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Flash Exposure Guide Numbers for Kodak Reting IIIc with Kodak Standard Flasholder

flash quide

To calculate the lens opening, divide the exposure guide number by the lamp-to-subject distance in feet.

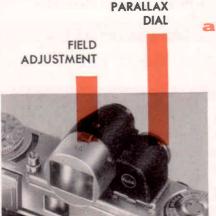
THE SELF-TIMER

If you wish to include yourself in a picture, first operate the rapid wind lever; then set the selector pointer to V. Start the self-timer mechanism by pressing the exposure release. The shutter will go off after about 10 seconds; you therefore have sufficient time to take your place in the picture.

If you use the self-timer for flash shots, the camera works with the X-synchronization. As the self-timer runs down, the synchronizing lever automatically moves to X. Be sure to use the correct shutter speed setting for X-synchronization, (see table).

ł							-	
	Lamps	Selec- tor	Shutter Speed	Plus-X	Super-XX	Tri-X	Koda- chrome Type A	Ekta- ch rome Type F
	SM-SF	"X"	Open to 1/30 1/60 1/125	85 80 75	120 120 100	160 160 150	55 50 45	·
	No. 5 or No. 25	"M"	Open to 1/30 1/60 1/125 1/250 1/500	150 130 110 85 60	220 190 150 120 85	300 270 220 170 120	80* 70* 55* 40* 30*	120 100 85 65 45
	No. 8	"M"	Open to 1/15 1/30 1/60 1/125 1/250	110 95 90 85 70	150 140 130 120 100	220 190 180 170 140	55* 50* 45* 40* 35*	85 75 70 65 55
					dachrome ylight Type		Ektachr Daylight	
_	No. 5B or No. 25B	"M"	Open to 1/30 1/60 1/125		50 45 35		80 70 55	

^{*}With Kodak Flash Filter No. 81C



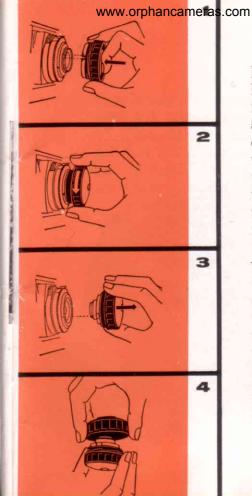
Attach this finder to the camera by sliding the base shoe of the finder into the clip as shown above. Roll the knurled FIELD ADJUSTMENT as far as it will go toward 80 to set the field for the 80mm lens, and toward 35 to show the field for the 35mm lens. The red dot on the adjustment will indicate the finder setting.

Rotate the PARALLAX DIAL until a red figure corresponding to the camera-to-subject distance in feet is at the white index dot. Disregard the chrome figures corresponding to the camera-to-subject distance in meters.

auxiliary interchangeable lenses

Both an 80mm long-focus lens component, especially suited to portraits and long-range subjects, and a 35mm wide-angle lens component, particularly useful when you wish to cover a wide subject field, are available to widen the scope of your Retina IIIc Camera. The Kodak Retina 35-80 Optical View Finder (for Kodak Retina IIIc and IIc Cameras), shown at the left, is available to show the field of view for both the 35 and 80mm lenses.

The standard lens of your camera is the 6-element, f/2, 50mm, Kodak Retina-Xenon C Lens. When the front component of this lens is removed to admit one of the auxiliary lenses, the shutter blades are exposed. Behind the blades is the rear lens component. This forms a complete lens only in combination with the standard, telephoto, or wide-angle lens components specified for this camera. Change lenses in subdued light.



The front component of the standard lens is locked in place by a bayonet-type, internal snaplock mechanism. For removal and storage of the front component, the use of the Kodak Retina 50mm Lens Component Case, a special grip-top container, is recommended. As shown in the illustration, after removing the top of the case, (1) press in the transparent center of the top to bring the grip-insert to its full-open position. (2) Place the insert over the lens rim, press the black outer ring toward the lens as far as it will go to tighten the hold of the grip-insert; then turn counterclockwise. (3) Remove the lens. (4) Without removing the lens from the grip-top, place the bottom of the container over the lens while it is held in the griptop, engage the threads of the top and bottom of the container, and tighten. The lens can be replaced on the camera by placing the red dot on the lens flange opposite the red dot on the lens opening ring and turning the lens clockwise until the snaplock engages. Make sure that the lens is tight.



telephoto shots

Telephoto effects can be obtained with the Kodak Retina Longar Lens Component, $80 \text{mm} \ f/4$ (for Kodak Retina Cameras with Xenon C Lenses). To attach the lens to the camera, place the red dot exactly opposite the red dot (arrow in illustration) on the lens opening ring; then press in and turn the lens clockwise until the snap-lock engages.

