CANON CAMERA COMPANY, INC., TOKYO, JAPAN.

Canon
LENSES

Canon Lenses

The CANON LENS has been acclaimed by many experts as the finest lens in its class today.

It is a precision instrument as carefully constructed as the CANON CAMERA itself. Treat it with respect. It has been accurately set and aligned by hand and final settings arc made with microscopic alignment instruments. ALL CANON LENSES are rigidly checked for resolving power sand lens aberration—spherical, coma, astigmatic, curvature of field, distortion, chromatic—and color definition. Any lens that does not come up to Canon's very high standards in any one of these tests is immediately discarded. According to the characteristics of the lenses, they are coated either in purple, magenta, or amber in order to obtain true color for color photography.

Do not endeavour to open up the lens. If there is anything wrong, return the lens to your dealer who will forward it to the manufacturers for their attention.

Note : All Canon-Manufactured Lenses (except telephoto lenses : 200. 400, 600, 800 and 1000 which comes with reflex mirror housing) are coupled with the Canon Camera Rangefinder Mechanism.

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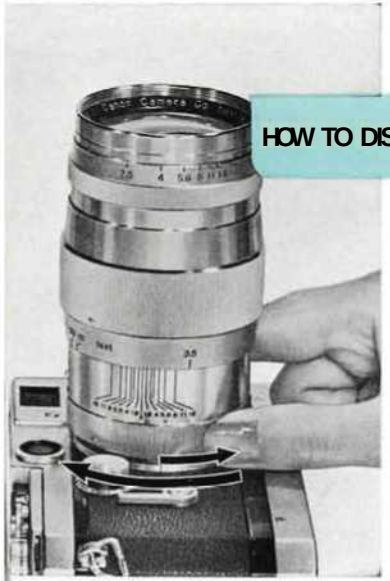


HOW TO DISMOUNT AND MOUNT LENS

TO DISMOUNT LENS

Unscrew the lens, which may be in either extended or retracted position, by grasping its b;tsc. First loosen the lens by a slight jerking motion, then unscrew gently. Do not oil the thread of the lens or tamper with the lens in any way. Always keep the lens flange shaded.

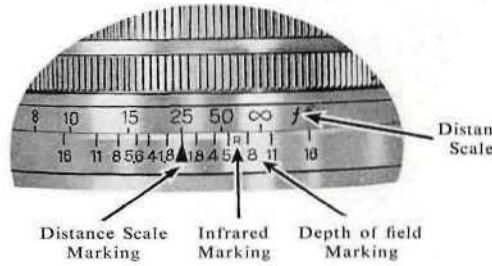
TO MOUNT LENS

Holding the lens by its base, find the thread of the screw by turning the [ens slightly in a counter-clockwise direction, then screw clockwise into the flange until light. DO NOT ATTEMPT TO TIGHTEN THE LENS INTO THE FLANGE BY GRASPING ANY OTHER PART BUT THE BASE.

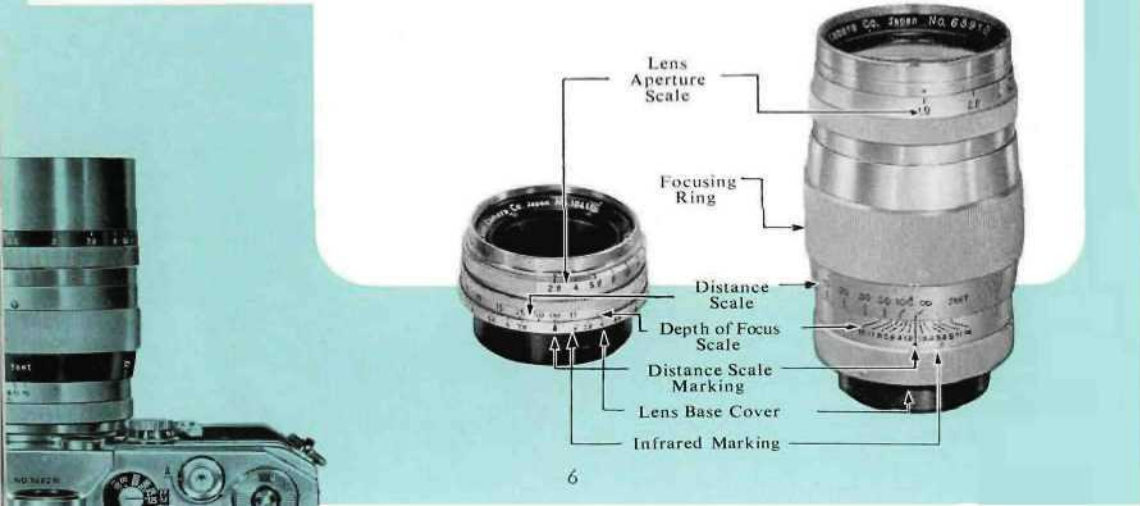
INFRARED MARK

Infrared Mark is used only for infrared photography. After focusing in the usual manner, read the object distance scale of the tens, and then turn the lens so that the object distance is exactly opposite the "R" index mark. The lens is now focused for infrared photography.

Infrared mark on any Canon lens is situated in a position where it will offer the best result by using infrared film and infrared filter (such as Kodak IR 135 and Wratten Filter No.87). both having a maximum sensitivity at a wave length of approximately 8000A. Therefore, it is appropriate to shift about 1/3 of the amount to "R" when using, say, Kodak Plus X or regular-panchromatic film with a Wratten filter or about No. 25.



DESCRIPTIONS



How to take care of your lens

1. Lenses should not be changed in direct sunlight. Turn your back to the sun and hold the camera in the shadow of your body.
2. Always keep the mounting flange of your camera free from dust or dirt. After dismounting, your lens should be covered with the dust cap instantly to protect the helicoid, which is the most important part of the lens.
1. Never touch the lens with your finger. In case it becomes necessary to remove dust from the surface, use a fine, soft brush or reliable lens tissue. If further cleaning is necessary for removing fingermarks, etc. wrap lens cleaning tissue or lint-free cotton cloth on tip of a stick and moist alcohol (mixed with ether when possible) and wipe the surface in a gentle circular motion from center to perimeter. Never wipe with excessive pressure or you might scratch the surface.
4. Do not store your lens in hot and/or humid places. The best way to store your lens is to keep it in an air-tight container or desiccator with moisture absorbent such as silica gel.
5. Never subject the lens to a sudden, extreme change in temperature or lens cracks may result,
6. Do not attempt to screw-in or unscrew the lens by grasping any other part (especially knurled focusing ring) but the base.

DIFFERENT LENS EFFECTS

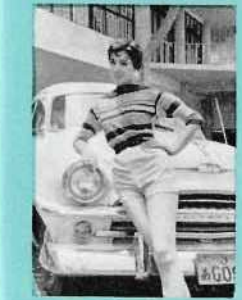
1. CHANGES IN RANGE

Showing the differences in camera range when pictures are laken From the same position but using different focal length lenses.

25 mm

28 mm

35 mm



50 mm

85 mm

100 mm

135 mm

In different lenses, there is a variance in the degree of clarity and also in their focal lengths. There is, however, a much more important reason for interchanging lenses: that is. to take advantage of the difference in their ranges according to their respective focal lengths. Let US examine this more closely. All of the above photos have been taken from the same position but using lenses of different focal lengths. The shorter the focal length of Che lens, the wider the area covered by the picture, but the objects in those pictures all appear small. The longer the focal length, the narrower the field covered by the resulting picture, but in these cases the image itself appears bigger. The use of lenses of different focal lengths then becomes a necessity. Tor instance, when we take photos of a group of people in a small room against a blank wall background or when taking a picture of a large building when it is not possible to move back the necessary distance, the use of a lens of small focal length is of advantage. On the other hand when picking out a subject from a large area, and it is not possible to get closer, the use of a long focus or telescopic lens is a beneficial adaption.

DIFFERENT LENS EFFECT

2. PERSPECTIVE

Consideration of perspective when taking photos from various distances and keeping the foreground the same size.

25 mm

28 mm

35 mm

50 mm

85 mm

100 mm

135 mm

The above photographs show the different effects obtained by using various focal length lenses. Using the same foreground subject, variations in the size and depth of the surrounding objects are produced. Looking at these you can see that with the same subject, there is a different background effect in each case. The shorter the focus length of the lens, greater is the exaggeration in the appearance of the foreground in relation to the surrounding area. Again there are marked differences in the degree of the background. With the long distance lens, the background area is stronger and clearly adjusted in relation to the foreground giving an effect of solidness to the picture. Again, according to the size of the lens opening, there are differences in the depth of the object being photographed. This has advantages, for instance, in producing different effects with background focus, or in using a maximum opening lens to facilitate taking pictures under unfavorable conditions. By selecting the appropriate lens and by taking advantage of its characteristics, you can improve the excellence of your picture.

