

INSTRUCTIONS

for using the ELECTROPHOT MODEL 14

The ELECTROPHOT, when pointed at the scene, gives the correct reading on the needle dial for taking still pictures (snap shots), on film with 20° Scheiner or 12 Weston rating. The figures under the needle are lens stops. To convert these figures to any type film with a different rating or to a different length of exposure or for movies, it is only necessary to refer to the figures on the revolving chart.

Example: You are using Kodak Super Sensitive Panchromatic film (rating 23° Scheiner). The needle shows f8. Then set the revolving wheel top figures (black) to read f8 at 23° and if you are using 1/25 second exposure under the 1/25 you will see the **red** figure f11. This is the lens opening to use.

Suppose the needle shows f2.8 and your largest lens opening is 5.6. Using the Super sensitive Panchromatic 23° Scheiner — set the top black figure 2.8 at 23° and read the time on the red scale required for a 5.6 opening.

In using the meter for motion pictures the numbers in white 12—16—24 on the center dial should be used. For usual cine speed, 1/32 sec., use 16 index line and use the red opening to which it lines up or if not in line, use the next larger stop.

Example: Needle reads at f5.6 with regular Panchromatic film (Scheiner 18°) set top black figure 5.6 to 18° and read under the 16 the red f. (For Keystone 16—B—A7, Stewart Warner or other cameras with small angle of open sector, use the figure 24 or 1/50 second.)

In general the Scheiner ratings between the numbers on the small dial, i. e. between 14-17—17-20, etc., can be read as the nearest number indicated. Use a film rated 18° at 17 or 22° at 23. A list of the most used films and their ratings is given on another sheet. The meter is based on the standard Scheiner rating system and comparative speeds are also shown.

It is usually desirable when pointing the meter at a scene to incline it downward slightly to avoid too much sky light.

For indoor pictures in weak daylight or artificial light a more convenient method of taking a reading is to use the **ELECTROPHOT** at the scene facing the light and read four stops to the left of needle or four shutter speeds larger and convert on revolving chart for type of film or stop used.

Manufactured by
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DETROIT **MICHIGAN**

EMULSION SPEEDS FOR PLATES AND FILMS

U.S. Scheiner Weston
Day Arti- Day- Arti-
Light ficial Light ficial

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Day Arti- Day- Arti-
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AGFA ANSCO CORP.

Cine Films (16 and 35 MM)

Fine Grain Super Pan Rev.....	23	21	24	16
Filmo Pan 8 mm.....	19	18	10	8
Finojan Negative.....	23	22	24	20
Hypan Reversible.....	22	20	20	12
Fine Grain Plenachrome Neg.....	23	18	24	8
Fine Grain Plenachrome Rev.....	20	18	12	8
Supreme Superpan.....	26	24	50	32
Keystone Pan Reversible.....	19	18	10	8
Filmo Pan Reversible.....	18	17	8	6
Ultra Speed Pan.....	29	28	100	80

Roll Film and Film Pack

Superpan (Roll and Pack).....	24	23	32	24
Super Plenachrome (Roll & Pack)	24	22	32	20
Plenachrome.....	24	21	23	16
Fine Grain Plenachrome.....	24	21	23	16
Standard.....	23	18	24	8
Finojan (35 mm.).....	24	22	32	20
Ultra Speed.....	24	27	100	64
Super Pan Press.....	29	28	100	80
F. G. Superpan Reversible.....	23	21	24	16
Super Pan Supreme.....	26	24	50	32

Cut Film

Supersensitive Panchromatic.....	24	23	32	24
Superpan Portrait.....	24	23	32	24
Isopan.....	25	24	40	32
Supersensitive Plenachrome.....	23	21	24	16
Super Plena Press.....	28	24	80	32
Portrait.....	20	17	12	6
Commercial Panchromatic.....	22	21	20	16
Commercial Ortho.....	21	19	16	10
Commercial.....	20	18	12	8
Super Pan Press.....	29	28	100	80
Commercial Anti-Halo.....	20	15	12	4
Triple-S Panchro.....	28	27	80	64

DEFENDER PHOTO SUPPLY CO.

