

# Kodak

## BLACK AND WHITE FILM EXPOSURE GUIDE

### **Light Subjects:** *close aperture 1 stop.*

Scenes in which the main area of interest is dominated by light objects or surfaces, e.g. distant scenery, and nearby people in marine, beach, and snow scenes.



### **Average Subjects:**

Scenes in which the main area of interest contains about equal amounts of light and dark objects or surfaces — gardens, houses and nearby people in the more common surroundings. Use this class if in doubt.



### **Dark Subjects:** *open aperture 1 stop.*

Scenes in which the main area of interest is dominated by dark objects or surfaces, e.g. people in dark clothing, dark flowers, foliage, animals and buildings. Usually subjects must be close to the camera to qualify in this class.



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**Exposures in this guide are for average subjects, with front lighting.**

**Side lighting**—*open aperture half a stop.*

**Back lighting**—*open aperture one stop.*

**In winter and within two hours after sunrise or before sunset, open aperture one stop.**

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# KODAK 'PANATOMIC-X' FILM

40 ASA

27°BS

17 DIN

AVERAGE SUBJECTS set shutter to 1/100 or 1/125 second

<b>BRIGHT or HAZY SUN</b> Shadows cast	<b>CLOUDY BRIGHT</b> No shadows	<b>HEAVY OVERCAST</b>	<b>OPEN SHADE</b>
f/11 E.V. 14	f/5.6 E.V. 12	f/4 E.V. 11	f/4 E.V. 11

**FILL-IN FLASH**  
PFI No. 1  
PFIB No. 1 BS



7 to 12 feet



1/25 or 1/30 second  
'X' synchronization  
f/22

**CLEAR FLASHBULBS AS SOLE LIGHT-SOURCE**  
Flash-to-subject distance for simple cameras

Flashbulb	2" Reflector		3" Reflector or larger		
	AGI	No. 1 or PFI	No. 5 or PF5	PF60	
Distance	5-14 ft.	4-11 ft.	5 1/2-17 ft.	10-18 ft.	

GUIDE NUMBERS with shutter set to 1/25 or 1/30 second

Flashbulbs				Photoflood
2" Reflector	3" Reflector or larger			Two No. 1 Photofloods in 'Kodaflector' Reflectors
AGI	No. 1 or PFI ★	No. 5 or PF5	PF60	
100	80	125	220	10

★With 2" reflector, give 1/2 stop more exposure

# KODAK 'VERICHROME' PAN FILM

125 ASA

32°BS

22 DIN

AVERAGE SUBJECTS set shutter to 1/100 or 1/125 second

<b>BRIGHT or HAZY SUN</b> Shadows cast	<b>CLOUDY BRIGHT</b> No shadows	<b>HEAVY OVERCAST</b>	<b>OPEN SHADE</b>
f/16 E.V. 15	f/8 E.V. 13	f/5.6 E.V. 12	f/5.6 E.V. 12

**FILL-IN FLASH**  
PFI No. 1  
PFIB No. 1 BS



7 to 12 feet



1/50 or 1/60 second  
'X' synchronization  
f/22

**CLEAR FLASHBULBS AS SOLE LIGHT-SOURCE**  
Flash-to-subject distance for simple cameras

Flashbulb	2" Reflector		3" Reflector or larger		
	AGI	No. 1 or PFI	No. 5 or PF5	PF60	
Distance	7-20 ft.	6-18 ft.	9-25 ft.	17-45 ft.	