VIEWFINDER vs PARALLAX ADJUSTMENT

As the built-in viewfinder of the camera has no device for parallax adjustment, a separate viewfinder is recommended for all lenses except those with normal focal length (50mm and 35mm for Canon Camera Model VT and 50mm for all the other Canon Cameras). A variety of viewfinders are available for Canon Lenses. Among them are :

(1) For use with Canon Camera Model VT and later models: ZOOM FINDERS "S" and "L" SPECIAL VIEWFINDERS V, LUMI-FIELD VIEWFINDERS. When used on the Camera these finders are mechanically coupled to the built-in rangefinder of the camera and parallax is automatically compensated as the lens is focused.

(2) For Canon Camera Model IV-S2. II-S and all other cameras prior to Model VT. use SPECIAL VIEWFINDER V, with FINDER COUPLER, which has parallax compensating adjustment. Since cameras prior to model VT arc not mechanically coupled to the viewfinders for parallax, you have to adjust the parallax manually by adjusting the parallax compensating scale of the FINDER COUPLER to match the reading on the DISTANCE SCALE of the lens. By doing so, the field you see through the finder will be identical with what the lens will register on film.

Note: Even those viewfinders which are not designed for Model VT, Canon can be used on the Model VT earners provided that parallax compensation is made manually.

ULTRA-WIDE-ANGLE CANON LENS

25 mm f:3.5

LENS ELEMENTS:	5
LENS MOUNT & HEAD:	NON-COLLAPSIBLE, NON-REVOLVING
MINIMUM APERTURE:	f : 22
DISTANCE SCALES:	3.5 ~ 50ft, or 1 ~ 20m, inf ∞
ANGLE OF VIEW:	82°
MAGNIFICATION:	0.5x:
COATING:	PURPLE
NET WEIGHT:	142 grams or 5 oz.

A radically new lens giving the unrivalled, full, sharp angle-of-view of 82°. An extremely useful lens for indoor photography or landscape shots. Incorporates new Spectra-coated (TM) rare glass elements permitting the fastest speed ever possible in this focal length, without sacrifice of definition or crisp edge-to-edge quality, even at full opening.

WIDE-ANGLE

CANON LENS

28 mm **f : 3.5**

LENS ELEMENTS:	6
LENS MOUNT & HEAD:	NON-COLLAPSIBLE, NON-REVOLVING
MINIMUM APERTURE:	f : 22
DISTANCE SCALES:	3.5 ~ 50ft, or 1 ~ 20m, inf ∞
ANGLE OF VIEW:	75°
MAGNIFICATION:	0.56x
COATING:	PURPLE
NET WEIGHT:	120 grams or 5.1 oz.

A unique lens of exceptionally wide angle of view and speed. Completely accurate and uniform in light transmission.

WIDE-ANGLE

CANON LENS

28 mm **f : 2.8**

LENS ELEMENTS:	6
LENS MOUNT & HEAD :	NON-COLLAPSIBLE, NON-REVOLVING
MINIMUM APERTURE:	f : 22
DISTANCE SCALES:	3.5 ~ 50ft or 1 ~ 20m, inf
ANGLE OF VIEW:	75°
MAGNIFICATION:	0.56x
COATING:	MAGENTA
NET WEIGHT:	159 grams or 5.6 oz.

Embodies new rare glass elements, making possible the fastest aperture design in this wide angle field. No barred distortion or curvature at all lens opening-covers 75° field. Superb aberration-free and coma-free design.

NORMAL WIDE-ANGLE

CANON LENS

35 mm **f : 2.8**

LENS ELEMENTS:	6
LENS MOUNT & HEAD:	NON-COLLAPSIBLE, NON-REVOLVING
MINIMUM APERTURE:	f : 22
DISTANCE SCALES:	3.5 ~ 50ft, or 1 ~ 20m, inf ∞
ANGLE OF VIEW:	64°
MAGNIFICATION	0.7x
COATING:	PURPLE
NET WEIGHT:	125 grams or 4.4 oz.

Designed on CANON's own formula. Excellent for color and black-and-white negatives.

NORMAL WIDE-ANGLE

CANON LENS

35 mm **f : 1.8**

LENS ELEMENTS:	7
LENS MOUNT & HEAD :	NON-COLLAPSIBLE, NON-REVOLVING
MINIMUM APERTURE:	f : 22
DISTANCE SCALES :	3.5 ~ 50ft, or 1 ~ 20m, inf ∞
ANGLE OF VIEW	64°
MAGNIFICATION:	0.7x
COATING:	AMBER
NET WEIGHT:	125 grams or 4.4 oz.

World's fastest wide-angle lens (64°). superbly corrected for color definition and curvature-free result at wide open. This lens also features Canon's new Spectra-coating, which gives added brilliance and at the same time improved color quality.

NORMAL WIDE-ANGLE

CANON LENS

35 mm **f:1.5**

LENS ELEMENTS :	8
LENS MOUNT & HEAD :	NON-COLLAPSIBLE, NON-REVOLVING
MINIMUM APERTURE:	f: 22
DISTANCE SCALES:	3.5 ~ 50ft, or 1 ~ 20m, inf ∞
ANGLE Of VIEW:	64°
MAGNIFICATION:	0.7x
COATING:	AMBER
NET WEIGHT:	185 grams or 6.5 oz.

The amazing speed of the f: 1.5 has won the world wide claim of professional photographers. There is no finer and faster lens with this focal length and field — of — view.

STANDARD

CANON LENS

50 mm **f:2.8**

LENS ELEMENTS:	4
LENS MOUNT & HEAD :	NON-COLLAPSIBLE, NON-REVOLVING
MINIMUM APERTURE:	f: 22
DISTANCE SCALES:	3.5 ~ 50ft, or 1~20m, inf ∞
ANGLE OF VIEW:	46°
COATING :	MAGENTA
NET WEIGHT:	142 grams or 4.7 oz.

Ideal all-round lens not only for landscapes, portraiture, etc., but also for copying, enlarging work etc. An excellent lens for color as well as black-and-white.

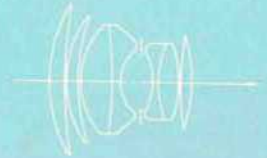
STANDARD

CANON LENS

50 mm **f:1.8** **(Improved)**

LENS ELEMENTS: 6
LENS MOUNT & HEAD: NON-COLLAPSIBLE, NON-REVOLVING
MINIMUM APERTURE: f : 16
DISTANCE SCALES : 3.5 ~ 50ft, or 1 ~ 20m, inf ∞
ANGLE OF VIEW: 46°
COATING: AMBER
NET WEIGHT: 270 grams or 9.5 oz.

A newly improved-high-speed lens design which reduces spherical aberration to the absolute minimum, eliminating coma and providing an extremely flat image surface. Ideal standard lens for black-and-white and color.



STANDARD

CANON LENS

50 mm **f:1.2**

LENS ELEMENTS: 7
LENS MOUNT & HEAD: NON-COLLAPSIBLE, NON-REVOLVING
MINIMUM APERTURE: f : 16
DISTANCE SCALES: 3.5 ~ 50ft, or 1 ~ 20m, inf ∞
ANGLE OF VIEW: 46°
COATING: AMBER
NET WEIGHT: 322 grams or 11.4 oz.

The first lens faster than f:1.5, which produces a camera image of superb definition and resolution wide open. This lens even surpasses the resolving power of the already accepted leader. Canon's previous 50mm f:1.8. Incorporates new rare-glass elements, permitting its aberration-free performance at all stops. Another Canon revolutionary advance in "Available Light" photography.

LONG-FOCUS

CANON LENS

85 mm f:1.9

LENS ELEMENTS:	6
LENS MOUNT & HEAD :	NON-COLLAPSIBLE, REVOLVING
MINIMUM APERTURE:	f : 16
DISTANCE SCALES:	3.5 ~ 100ft, or 1 ~ 30m, inf ∞
ANGLE OF VIEW:	29°
MAGNIFICATION:	1.7x
COATING:	MAGENTA
NET WEIGHT:	410 grams or 14.5 oz.