The rangefinder can be used to focus not only the 50mm lens, but also the 80mm or 35mm lens.

To focus the Longar lens, determine the camera-to-subject distance with the camera rangefinder and note the distance figure opposite the index on the focusing scale for the standard 50mm lens. Now, tilt the camera up and look underneath the shutter to find the TELE-SCALE. Then transfer the measured value to the part of the tele-scale marked with chrome figures on black. To do this, turn the focusing knob until the measured distance on the tele-scale is opposite the "T" INDEX mark.

By attaching a Kodak Retina 80mm Auxiliary

Lens (for Kodak Retina Longar Lens Component, $80\text{mm}\ f/4$) to your telephoto lens, you can also focus the telephoto lens with the rangefinder for distances from 6 feet to 3.5 feet. In that case, transfer the measured distance to the part of the tele-scale with the gold figures on black.



The rotating ring on the telephoto lens is for indicating depth of field only; the camera cannot be focused with this ring. The distance scale of the ring is engraved in the same colors as the tele-scale as a reminder to set the appropriate scale for correct focus.

35

CAUTION: Remember that the largest lens opening of your Longar lens is f/4. Therefore, when moving the speed ring, make sure that the lens opening lever does not indicate a larger lens opening than f/4; that is, f/2 or f/2.8. Otherwise the picture will be underexposed.

CAUTION: Remember that the largest lens opening of your Curtar lens is f/5.6. Therefore, when moving the speed ring, make sure that the lens opening lever does not indicate a larger lens opening than f/5.6; that is, f/4, f/2.8, or f/2. Otherwise the picture will be underexposed.

wide-angle shots

For wide-angle effects with your camera, use the Kodak Retina Curtar Lens Component, 35mm f/5.6 (for Kodak Retina Cameras with Xenon C Lenses). To attach the lens to the camera, place the red dot opposite the red dot on the lens opening ring; then press in and turn the lens clockwise until the snap-lock engages.

To focus the Curtar lens correctly, get the camera-to-subject distance with the rangefinder and

note the distance figure opposite the index on the focusing scale for the standard lens. Now, transfer the distance figure obtained with the rangefinder to the WIDE-ANGLE SCALE (black figures on chrome) by turning the focusing knob to bring the appropriate figure to the triangular WIDE-ANGLE INDEX.

Like the telephoto lens, the wideangle lens carries a color-keyed scale for indicating depth of field *only*.



without light values

setting exposures

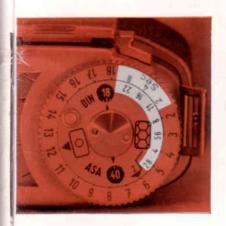
Shutter speeds and lens openings can also be set without reference to the light value scale. However, the *shutter speed must be set first* and the lens opening after. Otherwise, the lens opening will be changed because of the speed ring coupling.

time exposures

If a meter reading indicates a lens opening-shutter speed combination by which the lens opening lever reaches the limit of its movement when you try to set a small lens opening, you can still take the picture. Simply mount the camera on a tripod and take a time exposure* with the shutter set at B. The green figures on the meter setting ring show the exposure required at the desired lens opening setting. The illustration shows exposures of 2 sec. at f/11, 4 sec. at f/16, or 8 sec. at f/22.

Set the lens opening; then press the exposure release for the correct interval; the shutter is open while the exposure release is depressed.

^{*}The Kodak Metal Cable Release No. 5 screws into the top of the exposure release.

