Kodak

KODAK VISION2 250D Color Negative Film 5205 / 7205

Give your story more detail—in any light.

KODAK VISION2 250D Color Negative Film 5205 / 7205 is an advanced, medium-speed film that delivers superior imaging in natural daylight, artificial daylight, and a variety of mixed lighting situations. Expect beautiful fleshtones, accurate color reproduction, and-thanks to its wider latitude-increased detail in shadow and highlight areas. Add seamless intercutting with other KODAK VISION2 Films and you have a versatile addition to your storytelling toolkit.

The VISION2 Film family is the first line of products created specifically for both film and digital postproduction. What's more, all VISION2 Films provide excellent tone scale and flesh-to-neutral reproduction. With superior shadow and highlight detail and very fine grain. VISION2 Films also maintain neutrality through the full range of exposure. So you can convey exactly the look you intended all the way from capture to post.

BASE

KODAK VISION2 250D Film 5205 / 7205 has an acetate safety base with rem-jet backing.

DARKROOM RECOMMENDATIONS

Do not use a safelight. Handle unprocessed film in total darkness.

STORAGE

Store unexposed film at 13°C (55°F) or lower. For extended storage, store at -18°C (0°F) or lower. Process exposed film promptly. Store processed film according to the recommendations in ANSI/PIMA IT9.11-1998: for medium-term storage (minimum of ten years), store at 10°C (50°F) or lower at a relative humidity of 20 to 30 percent; for extended-term storage (for preservation of material having permanent value), store at 2°C (35°F) or lower at a relative humidity of 20 to 30 percent. For active use, store at 25°C (77°F) or lower, at a relative humidity of 50 ± 5 percent. This relates to optimized film handling rather than preservation; static, dust-attraction and curl-related problems are generally minimized at the higher relative humidity. After usage, the film should be returned to the appropriate medium- or long-term storage conditions as soon as possible.

For more information about medium- and long-term storage, see ANSI/PIMA IT9.11-1998, SMPTE RP131-2002, and KODAK Publications No. H-1, *KODAK Motion Picture Film* available online at http:// www.kodak.com/US/en/motion/support/h1, and No. H-23, *The Book of Film Care*.

EXPOSURE INDEXES

Daylight (5500 K)—250 Tungsten (3200 K)—64 (with KODAK WRATTEN Gelatin Filter No. 80A)

Use these indexes with incident- or reflected-light exposure meters and cameras marked for ISO or ASA speeds or exposure indexes. These indexes apply for meter readings of average subjects made from the camera position or for readings made from a gray card of 18-percent reflectance held close to and in front of the subject. For unusually lightor dark-colored subjects, decrease or increase the exposure indicated by the meter accordingly.

COLOR BALANCE

These films are balanced for exposure with daylight illumination (5500 K). For other light sources, use the correction filters in the table below.

Light Source	KODAK Filters on Camera ¹	Exposure Index
Daylight (5500 K)	None	250
Tungsten (3000 K)	WRATTEN Gelatin No. 80A	64
Tungsten (3200 K)	WRATTEN Gelatin No. 80A	64
Tungsten photoflood(3400 K)	WRATTEN Gelatin No. 80A	64
White-Flame Arcs	Color Compensating Filter CC20Y + CC10C	160
Yellow-Flame Arcs	Color Compensating Filter CC30C + CC10M	160
OPTIMA 32	WRATTEN Gelatin No. 80A	64
VITALITE	None	250
Fluorescent, Cool White ²	Color Compensating Filter CC20M	200
Fluorescent, Deluxe Cool White ²	WRATTEN Gelatin No. 82C	160
Metal Halide	None	250

¹ These are approximate corrections only. Make final corrections during printing.

² These are starting-point recommendations for trial exposures. If the kind of lamp is unknown, a KODAK Color Compensating Filter CC20M + CC10B can be used with an exposure index (EI) of 125.

Note: Consult the manufacturer of high-intensity ultraviolet lamps for safety information on ultraviolet radiation and ozone generation.

EXPOSURE TABLE - DAYLIGHT ILLUMINATION

At 24 frames per second (fps), 170-degree shutter opening:

Lens Aperture	<i>f</i> /1.4	f/2	f/2.8	f/4	f/5.6	f/8	<i>f</i> /11	<i>f</i> /16
Footcandles Required	10	20	40	80	160	320	640	1250

Use this table for average subjects that contain a combination of light, medium, and dark colors. When a subject includes only pastels, use at least 1/2 stop less exposure; dark colors require 1/2 stop more exposure.

Lighting Contrast -

The recommended ratio of key-light-plus-fill-light to fill light is 2:1 or 3:1. However, you may use 4:1 or greater when a particular look is desired.

RECIPROCITY CHARACTERISTICS

You do not need to make any filter corrections or exposure adjustments for exposure times from 1/1000 to 1/10 second. If your exposure is in the 1-second range, it is recommended that you increase your exposure ²/₃ stop and use a KODAK Color Compensating Filter CC10R. If your exposure is in the 10 second range, it is recommended that you increase your exposure by a stop and use a KODAK Color Compensating Filter CC10R.

