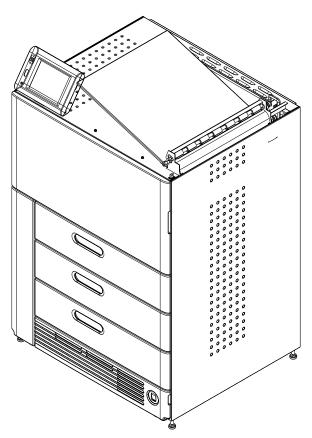
# Kodak DryView 6800 Laser Imager



**User's Guide** 

8F2927



Eastman Kodak Company 343 State Street Rochester, New York, 14650

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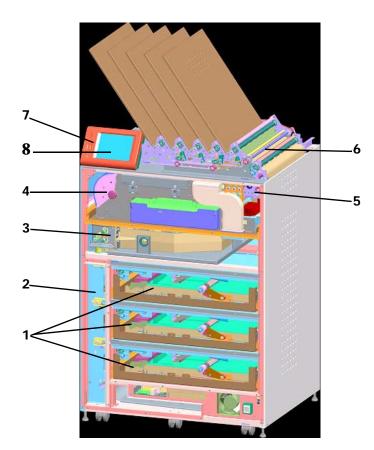
Glossary

# 1 Overview

# 6800 Laser Imager

The *Kodak DryView* 6800 Laser Imager is a continuous-tone laser imager with an internal photothermographic film processor. Heat, rather than photo chemicals, is used to develop the film. The Laser Imager prints images on *Kodak DryView* Laser Imaging Film which is packed in 125-sheet cartridges. You can load three cartridges into the Laser Imager simultaneously.

# **System Components**



- 1. Film drawers
- 2. Film registration
- 3. Film imaging
- 4. Film processor

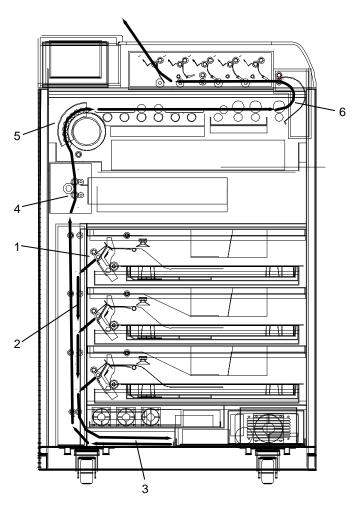
- 5. Densitometer
- 6. Film sorter
- 7. Local panel
- 8. Touch screen

- 1 **Film drawers.** Your Imager may be configured for one, two, or three film drawers. Each film drawer can hold any of six different sizes of *DryView* Laser Imaging Film. You can select the film cartridge in any drawer for printing.
- 2 **Film registration**. The film registration orients and centers the film while moving the film from the film drawers to the imaging portion of the Imager.
- 3 **Film imaging**. The optics module scans the image onto the film while the film is moved through the exposure transport.
- 4 **Film processor**. The film processor uses heat to develop the image exposed onto the film by the laser in the optics module.
- 5 **Densitometer**. The densitometer receives the film after it passes through the processor and performs a density check to confirm image quality.
- 6 **Film sorter**. Your Imager may be configured without a sorter. The film sorter receives the processed film and transports the film to the selected film bin on top of the Laser Imager. The first bin holds 125 sheets of film. Each of the other four bins holds 30 sheets of film.
- 7 Local panel. The local panel contains the power button used to turn power ON/OFF for the Imager during normal operations. It also contains the touch screen.
- **Touch screen**. The touch screen is your interface to the Laser Imager. The screen accepts your commands and gives you status information about Imager functions.

# **How the Laser Imager Works**

When the Laser Imager receives a print request, it determines the requested film size then selects the appropriate film cartridge.

Each time the Imager receives a print request, the following print sequence occurs.



#### **Print Sequence**

- 1. Suction cups in the pickup area lift a single sheet of film out of the supply cartridge and feed the film into the transport rollers.
- 2. The transport rollers move the film down into the registration transport area, where film registration takes place.

