of image size at infinity to image of standard lens (55 or 58mm = 1): 18.2:1 (18.2X)
Filters: Built-in rear turret for 49mm filters Y48, O, R60, UV, and others
Weight: 10.6Kg (23.2 lb)

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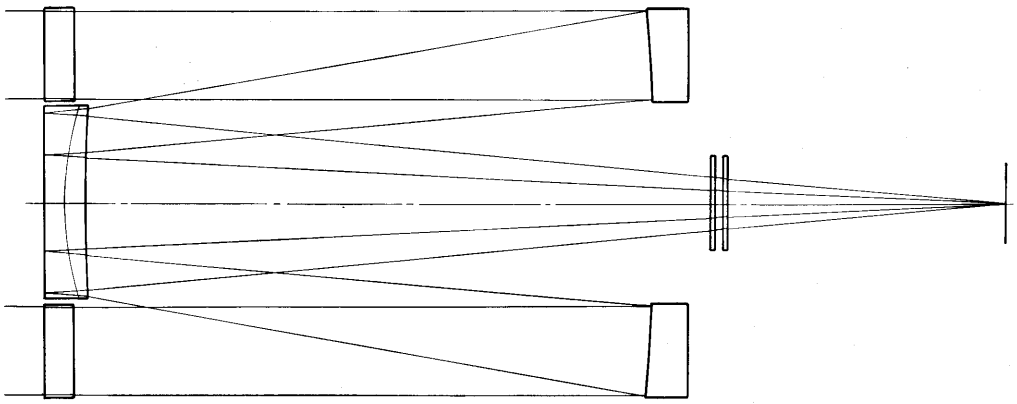
DEPTH-OF-FIELD TABLES FOR 1000mm f/6.3 RF ROKKOR

(in meters)

F No Dis (m)	6.3 ~ 22
∞	5396 ~ ∞
200	193 ~ 207
100	98.3 ~ 100.2
70	69.2 ~ 70.8
50	49.6 ~ 50.4
40	39.7 ~ 40.3
30	29.9 ~ 30.1

(in feet)

F No Dis (ft)	6.3 ~ 22
∞	7734'3" ~ ∞
600	580'7" ~ 620'9"
300	295'2" ~ 305'
200	197'10" ~ 202'2"
150	148'10" ~ 151'3"
120	119'3" ~ 120'9"
100	99'5" ~ 100'6"



Optical path of 1000mm f/6.3 RF Rokkor. Light enters from left and is reflected and refracted internally as shown.