

KODAK

PROFESSIONAL FILMS



Definitive ways to improve your image.

Color Negative Films

KODAK VERICOLOR III Professional Film, Type S

KODAK VERICOLOR III Professional Film, Type S, is a new color negative camera film that is improved in speed, sharpness, and grain compared with KODAK VERICOLOR II Professional Film, Type S. The new film has an increased exposure latitude and an improved tonal reproduction that yields more neutral whites.

The film is designed for exposure by electronic flash, daylight, or blue flash at times ranging from 1/10th second to 1/10,000th second. The film is available in 120, 220, 135, 35mm, 46mm, 70mm and 9cm rolls and in cut-sheet sizes.

This is an excellent film for portraiture and wedding photography. The film's moderate contrast and color saturation provide a capability for excellent skin-tone and color reproduction with good exposure latitude.

Color couplers in the film provide dye masking, making excellent-quality color reproduction possible without supplementary masking. The film is not subject to leuco-cyan dye formation from improper bleaching. The processed negatives also have improved dark storage keeping stability at room temperatures of 24°C (75°F).

The film should be processed in Process C-41 or C-41V.

KODAK VERICOLOR II Films

KODAK VERICOLOR II Films, including KODAK VERICOLOR II Commercial Films, are fine-grain color negative films which exhibit excellent image sharpness and color saturation. KODAK Commercial Type S Films are designed for exposure times of 1/10th second or shorter, using daylight or electronic flash.

KODAK VERICOLOR II Commercial Films display a slightly higher visual contrast than professional type S films. Professional type L films have similar contrast to commercial films but are balanced for exposure times of 1/50th second to 60 seconds with tungsten illumination or, using

appropriate filters, to photolamp or daylight illumination.

These films can be used to produce prints on KODAK EKTACOLOR 78 paper or alternatively, high quality color transparencies can be made using KODAK VERICOLOR Slide Film 5072 or KODAK VERICOLOR Print Film 4111 (ESTAR Thick Base) or KODAK DURATRANS Display Film 4022.

Storage: Store in a refrigerator at 13°C (55°F) or lower in original sealed packing. Allow the film to warm to room temperature before opening the package. This prevents condensation forming on the film.

Processing: All films designated C-41 can be processed using the same chemicals and processing times. KODAK VERICOLOR Print and Slide Films may need a slight adjustment to the developer replenishment procedure.

For further information on KODAK VERICOLOR Print and Slide Films refer to KODAK Publication E-24. Using KODAK VERICOLOR Films in the laboratory.

KODAK VERICOLOR Internegative Film 6011 KODAK VERICOLOR Internegative Film 4112 (ESTAR Thick Base)

These color negative films are for producing internegatives from color transparencies using tungsten illumination (3200K). They can be used with exposure times ranging from 1/1000th to 30 seconds, which allow the exposure to be made in optical printers, slide duplicating equipment, enlargers and cameras. The resulting negatives can be used for making prints on KODAK EKTACOLOR 78 paper or transparencies either on KODAK VERICOLOR Print Film 4111, KODAK VERICOLOR Slide Film 5072 or KODAK DURATRANS Display Film 4022. They may also be used as camera films for flat copy conversion.

Availability: Internegative 6011 - 35mm x 24.4m. Internegative 4112 - sheet film.

Safelight: None. To be handled in total darkness.

Processing: KODAK FLEXICOLOR Chemicals (Process C-41).

KODAK VERICOLOR Slide Film 5072 KODAK VERICOLOR Print Film 4111 (ESTAR Thick Base)

These color print films produce high-quality transparencies from color negatives or color internegatives. KODAK VERICOLOR Slide Film 5072 is excellent for making transparencies for reproduction. KODAK VERICOLOR Print Film 4111 is coated on a dimensionally stable ESTAR Thick Base. It is particularly suitable for large display transparencies or for reproduction. It can be retouched on both sides.

The films are balanced for tungsten illumination (3200K).
Availability: VERICOLOR 5072 Film - 35mm x 30.5m. VERICOLOR 4111 Film - sheet, or 40 and 50 in wide rolls.

Safelight: Can be handled for no longer than 30 seconds under a KODAK Safelight Filter No. 10 (dark amber).

Processing: Use KODAK FLEXICOLOR Chemicals (Process C-41).

