Exposure Time Tables



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EXPOSURE TIME TABLES

Dr. Max Leo's system

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No. I Time of Day and Year

Fore-	After-	fter- January Fe December No		March October	April September	May August	June July	Northern Hemisphere
5 6 7 8 9 10 11	7 6 5 4 3 2 1	- - 8 7 5 4	9 7 5 4 3 3	- 7 5 3 2 1 1	- 8 5 3 2 1 1	8 6 3 2 1 1 0 0	7 5 2 1 1 0 0	
Fore-	After-	July June	August May	September April	October March	November February	December January	Southern Hemisphere

No. II Lighting

Objects, which in the shade, when the sun shines, are not directly struck by the light rays, come within 2 (slightly clouded) unless Table III (diffused light) is already used

Sunny with white clouds	Sunny	Sky slightly overcast	Sky rather clouded	Sky strongly clouded	Dark thun- der-storm clouds
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No. III Object to be exposed

		Light diffused											S.G.	4		Landscape					
1			Portraits and Still-life							white)			Race-cours		ore	age)		d	Wa	ter,	
		woi]	Inside		70			0				ce-c		ashor	(foliage)		uno.	Glad	cier	
		window	low	low		trees	trees		(dark)	(light,	t			18	and		pund	fore-ground	pun	roun	
interior	interior	the	distance	distance	window	dark	light	air		1	street	street	squares,	Downs	1 sea	fore-ground	fore-ground	no fo	fore-ground	fore-ground	
1000	mark !	Reproduction at the	feet d	the the			la la	oben s	Architecture	Architecture					es on			int, r	fore		S
Dark	Light	Repr	at 6 f	at 3 f	it the	beneath	beneath	In of	Archi	Archi	Narrow	Jarge	Public	Strand,	Scenes	Dark	Light	Distant,	with	without	Clouds
			Ø 0→	00 44	cd	10	,42	1	1	1	-	1	-	02	97	н	-		>	3	-
30	24	18	17	14	12	14	11	9	8	3	8	6	5	3	2	8	6	4	4	1	0

No. IV Dryplate and Film

ODIN	7/10	9/10	11/ ₁₀	13/ ₁₀	16/ ₁₀	18/ ₁₀	20/ ₁₀
	170	190	21 ⁰	23 ⁰	26 ⁰	28 ⁰	30 ⁰
	351	570	930	1300	2700	4700	7200
	3	2	0	-2 *	-4*	-5*	-6*

No.	.V	Dia	ph	ragm
				8

F. Nos. Continental Scale	F:1.4 F:1.5	1.8	2.2	2.8	3.5	4 —	4.5	5.6	6.3	8 9	11 12.5	16 18	22 25	32 36
	0	1	2	4	5	6	7	8	9	10	12	14	16	18

No. VI Exposure Time

Total	8	9	10	11	12	13	14	15	1	6 1	7 1	8 19	20	21	22 2	23 24
Seconds	1/1500	1/1000	1/750	1/500	1/400	1/250	1/200	1/12	5 1/1	00 1/	50 1/5	1/30	1/25	1/15	1/12 1	/8 1/6
Total	25	26	27	28	29	30	31	32	33	34	35	36	37	38	3 39	40
Seconds	1/4	1/3	1/2	3/4	1	11/2	2	3	4	6	8	12	15	25	30	50
Total	41	42	43 4	4 45	46	47 4	8 49	50	51	52	53	54	55	56	57	58
Minutes	1	11/2	2	3 4	6	8 1	2 15	25	30	50	60	90 1	20	180	240	360

When working with colour filters, increase the exposure time as follows:

Light yellow filter: Orthochromatic film 2 times Panchromatic film 2 times Medium yellow filter: 3 times

Dark yellow filter: 4 times 4 times Yellow green filter: 2 times

3 times

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How to use it

Take from Tables I to V the red numbers respectively, the total sum of which gives in table VI the time of exposure; e. g. intended exposure: End of May, fore-noon 10 o'clock (Table I No.), sunny sky with white clouds (Table II No.), landscape with foliage in the fore-ground (Table III No.), dryplate 17 °Scheiner (Table IV No.), and diaphragm f/16 (Table V No. 14). Values found: 1+0+8+3+14=26

No. 26 in table VI indicates 1/3 of a second as the correct exposure time.

The figures indicated in this chart apply especially to countries situated as follows:

In the North from 300 septentrional latitude, as, for example:

Europe, Siberia, China, Japan, North Africa, U.S. A., Canada.

In the South from 30° meridional latitude, as, for example:
Argentine, Chili, The Cape, Southern Australia.

Take one half of the values obtained by means of this table for the following countries:

At the Equator and northward as far as 300 septentrional latitude, as, for example:

Mexico, Sudan, India,

in the months of January February March

December November October

at the Equator and southward as far as 300 meridional latitude, as, for example:

Ecuador, Venezuela, Brasil, Bolivia, Peru, South Africa, Central
and North Australia.

in the months of June May April

Tuly August September

When estimating the values in Table No. III take into account the SHADOWS of the subject — especially in tropical regions.

A few accessories are recommended for your camera:

Tripods, tilting heads, exposure-meters, telemeters, yellow filters, sundries for the darkroom, Ideal and Paranal developers, Fotolin — — in fact, everything that simplifies photography and renders it a delightful hobby can be obtained from Zeiss Ikon. Always use a Zeiss Ikon film in a Zeiss Ikon camera to ensure the very best results.

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