PROCESSING

Process ECN-2

Most commercial motion-picture laboratories provide a processing service for these films. See KODAK Publication No. H-24.07, *Processing KODAK Color Negative Motion Picture Films, Module 7* available online at http:// www.kodak.com/US/plugins/acrobat/en/motion/support/ processing/h247/h2407.pdf, for more information on the solution formulas and the procedure for machine processing these films. There are also pre-packaged kits available for preparing the processing solutions. For more information on the KODAK ECN-2 Kit Chemicals, check Kodak's Motion Picture Films price catalog.

IDENTIFICATION

After processing, the product code numbers 5205 (35 mm and 65 mm) or 7205 (16 mm), emulsion and roll number identification, KEYKODE numbers, and internal product symbol (EQ) are visible along the length of the film.

LABORATORY AIM DENSITIES (LAD)

To maintain optimum quality and consistency in the final prints, the laboratory must carefully control the color timing, printing, and duplicating procedures. To aid in color timing and curve placement, negative originals should be timed relative to Laboratory Aim Density (LAD) Control Film supplied by Eastman Kodak Company.¹ The LAD Control Film provides both objective sensitometric control and subjective verification of the duplicating procedures use by the laboratory.

In the LAD Control Method,² the electronic color analyzer used for color timing is set-up with the LAD Control Film to produce a gray video display of the LAD patch, corresponding to 1.0 neutral density (gray) on the print. The negative printing original is then scene-to-scene timed. There are specific LAD values for each type of print or duplicating film that the original can be printed on. For print films, the LAD patch is printed to a neutral gray of 1.0 visual density. For duplicating films, the specified aims are at the center of the usable straight-line portion of the sensitometric curve of the film.

^{1.}Direct any inquiries to one of the regional sales offices.

^{2.}Use of the LAD Control Method is described in the paper, "A Simplified Motion-Picture Laboratory Control Method for Improved Color Duplication," by John P. Pytlak and Alfred W. Fleischer in the October 1976 SMPTE Journal.

FILM-TO-VIDEO TRANSFERS

When you transfer the film directly to video, you can set up the telecine using the negative Telecine Analysis Film (TAF) supplied by Eastman Kodak Company. The TAF consists of a neutral density scale and an eight-bar color test pattern with a LAD gray surround.

The TAF gray scale provides the telecine operator (colorist) with an effective way to adjust subcarrier balance and to center the telecine controls before timing and transferring a film. The TAF color bars provide the utility of electronic color bars, even though they do not precisely match the electronically generated color bars. Using the TAF will help obtain optimum quality and consistency in the film-to-video transfer. For more information regarding TAF, see KODAK Publication No. H-9, *TAF User's Guide*.

IMAGE STRUCTURE

The modulation-transfer curves, and the diffuse rms granularity data were generated from samples of 5205 Film exposed with daylight illumination and processed as recommended in Process ECN-2 chemicals. For more information on image-structure characteristics, see KODAK Publication No.H-1, *KODAK Motion Picture Film*.

MTF:

Refer to curve.

The "perceived" sharpness of any film depends on various components of the motion picture production system. The camera and projector lenses and film printers, among other factors, all play a role. But the specific sharpness of a film can be measured and charted in the Modulation Transfer Curve.

rms Granularity:

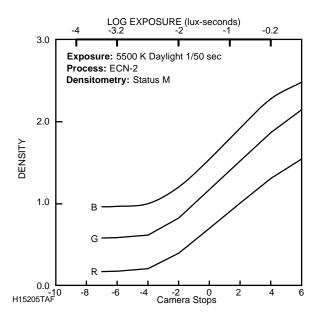
Refer to curve.

Read with a microdensitometer, (red, green, blue) using a 48-micrometer aperture.

The "perception" of the graininess of any film is highly dependent on scene content, complexity, color, and density. Other factors, such as film age, processing, exposure conditions, and telecine transfer may also have significant effects.

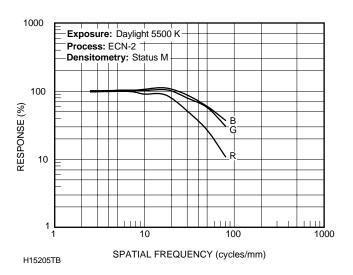
CURVES

Sensitometric Curves

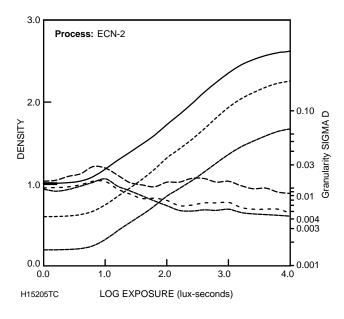


The curves describe this film's response to red, green, and blue light. Sensitometric curves determine the change in density on the film for a given change in log exposure.³

Modulation-Transfer Function Curves



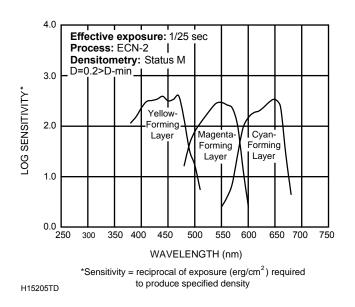
This graph shows a measure of the visual sharpness of this film. The x-axis, "Spatial Frequency," refers to the number of sine waves per millimeter that can be resolved. The y-axis, "Response," corresponds to film sharpness. The longer and flatter the line, the more sine waves per millimeter that can be resolved with a high degree of sharpness—and, the sharper the film.