KODAK DURATRANS Display Film 4022

This film offers excellent contrast for transmission viewing and high quality color reproduction for making display transparencies from color negatives or internegatives. The white pigmented layer sandwiched between the emulsion and base acts as the diffuser, thus eliminating the need for an additional opal diffuser when viewing. It is this layer that gives the film a translucent appearance. KODAK DURATRANS Display Film 4022 is ideally suited for large transparency displays where durability and good dye stability are important.

Availability: Sheet, or 50cm, 75cm, 100cm and 125cm wide rolls.

Safelight: KODAK Safelight Filter, No. 13.

Processing: KODAK EKTAPRINT 2 Chemicals.

To consistently get the best possible pictures, the photographer must know the specific characteristics of the films he or she uses.

This brochure provides detailed practical information on the Kodak materials designed for still photography.



Color Reversal Films

KODAK EKTACHROME Films (Process E-6)

KODAK EKTACHROME films produce high-quality, fine-grain color transparencies suitable for reproduction or display purposes. These films exhibit accurate color rendering and high color saturation.

KODAK EKTACHROME Professional Films (Process E-6)

EKTACHROME 64 Professional Film (Daylight)

EKTACHROME 50 Professional Film (Tungsten)

EKTACHROME 200 Professional Film (Daylight)

EKTACHROME 160 Professional Film (Tungsten)

EKTACHROME Slide Duplicating Film 5071 (Process E-6)

EKTACHROME Duplicating Film 6121 (Process E-6)

EKTACHROME 64 Professional Film 6117 (Daylight)

EKTACHROME Professional Film 6118 (Tungsten)

EKTACHROME 200 Professional Film 6176 (Daylight)

The range of films includes camera films for daylight and tungsten lighting balance in 120 roll, 35mm cassettes, 30.5m rolls and sheet film as well as duplicating films in 35mm and sheet form.

Storage: Professional and amateur films Process E-6 have similar keeping characteristics but are manufactured to different specifications dependent on their applications. The professional films are for immediate use and should be processed promptly for optimum results.

	Meter Settings ISO	Color Balanced for	Availability
EKTACHROME 64 Professional Film (Daylight)	64/19°	Daylight	EPR 120, EPR 220 (5), EPR 135-36, EPR 404, 35mm x 30.5m, EPR 425, 35mm x 30.5m, EPR 475, 35mm x 30.5m, EPY 404, 35mm x 30.5m, EPY 120, EPY 135-36
EKTACHROME 50 Professional Film (Tungsten)	50/18°	Tungsten	EPD 120, EPD 135-36, EPD 404, 35mm x 30.5m 5036
EKTACHROME 200 Professional Film (Daylight)	200/24°	Daylight	EPT 120, EPT 135-36, EPT 404, 35mm x 30.5m 5037
EKTACHROME 160 Professional Film (Tungsten)	160/23°	Tungsten	Spec 663, 35mm x 30.5m Spec 446, 46mm x 30.5m
EKTACHROME Slide Duplicating Film 5071 (Process E-6)	See instructions	Tungsten	Sheet
EKTACHROME Duplicating Film 6121 (Process E-6)		Tungsten	Sheet
EKTACHROME 64 Professional Film 6117 (Daylight)	64/19°	Daylight	Sheet
EKTACHROME Professional Film 6118 (Tungsten)	50/18°	Tungsten	Sheet
EKTACHROME 200 Professional Film 6176 (Daylight)	200/24°	Daylight	Sheet

Specialist Color Reversal Films

KODAK EKTACHROME Slide Duplicating Film 5071 (Process E-6)

This film produces high quality duplicate color transparencies suitable for audiovisual applications. The 35mm size can be used for specialist audiovisual applications such as multi-screen presentations. Both films are balanced for tungsten illumination (3200K).

Availability: 35mm x 30.5m Spec. 663.

Safelight: None. To be handled in total darkness.

Processing: KODAK EKTACHROME Film Processing Chemicals, Process E-6.

KODAK EKTACHROME Duplicating Film 6121 (Process E-6)

This film exhibits the same physical characteristics as KODAK EKTACHROME Slide Duplicating Film 5071 but is available only in sheet sizes. It is particularly suitable for making duplicate transparencies for reproduction. The support side of the film has a surface intended to facilitate retouching. This film is balanced for tungsten illumination, but pulsed-xenon light-sources can be used with appropriate filtration.