- 3. The film registration transport then moves the film into the exposure transport.
- 4. As the film moves through the exposure transport, the optics module scans the image onto the film, then moves the film into the film processor.
- 5. As the film passes over the processor drum, the heat generated by the drum develops the film.
- 6. The film transport rollers move the exposed film through the densitometer to the sorter and out to one of the bins.

# Film Throughput

Prints up to 160 films per hour.

# **Specifications**

See the Site Readiness for the *Kodak DryView* 6800 Laser Image, 8F2885.

# Agency Compliance

See the *Kodak DryView* 6800 Laser Imager Safety Manual, 8F2823.

#### **User Guide Conventions**

The following special messages emphasize information or indicate potential risks to personnel or equipment.

NOTE: Notes provide additional information, such as expanded explanations, hints, or reminders.

**IMPORTANT:** Important notes highlight critical policy information that affects how you use this guide and this product.



#### **CAUTION:**

Cautions point out procedures that you must follow precisely to avoid damage to the system or any of its components, loss of data, or corruption of files in software applications.

DANGER: DANGER IDENTIFIES PROCEDURES THAT YOU MUST FOLLOW PRECISELY TO AVOID INJURY TO YOURSELF OR OTHERS.



#### LASER WARNING:

Laser warnings warn personnel that access to laser radiation is possible and all personnel must avoid direct exposure to the beam.

# 2 Using and Maintaining the Imager

# **Operator Control of the Imager**

During normal operation, the 6800 Laser Imager receives and automatically prints images sent by modalities over a network. Very little operator control is required. The main responsibilities of the operator are:

- turning Imager power ON and OFE
- · loading film cartridges.
- taking recommended actions when preventive maintenance (PM) is indicated on the touch screen.
- monitoring and controlling some Imager functions using the touch screen.

# **Turning Imager Power ON and OFF**



There is a power switch and a power button on the 6800 Laser Imager. The switch should only be used the first time the Imager is powered ON or when an immediate shutdown is required. For normal operations, use the power button.

#### Power ON

If this is the first time the Imager has been powered ON, set the power switch to the "|" position. Otherwise, press the power button on the local panel. The Imager performs a power-up self test that takes about 5 minutes. After the self test, there are some initial boot-up screens before the local panel Main Screen appears.

After the power-up test, the Imager begins a warm-up period that lasts up to 35 minutes. The warm-up period varies depending on how long the Imager has been turned OFF. During warm-up, the Imager can receive and store images, but cannot print films. When the Imager reaches operating temperature, it starts printing any images accumulated during the warm-up period.

During warm-up, you can use the touch screen to check the contents of the film drawers and to open the film drawers to load new film cartridges if necessary.

#### Normal Power OFF

IMPORTANT:

The local panel should be used to turn off power to the imager, except in an emergency. Using the main power switch could cause the imager to shutdown incorrectly and possibly cause some corruption of the operating system.

Turn the Imager OFF if you do not expect to use it for an extended period of time.

- 1. On the local panel, press the power button.
- 2. On the touch screen, touch:
  - Power OFF
  - OK

The Imager will perform a controlled shutdown.

**Emergency Power OFF** If an emergency arises that requires the immediate shutdown of the Imager, press the power switch located at the lower right front of the Imager. The Imager will be shut down. Films in process will not be completed and will remain where they are until power is restored.

> To restart the Imager turn ON the power switch. After warming up, the Imager automatically reprints any films that were in process when power was interrupted.

#### **Power Failures**

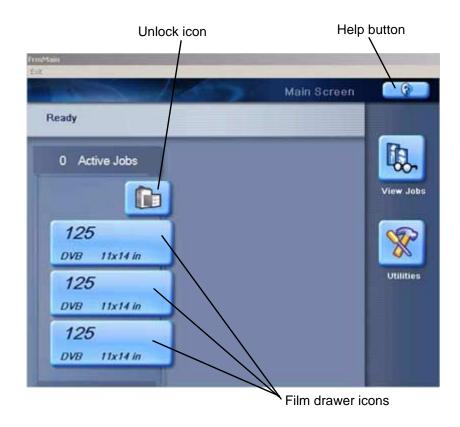
In the event of a power loss, the 6800 Laser Imager shuts down. Films in process will not be completed and will remain where they are until power is restored.

