

KODAK PROFESSIONAL Day/Night Digital Display Material

—the difference is day and night—



—NOTICE—

Discontinuance of KODAK PROFESSIONAL Day/Night Digital Display Material

This material has been discontinued and replaced by KODAK PROFESSIONAL ENDURA Day/Night Display Material. The replacement material offers an improved D-max, D-min and neutral scale, reduced text fringing, and the additional benefits associated with KODAK PROFESSIONAL ENDURA Media Imaging Emulsions.

KODAK PROFESSIONAL Day/Night Digital Display Material is a translucent silver-halide color material designed for making display prints that can be viewed with both transmissive illumination, where backlighting will attract added attention, and with reflected illumination without backlights.

This product is ideal for applications requiring the diversity of frontlit or backlit lighting, such as point-of-purchase advertising, retail signage, fast-food menus, directories in airports, sports arenas, museums, public buildings, bus and train stations, display conditions where the front light is intense, or where backlighting will attract added attention.

The 6.8-mil base features Kodak's Modular Imaging Support Technology, a patented multi-layer support that includes ESTAR Base.

KODAK PROFESSIONAL Day/Night Digital Display Material is specifically designed for use in laser film and paper recorders. Process it in KODAK EKTACOLOR Chemicals for Process RA-4, using a standard 45-second development time.

FEATURES

- New day/night appearance
- Standard 45-second development time
- One material for many applications
- Wider color gamut
- Silver halide emulsion
- Existing calibration
- Laminated structure

BENEFITS

- Displays that work around the clock
- Excellent alternative to electrostatic imaging and silk-screen printing
- Increased productivity
- Same process requirements as papers
- Similar effect under different lighting options—frontlit, backlit, or both front- and backlit
- Non-stop display power
- Accurate, consistent reproduction of colors and differentiation between similar colors
- Excellent photographic color reproduction
- Easy adaptability to current printing equipment
- Light weight; lower shipping costs
- Balanced stiffness

SIZES AVAILABLE

This material is available in wide rolls.

Sizes and catalog (CAT) numbers may differ from country to country. See your dealer who supplies KODAK PROFESSIONAL Products.

In. x ft (cm x m)	Spec	CAT no.
50 x 100 (127 x 30.48)	901*	812 0636

* Spec 901: unperforated, emulsion in, no leader or trailer, no edge markings.

STORAGE AND HANDLING

Store unexposed materials at 13°C (55°F) or lower in the original sealed package. High temperatures or high humidity may produce unwanted quality changes.

To avoid moisture condensation on material that has been refrigerated, allow it to warm up to room temperature before opening the package. For best results, remove the material from cold storage the day before you use it, or allow the material to warm up for the appropriate time from the following table.

Warm-Up Time (Hours) to Reach Room Temperature of 70°F (21°C)			
Size	From a Storage Temperature of		
	-18°C (0°F)	2°C (35°F)	13°C (55°F)
50-inch x 100-foot roll	12 hours	10 hours	7 hours

DARKROOM RECOMMENDATIONS

Handle these materials in total darkness. Be sure that your printing and processing darkrooms are lighttight. Carefully control stray light within your printing equipment.

Note: Using a safelight *will* affect your results. These materials are much faster than traditional materials. They are very sensitive to safelights; sensitometric shifts can occur before you observe any changes in D-min.

EXPOSURE

Exposing Equipment

Expose these materials in various types of digital enlargers and printers, such as (but not limited to)—

- DURST Lambda 130 Laser Imagers
- Cymbolic Sciences International LIGHTJET Series or Digital Recorders

Because there are numerous manufacturers and models of digital writers, we cannot provide starting-point exposure calibration aims for all equipment. We recommend that you test the materials and calibrate your printer to achieve optimum results.

Note: This material *is not* designed for optical printing. It *may* be suitable for some applications; however, it will not print at the same speed or color balance as materials designed for optical printing.

Equipment Calibration

For optimum results, follow your equipment manufacturer's recommendations for calibrating your printing equipment.

This material must be exposed in transmission space. You must also make sure that your densitometer is set to read the calibration strip in transmission space.

For best results, color manage images with the profiles located on our website at www.kodak.com/go/daynight.

Calibrating the DURST Laser Imager

For DURST Lambda 130 Laser Imagers, basic calibration starting values follow. The values are based on readings from an X-RITE DTP-36 Densitometer.

DURST Lambda 130 Laser Imager

D-max	Basic Calibration (Starting Values)
R = 290 G = 290 B = 290	Y = 74.77 M = 47.05 C = 0.0 D = 99.79

IMPORTANT:

1. Using higher D-max values than those listed above may result in:
 - overexposure
 - small text closing up; unsharp text
 - oversaturated colors in step 21 (e.g., red becomes orange, etc.)
 - insufficient laser power for exposure to start
2. When using the above starting values for the basic calibration, load the paper as "New Paper Type," and do not copy an already calibrated channel.
3. Your Process RA-4 must be to aim and reach a density of 2.10 in each color on D-max of your process control strip; otherwise you may have problems reaching D-max. Also, you may experience a yellow halo around black text and you will not get a pure white.