GUIDE NUMBERS with shutter set to 1/25 or 1/30 second

Flashbulbs				Photoflood
2" Reflector	3" Reflector or larger			Two No. 1 Photofloods in 'Kodaflector' Reflectors
AGI	No. 1 or PFI ★	No. 5 or PF5	PF60	
180	140	220	400	18

★With 2" reflector, give 1/2 stop more exposure

# KODAK 'PLUS-X' FILM

160 ASA

33°BS

23 DIN

AVERAGE SUBJECTS set shutter to 1/100 or 1/125 second

<b>BRIGHT or HAZY SUN</b> Shadows cast	<b>CLOUDY BRIGHT</b> No shadows	<b>HEAVY OVERCAST</b>	<b>OPEN SHADE</b>
f/16 E.V. 15	f/8 E.V. 13	f/5.6 E.V. 12	f/5.6 E.V. 12

**FILL-IN FLASH**  
PFI No. 1  
PFIB No. 1 BS



7 to 12 feet



1/50 or 1/60 second  
'X' synchronization  
f/22

**CLEAR FLASHBULBS AS SOLE LIGHT-SOURCE**  
Flash-to-subject distance for simple cameras

Flashbulb	2" Reflector		3" Reflector or larger		
	AGI	No. 1 or PFI	No. 5 or PF5	PF60	
Distance	8-22 ft.	7-20 ft.	10-28 ft.	20-50 ft.	

GUIDE NUMBERS with shutter set to 1/25 or 1/30 second

Flashbulbs				Photoflood
2" Reflector	3" Reflector or larger			Two No. 1 Photofloods in 'Kodaflector' Reflectors
AGI	No. 1 or PFI ★	No. 5 or PF5	PF60	
200	160	250	450	20

★With 2" reflector, give 1/2 stop more exposure

# KODAK 'TRI-X' FILM

400 ASA

37°BS

27 DIN

AVERAGE SUBJECTS set shutter to 1/200 or 1/250 second



**BRIGHT OR HAZY SUN**  
Shadows cast

f/22  
E.V. 17

**CLOUDY BRIGHT**  
No shadows

f/11  
E.V. 15

**HEAVY OVERCAST**

f/8  
E.V. 14

**OPEN SHADE**

f/8  
E.V. 14

**FILL-IN FLASH**  
PFI No. 1  
PFIB No. 1 BS



12 to 20 feet



1/200 or 1/250 second  
'M' synchronization  
f/16

**CLEAR FLASHBULBS AS SOLE LIGHT-SOURCE**

Flash-to-subject distance at f/16

Shutter set to 1/200 or 1/250 second 'M' synchronization

Flashbulb	2" Reflector	3" Reflector or larger		
	AGI	No. 1 or PFI	No. 5 or PF5	PF60
Distance	8-22 ft.	7-20 ft.	10-25 ft.	18-50 ft.

**GUIDE NUMBERS** with shutter set to 1/25 or 1/30 second

2" Reflector	Flashbulbs			Photoflood
	3" Reflector or larger			
AGI	No. 1 or PFI ★	No. 5 or PF5	PF60	Two No. 1 Photofloods in 'Kodaflector' Reflectors
320	250	400	720	32

★With 2" reflector, give 1/2 stop more exposure

# KODAK 'ROYAL-X' PAN FILM

**EXPOSURE METER SETTINGS** not including any safety factor

With normal development, 1250 ASA 42°BS 32 DIN  
With extended development speed is doubled.

With normal development, the meter settings given are suitable for most applications and make the fullest use of the definition and speed-graininess characteristics of the film. The resulting exposures will be found adequate for good negatives of subjects having average brightness scale. With extended development the resulting exposures give satisfactory negatives with low-contrast subjects.

**Exposure Guide:** Exposures depend on development to be given: see the film instructions for details of development.

Average subjects and normal development: yellow panel.  
Low-contrast subjects and extended development: pink panel.

Average interiors	1/25	f/3.5	1/25	f/4.5
Indoor arenas, theatres	1/100	f/4.5	1/200	f/4.5
Interiors of stores	1/100	f/5.6	1/100	f/8
Heavy overcast daylight	1/100	f/16	1/100	f/22
Flash: Shutter at 1/400 or 1/500 second 'M' synchronization				
No. 5, PFS	f/4.5	100 ft.	f/5.6	75 ft.
Electronic Flash: 'X' synchronization				
Low-power flash unit (25 joules)	f/6.3	50 ft.	f/6.3	75 ft.
Large portable unit (100 joules)	f/6.3	100 ft.	f/8	125 ft.

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