To restart the Imager after power is restored, turn OFF the power switch on the Imager and then turn it ON. After warming up, the Imager automatically reprints any films that were in process when power was interrupted.

#### **Power Save**

The Imager has a Power Save option, which lets you reduce the power consumption of the Imager during periods of inactivity. To learn more about the Power Save option, see the general help information on the touch screen (see "General Help" on page 2-5).

# **Using the Touch Screen**



Use the touch screen to monitor Imager operations and to control some Imager functions.

# Touch Screen Functions

Use the following table to navigate the touch screen. All functions begin at the Main Screen.

How To	Touch
Add a modality	Utilities>Configuration>Installation Assistant>Configure Modality
Adjust brightness	Utilities>User Operations>Display brightness
Adjust volume	Utilities>User Operations>Speaker volume
Assign sorter bins	Utilities>User Operations>Sorter bin

How To	Touch	
Backup system	Utilities>Configuration>Backup	
Calibrate film	Film drawer icon>Calibrate Film Supply	
Calibrate touch screen	Utilities>Configuration>Calibrate touch	
Change date/time	Utilities>Configuration>Date & Time	
Change PMM	Utilities>User Operations>Change Filter	
Change language	Utilities>Configuration>Change language	
Change passcode	Utilities>Service>Change passcode	
Change service number	Utilities>Service>Service number	
Clean electronics filter	Utilities>User Operations>Change Filter	
Configure Imager	Utilities>Configuration>Installation assistant	
Configure modality	Utilities>Configuration>Configure modality	
Configure network	Utilities>Configuration>Network	
Configure Remote Management Services	Utilities>Configuration>Remote management	
Disable printing	Utilities>Service>Printing enabled	
Enable printing	Utilities>Service>Printing disabled	
Log filter change	Utilities>User Operations>Change Filter	
	or	
	Utilities>Service>Preventive Maintenance	
Log PM done	Utilities>Service>Preventive Maintenance	
Ping	Utilities>Service>Ping	
Reset modality	Utilities>Configuration>Reset modality	
Restore from backup file	Utilities>Configuration>Restore	
Run mammo test patterns	Film drawer icon>Mammo test patterns	
Run test patterns	Film drawer icon>Test Patterns	
Schedule power save	Utilities>User Operations>Power save schedules	
Start power save	Utilities>User Operations>Start power save	
Switch the Imager offline	Utilities>User Operations>Imager Online	
Switch the Imager online	Utilities>User Operations>Imager Offline	
Unlock doors/drawers	Unlock icon>Unlock Film Supply	
Unlock processor	Unlock icon>Unlock Processor	

How To	Touch		
Update MPDB	Utilities>Service>Update Modality DB		
Update software	Utilities>Service>Update software		
View DICOM associations	Utilities>Service>Diagnostic data		
View error history	Utilities>View System Info>Error history		
View Imager system information	Utilities>View System Info>System info		
View Imager temperature/RH	Utilities>Service>Diagnostic data		
View jobs	View Jobs		
View network information	Utilities>View System Info>System info>Network		
View print counts	Utilities>View System Info>Print counts		
View print counts by modality	Utilities>View System Info>Modality counts		
View prints to filter change due	Utilities>View System Info>Print counts		
View prints to PM due	Utilities>View System Info>Print counts		
View software versions	Utilities>View System Info>System info>Versions		
View tutorials	Help button on Main Screen>More help>Tutorials		

### **Touch Screen Help**

Most screens contain a help button located in the upper right corner of the screen.



There are two types of help screens on the Laser Imager: general help and screen specific help.

#### **General Help**

The general help provides basic information about the Laser Imager and its functions.