Cut Films

Commercial.....	17	13	6	2.5
Fine Grain Pan.....	23	21	24	16
Pentagon.....	20	16	12	5
Portrait.....	18	14	8	3

Portrait

Portrait H. G. S.....	21	17	16	6
XF Ortho.....	26	23	50	24
XF Ortho Press.....	26	23	50	24
XF Pan Press.....	26	24	50	32
XF Panchro Spec.....	26	24	50	32
Tri-color.....	14	11	3	1.5
Tripack.....	14	11	3	1.5

Plates

Seed 23.....	12	8	2	0.75
Seed 26.....	18	14	8	3
Seed 27.....	19	15	10	4
Seed L Ortho.....	18	14	8	3
Seed Non Halation L Ortho.....	18	14	8	3
Seed Panchromatic.....	13	10	2.5	1.3
Seed Process.....	9	5	1	---
Standard Orthonon.....	18	14	8	3
Stanley Extra Imperial.....	18	14	8	3
Stanley.....	18	14	8	3

DUPONT FILM MFG. CO.

Cine Films

Dupac Separation Color Neg.....	21	---	16	---
Infra-D Neg. 35 mm. (no filter)	21	---	16	---
Micropan Negative.....	15	13	4	2.5

Orthochromatic Cine 35 & 16 mm.	20	16	12	5
Regular Pan. Neg. 35 & 16 mm.	22	19	20	10
Regular Pos. Cine 35 & 16 mm.	12	9	2	1
Sound Rec. Pos. 35' and 16 mm.	17	14	6	3
Sup. Pan. Neg. 35 and 16 mm.	24	21	32	16
Parpan 35 mm.	21	18	16	8
XL Pan 35 mm.	27	24	64	32

EASTMAN KODAK CO.

Cine Films

Cine Kodak 8 Pan 8 mm. Rev...	19	18	10	8
Cine Kodak Kodachrome Safety (no filter).....	18	---	8	---
Cine Kodak Kodachrome Type A Kodachrome Professional Film Type 8 high intensity tungsten without filter.....	18	21	8	16
Super X Negative.....	25	23	40	24
Super XX Reversible.....	27	25	64	40
Background X Pan Negative.....	21	19	16	10
Plus X Pan Negative.....	26	24	50	32
Super X Pan Negative, 35 mm.....	25	23	40	24
Super XX Pan Neg., 35 mm.....	29	27	100	64
Cine Neg. S. S. Panchro Safety.....	23	21	24	16
Cine Positive Safety.....	16	10	5	1.3
Cine Kodak Safety 16 mm. Rev.....	20	18	12	8
Cine Kodak Reg. Pan. 16 mm. Rev.....	21	18	16	8
Cine S. S. Pan. 16 mm. Rev.....	23	22	24	20

Negative Film for Miniature Camera

Panatomic.....	24	23	32	24
Super X Pan Negative 35 mm.....	25	23	40	24
Supersensitive Pan. 35 mm.....	23	21	24	16
Super XX.....	29	27	100	64
Plus X.....	26	24	50	32
Panatomic X.....	24	22	32	20

Aerial Photography Film

Super Sensitive Aero. Pan.....	25	24	40	32
Aero. Panatomic X.....	25	24	40	32
Special Topographical Pan.....	28	27	80	64
Super XX Aero Pan.....	31	30	150	125

Roll Film and Film Pack

Process Film Pack.....	15	9	4	1
Panatomic.....	24	23	32	24
Regular.....	23	18	24	8
Super Sensitive Pan.....	25	23	40	24
Verichrome.....	24	21	32	16
Panatomic X.....	24	22	32	20
Panchro Press Pack.....	27	25	64	40
Super XX Pan.....	29	28	100	80

Professional Films

Commercial Film.....	23	17	24	6
Commercial Ortho.....	24	19	32	10
Commercial Matte.....	23	17	24	6
Commercial Pan.....	24	21	32	16
Supersensitive Pan.....	26	25	50	40
Panchromatic Press.....	26	25	50	40
Portrait Panchro.....	26	24	50	32
Portrait, Par Speed.....	25	20	40	12
Portrait S. S. Ortho Antihalo.....	26	23	50	24
Panatomic Portrait.....	24	23	32	24
Safety Ortho Press.....	25	22	40	16
Process.....	15	9	4	1
Cut Film Regular.....	19	15	10	4
Cut Film Super Speed.....	25	27	40	16
Process Pan.....	16	13	5	2.5
Super Ortho Press (Anti-Halo).....	28	25	80	40
Super Panchro Press.....	29	28	100	80
Super XX (Anti-Halo).....	28	26	80	50

	U.S. Scheiner		Weston	
	Day Light	Arti. ficial	Day Light	Arti. ficial
Plates				
Commercial	22	18	20	8
Eastman "33"	22	16	20	5
Eastman "40"	24	18	32	8
Eastman "50"	25	22	40	20
Double Coated Ortho	22	18	20	8
Single Coated Ortho	24	20	32	12
Polychrome	24	20	32	12
Process	14	8	3	0.75
Universal	24	18	32	8
Wratten Hyper Sens. Pan.	28	27	80	64
Wratten "M" Plate	21	19	16	10
Wratten Metallographic	18	15	8	4
Wratten Process Pan.	21	19	16	10
Wratten Panchro Reg.	23	21	24	16
Ortho Press	26	23	50	24
Wratten Tri-Color Pan.	26	24	50	32

THE GEVAERT CO.