Probably the finest lens in its class. Light alloy mount. Ideal for portraiture, excellent resolution; popular with press photographers.

LONG-FOCUS

CANON LENS

85 mm f:1.5

LENS ELEMENTS:	7
LENS MOUNT & HEAD :	NON-COLLAPSIBLE, REVOLVING
MINIMUM APERTURE:	f : 16
DISTANCE SCALES:	3.5 ~ 100ft, or 1 ~ 30m, inf ∞
ANGLE OF VIEW:	29°
MAGNIFICATION:	1.7x
COATING:	AMBER
NET WEIGHT:	730 grams or 25.8 oz.

Semi-long-focus lens of CANON's unique design. A light weight lens combining superlative resolution and speed.
An excellent lens for stage shows and portraiture.

TELEPHOTO

CANON LENS

100 mm f:3.5

LENS ELEMENTS:	5
LENS MOUNT & HEAD:	NON-COLLAPSIBLE, REVOLVING
MINIMUM APERTURE:	f : 22
DISTANCE SCALES:	3.5 ~ 100ft, or 1 ~ 30m, inf ∞
ANGLE OF VIEW:	24°
MAGNIFICATION:	2x
COATING:	PURPLE
NET WEIGHT:	184 grams or 6.5 oz.

Lightest lens made from modern light-weight alloy.
Recommended for sports, landscapes, and press work.
Combines speed ami critical sharpness.

TELEPHOTO

CANON LENS

135 mm f:3.5

LENS ELEMENTS:	4
LENS MOUNT & HEAD :	NON-COLLAPSIBLE, REVOLVING
MINIMUM APERTURE:	f : 22
DISTANCE SCALES :	5 ~ 200ft, or 1.5 ~ 60m, inf ∞
ANGLE OF VIEW:	18°
MAGNIFICATION:	2.7x
COATING:	MAGENTA
NET WEIGHT:	438 grams or 15.5 oz.

Made with exceptionally light alloy. Aberration corrections are nearly perfect.
Recommended for all classes of long-distance and aerial photography.

TELEPHOTO

200 mm f: 3.5

CANON LENS

LENS ELEMENTS: 7
LENS MOUNT & HEAD: NON-COLLAPSIBLE, REVOLVING
MINIMUM APERTURE: f : 22
DISTANCE SCALES: 10 ~ 300ft, or 3 ~ 100m, inf
ANGLE OF VIEW: 6°
MAGNIFICATION : 4x
COATING: PURPLE

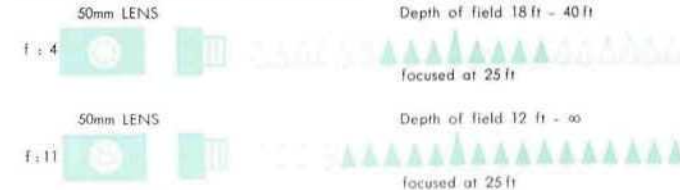
MIRROR BOX, FOCUSING LENS, LENS HOOD, UV FILTER, DOUBLE CABLE RELEASE, LEATHER CARRYING CASE

A telephoto lens with magnification of 4x, this lens is preferred by photographers who need a more powerful magnification than the 135mm lens offers. In speed and resolution, it equals the Canon 135mm lens. Combined with the mirror box, which is supplied with the lens, it enables one to use a Canon Camera as a single-reflex camera. The mirror box is identical to the one for the 400mm lens.

DEPTH OF PHOTOGRAPHIC FIELD

When a lens is brought into focus on any one subject, there is a certain surrounding area which also will appear in focus. This area can be evaluated from the distance scale calibrations. For instance, if we were to calculate it using a 50mm lens brought into focus on an object 25ft away, and using an f:4 aperture, the area of photographic depth would be an area on both sides shown on the scale 1x4. That is in this case, an area approximately between 18ft and 40ft. Everything within this area would be in accurate focus. In the same manner, with an aperture reading of f:11, an area 12ft to infinity will be clearly seen.

The photographic depth is deeper according to the smallness of the size of the aperture and the longer the distance of the subjects from the camera. This depth under converse conditions would become shallower.



DEPTH OF FIELD DATE ON ALL CANON LENSES

FRONT ATTACHMENT FOR ZOOMFINDER II & ZOOMFINDER S

DEPTH OF FIELD IN FEET

Distance focused of	Circle of Confusion=0.035													
	f : 3.5		f : 4		f : 5.6		f : 8		f : 11		f : 16		f : 22	
ft	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
∞	17-7	∞	15-5	∞	11-1	∞	7-7 7/8	∞	5-8 1/2	∞	3-11 5/8	∞	2-11 1/4	∞
50	13-0	∞	11-9	∞	9-3/8	∞	6-8 3/8	∞	5-7/8	∞	3-7 1/2	∞	2-8 1/2	∞
25	10-4	∞	9-6 3/8	∞	7-8	∞	5-11 1/8	∞	4-7 1/2	∞	3-4 3/4	∞	2-7	∞
15	8-1 5/8	101	7-7 5/8	∞	6-4 3/4	∞	5-1 3/4	∞	4-1 5/8	∞	3-1 1/2	∞	2-5 1/8	∞
10	6-5	22-11	6-1 1/4	28-1	5-3 1/2	103	4-4 7/8	∞	3-8	∞	2-10 1/8	∞	2-3 1/8	∞
8	5-6 1/2	14-6	5-3 3/4	16-5	4-8 1/4	28-5	3-11 3/4	∞	3-4 1/2	∞	2-8	∞	2-1 3/4	∞
6	4-6 1/8	8-11 7/8	4-4 3/8	9-8 1/8	3-11 1/4	12-10	3-5 1/8	25-5	2-11 7/8	∞	2-5	∞	1-11 7/8	∞
5	3-11 1/8	6-10 3/4	3-9 3/4	7-3 1/2	3-5 7/8	8-11 1/4	3-1 1/8	13-7	2-8 1/2	39	2-3	∞	1-10 1/2	∞
4	3-3 1/4	5-5 1/4	3-2 1/2	5-3 7/8	2-11 1/4	6-1 5/8	2-8 1/4	7-11 5/8	2-4 3/4	12-10	2-3/8	∞	1-8 1/8	∞
3.5	2-11 3/4	4-3 3/4	2-10 5/8	4-5 1/2	2-8 3/8	5-1/8	2-5 1/2	6-2	2-2 5/8	8-8 1/8	1-10 7/8	27-6	1-7 5/8	∞

25 mm

ZOOMFINDER S FOR WIDE ANGLE LENS

DEPTH OF FIELD IN METERS

Distance focused	Circle of Confusion=0.035													
	f : 3.5		f : 4		f : 5.6		f : 8		f : 11		f : 16		f : 22	
m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
∞	5.400	∞	4.700	∞	3.400	∞	2.400	∞	1.740	∞	1.211	∞	0.875	∞
20	4.200	∞	3.800	∞	2.900	∞	2.100	∞	1.580	∞	1.122	∞	0.835	∞
10	3.500	∞	3.200	∞	2.300	∞	1.910	∞	1.471	∞	1.066	∞	0.804	∞
7	3.000	∞	2.800	∞	2.200	∞	1.770	∞	1.368	∞	1.022	∞	0.780	∞
5	2.600	74.000	2.400	∞	2.000	∞	1.610	∞	1.290	∞	0.969	∞	0.749	∞
4	2.300	15.600	2.200	26.600	1.849	∞	1.500	∞	1.215	∞	0.972	∞	0.724	∞
3	1.940	6.700	1.840	8.200	1.600	26.900	1.360	∞	1.107	∞	0.864	∞	0.686	∞
2.5	1.720	4.600	1.650	5.300	1.450	9.500	1.229	∞	1.034	∞	0.820	∞	0.659	∞
2	1.470	3.150	1.416	3.400	1.268	4.800	1.098	12.400	0.941	∞	0.761	∞	0.621	∞
1.75	1.331	2.560	1.287	2.750	1.165	3.600	1.020	6.470	0.884	∞	0.724	∞	0.596	∞
1.50	1.183	2.060	1.149	2.170	1.052	2.670	0.933	3.960	0.818	10.470	0.680	∞	0.567	∞
1.25	1.024	1.708	0.998	1.677	0.924	1.945	0.832	2.561	0.741	4.260	0.627	∞	0.531	∞
1.0	0.852	1.213	0.834	1.251	0.783	1.391	0.717	1.675	0.649	2.254	0.561	5.391	0.484	∞

