

# KODAK Systems Contrast Analysis Service

Kodak

TECHNICAL DATA / REFERENCE

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## INTRODUCTION

### Purpose

The purpose of the KODAK Systems Contrast Analysis Service is to allow an individual lab to compare the print-through contrast of a direct print to the print-through contrast of a release print produced from a duplicate negative.

Four worksheets have been included in order to capture pertinent data concerning the printers used to prepare the intermediate elements and final prints. These data will be used as diagnostic tools during our analysis.

### Report

A written report will be provided within five working days after the processed samples are received. The report will include a sensitometric comparison of the direct and release prints, as originated from KODAK VISION2 500T Color Negative Film 5218. The report will also include sensitometric process control curves of the individual lab against our in-house Kodak laboratory, for both the interpositive and duplicate negative processing events. These comparisons will be made on KODAK VISION Color Intermediate Film / 5242. Recommendations will be made for possible followup effort if needed.

### Materials Provided

#### 1. Processed Film

The **Systems Contrast Test Target** consists of a processed LAD patch (normal exposure), and processed sensitometric strips (step wedges) on KODAK VISION2 500T Color Negative Film 5218. These processed test strips were pre-assembled using tape splices.

#### 2. Exposed / Unprocessed Film (Process Monitors)

**5242 Interpositive Process Monitors** (one 3-foot strip)—This monitor is to be processed at the time the duplicate negative is processed.

**5242 Dupe Negative Process Monitors** (one 3-foot strip)—This monitor is to be processed at the time the interpositive is processed.

## Procedure

1. Please prepare all printing elements and final prints using the production printers normally used for making interpositives (IP's), duplicate negatives (DN's) and release prints. Please ensure that you use your standard set ups when producing these IP and DN elements.
2. Prepare an interpositive of the original using 5242 intermediate stock, printing the LAD patch to read 1.15R, 1.60G and 1.70B (+/-0.10), using Status M densitometry.
  - **Process one 5242 process monitor when processing the interpositive.**
  - **Label the process monitor "Interpositive" or "IP."**
  - Complete the IP worksheet for the final set up.
3. Prepare a duplicate negative from the interpositive generated in Step 2, printing the LAD patch to a Status M density of 1.00R, 1.45G and 1.55B (+/-0.10).
  - **Process one 5242 process monitor when processing the duplicate negative.**
  - **Label the process monitor "Duplicate Negative" or "DN."**
  - **Label the duplicate negative near the step wedge to help identify the release print from the direct print.**
  - Complete the DN worksheet for the final set up.
4. Prepare a check/answer print from the duplicate negative generated in Step 3, printing to a Status A density of 1.09R, 1.06G and 1.03B (+/-0.07). After the final print is made, make a direct print of the system contrast test target printing the LAD patch to read 1.09R, 1.06G and 1.03B (+/- 0.07), using Status A densitometry.
5. Process the direct print and release print consecutively, using the same developing machine.
6. Please break down and identify each sample. The samples can be returned in the film can supplied in the kit.
7. Please identify and return all processed samples to the address provided in the kit.

# KODAK Systems Contrast Analysis Service

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## Bill Of Materials

- One systems contrast test target
- Three 5242 sensitometric exposures in 35mm film tubs
- One pre-addressed, pre-paid DHL airway bill and envelope.

## Return Shipment Instructions

1. Collect the printer worksheet information and the Systems Contrast Test Target and test samples.
2. Place the **systems contrast test target**, a **test sample return can**, and the completed worksheets into the air express shipping envelope and seal the envelope.
3. Complete the **shipper address** information on the airway bill and fasten the airway bill to the shipping envelope.
4. Customers outside the United States may be required to complete a commercial invoice to return the samples to Eastman Kodak Company. The test samples can be identified as:
  - "Motion picture test film, exposed and processed." Declared value=\$10.00 USD
  - "Motion picture test target, exposed and processed." Declared value=\$15.00 USD
5. Please forward the air express airbill number to your local sales engineer or account manager and Eastman Kodak Company will track the package. The KODAK Systems Contrast Evaluation will be returned to you within five working days after we receive the samples.

# Kodak

# Interpositive Contact Printer Worksheet

Date: \_\_\_\_\_

Laboratory: \_\_\_\_\_

Laboratory City: \_\_\_\_\_

Contact Name: \_\_\_\_\_

## PRINTER

Printer Mfr: \_\_\_\_\_

Type: \_\_\_\_\_

Printer ID #: \_\_\_\_\_

Wetgate Used: \_\_\_\_\_ Lamp: \_\_\_\_\_ Watts: \_\_\_\_\_

Printer Speed: \_\_\_\_\_

Heat Absorbing Glass Type: \_\_\_\_\_

Lamp Settings: Volts: \_\_\_\_\_ Amps: \_\_\_\_\_

## FILTERS

UV Filter: 2E  2B  Other: \_\_\_\_\_

Location of UV Filter: Main Beam  Blue Beam  Other: \_\_\_\_\_

N.D. Filters: R \_\_\_\_\_ G \_\_\_\_\_ B \_\_\_\_\_ Main Beam \_\_\_\_\_

Other Filters: \_\_\_\_\_

**TRIMS:** R \_\_\_\_\_ G \_\_\_\_\_ B \_\_\_\_\_ **TAPES:** R \_\_\_\_\_ G \_\_\_\_\_ B \_\_\_\_\_

Status M Density of LAD of the Original: R \_\_\_\_\_ G \_\_\_\_\_ B \_\_\_\_\_

Status M Density of LAD of the IP: R \_\_\_\_\_ G \_\_\_\_\_ B \_\_\_\_\_

## FILM TYPE:

Product Code: \_\_\_\_\_ Emulsion No.: \_\_\_\_\_

Additional Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# Duplicate Negative Contact Printer Worksheet