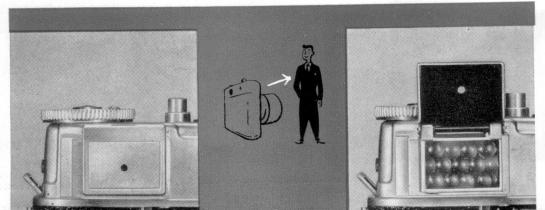


exposure meter

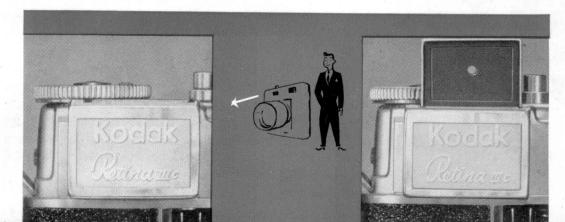
Two ways to use it

The exposure meter of the Retina IIIc can be used in two different ways: for reflected light readings (usual way) and for incident light readings.

Reflected light readings are taken from the camera position toward the subject as described on page 7. This method is suitable for all subjects without strong contrasts of light and shade and where there is no particularly dark or exceptionally brilliant background or surroundings (sky or water).



Incident light readings are taken with the camera pointed from the subject towards the picture-taking position. With this method, the incident light mask must always be fitted over the cell of the exposure meter regardless of whether the cover is opened, or closed as shown below. This method is particularly suitable for determining the light value in against-the-light shots, snow subjects, and close-ups.





multiple exposures

In normal use of the camera, the interlock system guards against multiple exposure by locking the exposure release after an exposure until the rapid wind lever is actuated; operating this lever also sets the shutter, advances a frame of film, and moves the film counter.

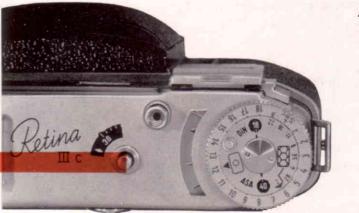
To take an intentional multiple exposure, first make the original exposure; then press and hold the CLUTCH BUTTON while operating the rapid wind lever. Pressing this button disengages the film advance mechanism but permits the operation of the rapid wind lever to set the shutter. (Use this method also for saving film if flash lamps fail to fire.)

Inasmuch as the film counter is also advanced, one or more frames of film will be available than is shown on the counter. To be able to use these frames of film after the counter reaches 1, thus locking the rapid wind lever, press and hold down the film release button; then press the film

counter advance in the direction of the arrow as many times as is necessary to bring the diamondshaped mark on the film counter opposite the notch. The rapid wind lever can then be operated.

the film release

The FILM RELEASE button can be used to deal with any blockage of the rapid wind lever that may occur. Just press the film release button; if the lever is locked between the start and end of its swing, it will spring back into place.



FILM RELEASE

a complete system of photography with the

Retina IIIc

Certain auxiliary equipment has been referred to and described previously in the manual. This equipment, and the items that follow are, or soon will be, available to extend the picture-taking scope of your Retina Camera. See your Kodak dealer.

Kodak Combination Lens Attachments. Standard and Curtar Lenses use the No. 29 Kodak Adapter Ring to accept the Kodak Combination Lens Attachments Series VI; Kodak Lens Hood, Series VI-A. The Longar Lens uses the 2 % inch (60mm) Adapter Ring to accept the Series VIII lens attachments.

Kodak Retina Field Case Model B (for Kodak Retina IIIc, IIc, and Ib Cameras). Stitchless construction — leather with chrome-finished metal reinforcement — plush lined — pivoting and removable front — adjustable neckstrap. Elastic band inside of top is for storing incident light attachment of exposure meter. To remove front of field case, slide attaching button upward.



Kodak Retina 50-80 Sports Finder (for Retina IIIc and IIc Cameras). This folding, open-frame finder shows the field covered by the 50 and 80mm lenses. Manual parallax adjustment. 80mm finder frames swing in or out of 50mm frame. Chrome finished. Compact. Supplied in leather case attachable to carrying case strap.



Kodak Retina Close Range and View-finder Kit, Model B (for Kodak Retina IIIc, IIc, and Ib Cameras). This kit is used for optically measuring film-to-subject distances, and for determining the precise field covered by the 50mm lens supplemented by the N1, N2, or the combination of the N1 and N2 auxiliary lenses. This extends the focusing range of the Retina Camera down to 11 ½ inches film-to-subject distance. Supplied complete: Range and viewfinder with two supplementary lenses in fitted case.



