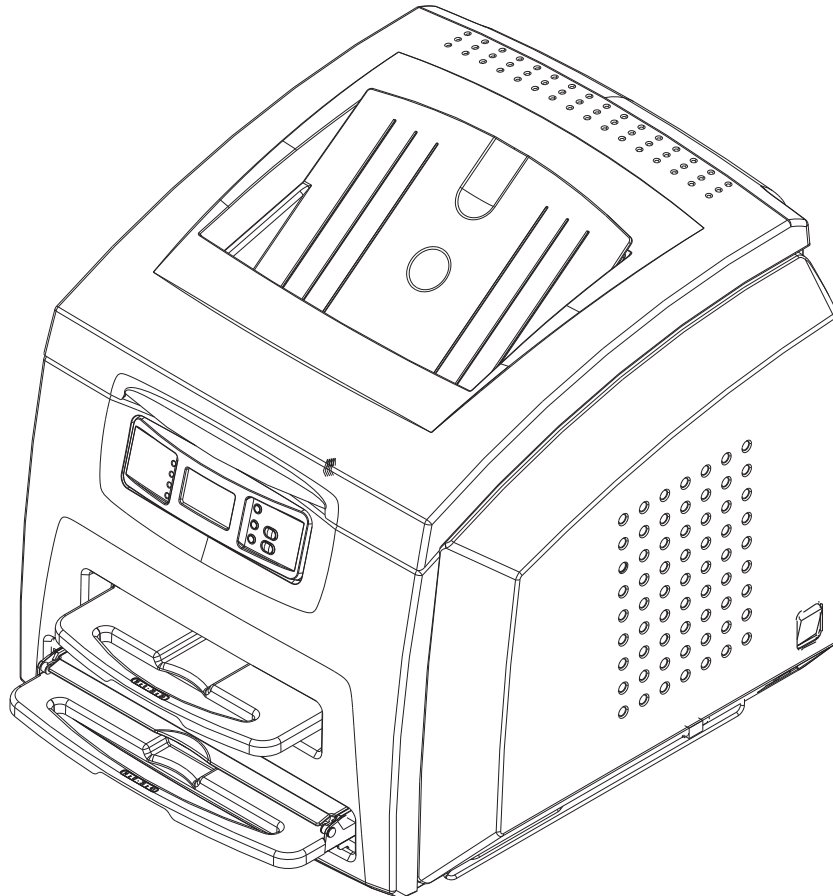


KODAK DRYVIEW 5800 Laser Imager



User's Guide



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1 Overview

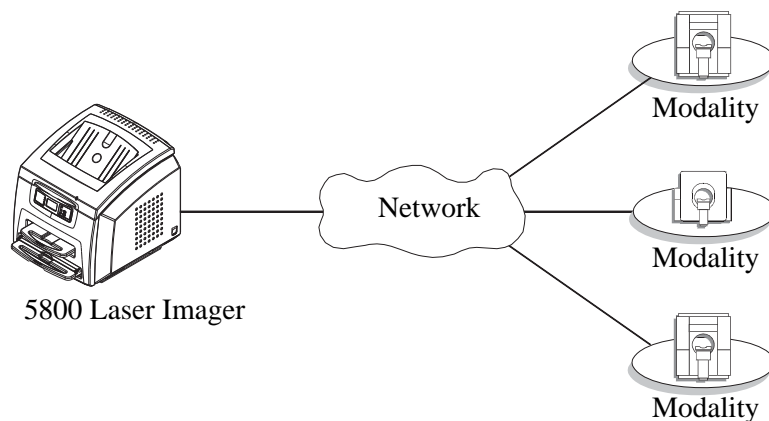
5800 Laser Imager

The KODAK DRYVIEW 5800 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 Imager receives digital images from medical image source devices (modalities) over a network. The format that the Imager accepts is DICOM.

The Laser Imager prints images on DRYVIEW Laser Imaging Film. Each film package contains 100 sheets of film. The Imager can accept any type and size of film as described in Chapter 5 of this manual.