- 1. On the Main Screen, touch the help button.
- 2. Select:
  - · a topic heading
  - a specific topic
- 3. Touch View Topic.

#### **Specific Screen Help**

This type of help provides information and/or instructions concerning the screen on which the help button was touched.

# **Installation Road Map**

The following sections provide a quick guide to the installation process. There are two parts to the installation process: physical setup and configuration.

### **Physical Setup**

This process includes:

- uncrating the Imager (see the uncrating instructions affixed to the crate)
- moving the Imager to its location (see Getting Started with the Kodak DryView 6800 Laser Imager, 8F2901)
- installing film trays (see Getting Started with the Kodak DryView 6800 Laser Imager, 8F2901)
- connecting to the network (see Getting Started with the Kodak DryView 6800 Laser Imager, 8F2901)
- turning on power to the Imager (see Getting Started with the Kodak DryView 6800 Laser Imager, 8F2901)

### Configuration

"Configuration" is the process of setting parameter values in the Laser Imager to customize it to produce quality prints from images sent from the modalities at this site.

Configure the Imager using the touch screen. From the Main Screen, touch **Utilities>Configuration>Installation Assistant**.

You can exit the Installation Assistant any time and return to it later.

The following list outlines the basic configuration process.

- Select your language
- Select a service phone number
- Set up the date and time
  - Select your time zone
  - Select the current date and date format
  - Enter the current time and select for daylight savings
  - Review date/time information

- Set up film
  - Unlock film drawers
  - Load film
  - Calibrate film
- Configure the network
  - Enter the network name
  - Enter the Imager IP address
  - Enter the subnet mask
  - Enter the gateway address
  - Review the network information
- Configure the *Kodak* Remote Management Services
- Edit modality information/parameters
- Save/backup configuration information
- Exit the Installation Assistant

# Loading and Removing Film Cartridges

The Film Drawer icon on the touch screen displays the number of sheets left in a film cartridge. When a film cartridge is empty, the appropriate film drawer icon flashes, and a large zero appears in the drawer icon.



#### **CAUTION:**

To avoid injury, do not leave the Laser Imager unattended when the film drawers are open.

To load or unload a film cartridge:

- 1. On the touch screen, touch:
  - a. the Unlock icon
  - b. Unlock Film Supply
  - c. **OK**
- 2. Pull the drawer out to its furthest extension.
- 3. To remove a film cartridge, hold the edges of the cartridge and lift the cartridge out of the drawer.
- 4. To load a new or different cartridge, insert the cartridge into the film drawer with the *DryView* label up and the perforations to the left.
- 5. Close the drawer.

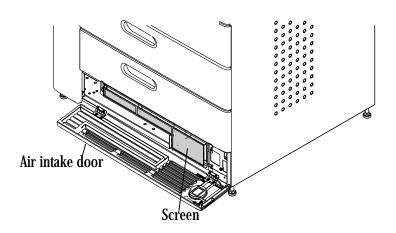
# Filter Maintenance

There are two filters in the Laser Imager that must be attended to during the preventive maintenance process.

# Cleaning the Air Intake Screen

The air intake screen should be cleaned every 20,000 print cycles.

- 1. On the touch screen, touch:
  - the Unlock icon
  - Unlock Film Supply
  - OK

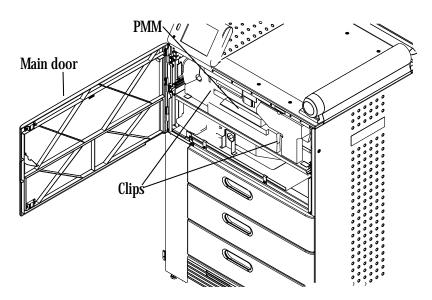


- 2. Open the air intake door.
- 3. Vacuum the screen.
- 4. Close the air intake door.

### **Changing the PMM**

The Preventive Maintenance Module (PMM) must be changed every 20,000 film cycles.