Cine Film				
Panchro Super Reversal	23	21	24	16
Panchro Fine Grain Rev.	20	18	12	8
Ortho Reversal	21	17	16	6
Panchro Special Neg.	20	17	12	6
Positive	18	---	8	---

Negative Film for Miniature Cameras

Express Superchrome, 35 mm.	22	19	20	10
Leica Panchromosa	24	22	32	20
Panchromosa Micrograin	18	15	8	4

Roll Film and Film Pack

Panchromosa	24	22	32	20
Express Superchrome	22	19	20	10

Professional Films

Commercial Ortho	18	14	8	3
Studio High Speed	22	19	20	10
Superchrome	23	21	24	16
Ultra Panchro Press	25	23	40	24
Commercial	19	15	10	4
Process	9	5	1	---
Super Ortho Press	26	22	50	20
Ultra Panchro Studio	21	19	16	10

Plates

Sensima Ortho	19	12	10	2
Super Chromosa	20	17	12	6
Super Press	24	22	32	20
Ortho Process	16	12	5	2
Studio	18	14	8	3
Ultra Panchro (Anti-Halo)	25	23	40	24

HAMMER DRY PLATE CO.

Professional Films				
Extra Fast	17	13	6	2.5
Super Ortho Press	22	18	20	8
Supersensitive Ortho	23	19	24	10

Plates

Blue Label	22	18	20	8
Medium Commercial Ortho	18	15	8	4
Lantern Slide	3	---	---	---
Medium Commercial	20	17	12	6
Ortho, Double Coated	17	13	6	2.5

	U.S. Scheiner		Weston	
	Day Light	Arti. ficial	Day Light	Arti. ficial
Ortho, Extra Fast	25	21	40	16
Ortho, Slow	15	11	4	1.5
Ortho, Special	18	14	8	3
Ortho, Special D. C.	19	15	10	4
Press	20	16	12	5
Red Label	23	19	24	10

ILFORD, LTD.

Professional Films

Commercial Ortho	17	13	6	2.5
Hypersensitive Panchromatic	26	23	50	24
Hyperchromatic	27	24	64	32
Portrait Ortho Fast	21	17	16	6
Portrait Panchromatic	24	22	32	20
Process Panchromatic	20	19	12	10

Plates

Double X Press	23	20	24	12
Hypersensitive Panchromatic	27	24	64	32
Infra-red no filter	17	---	6	---
Rapid Process	20	17	12	6
Regular Panchromatic	21	18	16	8
Soft Gradation Panchromatic	20	18	12	8

KINOLUX

Kinolux No. 1—16 mm.	17	12	6	2
Kinolux No. 2—16 mm.	20	16	12	5
Kinolux No. 3—16 mm.	25	22	40	20

MACY FILMS

Macy Special Pan. 16 mm. Rev.	17	14	6	3
Multichrome Film-pack and Rollfilm	21	17	16	6
Supersensitive Pan.	17	14	6	3

SEARS, ROEBUCK & CO.

Marvelchrome	20	17	13	6
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UNIVEX

Standard 8 mm.	17	14	6	3
Ultra Pan.	20	17	12	6

COLOR PROCESSES

AGFA ANSCO CORP.

	Scheiner	Weston
Agfa Color Plates (daylight)	14	3

DUFAY COLOR

On American (DuPont Coated) Dufay Film		
To daylight, without Filter	18	8
To photo-flood with Filter 1-A	14	3
To Mazda with Filter 1-B	12	2
With Wonderlight Dufayc Filter Flood	20	12

EASTMAN KODAK CO.

Cine Kodak Kodachrome Safety without Filter (daylight)	18	8
Cine Kodak Kodachrome Type A to Tungsten	21	16
CUT FILM—		
Kodachrome in daylight	15	4
Kodachrome Type B (Mazda 3200 K, no filter)	17	6
Kodachrome Type B (Wratten 2-A, flood or flash)	17	6
Kodachrome Type B (Wratten 85-B, daylight)	14	3

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