How the Laser Imager Works

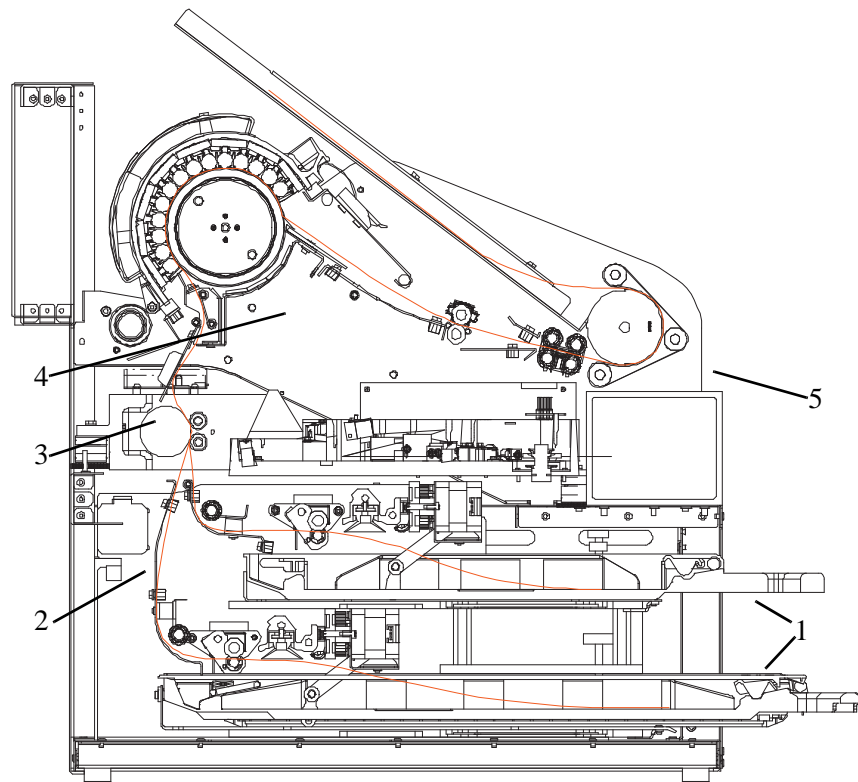
The Imager is a network printer connected on a network along with one or more medical imaging devices. It prints images sent over the network from medical imaging devices or workstations sending images concurrently.



The Imager has hard-disk storage for a large number of digital images. As images arrive, they are stored on the hard disk and placed in a print queue (sequenced for printing) based on time of receipt and priority. Because the Imager can store images, it can continue to accept incoming print jobs even when the film cartridge is empty or the Imager is temporarily unable to print. Images that require a different film size or film type than is currently in the Imager are placed in a separate "waiting for media" queue and a code on the Local Panel reminds the operator to change film.

During normal operation, the Imager requires very little operator attention. The Imager prints automatically in response to print requests from the associated image devices. Information sent along with print requests, such as film size, density and priority, control the print operations. Main operator responsibilities include loading film and monitoring for malfunctions.