To find the rms Granularity value for a given density, find the density on the left vertical scale and follow horizontally to the characteristic curve and then go vertically (up or down) to the granularity curve. At that point, follow horizontally to the Granularity Sigma D scale on the right. Read the number and multiply by 1000 for the rms value.

Note: This curve represents granularity based on modified measuring techniques.³

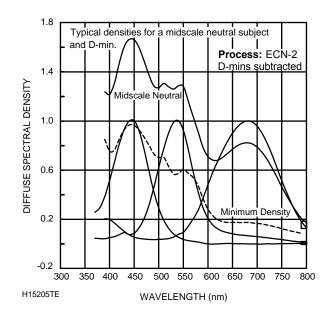
Spectral Sensitivity Curves



These curves depict the sensitivity of this film to the spectrum of light. They are useful for determining,

modifying, and optimizing exposure for blue- and green-screen special-effects work.

Spectral Dye Density Curves



These curves depict the spectral absorptions of the dyes formed when the film is processed. They are useful for adjusting or optimizing any device that scans or prints the film.

Note: Cyan, Magenta, and Yellow Dye Curves are peak-normalized.

NOTICE: The sensitometric curves and data in this publication represent product tested under the conditions of exposure and processing specified. They are representative of production coatings, and therefore do not apply directly to a particular box or roll of photographic material. They do not represent standards or specifications that must be met by Eastman Kodak Company. The company reserves the right to change and improve product characteristics at any time.

^{3.}NOTE: Sensitometric and Diffuse RMS Granularity curves are produced on different equipment. A slight variation in curve shape may be noticed.

STANDARD PRODUCTS AVAILABLE

Format and Specification No.	Length Meters (Feet)	Core	Description	Perforation/Pitch Metric (Imperial)
35 mm SP417	30 (100)	S-83 100-ft. spool		BH-4740 (BH-1866)
35 mm SP718	61 (200)	U		BH-4740 (BH-1866)
35 mm SP718	122 (400)	U		BH-4740 (BH-1866)
35 mm SP718	305 (1000)	U		BH-4740 (BH-1866)
16 mm SP449	30 (100)	R-90 100-ft. spool		2R-7605 (2R-2994)
16 mm SP451	122 (400)	Т		2R-7605 (2R-2994)
16 mm SP455	30 (100)	R-90 100-ft. spool	Winding B	1R-7605 (1R-2994)
16 mm SP445*	61 (200)	A	Winding A	1R-7605 (1R-2994)
16 mm SP457	122 (400)	Т	Winding B	1R-7605 (1R-2994)
16 mm SP458	244 (800)	Z	Winding B	1R-7605 (1R-2994)
65 mm SP332	305 (1000)	Р	Emulsion In	KS-4740 (KS-1866)

*for AATON A-MINIMA Cameras

MORE INFORMATION

Outside the United States and Canada, please contact your Kodak representative.

You can also visit our web site at **www.kodak.com/go/motion** for further information. You may want to bookmark our location so you can find us easily the next time.

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Films	Cinematographer's Field Guide KODAK Publication No. H-2
Image Structure	KODAK Motion Picture Film KODAK Publication No. H-1
Specification Numbers	Cinematographer's Field Guide KODAK Publication No. H-2
Storage	KODAK Motion Picture Film KODAK Publication No. H-1
	The Book of Film Care KODAK Publication No. H-23
LAD	LAD—Laboratory Aim Density KODAK Publication No. H-61
Transfer	KODAK Telecine Analysis Film User's Guide KODAK Publication No. H-822
	KODAK Telecine Exposure Calibration Film User's Guide KODAK Publication No. H-807

Kodak Locations

FOR DIRECT ORDERING IN THE UNITED STATES AND CANADA: 1-800-621-FILM

HOLLYWOOD, CALIFORNIA

6700 Santa Monica Boulevard Los Angeles, California 90038-1203 Orders: 1-800-621-FILM (3456) Information: 323-464-6131

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360 West 31st Street New York, New York 10001-2727 Orders: 1-800-621-FILM (3456) Information: 212-631-3418

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Kodak Canada Inc. 3500 Eglinton Avenue West Toronto, Ontario Canada M6M 1V3 Phone: 416-761-4922 Orders: 1-800-621-FILM (3456) Fax Orders: 1-866-211-6311

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Kodak Canada, Inc. 4 Place du Commerce, Suite 100 lle des Soeurs Verdun, Quebec Canada H3E 1J4 Information: 514-761-7001 Fax: 514-768-1563 Orders: 1-800-621-FILM (3456) Fax Orders: 1-866-211-6311

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EUROPEAN, AFRICAN, AND ME REGION

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