Availability: Sheet film.
Safelight: None. To be handled in total darkness.

Processing: Process E-6.

KODAK EKTACHROME Infrared Film

This color reversal film is designed for daylight exposure through a deep yellow filter, e.g. KODAK WRATTEN Gelatine Filter No. 12. It has three emulsion layers, one sensitive to green light, one to red light and the other to infrared light. The film gives a modified color rendering in which red

To keep unused films in good condition store at a temperature of 13°C (55°F) or lower.

Processing: All the films, including amateur KODAK EKTACHROME Roll, Cartridge and 35mm Films, can be processed using the same chemicals (Process E-6) and processing times.

Processing professional films are intended for viewing with 5000K light-sources, but the balance is also satisfactory for projection by tungsten light.

represents the infra-red. It gives slides for projection.

Availability: 35mm cassette.
Meter Settings: Please refer to instruction leaflet packed with product.
Safelight: None. To be handled in total darkness.

Processing: KODAK PROCESS E-4 Chemicals.

KODAK EKTACHROME 14 Film

This is a versatile color film designed specifically for use on overhead projectors. It can be used either on an enlarger baseboard for copying transparencies or in a repro camera for copying opaque originals. Any information such as maps, diagrams, photographs, visuals etc. can be copied and be shown as a visual aid, in normal daylight conditions.

Availability: A4 (21.0cm x 29.7cm)
Safelight: None. To be handled in total darkness.

Processing: KODAK EKTA-PRINT R14 Chemicals.

Black and White Films

KODAK PANATOMIC-X Film KODAK PANATOMIC-X Professional Film

Slow speed extremely fine grain panchromatic films.

Applications: Due to the extremely fine grain and excellent resolving power of these films, a high degree of enlargement can be obtained without loss of detail or sharpness. In average light conditions, the slow speed of these films will necessitate the use of a tripod unless electronic flash is used. The characteristics of these films make them ideal products for high quality architectural and studio photography where large format cameras would be impractical.

Meter Setting: ISO 32/16°.
Processing: For details of processing please refer to table.

KODAK PLUS-X Pan Film KODAK PLUS-X Pan Professional Film KODAK PLUS-X Pan Professional Film 4147 (ESTAR Thick Base)

Medium speed, fine grain panchromatic films.

Applications: These films have very wide exposure and development latitude, and high definition and fine grain characteristics. Particularly good highlight and mid-tone separation makes these films especially suitable for portraiture and general studio photography, and where moderate degrees of enlargement are required. With the exception of the 35mm size, these films can be retouched on the emulsion side, and on both sides of the sheet film.

Meter Setting: ISO 125/22°.

KODAK TRI-X Pan Film KODAK TRI-X Pan Professional Film KODAK TRI-X Pan Professional Film 4164 (ESTAR Thick Base)

High speed, fine grain panchromatic films.

Applications: These films can be used for a wide variety of subjects both on location and in the studio.

They have very good exposure latitude and display remarkably fine grain for their speed. This overall versatility has made these films the widely accepted standard for amateur and professional use. The high speed of KODAK TRI-X Pan Films has obvious applications in low light, sport and press release work. If higher speeds are required these films are suitable for 'push processing'.

KODAK TRI-X Pan Professional Films have retouchable surfaces on both sides.

Meter Settings: TRI-X Pan Film - ISO 400/27°.

TRI-X Pan Professional Film - ISO 320/26°.

TRI-X Pan Professional Film 4164 - ISO 320/26°.

KODAK ROYAL-X Pan Film KODAK ROYAL-X Pan Film 4166 (ESTAR Thick Base)

Extremely high speed medium-grain panchromatic films.

Applications: The high speed of these films has obvious advantages where photography at low light levels is necessary or desirable. The users of large format cameras will find this high speed especially useful when extensive camera movements are being used and a small aperture is required to maintain depth of field. This would be the case particularly in architectural photography. Also useful for theatrical and sports photography when fast shutter speeds are required. In flat lighting good negatives can be obtained with meter settings up to ISO 2000/34° with extended development.

Meter Setting: ISO 1250/32°.

Specialist Black and White Films

KODAK Recording Film 2475

This very high-speed panchromatic film has extended red sensitivity for 'available light' photography. The film can be used for floodlit sports, oscilloscope, photorecording and security surveillance where shadow detail and grain are not so important. It may be rated at ISO 4000/37°.