System Components

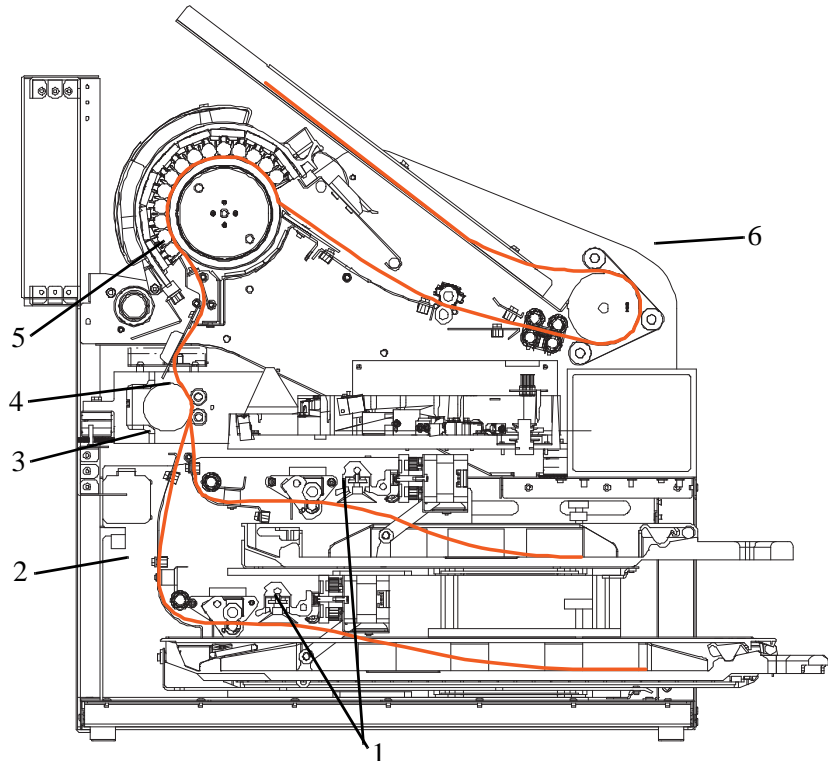


- 1 **Film supply.** Your Imager is configured with two film supplies. Each film supply holds a different size of DRYVIEW Laser Imaging Film. Both film supplies must be installed in order for the Imager to operate.
- 2 **Film feed transport.** The film feed transport orients and centers the film while moving the film from the film supply to the imaging portion of the Imager.
- 3 **Film imaging.** The optics module writes the image onto the film while the film is moved through the exposure transport area.
- 4 **Film processor.** The film processor uses heat to develop the image written onto the film by the laser in the optics module.
- 5 **Local panel.** The local panel contains the display screen.

Print Sequence

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

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



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 up into the registration transport area, where film registration takes place.
3. The film registration transport then moves the film into the exposure transport area.
4. As the film moves through the exposure transport, the optics module writes 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 to the exit area.

Automatic Image Quality Control

An internal densitometer is a key element in the Automatic Image Quality Control (AIQC) process. The densitometer enables the Imager to automatically adjust image processing parameters to produce the best image. The Imager adjusts these parameters each time it prints a calibration film.

A calibration film is printed when:

- The film tray is inserted in the Imager with film of a new lot number.
- A calibration film is requested from the local panel or web portal.
- A film tray is inserted into the Imager for which a current calibration is not stored.

Agency Compliance

See the KODAK DRYVIEW 5800 Laser Imager Safety Manual, 2G0734.

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:

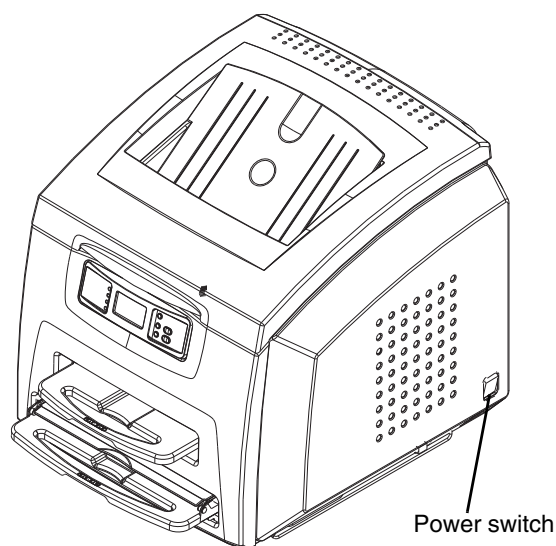
Laser warnings warn personnel that access to laser radiation is possible and all personnel must avoid direct exposure to the beam.

2 Using and Maintaining the Imager

Operator Control of the Imager

During normal operation, the 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 OFF



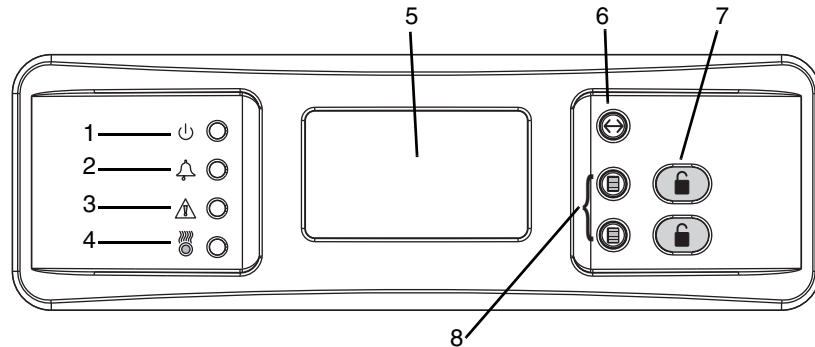
There is a power switch located at the back right of the Imager.