- 1. On the touch screen, touch:
  - the Unlock icon
  - Unlock Film Supply
  - OK



- 2. Open the main door.
- 3. INFORMATION NOT YET AVAILABLE.
- 4. Remove the PMM.
- 5. Install the new PMM.
- 6. Close the main door.
- 7. Log the change in the Imager. On the touch screen, touch:
  - Utilities
  - Change filter
  - Log Filter Change
  - Yes
  - OK
- 8. Touch:
  - Close to return to the Utilities screen, or
  - Main to return to the Main Screen.

# 3 Troubleshooting

#### **Overview**

Occasionally, error conditions, such as film jams, may occur in the 6800 Laser Imager. You can easily correct minor problems. If more serious conditions occur, contact a trained Authorized Service Provider of *Kodak* Products (see "Calling for Support" on page 3-2).

### **Error and Alarm Indications**

The 6800 Laser Imager can detect errors and other conditions that require operator action. These errors or abnormal conditions are reported on the touch screen. Error indications can also be found on the following:

• Error History screen - lists the last 5 errors that have occurred in the Imager. From the Main Screen, touch:

**Utilities>View System Info>Error history** 

 Troubleshooting screen - lets you view all errors by error number or to view all jams that have occurred in the Imager. From the Main Screen touch the Help button, then select the Troubleshooting tab.

For more information on troubleshooting see, "Correcting Errors" on page 3-1 and "Correcting Film Jams" on page 3-1.

### Correcting Errors

Do the following from the Troubleshooting screen on the local panel.

- 1. Select **View errors by number**.
- 2. Touch **OK**.
- 3. Select the error.
- 4. Touch View.
- 5. Follow the directions in the **Error Correction** box.

NOTE: If available, touch the **Show Me** button to view a video of the corrective action.

### **Correcting Film Jams**

Do the following from the Troubleshooting screen on the local panel.

- 1. Select Film jam list.
- 2. Touch OK.
- 3. Select the error.

- 4. Touch View.
- 5. Follow the directions in the **Error Correction** box.

NOTE: If available, touch the **Show Me** button to view a video of the corrective action.

# Touch Screen not Functioning

If the touch screen is non-responsive, use the power switch on the lower right front of the Imager to turn power OFF, then ON. If the touch screen is still non-responsive, turn the Imager OFF and contact your service provider.

# **Calling for Support**

If you cannot correct a condition and need help, call for support. Before you call, have the following information ready:

- Model Number: 6800
- K-Number: Displayed on the System Information screen
- Error code and error message if they are displayed on the touch screen

#### **Service Phone Numbers**

Country	Phone Number
Argentina	54-3327-458-195 54-3327-458-163
Australia	1 800 034 487
Austria	43.800291332
Azerbaijan	00 99412 410856
Belgium	32.27194116
Bolivia	54-3327-458-195 54-3327-458-163
Brazil	0800 15003
Canada	1-800-268-1567
Peoples Republic of China	800 820 5800
Cyprus	00 352 497777
Czech Republic	420 236 100 307 420 62 335 426
Denmark	45 70206129
Finland	35.88001214
France	01 4001 4705
Germany	49.180.3000.307

#### **Service Phone Numbers**

Country	Phone Number
India	1600 118989
Iran	00 98 216 950821 00 98 216 402105 00 98 21 256 9741 00 98 21 256 9097
Ireland	44.01442 845775
Israel	00 972 3 9254040
Italy	39.02.66028000
Japan	0120-45-1881
Jordan	00 962 6 4545845 00 962 6 4543354
Netherlands	31.347.363900
Norway	47.23120682
Pakistan	00 92 21 2638881
Palestinian Territory	00 970 92387421
Paraguay	54-3327-458-195 54-3327-458-163
Portugal	351 21 414 7642
Qatar	00 974 4469 830 00 974 4360 820
Romania	00 40 1210 3854
Saudi Arabia	00 966 2 682 8219 00 966 1 464 5064
Spain	902 19 03 99
Sweden	46200119494
Switzerland	41.0800.804807 (Italian) 41.0800.838587 (French) 41.0800.804805 (German)
Syria	00 963 112128600
Tajikistan	00 90 216 578 2600
Turkey	90 216 572 54 33
Turkmenistan	00 90 216 578 2600

