

**SUGGESTED EXPOSURES FOR KODAK FILMS**

Picture Subject		KODACHROME 64 (Daylight)* EKTACHROME-X KODACOLOR II	High Speed EKTACHROME— Normal processing	High Speed EKTACHROME—with ESP-1 Processing
			VERICHROME Pan PLUS-X Pan	TRI-X Pan
AT HOME	Home Interiors at Night—Areas with bright light Areas with average light	$\frac{1}{15}$ sec $f/2$ $\frac{1}{4}$ sec $f/2$ ↓ 2.8	$\frac{1}{30}$ sec $f/2$ $\frac{1}{8}$ sec $f/2$ ↓ 2.8	$\frac{1}{30}$ sec $f/2.8$ ↓ 4 $\frac{1}{30}$ sec $f/2$
	Candlelighted Close-ups	—	$\frac{1}{4}$ sec $f/2$ ↓ 2.8	$\frac{1}{15}$ sec $f/2$
	Indoor and Outdoor Christmas Lighting at Night, Christmas Trees	1 sec $f/4$	1 sec $f/5.6$	$\frac{1}{30}$ sec $f/2$
	Brightly Lighted Downtown Street Scenes (Wet streets add interesting reflections.)	$\frac{1}{30}$ sec $f/2$	$\frac{1}{30}$ sec $f/2.8$	$\frac{1}{60}$ sec $f/2.8$ ↓ 4
	Brightly Lighted Nightclub or Theatre Districts—Las Vegas or Times Square	$\frac{1}{30}$ sec $f/2.8$	$\frac{1}{30}$ sec $f/4$	$\frac{1}{60}$ sec $f/4$ ↓ 5.6
	Neon Signs and Other Lighted Signs	$\frac{1}{30}$ sec $f/4$	$\frac{1}{60}$ sec $f/4$	$\frac{1}{125}$ sec $f/4$ ↓ 5.6
	Store Windows	$\frac{1}{30}$ sec $f/2.8$	$\frac{1}{30}$ sec $f/4$	$\frac{1}{60}$ sec $f/4$ ↓ 5.6
OUTDOORS AT NIGHT	Floodlighted Buildings, Fountains, Monuments	4 sec $f/5.6$	1 sec $f/4$	$\frac{1}{15}$ sec $f/2$
	Skyline—Distant view of lighted buildings at night	4 sec $f/2.8$	1 sec $f/2$	1 sec $f/2.8$ ↓ 4
	Skyline—10 minutes after sunset	$\frac{1}{30}$ sec $f/4$	$\frac{1}{60}$ sec $f/4$	$\frac{1}{60}$ sec $f/5.6$ ↓ 8
	Fairs, Amusement Parks	$\frac{1}{15}$ sec $f/2$	$\frac{1}{30}$ sec $f/2$	$\frac{1}{30}$ sec $f/2.8$ ↓ 4
	Fireworks—Displays on the ground	$\frac{1}{30}$ sec $f/2.8$	$\frac{1}{30}$ sec $f/4$	$\frac{1}{60}$ sec $f/4$ ↓ 5.6
	Fireworks—Aerial displays (Keep shutter open on "BULB" or "TIME" for several bursts.)	$f/8$	$f/11$	$f/16$ ↓ 22
	Burning Buildings, Campfires, Bonfires	$\frac{1}{30}$ sec $f/2.8$	$\frac{1}{30}$ sec $f/4$	$\frac{1}{60}$ sec $f/4$ ↓ 5.6
	Night Football, Baseball, Racetrackst	$\frac{1}{30}$ sec $f/2.8$	$\frac{1}{60}$ sec $f/2.8$	$\frac{1}{125}$ sec $f/2.8$ ↓ 4
	Niagara Falls—White lights	15 sec $f/5.6$	8 sec $f/5.6$	6 sec $f/8$
	Light-colored lights	30 sec $f/5.6$	15 sec $f/5.6$	6 sec $f/5.6$
	Dark-colored lights	30 sec $f/4$	30 sec $f/5.6$	12 sec $f/5.6$