Calibrating the LIGHTJET 5000 Printer

Targets for the Cymbolic Sciences International LIGHTJET 5000 Printer can be found at www.cymbolic.com.

Select **Service/Support**

Select **FTP site**

Select **LightJet 5000 and 430 materials files** shortcut

Select **LightJet 430 & 5000**

Select **LightJet-Fusion**

Select **LightJet5000**

Select **Intel**

To download an executable that when run will install the files in the correct place on the LightJet 5000 system, scroll down and select the aims you need.

LATENT-IMAGE KEEPING

For best results, process material on the same day you expose it. (If latent-image shifts occur, minimize them by keeping the interval between exposure and processing as consistent as possible.)

PROCESSING

Use KODAK EKTACOLOR Chemicals for Process RA-4 in continuous or roller-transport processors (non-belted). Your processor must be capable of handling the 8-mil polyester base. Use the same machine settings that you currently use for traditional print materials (you may need to raise the dryer temperature).

For more information, see KODAK Publication No. Z-130, *Using KODAK EKTACOLOR Chemicals* on our website at www.kodak.com/go/photochemicals.

VIEWING

Evaluate prints under lights of the same color quality and brightness that you will use to view the final prints. A good average condition is a light source with a color temperature of 5000 K $\pm$ 1000, a Color Rendering Index of 85 to 100, and an illuminance of at least 50 footcandles (538 lux).

Fluorescent lamps such as cool white deluxe (made by several manufacturers) meet these conditions.

You can also use a mixture of incandescent and fluorescent lamps. For each pair of 40-watt cool white deluxe fluorescent lamps, use a 75-watt frosted, tungsten bulb.

Viewing conditions should meet ANSI Standard PH2.30-1989.

POST-PROCESS TREATMENTS

Spotting and Retouching

Retouch or spot this material with the same methods used for KODAK EKTACOLOR Papers. The dye stability of this material will not be affected if the instructions given in KODAK Publication E-70, "Retouching Prints on KODAK EKTACOLOR and EKTACHROME Papers," are followed.

Laminating Prints

You can laminate prints on KODAK PROFESSIONAL Day/Night Digital Display Material. Laminate both sides of identification cards to protect against moisture.

Notice: As part of their local fire codes, many municipalities have adopted the National Fire Protection Association (NFPA) 701-1999 *Standard Methods of Fire Tests for Flame Propagation of Textiles and Films*, which applies to plastic films used for decorative or other purposes inside buildings. To comply with this standard, you must protect displays using any of these plastic films.

We strongly recommend that you take one or both of the following measures to protect all large displays, especially if the material is displayed in a public area:

- Fully enclose the materials in a light box or an illuminator.
- Frame and laminate the materials to a non-combustible mounting board, wall, glass, or 1/4-inch or thicker polycarbonate, e.g., LEXAN, support.

Other standards covering the burning characteristics of these products may apply to markets outside the U.S. Check with the appropriate local agency. Do not use these materials as backdrop displays in theaters.

For more information, see CIS-37, *Combustion of KODAK Films, Resin-Coated Photographic Papers, and Print and Display Materials*.

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MORE INFORMATION

Kodak has many publications to assist you with information on Kodak products, equipment, and materials.

The following publications are available from dealers who sell Kodak products, or you can contact Kodak in your country for more information.

E-30	<i>Storage and Care of KODAK Photographic Materials—Before and After Processing</i>
E-70	<i>Retouching Prints on KODAK EKTACOLOR and EKTACHROME Papers</i>
E-71	<i>Retouching Color Negatives</i>
E-176	<i>Post-Processing Treatment of Color Prints—Effects on Image Stability</i>
J-39	<i>Tray, Drum, and Rotary-Tube Processing with KODAK EKTACOLOR RA Chemicals</i>
K-4	<i>How Safe is Your Safelight?</i>
Z-130	<i>Using KODAK EKTACOLOR RA Chemicals</i>

For the latest version of technical support publications for KODAK PROFESSIONAL Products, visit Kodak on-line at:
<http://www.kodak.com/go/professional>

If you have questions about KODAK PROFESSIONAL Products, call Kodak.

In the U.S.A.:

1-800-242-2424, Ext. 19, Monday–Friday
9 a.m.–7 p.m. (Eastern time)

In Canada:

1-800-465-6325, Monday–Friday
8 a.m.–5 p.m. (Eastern time)

Note: The Kodak materials described in this publication for use with KODAK PROFESSIONAL Day/Night Digital Display Material are available from dealers who supply KODAK PROFESSIONAL Products. You can use other materials, but you may not obtain similar results.



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