Date: \_\_\_\_\_

Laboratory: \_\_\_\_\_

Laboratory City: \_\_\_\_\_

Contact Name: \_\_\_\_\_

## PRINTER

Printer Mfr: \_\_\_\_\_

Type: \_\_\_\_\_

Printer ID # \_\_\_\_\_

Wetgate Used: \_\_\_\_\_ Lamp: \_\_\_\_\_ Watts: \_\_\_\_\_

Printer Speed: \_\_\_\_\_

Heat Absorbing Glass Type: \_\_\_\_\_

Lamp Settings: Volts: \_\_\_\_\_ Amps: \_\_\_\_\_

## FILTERS

UV Filter: 2E  2B  Other: \_\_\_\_\_

Location of UV Filter: Main Beam  Blue Beam  Other: \_\_\_\_\_

N.D. Filters: R \_\_\_\_\_ G \_\_\_\_\_ B \_\_\_\_\_ Main Beam \_\_\_\_\_

Other Filters: \_\_\_\_\_

**TRIMS:** R \_\_\_\_\_ G \_\_\_\_\_ B \_\_\_\_\_ **TAPES:** R \_\_\_\_\_ G \_\_\_\_\_ B \_\_\_\_\_

Status M Density of LAD of the DN: R \_\_\_\_\_ G \_\_\_\_\_ B \_\_\_\_\_

## FILM TYPE:

Product Code: \_\_\_\_\_ Emulsion No.: \_\_\_\_\_

Additional Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# Direct Print Contact Printer Worksheet

Date: \_\_\_\_\_

Laboratory: \_\_\_\_\_

Laboratory City: \_\_\_\_\_

Contact Name: \_\_\_\_\_

## PRINTER

Printer Mfr: \_\_\_\_\_

Type: \_\_\_\_\_

Printer ID # \_\_\_\_\_

Wetgate Used: \_\_\_\_\_ Lamp: \_\_\_\_\_ Watts: \_\_\_\_\_

Printer Speed: \_\_\_\_\_

Heat Absorbing Glass Type: \_\_\_\_\_

Lamp Settings: Volts: \_\_\_\_\_ Amps: \_\_\_\_\_

## FILTERS

UV Filter: 2E  2B  Other: \_\_\_\_\_

Location of UV Filter: Main Beam  Blue Beam  Other: \_\_\_\_\_

N.D. Filters: R \_\_\_\_\_ G \_\_\_\_\_ B \_\_\_\_\_ Main Beam \_\_\_\_\_

Other Filters: \_\_\_\_\_

**TRIMS:** R \_\_\_\_\_ G \_\_\_\_\_ B \_\_\_\_\_ **TAPES:** R \_\_\_\_\_ G \_\_\_\_\_ B \_\_\_\_\_

Status M Density of LAD of the Original: R \_\_\_\_\_ G \_\_\_\_\_ B \_\_\_\_\_

Status A Density of the Print: R \_\_\_\_\_ G \_\_\_\_\_ B \_\_\_\_\_

## FILM TYPE:

Product Code: \_\_\_\_\_ Emulsion No.: \_\_\_\_\_

Additional Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# Release Print Contact Printer Worksheet

Date: \_\_\_\_\_

Laboratory: \_\_\_\_\_

Laboratory City: \_\_\_\_\_

Contact Name: \_\_\_\_\_

## PRINTER

Printer Mfr: \_\_\_\_\_

Type: \_\_\_\_\_

Printer ID #: \_\_\_\_\_

Wetgate Used: \_\_\_\_\_ Lamp: \_\_\_\_\_ Watts: \_\_\_\_\_

Printer Speed: \_\_\_\_\_

Heat Absorbing Glass Type: \_\_\_\_\_

Lamp Settings: Volts: \_\_\_\_\_ Amps: \_\_\_\_\_

## FILTERS

UV Filter: 2E  2B  Other: \_\_\_\_\_

Location of UV Filter: Main Beam  Blue Beam  Other: \_\_\_\_\_

N.D. Filters: R \_\_\_\_\_ G \_\_\_\_\_ B \_\_\_\_\_ Main Beam \_\_\_\_\_

Other Filters: \_\_\_\_\_

**TRIMS:** R \_\_\_\_\_ G \_\_\_\_\_ B \_\_\_\_\_ **TAPES:** R \_\_\_\_\_ G \_\_\_\_\_ B \_\_\_\_\_

Status M Density of LAD of the Original: R \_\_\_\_\_ G \_\_\_\_\_ B \_\_\_\_\_

Status A Density of the Print: R \_\_\_\_\_ G \_\_\_\_\_ B \_\_\_\_\_

## FILM TYPE:

Product Code: \_\_\_\_\_ Emulsion No.: \_\_\_\_\_

Additional Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_