#### **Service Phone Numbers**

Country	Phone Number
United Arab Emirates	00 971 6 746 6751 00 971 6 746 6285
United Kingdom	00 44870 6000245
The Republic of Ireland	00353 16772799
United States	800-328-2910

# 4 Adding Modalities and Selecting Image Quality Parameters

# Adding a Modality

After the Imager has been placed into service, you can later configure it to print images from additional modalities. The Imager can receive images from 12 DICOM-compatible modalities concurrently.

Adding a modality involves adjusting some of the image quality settings in the Imager to match the new modality.

Before you begin, make sure that the new modality has been set up to print to the Imager. The Imager must be available as a print destination in the modality print command.

You will need the following information about the modality:

- manufacturer
- type (CT, MR, etc.)
- model designation
- type and size of film to be used
- whether the modality is GSDF-compliant
- if GSDF-compliant, does the modality use PLUTs for all images it sends or only for some images

You should also decide on a screen name for the modality. This name will be used only on the Imager touch screen to identify the modality.

The following procedure explains how to add one new modality.

IMPORTANT: You must have the service passcode to perform this procedure.

- 1. Send a print request from the modality to the Imager.
- 2. From the Main Screen, select:

**Utilities>Configuration>Installation Assistant>Install Modality** 

- 3. Touch OK.
- 4. Follow the on-screen prompts to install and configure the modality.

# Selecting the Image Quality Parameter Values

The parameter selections are based on modality type. They also depend on whether the modality is Grayscale Standard Display Function (GSDF) compliant.

**IMPORTANT:** 

If the modality is GSDF-compliant and uses Presentation Look-Up Tables (PLUTs) for all images, it is not necessary to change the image quality parameters in the Imager.

#### To select the parameters:

1. From the Main Screen, select:

#### **Utilities>Configuration>Configure Modality**

- 2. Select the modality.
- 3. Touch Select.
- 4. Select the **Contrast** tab.
- 5. Touch:
  - the **Help** button.
  - the button for the modality being edited.

IMPORTANT: Make sure you select values based on whether the modality is GSDF-compliant or non GSDF-compliant.

- 6. Write down the values for:
  - TFT Set
  - Image Density
  - Contrast Table
  - Smoothing
- 7. Close the Help screens.
- 8. On the Contrast tab screen, select the values for **Contrast Table** and **TFT Set**.
- 9. Select the **Image** tab.
- 10. Select the values for **Image Density** and **Smoothing**.
- 11. For **Border Density** on the film, choose a low density for a clear border and a high density for a black border. Typically this density is matched to the Image Density.
- 12. For **Polarity** of the film, choose either Positive or Negative. Positive is used for most applications. Negative is used by Nuclear Medicine modalities.

NOTE: Some DICOM GSDF-modalities may direct the use of DICOM Presentation Look-Up Tables (PLUTs) for some or all images. If the PLUT capability in the 6800 Imager is enabled, a PLUT sent from the

modality overrides the GSDF0 TFT set (used for GSDF modalities) and associated parameter settings. The DICOM PLUT capability in the Imager is normally enabled but can be disabled by your Service Provider.

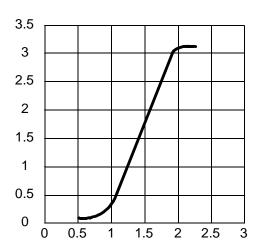
# 5 Film Technical Information

# **General Description**

This section describes the characteristics of *Kodak DryView* Laser Imaging Film, not the operation of the 6800 Laser Imager. *DryView* Laser Imaging Film is a high-resolution, infrared-sensitive, photothermographic film designed specifically for the family of *DryView* Laser Imagers. *DryView* Laser Imaging Film is packaged in daylight-load packages and is available in blue or clear, 7-mil polyester base.