25 mm

SPECIAL
FINDER V

DEPTH OF FIELD IN FEET

ft

Distance focused on ft	Circle of Confusion = 0.035																	
	f : 2.8		f : 3.5		f : 4		f : 5.6		f : 8		f : 11		f : 16		f : 22			
	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in		
∞	27- 4⅝	∞	22- 1	∞	19- 4½	∞	13-10½	∞	9- 9¼	∞	7- 2	∞	4-11¾	∞	3- 6	∞		
50	17- 9½	∞	15- 4	∞	13-11⅝	∞	10-10¼	∞	8- 1¾	∞	6- 2⅞	∞	4- 5¾	∞	3- 4¼	∞		
25	13- 1⅞	∞	11- 9¼	∞	10-11½	∞	8-11½	∞	7- ½	∞	5- 6⅞	∞	4- 1½	∞	3- 2	∞		
15	9- 9¼	32- 7	8-11⅞	46- 1	8- 6⅛	65-	7- 3⅛	∞	5-11½	∞	4-10⅜	∞	3- 8⅞	∞	2-11¼	∞		
10	7- 4⅜	15- 6¼	6-11¾	18- ½	6- 7¾	20- 4½	5-10⅜	35-	4-11⅞	∞	4- 2½	∞	3- 4⅛	∞	2- 8⅜	∞		
8	6- 2⅜	11- 2⅝	5-11⅛	12- 4⅛	5- 8½	13- 5⅛	5- 1⅝	18- 5¾	4- 5¾	43-	3- 9⅞	∞	3- 1⅛	∞	2- 6⅛	∞		
6	4-11⅜	7- 7⅛	4- 9⅛	8- 1⅛	4- 7⅛	8- 6⅛	4- 2⅞	10- 4	3- 9⅛	15- ¾	3- 3⅞	35- 6	2- 9⅛	∞	2- 3⅛	∞		
5	4- 3⅛	6- ⅝	4- 1⅜	6- 4½	4- ⅛	6- 7¾	3- 8¼	7- 7⅞	3- 4⅞	9-11⅛	3-	15-10½	2- 6½	∞	2- 1⅞	∞		
4	3- 6⅛	4- 7⅝	3- 5⅛	4- 9⅞	3- 4⅛	4-11⅝	3- 1⅞	5- 6	2-10¾	6- 6⅞	2- 7½	8- 8¼	2- 3¼	19- ¼	1-11⅛	∞		
3.5	3- 1⅝	3-11⅝	3- ⅛	4- 1¼	3-	4- 2½	2-10⅛	4- 7	2- 7½	5- 3½	2- 4⅞	6- 6¼	2- 1⅝	11- ¾	1-10⅛	66-3½		

28 mm

LUMI - FIELD
FINDER V

DEPTH OF FIELD IN METERS

m

Distance focused on m	Circle of Confusion = 0.035																	
	f : 2.8		f : 3.5		f : 4		f : 5.6		f : 8		f : 11		f : 16		f : 22			
	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m		
∞	8.402	∞	6.700	∞	5.800	∞	4.200	∞	2.900	∞	2.100	∞	1.500	∞	1.100	∞		
20	5.913	∞	5.050	∞	4.550	∞	3.500	∞	2.600	∞	1.950	∞	1.400	∞	1.050	∞		
10	4.570	∞	4.040	∞	3.720	∞	2.980	∞	2.290	∞	1.790	∞	1.310	∞	0.990	∞		
7	3.826	42.417	3.450	∞	3.220	∞	2.650	∞	2.090	∞	1.660	∞	1.240	∞	0.950	∞		
5	3.143	12.333	2.890	19.150	2.720	32.260	2.310	∞	1.880	∞	1.520	∞	1.160	∞	0.910	∞		
4	2.719	7.610	2.530	9.720	2.400	12.230	2.070	71.520	1.720	∞	1.420	∞	1.100	∞	0.870	∞		
3	2.219	4.645	2.090	5.340	2.005	5.010	1.770	10.090	1.510	∞	1.275	∞	1.015	∞	0.820	∞		
2.5	1.935	3.541	1.840	3.925	1.770	4.275	1.590	5.980	1.375	15.065	1.180	∞	0.955	∞	0.780	∞		
2	1.627	2.599	1.555	2.810	1.510	2.980	1.375	3.715	1.215	5.900	1.060	22.870	0.875	∞	0.725	∞		
1.75	1.459	2.188	1.400	2.335	1.365	2.450	1.255	2.920	1.120	4.115	0.990	8.465	0.825	∞	0.695	∞		
1.5	1.283	1.808	1.239	1.905	1.209	1.981	1.123	2.275	1.015	2.931	0.906	4.599	0.770	110.000	0.654	∞		
1.25	1.097	1.454	1.065	1.515	1.044	1.562	0.979	1.737	0.897	2.090	0.812	2.806	0.702	6.638	0.605	∞		
1	0.901	1.124	0.880	1.159	0.866	1.186	0.822	1.282	0.764	1.461	0.702	1.771	0.620	2.755	0.545	8.512		

28 mm

DEPTH OF FIELD IN FEET

Distance focused on ft	Depth of Field Table. f : 1.8 ft-in		f : 2 ft-in		f : 2.8 ft-in		f : 4 ft-in		f : 5.6 ft-in		f : 8 ft-in		f : 11 ft-in		f : 16 ft-in		f : 22 ft-in	
∞	65-10 1/4	∞	59- 3 1/2	∞	43-	∞	29- 9	∞	21- 3 3/4	∞	15-	∞	10-11 1/2	∞	7- 7 1/4	∞	5- 7 1/8	∞
50	28- 5 3/4	∞	27- 2 1/8	∞	23-	∞	18- 8 1/4	∞	14-11 1/4	∞	11- 6 1/4	∞	8-11 1/2	∞	6- 6 3/8	∞	4-11 1/8	∞
25	18- 2 1/8	40- 1 1/8	17- 7 1/8	42-11 7/8	15- 9 1/2	60-	13- 7 3/4	155-	10- 4 1/2	∞	9- 4 7/8	∞	7- 7 1/8	∞	5- 9 7/8	∞	4- 6 1/2	∞
15	12- 3 1/8	19- 4	11-11 7/8	19-11 1/8	11- 2	23- 1 1/4	10- 3 1/8	29-11	8-10 3/4	49-10	7- 6 3/8	∞	6- 4 7/8	∞	5- 7 1/8	∞	4- 1	∞
10	8- 8 1/8	11- 8 3/8	8- 7 7/8	11-11 1/8	8- 1 7/8	12-11 3/4	7- 6 1/2	14-10 1/2	6-10 1/2	18- 6 7/8	6- 3/4	29- 4	5- 3 1/2	110-	4- 4 1/2	∞	3- 7 1/2	∞
8	7- 2	9- 3 1/4	7- 1	9- 2 3/8	6- 9 1/4	9- 9 3/8	6- 4 1/4	10- 9 3/4	5-10 1/2	12- 7 1/8	5- 3 3/8	16- 9 1/4	4- 8 1/4	28- 7 1/2	3-11 1/2	∞	3- 4	∞
6	5- 6 1/4	6- 6 7/8	5- 5 5/8	6- 7 1/8	5- 3 1/2	6-11 1/4	5- 1/2	7- 5 1/4	4- 8 7/8	8- 2 5/8	4- 4 1/8	9- 9 1/4	3-11 7/8	12-10	3- 5	27- 1/2	2-11 1/2	∞
5	4- 8	5- 4 1/8	4- 7 5/8	5- 5 1/8	4- 6 1/8	5- 7 1/2	4- 3 7/8	5-11 1/4	4- 1 1/4	6- 5 1/2	3- 9 3/4	7- 4	3- 6	8-10 3/4	3- 1	13-10 3/4	2- 8 1/2	43- 9
4	3- 9 1/2	4- 2 7/8	3- 9 1/4	4- 3 1/4	3- 8 1/8	4- 4 1/8	3- 6 3/4	4- 6 1/4	3- 5	4-10 1/2	3- 1 7/8	5- 3 7/8	2-11 7/8	6- 1 1/8	2- 8 1/4	8- 1/2	2- 4 1/2	13- 1 3/8
3.5	3- 4 1/8	3- 8 1/8	3- 3 7/8	3- 8 1/8	3- 3 1/8	3- 9 3/8	3- 2	3-11	3- 1/8	4- 1 1/2	2-10 5/8	4- 5 1/2	2- 8 1/2	4-11 3/4	2- 5 1/2	6- 2 1/8	2- 2 3/4	8- 9