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Basketball, Hockey, Bowling	$\frac{1}{30}$ sec f/2	$\frac{1}{60}$ sec f/2	$\frac{1}{125}$ sec f/2 ↓ 2,8
Boxing, Wrestling	$\frac{1}{60}$ sec f/2	$\frac{1}{125}$ sec f/2	$\frac{1}{250}$ sec f/2 ↓ 2,8
Stage Shows— Average Bright	$\frac{1}{30}$ sec f/2 $\frac{1}{60}$ sec f/2.8	$\frac{1}{30}$ sec f/2.8 $\frac{1}{60}$ sec f/4	$\frac{1}{60}$ sec f/2.8 ↓ 4 $\frac{1}{125}$ sec f/4 ↓ 5,6
Circuses— Floodlighted acts	$\frac{1}{30}$ sec f/2	$\frac{1}{30}$ sec f/2.8	$\frac{1}{60}$ sec f/2.8 ↓ 4
Spotlighted acts (carbon-arc)	$\frac{1}{60}$ sec f/2.8	$\frac{1}{125}$ sec f/2.8	$\frac{1}{250}$ sec f/2.8 ↓ 4
Ice Shows— Floodlighted acts	$\frac{1}{30}$ sec f/2.8	$\frac{1}{60}$ sec f/2.8	$\frac{1}{125}$ sec f/2.8 ↓ 4
Spotlighted acts (carbon-arc)	$\frac{1}{60}$ sec f/2.8	$\frac{1}{125}$ sec f/2.8	$\frac{1}{250}$ sec f/2.8 ↓ 4
Interiors with Bright Fluorescent Light	$\frac{1}{30}$ sec f/2 ↓ 2,8	$\frac{1}{30}$ sec f/2.8 ↓ 4	$\frac{1}{60}$ sec f/4
School—Stage and auditorium	—	$\frac{1}{15}$ sec f/2	$\frac{1}{30}$ sec f/2 ↓ 2,8
Swimming Pool—Tung- sten light indoors (above water)	$\frac{1}{15}$ sec f/2	$\frac{1}{30}$ sec f/2	$\frac{1}{60}$ sec f/2 ↓ 2,8
Church Interiors— Tungsten light	1 sec f/5.6	$\frac{1}{15}$ sec f/2	$\frac{1}{30}$ sec f/2 ↓ 2,8
Stained-Glass Windows, Daytime—Photo- graphed from inside	Use 3 stops more exposure than for the outdoor lighting conditions.		
Glassware in Windows, Daytime—Photo- graphed from inside	Use 1 stop more exposure than for the outdoor lighting conditions.		

INDOORS IN PUBLIC PLACES

- For color pictures, use tungsten film. You can use daylight film, but your pictures will look yellow-red.
- For color pictures, use daylight film, or tungsten film with No. 85B filter and 1 stop more exposure.
- For color pictures, use either daylight or tungsten film.

\*With KODACHROME 25 Film (Daylight), increase exposure by 1 stop.

†When lighting is provided by mercury-vapor lamps, use daylight film.

NOTE: Symbol ↓ indicates lens opening halfway between two f-numbers.

➔ Use tripod or other support for shutter speeds slower than  $\frac{1}{30}$  second.

## EXISTING-LIGHT PICTURE-TAKING TIPS

- Focus carefully, because depth of field is shallow when you use large lens openings.
- Hold your camera steady and carefully *squeeze* the shutter release to take the picture.
- Use a camera support for exposure times longer than  $\frac{1}{30}$  second.
- Take along a flashlight so that you can see to make your camera settings in dim light.
- The exposures suggested in the tables are approximate. For especially important pictures, bracket your exposure by taking one picture at 1 stop more than the suggested exposure, one picture at the suggested exposure, and another at 1 stop less exposure.

### Exposures for Your Own Specific Subjects

Subject	Film	Exposure