KODAK High Speed Infrared Film KODAK High Speed Infrared Film 4143 (ESTAR Thick Base)

These are high-speed, moderately high-contrast, black-and-white films. They can be used for scientific, biological, industrial and forgery detection photography. They are also suitable for creating special effects in commercial, architectural and landscape photography.

KODAK Technical Pan Film 2415 (ESTAR-AH Base)

A slow speed panchromatic film of very fine-grain providing optimum quality. It has excellent highlight and mid-tone separation, and is intended for photomicrography and copying or recording events of low contrast where the moderate to high contrast of the film and its high resolution are of value.

EASTMAN Fine Grain Release Positive Film 5302

This is for making positive transparencies (film strips) from black-and-white 35mm film continuous-tone or line negatives. It is a low speed, blue-sensitive film, coated on a clear safety base, without tint or backing, capable of giving moderately high contrast if required. It is recommended for use with black-and-white paper safelighting.

KODAK Professional Copy Film

This orthochromatic copy film, exhibiting moderately coarse grain, provides increased highlight contrast needed in continuous-tone copy negatives and in photogramere reproduction. The contrast can be controlled by exposure and development to give a fairly accurate reproduction of most black and white originals or to maintain clear backgrounds in copies of combined line and continuous-tone originals.

KODAK Holographic Film

This film is made specially for holographic work with most types of lasers. It is supplied on ESTAR Base with dyed-anti-halation gel backing, extremely fine grain, with a resolving power of 2000 lines/mm.

KODAK Professional Direct Duplication Film SO-015 (ESTAR Thick Base)

This is an orthochromatic, medium contrast, direct reversal film, for one step duplication of continuous-tone black-and-white negative or positive originals with conventional processing.

KODAK Black-and-White Films	Base	Meter Settings ISO	Spectral Sensitivity	KODAK Safelight Filters	KODAK Developers	Availability
PANATOMIC-X		32/16 ⁰	pan	Total darkness	D-76, HC-110	35 mm cassette and long rolls, 120
PANATOMIC-X professional		32/16 ⁰	pan	Total darkness	Microdol-X	35 mm cassette and long rolls, 120
PLUS-X pan		125/22 ⁰	pan	Total darkness	D-76, HC-110	35 mm cassette and long rolls, 120
PLUS-X professional		125/22 ⁰	pan	Total darkness	Microdol-X	35 mm cassette and long rolls, 120
TRI-X pan		400/27 ⁰	pan	Total darkness	D-76, HC-110	120, 35 mm cassette
TRI-X pan professional		320/26 ⁰	pan	Total darkness	Microdol-X	35 mm long rolls, 70 mm rolls 120, 220
ROYAL-X pan	acetate	1250/32 ⁰	pan	Total darkness	DK-50, HC-110	120 sheet
ROYAL-X pan 4166	ESTAR Thick	1250/32 ⁰	pan	Total darkness		
TRI-X pan professional 4164	ESTAR Thick	320/26 ⁰	pan	Total darkness	D-76, Microdol-X DK-50	sheet
PLUS-X pan professional 4147	ESTAR Thick	125/22 ⁰	pan	Total darkness	D-76, Microdol-X DK-50	sheet
Recording 2475	ESTAR-AH	4000/37 ⁰	pan	Total darkness	DK-50, HC-110 D-19	35 mm cassette
High Speed Infrared	acetate	Depends on filtration see instructions	infrared	Total darkness	D-76, HC-110	35 mm cassette
High Speed Infrared 4143	ESTAR Thick		infrared	Total darkness	D-19, Microdol-X	sheet
Technical pan film 2415	ESTAR-AH	See instructions	pan	Total darkness	D-19, HC-110	35 mm cassette
EASTMAN fine grain Release Positive film 5302	acetate	Depends on use see instructions	blue	No. OA	HC-110	35 mm long rolls
Professional Direct Duplicating SO-015	ESTAR Thick	See instructions	ortho	No.1A	D-163, DPC, DK-50	sheet
Professional copy film	ESTAR Thick	12/12 Tungsten 25/15 Pulsed Xenon and White Flame	ortho	No. 2	HC-110 DK-50	sheet
Holographic film	ESTAR Thick	Depends on use	-	Total darkness	D-19	sheet



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