ft

35 mm

DEPTH OF HELD IN METERS

FINDER COUPLER

FILTER (SCREW-IN TYPE)

m

Distance focused on m	Circle of Confusion=0.035 f : 1.8 m		f : 2 m		f : 2.8 m		f : 4 m		f : 5.6 m		f : 8 m		f : 11 m		f : 16 m		f : 22 m	
∞	20.071	∞	18.071	∞	12.900	∞	9.000	∞	6.400	∞	4.500	∞	3.300	∞	2.300	∞	1.600	∞
20	10.034	∞	9.508	∞	7.850	∞	6.250	∞	4.900	∞	3.700	∞	2.850	∞	2.050	∞	1.550	∞
10	6.693	19.831	6.456	22.268	5.660	43.780	4.770	∞	3.950	∞	3.140	∞	2.510	∞	1.880	∞	1.440	∞
7	5.207	10.696	5.063	11.363	4.560	15.140	3.970	30.300	3.390	∞	2.780	∞	2.270	∞	1.740	∞	1.370	∞
5	4.017	6.626	3.931	6.875	3.620	8.090	3.240	11.010	2.850	21.320	2.400	∞	2.020	∞	1.590	∞	1.270	∞
4	3.248	4.971	3.289	5.109	3.070	5.750	2.800	7.070	2.500	10.230	2.150	31.290	1.840	∞	1.480	∞	1.200	∞
3	2.630	3.310	2.584	3.577	2.450	3.875	2.270	4.421	2.070	5.480	1.830	8.525	1.600	28.300	1.325	∞	1.100	∞
2.5	2.232	2.842	2.206	2.885	2.110	3.075	1.975	3.410	1.825	3.995	1.635	5.390	1.450	9.600	1.220	∞	1.025	∞
2	1.827	2.210	1.809	2.237	1.745	2.345	1.655	2.535	1.545	2.845	1.410	3.475	1.270	4.820	1.095	13.815	0.935	∞
1.75	1.617	1.908	1.603	1.927	1.550	2.010	1.480	2.145	1.395	2.355	1.265	2.770	1.170	3.555	1.015	6.795	0.880	∞
1.5	1.402	1.613	1.392	1.627	1.354	1.683	1.299	1.777	1.234	1.919	1.147	2.182	1.055	2.635	0.931	4.050	0.817	11.594
1.25	1.182	1.326	1.175	1.336	1.148	1.373	1.109	1.433	1.062	1.523	0.998	1.681	0.928	1.934	0.832	2.587	0.741	4.380
1	0.957	1.047	0.952	1.053	0.935	1.075	0.910	1.111	0.878	1.163	0.835	1.251	0.787	1.382	0.718	1.678	0.651	2.265

35 mm

DEPTH OF FIELD IN FEET

Distance focused on ft	Depth of Field Table. f : 1.2		f : 1.4		f : 1.5		f : 1.8		f : 2		f : 2.8		f : 4		f : 5.6		f : 8		f : 11		f : 16		f : 22	
	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
∞	209-	∞	179-	∞	167-	∞	139-	∞	125-	∞	97-	∞	83-	∞	64- 9	∞	51- 4	∞	39-11	∞	33- 9	∞	27- 1	∞
50	40- 4	68- 9	39- 1	69- 5	38- 7	71-	36-10	78-	35-10	83-	33- 2	113-	27-11	245-	23- 9	∞	19- 5	∞	15- 9	∞	12- 1	∞	9- 4½	∞
25	22- 4	28- 5	21-11	29- 1	21-10	29- 4	21- 3	30- 4	20-11	31- 1	19- 7	34- 6	18-	41- 3	16- 2	56-	14-	118-	12- 1	∞	9- 9	∞	8- 1½	∞
15	14- 0	16- 2	13-10	16- 4	13-10	16- 5	13- 7	16- 7	13- 5	16-11	12-11	17-11	12- 2	19- 7	11- 4	22- 3	10- 3	28- 2	9- 2	42- 1	7- 9½	247-	6- 8½	∞
10	9- 6½	10- 6	9- 5½	10- 7	9- 5½	10- 7	9- 4½	10- 9	9- 3½	10-10	9- 1½	11- 2	8- 8	11-10	8- 3	12-10	7- 8	14- 5	7- 1	17- 4	6- 3	26-	5- 5½	65- ½
8	7- 6½	8- 3½	7- 6	8- 4½	7- 5½	8- 5	7- 4½	8- 6½	7- 4½	8- 8½	7- 2½	9- 1	6-10½	9- 7½	6- 8½	10- 7	6- ½	12-	5- 8	15- 7	4-10½	23-10½		
6	5-10	6- 2½	5- 9½	6- 2½	5- 9½	6- 2½	5- 9½	6- 3	5- 9	6- 3½	5- 7½	6- 4½	5- 6½	6- 7	5- 4½	6-10½	5- 1½	7- 3½	4-10	7-11½	4- 3½	9- 4	3- 6½	11- 7½
5	4-10½	5- 1½	4-10½	5- 1½	4-10½	5- 1½	4-10½	5- 2	4- 9½	5- 2½	4- 9½	5- 3½	4- 8	5- 4½	4- 6½	5- 6½	4- 4½	5-10½	4- 2½	6- 3	3-10½	7- ½	3- 2½	8- 2½
4	3-11½	4- 1	3-11	4- 1	3-11	4- 1	3-10½	4- 1½	3-10½	4- 1½	3-10½	4- 2	3- 9½	4- 2½	3- 8½	4- 4½	3- 7½	4- 8½	3- 6½	4- 8½	3- 5½	5- 3½	3- 1½	5- 8½
3.5	3- 5½	3- 6½	3- 5½	3- 6½	3- 5½	3- 6½	3- 5½	3- 6½	3- 5	3- 7	3- 4½	3- 8	3- 3½	3- 9½	3- 2½	3-10½	3- 1½	4- 1½	2-11½	4- 4½	2-10½	4- 9½	2-10	4- 8½

50 mm

DEPTH OF FIELD IN METERS

Distance focused on m	Circle of Confusion = 0.035 f : 1.2		f : 1.4		f : 1.5		f : 1.8		f : 2		f : 2.8		f : 4		f : 5.6		f : 8		f : 11		f : 16		f : 22	
	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
∞	63.400	∞	54.300	∞	50.700	∞	42.300	∞	38.000	∞	27.200	∞	19.000	∞	13.600	∞	9.500	∞	6.900	∞	4.800	∞	3.561	∞
20	15.200	29.200	14.600	31.600	14.400	32.900	13.600	37.750	13.180	41.900	11.550	74.600	9.800	∞	8.150	∞	6.500	∞	5.200	∞	3.900	∞	3.049	∞
10	8.640	11.870	8.460	12.240	8.380	12.410	8.180	13.040	7.950	13.500	7.340	15.700	6.590	20.800	5.810	26.720	4.930	∞	4.140	∞	3.280	∞	2.666	∞
7	6.310	7.860	6.210	8.030	6.170	8.090	6.020	8.360	5.930	8.540	5.590	9.370	5.150	1.960	4.660	14.170	4.080	25.370	3.530	∞	2.890	∞	2.349	∞
5	4.640	5.420	4.580	5.500	4.560	5.530	4.490	5.650	4.440	5.730	4.240	6.090	3.990	6.720	3.690	7.790	3.320	10.260	2.950	17.020	2.490	∞	2.130	∞
4	3.770	4.270	3.730	4.310	3.720	4.330	3.670	4.400	3.630	4.450	3.500	4.660	3.330	5.020	3.120	5.590	2.850	6.740	2.580	9.100	2.220	21.980	1.933	∞
3	2.870	3.150	2.850	3.170	2.840	3.180	2.810	3.215	2.790	3.245	2.715	3.350	2.610	3.532	2.480	3.800	2.310	4.295	2.126	5.130	1.885	7.605	1.679	17.855
2.5	2.410	2.600	2.390	2.620	2.390	2.620	2.370	2.645	2.355	2.665	2.300	2.735	2.225	2.855	2.135	3.025	2.005	3.325	1.870	3.800	1.680	4.959	1.519	7.890
2	1.940	2.063	1.930	2.070	1.930	2.075	1.915	2.090	1.905	2.100	1.875	2.145	1.825	2.215	1.760	2.315	1.675	2.485	1.580	2.735	1.445	3.295	1.329	4.298
1.75	1.704	1.798	1.697	1.805	1.695	1.805	1.685	1.820	1.680	1.825	1.655	1.860	1.615	1.910	1.565	1.985	1.500	2.105	1.425	2.280	1.315	2.650	1.220	3.241
1.5	1.466	1.535	1.461	1.541	1.461	1.541	1.454	1.550	1.449	1.555	1.429	1.579	1.401	1.615	1.365	1.666	1.314	1.750	1.257	1.867	1.171	2.103	1.098	2.443
1.25	1.226	1.274	1.225	1.278	1.224	1.278	1.218	1.283	1.215	1.287	1.202	1.303	1.182	1.327	1.157	1.361	1.121	1.414	1.080	1.488	1.017	1.631	0.966	1.816
1	0.985	1.015	0.985	1.017	0.984	1.017	0.980	1.021	0.978	1.023	0.970	1.032	0.957	1.047	0.941	1.067	0.918	1.099	0.891	1.141	0.850	1.220	0.816	1.311

