

135 Film Magazine

- ✓ **KODAK PLUS-X**
- ✓ **KODAK SUPER-XX**
- ✓ **KODAK PANATOMIC-X**

Load and unload your camera in subdued light, never in direct sunlight or exceptionally strong artificial light. **Warning:** Do not wind the film beyond the last exposure or it may break loose from the spool in the magazine and necessitate unloading the camera in a darkroom.

After the last picture has been made, rewind the film into the magazine and remove it from the camera.

EXPOSURE INDEXES			
	PANATOMIC-X	PLUS-X	SUPER-XX
Daylight	25	50	100
Tungsten	16	32	64

These indexes are intended for meters using ASA exposure indexes and for all Weston, G.E., and similar meters. Normally, these indexes provide a safety factor in exposure when the film is developed as recommended. The daylight exposure indexes are determined by the method specified by the American Standards Association.

EXPOSURE TABLE FOR BRIGHT SUN*				
These exposures apply when the film is processed as recommended				
Kind of Film	Brilliant ¹	Bright ²	Average ³	Shaded ⁴
PANATOMIC-X	<i>f</i> /11 & 1/100	<i>f</i> /8 & 1/100	<i>f</i> /5.6 & 1/100	<i>f</i> /4 & 1/100
PLUS-X	<i>f</i> /16 & 1/100	<i>f</i> /11 & 1/100	<i>f</i> /8 & 1/100	<i>f</i> /5.6 & 1/100
SUPER-XX	<i>f</i> /22 & 1/100	<i>f</i> /16 & 1/100	<i>f</i> /11 & 1/100	<i>f</i> /8 & 1/100

*For **HAZY SUN**, use next larger lens opening; for **CLOUDY-BRIGHT** days, use 2 openings larger; and for **CLOUDY-DULL** days, use 3 openings larger.

¹**Brilliant Subjects:** Beach, marine, and snow scenes; distant landscapes and mountains without prominent dark objects in foreground.

²**Bright Subjects:** Near-by people in marine, beach, or snow scenes; scenics with foreground objects.

³**Average Subjects:** Near-by people, gardens, houses, and scenes not in shade. Use this classification if in doubt.

⁴**Shaded Subjects:** People, gardens, and other subjects in the open shade (lighted by open sky—not under trees, porch roof, etc.).

FILTER FACTORS: If a filter is used, the normal exposure should be multiplied by the factor for that particular filter. Since lighting conditions vary, the factors shown below are only approximate.

Filter	K1	K2	G	X1	A	Filter	K1	K2	G	X1	A
Sunlight	1.5	*1.5	3	3	8	Photoflood	1.5	1.5	2	*2	4

*Correct monochromatic rendering of colored objects.

PHOTOFLOOD EXPOSURE TABLE—With Lamps in Average Reflectors						
THIS TABLE FOR SUPER-XX FILM*	Lens Opening with Shutter Speed 1/25 Second					
	<i>f</i> /11	<i>f</i> /8	<i>f</i> /5.6	<i>f</i> /4	<i>f</i> /2.8	<i>f</i> /2
	Distance in Feet from Lamps to Subjects					
1 No. 1 LAMP AND 1 No. 2 LAMP	3½	5½	8	11	16	23

*For **PLUS-X**, increase exposure 1 lens opening; for **PANATOMIC-X**, 2 lens openings.

PHOTOFLASH EXPOSURE GUIDE NUMBERS

Divide the number by the lamp-to-subject distance in feet to find the *f/* number. These numbers apply to average subjects in average rooms with light-colored walls and ceilings. In dark-colored rooms, or outdoors at night, divide the number by 2.

SHUTTER TYPE	BETWEEN-THE-LENS						FOCAL PLANE	
	SM			No. 5			No. 6	
LAMP	Open*	1/100	1/200	Open*	1/100	1/200	1/100	1/500
PANATOMIC-X	60	60	40	110	95	80	50	28
PLUS-X	85	85	70	165	140	115	80	40
SUPER-XX	125	125	100	235	195	165	110	55

*Shutter speed 1/50 second or longer, Bulb, or Time.

Caution: Since lamps may shatter when flashed, the use of a transparent protective screen over the reflector is recommended. Do not flash the lamps in an explosive atmosphere.

DEVELOPMENT: These panchromatic films are sensitive to light of all colors and must be handled and developed only in *total darkness*. To **Open Magazine**, press the sides and pull off either end; then remove the spool from the shell.

Kodak Developer D-76 is recommended for developing these films if contact prints or slight enlargements are to be made. For fine-grain results, use *Kodak Microdol Developer* or *Kodak Fine Grain Developer DK-20*. The *Kodak Day-Load Tank* provides a means of carrying out all processing operations in daylight.

Approximate Times of Development in minutes at 68° F (20° C) in a Tank

Kodak Developer	PANATOMIC-X	PLUS-X	SUPER-XX
D-76	14	16	20
Microdol	15	16	20
DK-20	14	16	23

Note: *Kodak Developer D-76* and *Kodak Microdol Developer*, in prepared powder form, are available in several package sizes.

RINSING AND FIXING: After development is completed, rinse the film thoroughly in water at 65°-70° F (18°-21° C). Then fix it for 10 to 20 minutes at 65°-70° F (18°-21° C) in a solution prepared from *Kodak Acid Fixing Powder with Hardener* or in *Kodak Fixing Bath F-5*. For a shorter fixing time, fix the film 3 to 5 minutes at 65°-70° F (18°-21° C) in a solution prepared from *Kodak Rapid Liquid Fixer (with Hardener)* or in *Kodak Rapid Fixing Bath F-7*. Agitate the film frequently while it is in the fixing bath.

WASHING AND DRYING: Wash the film for 20 to 30 minutes in running water at 65°-70° F (18°-21° C). Wipe the surfaces carefully with a *Kodak Photo Chamois* or soft sponge and hang the film in a clean, dry place until it is thoroughly dry. The tendency for the formation of drying marks can be minimized by bathing the film in a solution of *Kodak Photo-Flo* after washing and before drying.

INFORMATION: More detailed information can be obtained by consulting *Kodak Films*, a *Data Book on black-and-white materials*, or the *Kodak Reference Handbook*, both on sale at *Kodak dealers*.

FULL-COLOR PICTURES: Use *Kodachrome Film* for full-color transparencies, which can be projected on a screen or from which *Kodachrome Prints* can be made. There are two types: *Kodachrome Film Daylight Type (K135)* for pictures outdoors, and *Kodachrome Film Type A (K135A)* for pictures indoors by *Photoflood* or *Photoflash Lamps*.

EASTMAN KODAK COMPANY, Rochester 4, N.Y.