### **Spectral Sensitivity**

DryView Laser Imaging Film is infrared sensitive and has been sensitized to the infrared laser diode of DryView Laser Imagers. When handled according to instructions on the daylight-load film package, safelights are not needed. If you remove undeveloped film from the daylight-load package, you will need a darkroom setting and a green safelight.



#### **Relative Log Exposure (Example)**

### **Image Quality**

*DryView* Laser Imaging Film delivers diagnostic-quality, continuous-tone images along with sharp alphanumerics and optimum contrast. This high-quality, silver-based film provides radiologists with the same diagnostic information they are accustomed to viewing - including the spatial resolution, contrast, and grey levels. Because it is a totally dry imaging process, there is no image quality variability due to "wet" chemistry.

**Environmental Impact** Tests show that *DryView* Laser Imaging Film is not considered hazardous to the environment. As a result, you can develop, recycle, and dispose of film with less impact on the environment than if you were using wet-developed silver halide films.

	DryView Laser Imaging Film					
	US Environmental Regulations Comparison					
Wet Silver Halide				<i>DryView</i> Film		
	Developer	Developer Fixer Wash Film				
Product Regu	Product Regulations					
OSHA MSDS	Required	Required	Not required	Not required	Provided	
DOT	Hazardous	Hazardous	No limits	No limits	No limits	
Use permits	Local	Local	None	None	None	
Disposal* Regulations						
EPA	Hazardous	Hazardous	No	No	No	
DOT	Hazardous	Hazardous	No	No	No	

Note: There is no SUPERFUND liability with *DryView* Laser Imaging Film.

### Storing and Handling **Undeveloped Film**

To achieve consistent results up to the expiration date indicated on the film package, DryView Laser Imaging Film must be stored in a cool, dry place (41° to 77°F / 5° to 25°C) and protected from radiation and chemistry fumes.

The film can withstand short-term temperature spikes (up to 95°F/35°C) for several hours during transit without any significant effect on film quality or performance. Transit temperatures above 95°F/35°C will gradually diminish shelf life.

<sup>\*</sup> State and local laws vary. Consult appropriate regulations or authorities prior to disposal.

# Handling Developed Film

Handling *DryView* Laser Imaging Film requires reasonable care. Spills, humidity, and other moisture typically have no significant effect on developed films. However, prolonged exposure to intense light or excessive heat (130°F/54.4°C) for more than 3 hours may cause some gradual darkening of images. Leaving films in vehicles in hot climates for extended periods of time is not recommended.

For best results, store film in sleeves when not being reviewed. *DryView* Laser Imaging Film can be left on a light box for more than 24 hours; in extreme cases in which light boxes are exceptionally hot (120° F/49°C), Kodak recommends removing them prior to 8 hours of continuous exposure.

Take care when using spotlight viewing for more than 30 seconds because temperatures near the light source may exceed 180° F/82.2°C. Use in slide projectors is not recommended due to the high temperatures generally found in these devices.

With *DryView* technology, a small amount of final development occurs when the film exits the laser imager and is initially exposed to ambient or view-box lighting. This is virtually undetectable and has no effect on image quality (i.e., typically 0.02 change in density). This small density increase is uniform and permanent upon full exposure of the film under normal handling conditions (i.e., room light or view box).

# Archiving Developed Film

*DryView* Laser Imaging Film has been tested and can be archived for more than 100 years when stored at American National Standards Institute (ANSI) recommended storage conditions (77°F/25°C). Developed films may be stored at higher temperatures; however, that may reduce the number of years the film can be stored. For example, storing films at a constant elevated temperature of 90°F/32.2°C may reduce archive capability to 30 years.

#### **Exposing to Moisture**

*DryView* Laser Imaging Films typically withstand humidity, spills and other forms of water without any significant effect on image quality or film integrity. If needed, film can be cleaned with a clean, damp cloth.