50 mm

DEPTH OF FIELD IN FEET

Distance focused on ft	Circle of Confusion 0.035																					
	f : 1.5		f : 1.9		f : 2		f : 2.8		f : 4		f : 5.6		f : 8		f : 11		f : 16		f : 22	
	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
∞	441-	∞	349-	∞	330-	∞	236-	∞	166-	∞	118-	∞	83-	∞	60- 6	∞	41- 9½	∞	30- 7	∞
100	88-	129-	77-10	141-	76-11	143-	70- 5	173-	62- 6	252-	54- 4	640-	45- 5½	∞	37- 9½	∞	29- 5½	∞	23- 7½	∞
50	44-11½	56- 3	43- 9½	58- 3	43- 6½	58- 9	41- 4½	63- 3	39- 5½	71- 4	35- 3½	86-	31- 4½	125-	27- 6½	284-	22-10½	∞	19- 2½	∞
30	28- 1½	32- 1½	27- 8½	32- 9	27- 6½	32-11	26- 8½	34- 3	25- 6	36- 5½	24- ½	39-11	22- 2	46- 6½	20- 2½	58- 9	17- 7½	104-	15- 4½	144- 8½
20	19- 2	20-11	18-11½	21- 2	18-10½	21- 2½	18- 5½	21- 9½	17-11	22- 7½	17- 2½	23-11	16- 2½	26- 1½	15- 2	29- 6	13- 8	37- 7½	12- 4½	55- 9½
15	14- 6½	15- 6	14- 4½	15 3½	14- 4½	15- 8½	14- 1½	15-11½	13- 9½	16- 5	13- 4½	17- ½	12- 9½	18- 1½	12- 1½	19- 8½	11- 2	22-11½	10- 3½	28- 5½
12	11- 8½	12- 2½	11- 6½	12- 4½	11- 7½	12- 3½	11- 5½	12- 7½	11- 2½	12-10½	10-11½	12- 3½	10- 6½	12-10½	10- 1½	14- 9½	9- 5½	16- 6	8-10	19- 1½
10	9- 9½	10- 2½	9- 8½	10- 3½	9- 8½	10- 3½	9- 7½	10- 4½	9- 5½	10- 7½	9- 4	10-10½	9-	11- 3½	8- 8½	11- 9½	8- 2½	12-10½	7- 8½	14- ½
8	7-10½	8- 1½	7-10	8- 2	7-10	8- 2½	7- 9½	8- 3	7- 8	8- 4½	7- 6½	8- 6½	7- 4½	8- 8½	7- 1½	9- 1½	6- 9½	9- 8½	6- 6½	10- 5½
7	6-10½	7- 1½	6-10½	7- 1½	6-10½	7- 1½	6- 9½	7- 2½	6- 7	7- 3½	6- 4½	7- 4½	6- 2½	7- 6½	6- ½	7- 9½	6- 1	8- 3	5-10½	8- 9½
6	5-11½	6- ½	5-10½	6- 1½	5-11	6- 1½	5-10½	6- 1½	5- 9½	6- 2½	5- 7	6- 3½	5- 5½	6- 4½	5- 3½	6- 6½	5- 4	6-10½	5- 2½	7- 2½
5	4-11½	5- ½	4-11½	5- ½	4-11½	5- ½	4-11	5- 1½	4-10½	5- 1½	4-10	5- 2½	4- 9½	5- 3½	4- 8½	5- 4½	4- 6½	5- 6½	4- 5½	5- 9½
4	3-11½	4- ½	3-11½	4- ½	3-11½	4- ½	3-11½	4- ½	3-11½	4- ½	3-10½	4- 1½	3-10½	4- 2	3- 9½	4- 2½	3- 8½	4- 4½	3- 7½	4- 5½
3.5	3- 5½	3- 6½	3- 5½	3- 6½	3- 5½	3- 6½	3- 5½	3- 6½	3- 5	3- 7	3- 4½	3- 7½	3- 4½	3- 8	3- 3½	3- 9	3- 2½	3- 9½	3- 1½	3-10½

85 mm

DEPTH OF FIELD IN METERS

Distance focused on m	Circle of Confusion 0.035																					
	f : 1.5		f : 1.9		f : 2		f : 2.8		f : 4		f : 5.6		f : 8		f : 11		f : 16		f : 22	
	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
∞	134.000	∞	106.000	∞	100.000	∞	72.000	∞	50.400	∞	36.000	∞	25.200	∞	18.300	∞	12.600	∞	9.323	∞
30	24.600	38.500	23.400	41.700	23.200	42.600	21.300	51.200	18.900	73.500	16.400	175.000	13.900	∞	11.300	∞	8.900	∞	7.166	∞
15	13.580	16.850	13.150	17.450	13.100	17.600	12.450	18.900	11.600	21.250	10.650	25.500	9.450	34.450	8.300	78.050	6.900	∞	5.825	∞
10	9.230	10.790	9.160	11.020	9.120	11.080	8.800	11.880	8.280	12.410	7.870	13.240	7.210	16.280	6.530	21.350	5.640	43.820	4.905	133.592
7	6.660	7.370	6.580	7.480	6.560	7.510	6.400	7.720	6.170	8.090	5.890	8.620	5.520	9.590	5.110	11.140	4.560	15.370	3.962	27.092
5	4.830	5.180	4.780	5.240	4.770	5.250	4.690	5.360	4.570	5.530	4.410	5.770	4.200	6.180	3.970	6.780	3.630	8.090	3.328	10.417
4	3.890	4.120	3.860	4.150	3.860	4.160	3.800	4.220	3.720	4.330	3.620	4.470	3.480	4.710	3.320	5.050	3.080	5.720	2.866	6.788
3	2.940	3.045	2.925	3.080	2.920	3.085	2.890	3.120	2.845	3.175	2.785	3.250	2.700	3.375	2.605	3.540	2.460	3.860	2.329	4.274
2.5	2.480	2.545	2.465	2.555	2.465	2.560	2.425	2.580	2.390	2.600	2.350	2.670	2.285	2.750	2.215	2.860	2.120	3.060	2.025	3.460
2	1.975	2.015	1.965	2.035	1.965	2.035	1.950	2.050	1.920	2.080	1.890	2.105	1.870	2.155	1.825	2.215	1.755	2.330	1.689	2.499
1.75	1.730	1.770	1.725	1.775	1.725	1.775	1.715	1.790	1.700	1.805	1.680	1.830	1.650	1.860	1.615	1.910	1.560	1.995	1.516	2.082
1.5	1.484	1.515	1.482	1.518	1.481	1.519	1.474	1.527	1.462	1.539	1.448	1.554	1.427	1.581	1.402	1.614	1.361	1.671	1.330	1.710
1.25	1.240	1.260	1.238	1.262	1.237	1.263	1.232	1.268	1.225	1.276	1.215	1.287	1.201	1.304	1.183	1.333	1.158	1.365	1.135	1.393
1	0.994	1.006	0.993	1.007	0.992	1.008	0.989	1.011	0.985	1.016	0.979	1.022	0.970	1.032	0.959	1.045	0.942	1.067	0.931	1.083