Kodak Retina Close-up Kit, Model B (for Kodak Retina IIIc, IIc, and Ib Cameras). This kit measures close distances (11 to 6 inches) and the field sizes mechanically at 4 settings by means of 4 pairs of field guides. The maximum field covered is about 4 x 6 inches. The minimum is about 1½ x 2 inches. The outfit consists of a field guide holder, 4 pairs of field guides, and 3 R-type auxiliary lenses. For use, the kit requires the Kodak Retina Camera Platform, Model B.



Kodak Retina Camera Platform, Model B (for Kodak Retina IIIc, IIc, Ib, and Retinette f/3.5 Cameras). This platform fits the bottom of the camera and provides a tripod socket in the center of the camera base. It is required for using certain auxiliary items of equipment.



Kodak Table Top Camera Stand, Model B.
Consists of base, 2-section telescoping column, ball-and-socket head, and right angle head. It provides flexible yet rigid support for miniature cameras from a few inches to about a foot above the base. Can be disassembled.



Kodak Retina Microscope Adapter Kit, Model B (for Kodak Retina IIIc, IIc, and 1b Cameras). Photomicrographs can be made easily with the above outfit. Fits practically all microscopes - eye piece diameter 1 inch. Reduction on the film is 5 to 1. The negatives can be enlarged considerably in excess of 5 times; consequently, microphotographs can be made considerably in excess of the power of the microscope. Exposure is made while watching the specimen through the eye piece. Outfit consists of microscope adapter, clamping ring, and light-value diaphragm locking ring.



DETAILS

FILM

FILM SIZE—Kodak 135, 20- or 36-exposure magazines
NEGATIVE SIZE—24mm x 36mm

LENS—50mm, f/2 Retina-Xenon C, coated, 6 elements. Changeable front component held by bayonet-type snap lock; removable to substitute auxiliary lenses LENS OPENINGS—f/2, f/2.8, f/4, f/5.6, f/8, f/11, f/16, f/22

SHUTTER

SYNCHRO - COMPUR — Automatically cocked when film is advanced SPEEDS—1, 1/2, 1/4, 1/8, 1/15, 1/30, 1/60, 1/125, 1/250, 1/500 and "B" RELEASE—plunger type on top of camera, or Kodak Metal Cable Release No. 5 SELF-TIMER—Built-in, selector at "Y," about 10 seconds delay FLASH—Built-in synchronization for class F, M, and electronic flash

EXPOSURE METER—Integral part of camera. Element is moisture sealed. Reads reflected and incident light (with mask)

FOCUSING AND VIEWING

COUPLED RANGE FINDER—Superimposed image type

VIEWFINDER — Optical, projected viewframe type combined with range finder FOCUSING RANGE—2½ feet to infinity

DOUBLE EXPOSURE PREVENTION—Automatic; multiple exposures possible

RAPID WIND LEVER—Advances film and sets shutter with one stroke

CONSTRUCTION

BODY—Die-cast aluminum alloy, black leather covered TRIPOD SOCKET—In camera base, standard American thread SERIAL NUMBER—On top of Camera, behind accessory clip

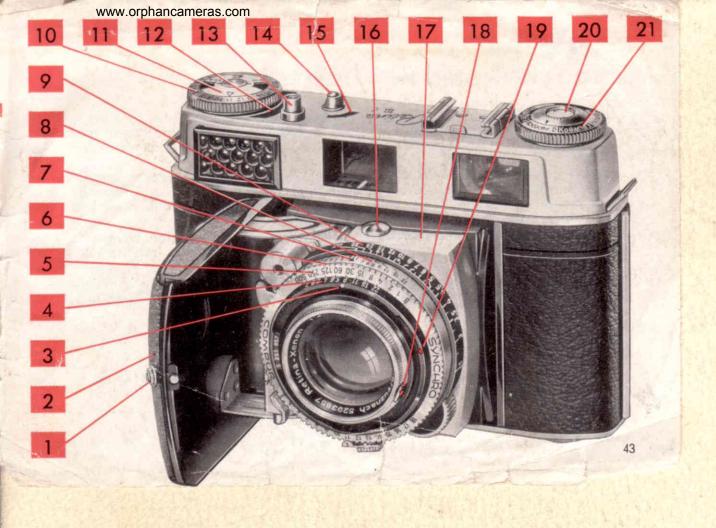
Combination Lens Attachments — Series VI, Kodak Adapter Ring No. 29 with standard or wide-angle lens. Series VIa Lens Hood. Series VIII 23%-inch Kodak Adapter Ring with telephoto lens

