

# KODAK VERICOLOR II Professional Film 4107, Type S

## ENGLISH

- Color negative film designed for exposure times of 1/10 second or shorter.
- For exposure by electronic flash, daylight, or blue flash.
- Gives excellent quality in color reproduction without supplementary masking.
- Features dimensionally stable 7-mil ESTAR Thick Base.

**Darkroom Handling:** Total darkness required.

### EXPOSURE

ISO 125/22°

ASA 125/22 DIN

#### Speed:

Light Source	KODAK WRATTEN Filter	Speed		
		ISO	ASA	DIN
Daylight	None	125/22°	125	22
Photolamp (3400 K)	80B	40/17°	40	17
Tungsten (3200 K)	80A	32/16°	32	16

Exposure times longer than 1/10 second are not recommended. For long exposures, use KODAK VERICOLOR II Professional Film 4108, Type L.

**Note:** ISO (International Standards Organization) film speed numbers are given in anticipation of future worldwide use.

**Inclusion of Gray Card in Scene:** To aid in determining exposures required in making prints from negatives, use the gray (18% reflectance) side of the KODAK Neutral Test Card. Instructions are packaged with the card.

**Flash Pictures:** To get the lens opening for electronic flash or flashbulbs, divide the guide number by the distance from flash to subject.

#### Electronic Flash Guide Numbers:

Output of Unit (BCPS or ECPS)	350	500	700	1000	1400	2000	2800	4000	5600	8000
Guide Number for Distances in Feet	45	55	65	80	95	110	130	160	190	220
Guide Number for Distances in Metres	14	17	20	24	29	33	40	50	60	65

**Guide Numbers for Blue Flashbulbs:** Select the guide number on the flashbulb package for the daylight film speeds listed above and for the type of reflector, shutter, and synchronization on the camera you are using.

**Caution:** Since bulbs may shatter when flashed, the use of a flashguard over the reflector is recommended. Do not flash bulbs in an explosive atmosphere.

**Daylight Exposure Table:** Lens openings with shutter at 1/250 second.

*For the hours from 2 hours after sunrise to 2 hours before sunset.*

Bright or Hazy Sun on Light Sand or Snow	Bright or Hazy Sun (Distinct Shadows)	Weak, Hazy Sun (Soft Shadows)	Cloudy Bright (No Shadows)	Heavy Overcast	Open Shade*
<i>f/16</i>	<i>f/11†</i>	<i>f/8</i>	<i>f/5.6</i>	<i>f/4</i>	<i>f/4</i>

\*Subject shaded from the sun but lighted by a large area of sky.

†For backlit close-up subjects, use *f/5.6*.

**Reciprocity Effect Adjustments:** No lens aperture, exposure time, or development adjustments are required for VERICOLOR II Professional Film 4107, Type S, when indicated exposure time is between 1/10 and 1/50,000 second. Other exposure times are not recommended.

**PROCESSING** • Use KODAK FLEXICOLOR® Chemicals for Process C-41 or C-41V to process this film. This film can be processed in the (1) KODAK VERSAMAT Color Processor, Model 145, when modified for Process C-41V; (2) in the KODAK VISCOUNT Processor for KODACOLOR Film, Models 1 and 2, equipped with the KODAK VISCOUNT Speed-Up Assembly, Model 1-2; and (3) in other commercial equipment using Process C-41 or C-41V. This film is not processed by Kodak.

Recommendations are available from Eastman Kodak Company, Product Support Publications, Rochester, New York 14650.

**Note:** This film is *not* designed for processing in Process C-22 Chemicals.

**JUDGING NEGATIVE EXPOSURE** • Processed negatives will have an overall orange cast, a slightly different color than Vericolor and Ektacolor negatives. Exposure can be judged by placing negatives over an illuminator. Viewing the negative through a green filter, such as a KODAK WRATTEN Filter No. 61, makes it appear much like a black-and-white negative and helps in determining whether adequate detail has been obtained.

A more precise check on exposure level can be made with a KODAK Color Densitometer or other suitable electronic densitometer equipped with a filter such as a KODAK WRATTEN Filter No. 92 or the red filter of the KODAK Densitometer Filter Set MM (Certified). Depending somewhat on the nature of the subject and the use of a recommended light source for exposure, a normally exposed color negative read through the **red filter** should have the following approximate densities:

The KODAK Neutral Test Card (gray side) receiving the same illumination as the subject.....	0.65 to 0.85
The lightest step (darkest in negative) of a KODAK Paper Gray Scale receiving the same illumination as the subject.....	1.15 to 1.35
The highest diffuse density in a normally lighted forehead	
light complexion.....	0.95 to 1.25
dark complexion.....	0.65 to 1.05

Because of the extreme range in normal skin color, the red density values given for a normally lighted forehead should be used only as a guide. For greatest likelihood of normal exposure, the use of a KODAK Neutral Test Card (gray side) is recommended.

**PRINTING NEGATIVES** • Color prints can be made by direct contact-printing or enlargement onto KODAK EKTACOLOR Papers or by the dye transfer process.

Color transparencies can be made by exposing directly onto KODAK VERICOLOR Print Film 4111 (ESTAR Thick Base) and KODAK VERICOLOR Slide Film 5072.

Black-and-white prints can be made on KODAK PANALURE Paper, KODAK PANALURE Portrait Paper, or KODAK PANALURE II RC Paper.

**STORAGE AND HANDLING** • Keep unexposed film stored at 13°C (55°F) or lower in the original sealed package. To avoid moisture condensation on film which has been refrigerated, allow film to warm to room temperature before opening package. Always store film (exposed or unexposed) in a cool, dry place. Process exposed film as soon as possible after exposure. Always protect negatives from strong light and store in a cool, dry, and dark place.

A temperature of 21°C (70°F) with a relative humidity not exceeding 40 percent is considered satisfactory for properly processed VERICOLOR II Film negatives which are intended for reprinting. Satisfactory prints can be obtained from negatives stored over a period of time if the negatives are properly protected from moisture and stored at lower temperatures. The useful life of negatives can be significantly extended if properly stored at -18 to -23°C (0 to -10°F). KODAK Storage Envelopes for processed film are available in 4 x 5- and 8 x 10-inch sizes. For more information about storage of negatives for longer periods, see Kodak Publication No. E-30, *Storage and Care of KODAK Color Films*, available from Dept. 412-L.

The Kodak materials described in this publication for use with KODAK VERICOLOR II Professional Film 4107, Type S, are available from those dealers normally supplying Kodak materials. Equivalent materials may be used if desired.

**Read This Notice:** This film will be replaced if defective in manufacture, labeling, or packaging. Except for such replacement, the sale or any subsequent handling of this film is without warranty or liability even though defect, damage, or loss is caused by negligence or other fault. Since color dyes may in time change, this film will not be replaced for, or otherwise warranted against, any change in color.

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