85 mm

UNIVERSAL VIEWFINDER V

DEPTH OF FIELD IN FEET

Distance focused on	Circle of Confusion=0.035													
	f : 3.5		f : 4		f : 5.6		f : 8		f : 11		f : 16		f : 22	
ft	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
∞	483-	∞	423-	∞	302-	∞	212-	∞	154-	∞	106-	∞	76- 9	∞
200	141-	340-	136-	378-	121-	581-	103-	3521-	87- 4	∞	69- 7	∞	56-	∞
100	83- 1	125-	81- 1	131-	75- 5	149-	68- 3	188-	61-	281-	51-10	1629-	43-11½	∞
70	61- 4	81- 7	60- 3	83- 7	27- 1	90- 8	52-10	104-	48- 5	127-	42- 6	202-	37- 1	692- 5½
50	45- 5¼	55- 7¼	44-10	56- 6	43- 1	59- 8	40- 8	65-	38-	73- 3	34- 2½	93-	30- 8½	137- 7½
30	28- 4	31-10¾	28- 1¼	32- 2½	27- 4¾	33- 1¾	26- 5¼	34- 8½	25- 3¾	36-10¾	23- 7½	41- 2½	21-11	47-11½
20	19- 3¾	20- 9⅝	19- 1⅞	20-11¼	18-10⅛	21- 3¾	18- 4⅝	21-11¼	17-10¾	22- 9¼	17- 1¼	24- 3½	16- 1¾	26- 5¼
15	14- 7⅛	15- 5¼	14- 6⅜	15- 6	14- 4¾	15- 8½	14- 1⅞	16- 3⅛	13- 9⅞	16- 5½	13- 2½	17- 2¾	12- 9¼	18- 2¾
12	11- 8⅞	12- 3½	11- 8½	12- 3¾	11- 7⅛	12- 5¼	11- 5½	12- 7⅛	11- 2¾	12-10¾	10-10⅞	13- 4½	10- 6¾	13-11½
10	9- 9⅞	10- 2⅛	9- 9⅝	10- 2½	9- 8⅜	10- 3½	9- 7¾	10- 5⅛	9- 5⅝	10- 7½	9- 3	10-10½	9-	11- 3⅛
8	7-10¾	8- 1⅝	7-10½	8- 1½	7-10	8- 2⅛	7- 9⅛	8- 3½	7- 8½	8- 5⅛	7- 6⅞	8- 6⅝	7- 4½	8- 9
7	6-11	7- 1	6-10⅞	7- 1½	6-10½	7- 1¾	6- 9⅞	7- 2⅝	6- 9	7- 3½	6- 7¾	7- 4¾	6- 6⅛	7- 6⅝
6	5-11⅜	6- ⅝	5-11¼	6- ⅞	5-10½	6- 1⅛	5-10½	6- 1⅝	5- 9⅞	6- 2¼	5- 9	6- 3½	5- 8	6- 4⅝
5	4-11½	5- ½	4-11½	5- ⅝	4-11¼	5- ¾	4-11	5- 1	4-10⅝	5- 1½	4-10	5- 2½	4- 9⅞	5- 2¾

ft

100 mm

TWIN-TURRET ZOOMFINDER II

DEPTH OF FIELD IN METERS

Distance focused on	Circle of Confusion=0.035													
	f : 3.5		f : 4		f : 5.6		f : 8		f : 11		f : 16		f : 22	
m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
∞	81.600	∞	71.400	∞	51.000	∞	35.700	∞	26.000	∞	17.900	∞	13.000	∞
50	31.100	128.000	29.500	164.000	25.400	2084.000	20.900	∞	17.200	∞	13.300	∞	10.400	∞
20	16.100	26.350	15.700	27.650	14.450	32.600	12.900	44.750	11.400	83.800	9.550	∞	8.000	∞
10	8.940	11.350	8.810	11.570	8.410	12.350	7.870	13.740	7.290	16.000	6.490	22.030	5.740	40.410
7	6.470	7.630	6.400	7.730	6.190	8.060	5.900	8.620	5.570	9.450	5.100	11.240	4.630	14.580
5	4.730	5.310	4.690	5.350	4.580	5.510	4.420	5.760	4.240	6.110	3.960	6.800	3.680	7.870
4	3.830	4.190	3.800	4.220	3.730	4.310	3.630	4.460	3.500	4.670	3.320	5.050	3.120	5.610
3	2.900	3.105	2.890	3.120	2.850	3.170	2.790	3.245	2.720	3.350	2.610	3.535	2.485	3.795
2.5	2.435	2.570	2.425	2.580	2.395	2.610	2.355	2.665	2.305	2.730	2.225	2.855	2.140	3.015
2	1.960	2.045	1.955	2.050	1.935	2.070	1.910	2.100	1.880	2.140	1.825	2.210	1.770	2.305
1.75	1.720	1.780	1.715	1.785	1.700	1.800	1.680	1.825	1.660	1.855	1.620	1.905	1.575	1.970
1.5	1.478	1.552	1.475	1.526	1.466	1.536	1.451	1.552	1.434	1.573	1.406	1.608	1.374	1.654
1.25	1.236	1.265	1.234	1.267	1.227	1.274	1.218	1.284	1.206	1.298	1.187	1.320	1.166	1.349
1	0.992	1.007	0.990	1.010	0.987	1.014	0.981	1.020	0.974	1.028	0.963	1.041	0.949	1.057

m

100 mm

DEPTH OF FIELD IN FEET

LENS HOOD
WITH
CLAMP ON TYPE
ADAPTER RING

ft

Distance focused on ft	Circle of Confusion = 0.035													
	f : 3.5		f : 4		f : 5.6		f : 8		f : 11		f : 16		f : 22	
	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in
∞	268-	∞	235-	∞	168-	∞	118-	∞	85-10	∞	59- 3	∞	43- 3	∞
100	73-	167-	70- 4	173-	62-10	246-	54- 3	656-	46- 4	∞	37- 3½	∞	30- 2¾	∞
50	42- 3⅛	61- 3	41- 4¼	63- 3	38- 8¼	70- 9	35- 3¼	86- 2	31- 9¼	118-	27- 3½	316-	23- 3	∞
30	27- ½	33- 7⅜	26- 8½	34- 3	25- 6½	36- 3½	24- ¾	39-11	22- 4¾	45- 7½	20- 1	59-10	17-10½	95-11
20	18- 8½	21- 6½	18- 6	21- 9¼	17-11½	22- 7	17- 2½	23-10¾	16- 4¼	25- 9½	15- 1½	29- 8½	13-10½	36- 4¾
15	14- 3	15-10	14- 1⅞	15-11½	13-10½	16- 4½	13- 4¾	17- ⅝	12-10⅝	17-11⅝	12- 1⅜	19- 9⅛	11- 3⅝	22- 5½
12	11- 6⅜	12- 6⅛	11- 5½	12- 7½	11- 3⅛	12-10½	10-11⅝	13- 3	10- 7½	13- 9½	10- 1¼	14- 9⅜	9- 6½	16- 2⅞
10	9- 8⅛	10- 4⅛	9- 7½	10- 4⅞	9- 5⅞	10- 6⅞	9- 2⅜	10-10⅛	9- ⅛	11- 2⅞	8- 8	11-10	8- 3⅛	12- 8⅝
8	7- 9½	8- 2⅝	7- 9¼	8- 3	7- 8⅛	8- 4¼	7- 6⅜	8- 6⅛	7- 4¾	8- 8⅜	7- 1¾	9- 1¼	6-10½	9- 7¼
7	6-10⅛	7- 2	6- 9⅞	7- 2¼	6- 9⅛	7- 3⅛	6- 7¾	7- 4⅝	6- 6½	7- 6½	6- 4⅞	7- 9¼	6- 1⅝	8- 2
6	5-10⅝	6- 1⅜	5-10½	6- 1⅝	5- 9⅞	6- 2¼	5- 9	6- 3⅛	5- 8	6- 4½	5- 6⅝	6- 6⅞	5- 4⅞	6- 9⅝
5	4-11⅛	5- ⅞	4-11	5- 1	4-10⅝	5- 1½	4-10	5- 2⅛	4- 9¼	5- 3	4- 8½	5- 4½	4- 6⅞	5- 6⅞
4	3-11½	4- ½	3-11⅔	4- ⅝	3-11⅛	4- ⅞	3-10¾	4- 1⅛	3-10⅝	4- 1⅜	3- 9⅞	4- 2⅛	3- 8⅞	4- 3⅝
3.5	3- 5⅜	3- 6⅛	3- 5½	3- 6½	3- 5⅛	3- 6⅝	3- 5⅛	3- 6⅞	3- 4¾	3- 7⅛	3- 4¼	3- 7⅞	3- 3⅛	3- 8⅝