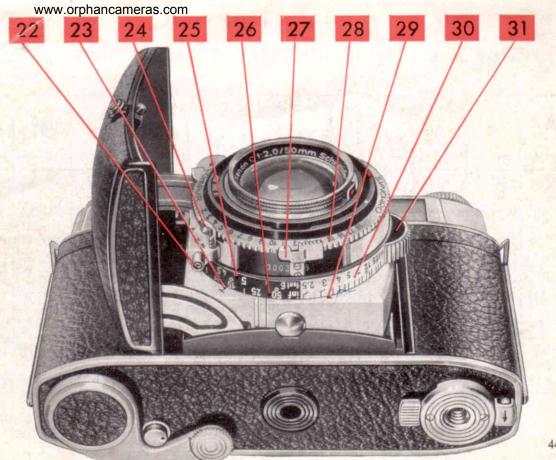
EASTMAN KODAK COMPANY

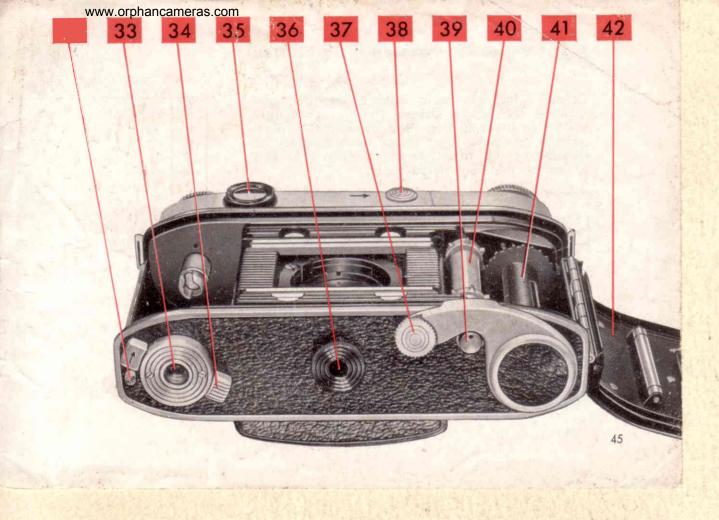
ROCHESTER 4, NEW YORK

www.orphancameras.com The Camera Features

1	Button to open camera front	23	Focusing index for tele lens
2	Baseboard	24	Green synchronizing and
3	Setting index for apertures and		self-timer lever
	shutter speeds	25	Distance scale for tele lens with
4	Aperture scale		T 1/60 close-up lens
5	Shutter speed scale	26	Distance scale for tele lens
6	Shutter speed setting ring	27	Light value setting lever
7	Focusing index	28	Light value scale
8	Depth of field scale	29	Focusing index for wide-angle lens
9	Distance scale	30	Distance scale for wide-angle lens
10	Exposure meter setting ring	31	Focusing knob
11	Film speed disc of exposure meter	32	Button to open camera back
12	Exposure meter cell	33	Tripod bush
13	Shutter release button	34	Safety lever for button 32
14	Film release button	35	Eyepiece of large-size view- and
15	Film counter		rangefinder
16	Button to close camera	36	Locating hole for accessories
17	Lens panel	37	Rapid winding lever
18	Red dot on lens mount	38	Button to set film counter
19	Red dot on bayonet mount of camera	39	Reversing button
20	Rewind knob	40	Transport sprocket
21	Film indicator	41	Built-in take-up spool
22	Flash socket	42	Camera back
22	I lusti socket	74	Culliera back
		- 7	







Light Value Correction with Filters

Colour filters are indispensable for good pictures — the range covers colours from light yellow to blue. As you may know, most filters have a so-called filter factor according to the density of the filter. You can allow for this factor on the light value scale.

Filter		Factor	Reduce Light Value Setting by
Light yellow	FI	1½ x	1½
Medium yellow	F II	2 x	1
Yellow green	F 111	2 x	1 1
Orange	FIV	3 ×	1/2
Red	F۷	7 ×	3 (23/4)
Blue	F VI	21/2 x	11/2 (11/4)
Ultra-violet	-	<u>-</u>	_
Polarising filter	-	21/2 x	11/2 (11/4)

There are also special filters for KODACHROME film.

