

Exposure Time Tables



Zeiss Ikon A.G. Dresden



Exposure Time Tables

From Dr. Max Leo

All rights reserved

No. I Time of Day and Year

Fore-noon	After-noon	January December	February November	March October	April September	May August	June July	Northern Hemisphere
5	7	—	—	—	—	8	7	
6	6	—	—	—	8	6	5	
7	5	—	9	7	5	3	2	
8	4	8	7	5	3	2	1	
9	3	7	5	3	2	1	1	
10	2	5	4	2	1	1	0	
11	1	4	3	1	1	0	0	
12		4	3	1	1	0	0	
Fore-noon	After-noon	July June	August May	September April	October March	November February	December January	Southern Hemisphere

No. II Object to be exposed

Dark interior	Light interior	Light diffused							Architecture (dark)	Architecture (light, white)	Narrow street	Large street	Public squares, Race-course	Strand, Downs	Scenes on sea and ashore	Landscape				Clouds	
		Portraits and Still-life														Dark fore-ground (foliage)	Light fore-ground	Distant, no fore-ground	Water, Snow, Glacier		
		Inside			beneath dark trees	beneath light trees	In open air	with fore-ground											without fore-ground		
		at 6 feet distance from the window	at 3 feet distance from the window	at the window																	
30	24	18	17	14	12	14	11	9	8	3	8	6	5	3	2	8	6	4	4	1	0

No. III Dryplate

Scheiner . . .	80	110	130	140	160	170	190	200	210	Autochrom with yellow filter
Hurter & Driffield	400	820	1330	1700	2760	3510	5700	7270	9300	
	9	7	6	5	4	3	2	1	0	17



No. IV

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 II, (diffused light) is already used

Sunny with white clouds	Sunny	Sky slightly overcast	Sky rather clouded	Sky strongly clouded	Dark thun- der-storm clouds
0	1	2	3	4	6

No. V

Diaphragm

F. Nos.	F:1.4	—	2	—	2.8	4	5.6	8	11	16	22	32
Continental Scale	F:1.6	1.8	2.2	2.7	3.2	4.5	6.3	9	12.5	18	25	36
	0	1	2	3	4	6	8	10	12	14	16	18

No. VI

Exposure Time

Total	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
Seconds	1/1500	1/1000	1/750	1/500	1/400	1/250	1/200	1/125	1/100	1/60	1/50	1/30	1/25	1/15	1/12	1/8	1/6	
Total	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42		
Seconds	1/4	1/3	1/2	3/4	1	1 1/2	2	3	4	6	8	12	15	25	30	50		
Total	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Minutes	1	1 1/2	2	3	4	6	8	12	15	25	30	50	60	90	120	180	240	360

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. 1), landscape with foliage in the fore-ground (Table II No. 8), dryplate 17° Scheiner (Table III No. 3) sunny sky with white clouds (Table IV No. 0), and diaphragm f/18 (Table V No. 14). Values found:

$$1 + 8 + 3 + 0 + 14 = 26$$

No. 26 in table VI indicates 1/6 of a second as the correct exposure time.

Zeiss Ikon Films 17/18° Sch. (350/500° H.&D.) With Yellow filter
increase of exposure time: light 3 times, medium 5 times



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

In the North from 30° 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 30° 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 30° meridional latitude, as, for example:
Ecuador, Venezuela, Brasil, Bolivia, Peru, South Africa, Central and North Australia,

in the months of	June	May	April
	July	August	September

Flash-light table

indicating the quantity of powder to be used (in gramms) for dry-plates Scheiner 17°. Take half for 20° Scheiner, and double for 14° Scheiner.

Distance from flash to object m	Diaphragm					
	F:4	F:5.6	F:8	F:11	F:16	F:22
	F:4.5	F:6.3	F:9	F:12.5	F:18	F:25
1.00	0.15	0.30	0.60	1.2	2.5	5.0
1.50	0.22	0.44	0.90	1.8	3.5	7.0
2.00	0.30	0.60	1.2	2.5	5.0	10.0
3.00	0.44	0.90	1.8	3.5	7.0	14.0
4.00	0.75	1.5	3.0	6.0	12.0	24.0
5.00	1.0	2.0	4.0	8.0	16.0	32.0
10.00	2.5	5.0	10.0	20.0	40.0	80.0

For all kinds of photographic work
the excellent Zeiss Ikon

Roll films

Film packs