135 mm

ZOOMFINDER L
FOR
TELEPHOTO LENS

DEPTH OF FIELD IN METERS

m

Distance focused on m	Circle of Confusion = 0.035													
	f : 3.5		f : 4		f : 5.6		f : 8		f : 11		f : 16		f : 22	
	m	m	m	m	m	m	m	m	m	m	m	m	m	m
∞	147.000	∞	128.000	∞	91.900	∞	64.300	∞	46.800	∞	32.200	∞	23.400	∞
60	42.700	100.000	41.000	111.000	36.400	171.000	31.200	832.000	26.400	∞	21.100	∞	17.000	∞
30	25.000	37.600	24.400	39.000	22.700	44.300	20.600	55.600	18.400	81.900	15.700	190.000	13.300	∞
20	17.650	23.050	17.350	23.600	16.500	25.400	15.350	28.750	14.100	34.450	12.450	51.400	10.900	126.000
15	13.650	16.650	13.500	16.900	12.950	17.850	12.250	19.315	11.450	21.800	10.350	27.500	9.250	40.150
10	9.390	10.700	9.310	10.800	9.060	11.160	8.710	11.750	8.310	12.580	7.720	14.260	7.110	16.980
7	6.700	7.330	6.660	7.380	6.530	7.540	6.350	7.800	6.140	8.150	5.820	8.800	5.480	9.750
5	4.850	5.160	4.830	5.180	4.760	5.260	4.670	5.380	4.560	5.540	4.380	5.830	4.190	6.220
4	3.910	4.100	3.890	4.110	3.850	4.160	3.790	4.230	3.720	4.330	3.600	4.500	3.470	4.720
3	2.950	3.055	2.940	3.060	2.920	3.085	2.885	3.125	2.845	3.175	2.780	3.260	2.705	3.370
2.5	2.465	2.535	2.460	2.540	2.445	2.555	2.425	2.585	2.395	2.615	2.350	2.670	2.300	2.745
2	1.980	2.020	1.975	2.025	1.965	2.035	1.955	2.050	1.935	2.070	1.910	2.100	1.875	2.145
1.75	1.735	1.765	1.730	1.770	1.775	1.725	1.715	1.785	1.700	1.800	1.680	1.825	1.660	1.655
1.5	1.489	1.511	1.488	1.513	1.483	1.518	1.476	1.525	1.467	1.535	1.452	1.551	1.435	1.572

135 mm

PLASTIC
LENS CASE

DEPTH OF FIELD IN FEET

Distance focused on ft	Circle of Confusion = 0.035															
	f : 3.5		f : 4		f : 5.6		f : 8		f : 11		f : 16		f : 22			
	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in	ft-in		
∞	1072- 2½	∞	936- 8½	∞	670-10½	∞	470- ½	∞	342- 2½	∞	235- 8½	∞	171- 9½	∞		
200	234- 2½	414- 8	227- 2½	438- 9½	202- 8	539- 2	183- 2½	821- 6½	160- 4½	2387- 4½	132- 6½	∞	99-11½	∞		
200	168- 9½	240- 7	165 2	253- 2½	154- 5½	283- 6½	140- 9½	345- 9½	126- 9½	476- 9½	108- 9½	1300-6	93- ½	∞		
150	131-10½	173-10½	129- 2½	177-11½	122-11½	192- 4½	114- 2	218-13½	104- 9½	264-10½	92- 3½	407- 2½	80- 8½	1162- 8½		
100	91- 8½	110- ½	90- 2½	111- 2½	87- 4	117- ½	83-10½	126- 3½	77-10½	140- 2½	70- 9½	171- 9½	63- 9½	238-11½		
80	74- 2½	86- 3	73-11	87- 3½	71- 8½	90- 5½	68- 8½	93-10½	65- 3	103- 2½	60- 2½	119- 9½	55- 1½	147- 3½		
60	56-11½	63- 4½	56- 6½	63-11	55- 3½	63- 7½	53- 5½	68- 4½	51- 4½	72- 2½	48- 3	79- 2½	44-11½	90- 9½		
50	47-10½	52- 3½	47- 2½	52- 2½	46- 8½	53- 9½	45- 5	55- 2½	43-11	58- 1½	41- 2½	62- 9	39- 2½	69- 5½		
40	38- 2½	41- 5½	38- 5½	41- 2½	37-10½	42- 4½	37- ½	43- 5½	36- ½	44-11½	34- 8½	47- 2½	33-10½	51 4		
30	29- 3	30- 9½	29- 1½	30-10½	28- 9½	31- 3½	28- 4½	31-10½	27- 9½	32- 2½	26-10½	33-12	25-10½	35- 9½		
25	24- 5½	25- 6½	24- 5	25- 3½	24- 2½	25-10½	23-10½	26- 3½	23- 5½	26- 9½	22-10	27- 2½	22- 1½	28- 9½		
20	19- 8½	20- 4	19- 7½	20- 4½	19- 5½	20- 8½	19- 3½	20- 9½	19- ½	21- 1	18- 7½	21- 7½	18- 1½	22- 3½		
18	17- 9	18- 3½	17- 8	18- 3½	17- 7½	18- 5½	17- 5½	18- 7½	17- 2½	18-10½	16-10½	19- 3½	16- 6½	19- 9½		
15	14-10	15- 2½	14- 9½	15- 2½	14- 8½	15- 3½	14- 7½	15- 4½	14- 5½	15- 6½	14- 3	15-10½	13-11½	16- 2½		
12	11-10½	12- 1½	11-10½	12- 1½	11-10	12- 2	11- 9½	12- 3	11- 8½	12- 4½	11- 6½	12- 6	11- 4½	12- 8½		
10	9-11½	10- ½	9-11	10- 1	9-10½	10- 1½	9-10½	10- 1½	9- 9½	10- 2½	9- 8½	10- 4	9- 7	10- 5½		

ft

200 mm

UNIVERSAL
FRAME FINDER

DEPTH OF FIELD IN METERS

Distance focused on m	Circle of Confusion = 0.035															
	f : 3.5		f : 4		f : 5.6		f : 8		f : 11		f : 16		f : 22			
	m	m	m	m	m	m	m	m	m	m	m	m	m	m		
∞	326.933	∞	286.119	∞	204.486	∞	143.262	∞	104.301	∞	71.833	∞	52.352	∞		
100	90.596	201.916	87.173	221.399	77.774	320.405	68.960	976.014	57.062	∞	45.808	∞	37.068	∞		
50	43.439	58.842	42.644	60.375	40.286	65.872	37.204	76.307	33.558	95.192	29.666	162.349	25.770	1081.486		
30	27.552	32.966	27.233	33.436	26.262	35.038	24.931	37.754	23.447	41.814	21.337	50.975	19.265	69.253		
20	18.886	21.245	18.738	21.437	18.280	22.075	17.633	23.108	16.888	24.546	15.779	27.397	14.631	31.853		
15	14.376	15.683	14.291	15.786	14.026	16.125	13.648	16.661	13.203	17.385	12.525	18.747	11.800	20.701		
12	11.601	12.425	11.547	12.489	11.376	12.697	11.129	13.022	10.835	13.454	10.380	14.244	9.884	15.328		
10	9.725	10.289	9.687	10.332	9.568	10.471	9.395	10.689	9.188	10.974	8.863	11.486	8.504	12.170		
8	7.827	8.180	7.803	8.207	7.724	8.293	7.617	8.426	7.483	8.598	7.271	8.902	7.032	9.399		
7	6.869	7.135	6.851	7.155	6.793	7.219	6.709	7.318	6.606	7.445	6.443	7.669	6.258	7.956		
6	5.906	6.097	5.893	6.111	5.851	6.157	5.789	6.227	5.714	6.317	5.594	6.474	5.457	6.673		
5	4.936	5.065	4.927	5.075	4.899	5.105	4.857	5.152	4.806	5.212	4.723	5.314	4.628	5.444		
4	3.961	4.040	3.955	4.045	3.938	4.064	3.912	4.092	3.880	4.128	3.829	4.189	3.768	4.265		
3.5	3.471	3.529	3.467	3.534	3.454	3.547	3.435	3.568	3.411	3.594	3.372	3.639	3.327	3.694		
3	2.980	3.020	2.977	3.023	2.968	3.033	2.954	3.047	2.937	3.066	2.910	3.097	2.878	3.135		

m

200 mm