Depth of Field Table (Sharp Zones * in feet)

91								_						۵	Depth		□	at Distance	nce		Setting	i g	in fe	feets	w						
ertu		$2^{1/2}$	~sı	က		$3^{1/2}$	/2	4	_	4	41/2		2		9		_		ω		0	_	12		15		25		50	_	Z
αA		from	₽ — <u>—</u>	from	to from		to from	from	2	from	\$	from	£	from		from	P	from	e	from	_ _	from	 •	from	to to	from	n to	from	n to	from	- t
7	-	5" 2	1.1. 2	1,	2'5" 2'7" 2'11" 3'1" 3'4" 3'8" 3'10"	3.4"	3.8., 3	3.10.,	4.2,	4.3	4.6" 4.9"	4.6,,	5.4"	5'4" 5'7"		5.9 ,.9.9	1	7.8" 7'3"	8,11,, 8,6,,	.6,8		11.6 10.3		14′3″ 12′5″		.,9,816,81	., 38,	, 29,	, 199,	.6,02	INF
2,8		.52	2'5" 2'8" 2'10" 3'3"		3.3.,	3.4"	3.6.,	3,6,	4.4	4.2	4'11" 4'7"	4.7.,	2,6,,	5.4"	6,9	6.9" 6'2"	∞	7.	9.4"	8.4"		12'3" 9'9"	<u>'</u>	11,8	15'5" 11'8" 20'10" 16'10"	16/10)" 48'	, 25,	, 220′), 51,	N.
4	i –	.5,, 5	7.8	01.	2'5" 2'8" 2'10" 3'3" 3'3"		3.10" 3'8"		4.5.,	4.2	5.1"	4'6"	5′10″	5'3"	7.1	5′11″	.,9,8	,,8,9	10.1"	<u>ش</u>	13.6″	,1,6,1		10.7	25′3′	25′3″ 14′9″	,18	, 20'10"	G", INF	F 35′10″	" INF
2,6	1	7,4"	2.4" 2'9" 2'9" 3'4"	5.6.7	3.4"	3.7	,4 (;)	<u>.</u> ن	4′8′′	3.11."	5.4"	4'3"	"L.9	5′	7.8″	5.7"	9.5	6.3,,		11.8" 7.3"	16,	8,3,,	21.11	21.11 9.7	35,	12.6	91.5	91.5" 16/11"	1" INF	F 25.7	INF
Φ	<u> </u>	3″, 2	2'3" 2'10" 2'8"	5.8	3.6	3,	4.3"	3,3,	4′11″	3.6.,	5′10″	4	,8,9	4'8"	8.8"	5.7	È	5'8"	13,10,, 6,6,,	,9,9	21,6	21'6" 7'4"		34'6" 8'4"	85,	10.7	" INF	F 13′4″	N.	F 18′	N.
=	5	2.7	3,	7.6"	3.9" 2'10" 4'6"	,10,,	.,9,t	3,7	2,6,,	3'6"	.,6,9	3.6,,	7.10	4′3″	10'3"	4.8,,	14.6	4'8" 14'9" 5'1"	<u>'</u>	20'5" 5'9"		43.9" 6'4"	192′	7.7	N.	6	N	F 10′3″	INF	F 12'9"	N.
16		2′1″ 3	3'3" 2'4"		4′2″ 2′8″		5.4" 2"		,,8,9	3′2″	ú	3.5	10.7	10.2 3.6	16,	4.2	4′2″ 27′6″	4′5″		57.6" 4'11"	" INF	5'4"	N.	5′10″	N.	,,01,9	" INF	φ.	N.	F 9'2"	N.
22		11,"3	1.7.1	7.1	111" 37" 21" 410" 2'5" 6'8" 2'8"	2 (2,8,,	2'8"	۵	2.10"	12′	3.1"	17.7"	17.7" 3.4"	49,	3.7	N.	3′10″	INF	4′2″	N.	4'5"	N.	4′10″	" INF	5.2,,	, INF	F 6′	INF	F 6'10"	"
										-		The	dist	ance	Sare	a me	asur	The distances are measured from the film plane.	om t	he fi	α E	lane.					,-				

The distances are measured from the film plane. * The depth of field is calculated for a circle of confusion of 1/500 inch.

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