### **Dissipating Odor**

DryView technology eliminates virtually all unpleasant odors. While some low-level odors are produced during the development process, they pose no known adverse health risks. Processing odor levels are further reduced by a non-hazardous, recyclable filter in the laser imager. This filter traps most low-level odors and prevents them from dissipating into the work environment. To help maintain optimum performance, the filter requires periodic replacement. DryView Laser Imagers require no special venting.

#### **Dissipating Heat**

*DryView* Laser Imagers use controlled heat to develop *DryView* Laser Imaging Film. The heat has virtually no effect on the air temperature of the work area. The amount of heat dissipated into an area during a day is typically less than the heat generated by four 100-watt light bulbs.

#### **Recycling Film**

According to the Environmental Protection Agency (EPA) standards, *DryView* Laser Imaging Film is not considered hazardous and requires no special disposal procedures. However, the film does contain silver and polyester that may be recovered by using one of several recycling processes.

Call your local Kodak sales representative or go to the Kodak Web site and refer to Publication J700 and see the End-of-Life-Management section.

- 1. Launch Microsoft Internet Explorer.
- 2. In the Address field, type: www.kodak.com/go/KES
- 3. On the left side under **Product Safety, Recycling & Disposal**, click **Film**.
- 4. Under Film, click Medical/Dental.
- 5. Under Medical/Dental Film Disposal, click Dryview Film.
- 6. When the PDF file is displayed, scroll to the heading **End-of-Life-Management** for *DryView* Film.

# Appendix A: Warranty and Limitation of Liability

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## **Glossary**

CR Computed Radiography, the process of creating digital radiographic images.
CT Computed Tomography, the process of creating digital tomographic images.

Cycle power means to shut down and power up the Laser Imager.

**DICOM** Digital Imaging and Communications in Medicine. A TCP/IP-based protocol

for transmitting and receiving medical imaging and related data over a

network.

**Dmax** Dmax means maximum density. Dmax is the density of an area on the film that

has received maximum exposure.

**Dmin** Dmin means minimum density. Dmin is the density of an unexposed area on

the film.

dPatch dPatch dPatch means density patch. This is a small patch of specified density in the

trailing edge of each film that AIQC uses to monitor density change on film. The dPatch is only available as an option on  $35 \times 43$  cm  $(14 \times 17$  in.) film.

**DR** Digital radiography, the process of creating digital radiographic images.

**DRE** DICOM Raster Engine.

DSA Digital Subtraction Angiography.

GSDF Grayscale Standard Display Function.

**GSM** Gray Scale Manager.

**Film model**The film model defines the print characteristics for a particular lot of film. **Key operator**The person(s) designated by the department manager to receive applications

training and allowed access to password-protected areas to make system

changes.

**LED** Light Emitting Diode.

Modality Medical equipment that actually generates medical images (for example, an

MRI).

**Monotonic** Continuously increasing. When a calibration sheet, which consists of strips of

increasing density (Dmin) to maximum density (Dmax), is read by the densitometer, the density values must be monotonic (continuously

increasing). If they are not, an error message is generated.

MPDB Modality Preferences Database.

MR Magnetic Resonance.

N/A Not available or not applicable

**Platen** The metal surface on which the film rests as it is exposed.

PLUT Presentation Look-Up Table.

**PMM** Processor Preventive Maintenance Module, one of two replaceable filters on

the Imager.

QC step wedge Mammography Quality Control Test Pattern.

RF Tag Radio frequency tag.

**Service image** An image used by service personnel for troubleshooting.

**Shutdown** The process of exiting current tasks and applications and turning the power

off.

**SMPTE test pattern** A Society of Motion Picture and Television Engineering monitor test pattern

that is used for analyzing image-quality problems.

SST Synergy Service Tool.

**Test type**The type of test film that will be printed. Two film test types are available: a

density test film (SMPTE pattern) and a calibration film.

**TFT** Transfer Function Tables.

**Undelivered queue**The queue of jobs that cannot be printed because of problems with the job

description.

**Version** A different rendition of an image. A second version of an image is processed

using a second set of image processing parameters.

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