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

The Imager will restart after power is restored. After self-test, the Imager clears any films in process and automatically reprints any films that were in process when power was interrupted.













Local Panel and Display Screen





Local Panel Layout



- 1 **Ready LED.** This LED, when lit indicates that the Imager is ready for printing. When flashing, the Imager is processing and printing films. When unlit, the Imager is not ready to print.
- 2 **Error LED.** When lit, this LED indicates that the Imager has an error. An error code will appear on the display screen indicating what the actual error is.
- 3 **Attention LED.** When lit, this LED indicates a condition that requires attention, such as "out of film". The Imager can still process and print films from unaffected film trays.
- 4 **Warming LED.** When lit, this LED indicates that the Imager is warming up. A timer is also shown on the display screen indicating the amount of time, in minutes, before the Imager reaches operating temperature.
- 5 **Display screen.** Displays codes and icons that indicate the status and operating condition of the Imager.
- 6 **Maintenance Reset LED/Button.** Pushing and holding the button for 5 seconds displays a menu and allows the user to perform various reset functions.
- 7 **Unlock buttons.** Used to unlock the film trays.
Note: The trays will not unlock unless a film saver is installed in trays that have film.
- 8 **Calibration buttons.** Used to initiate a manual film calibration.

Display Screen Icons

| Icon | Description |
|---|---|
|  | This icon indicates that film calibration is required. The Imager is unable to print jobs from this supply until a successful calibration occurs. |
|  | This icon indicates that a door is open on the Imager. |
|  | This icon indicates an error with the film tray. An error code will also be shown on the display screen. The film tray cannot be used until the error is corrected. |
|  | This icon indicates that you should insert the film saver into the film tray. |
|  | This icon appears when the film fails calibration and indicates that the Imager has been placed in manual mode. |
|  | This icon indicates that the DICOM network connection to the Imager is offline. |
|  | This icon indicates that a film tray is not installed. Both film trays must be installed in order for the Imager to operate. |
|  | This icon indicates that a user-initiated shutdown is complete. The Imager can now be powered OFF. |
|  | This icon indicates that preventive maintenance is due. |
|  | This icon indicates that one or more jobs are present in the Undeliverable Job Queue. |
|  | This icon indicates that the film saver must be removed from the film tray. |
|  | This icon indicates that a reset of the print counts to preventive maintenance is due. |

| Icon | Description |
|---|---|
|  | This icon indicates there are prints in the queue that are waiting to be deleted. |
|  | This icon indicates that a user-initiated system restart is in process. |
|  | This icon indicates that the Imager has been placed in service mode. |
|  | This icon indicates that the Imager is warming up. The amount of time remaining until the Imager reaches operating temperature is also shown on the display screen. |

Web Portal

The Web Portal is your interface to additional functions on the Imager. In the Web Portal, you can view and manage the Imager's connections over the network, configure features, view and correct error messages and general status, etc.

After you have accessed the Web Portal, you can check the status of the Imager and check the media and status of the film trays.

With a user account, you can log on to the Web Portal to perform more advanced functions such as:

- Setting up and working with network configuration for the imager and connected image sources.
- Retrieving logs, statistics, and system status.
- Performing diagnostic utilities, including backup and restore.

Levels of User Access

IMPORTANT: *For information about creating user accounts refer to the Web Portal Help system.*

There are four levels of user access to the Imager.

Level 1: Operator - Activities include printing, clearing of some errors, and removing film jams and deleting jobs. A password is not required for this level of access.

Level 2: Key Operator - Activities include printing, clearing of some errors, removing film jams, performing minor setup, and deleting jobs. Access to Level 2 requires a Level 2 ID and password.

Level 3: Local Service - Local Service providers are Carestream Health, Inc., trained and certified self-maintenance customers. Level 3 First Call Service provides access to all Level 1 and 2 features and functions. In addition, First Call activities include preventive maintenance with the ability to reset some imaging parameters. Access to Level 3 requires a Level 3 ID and password.

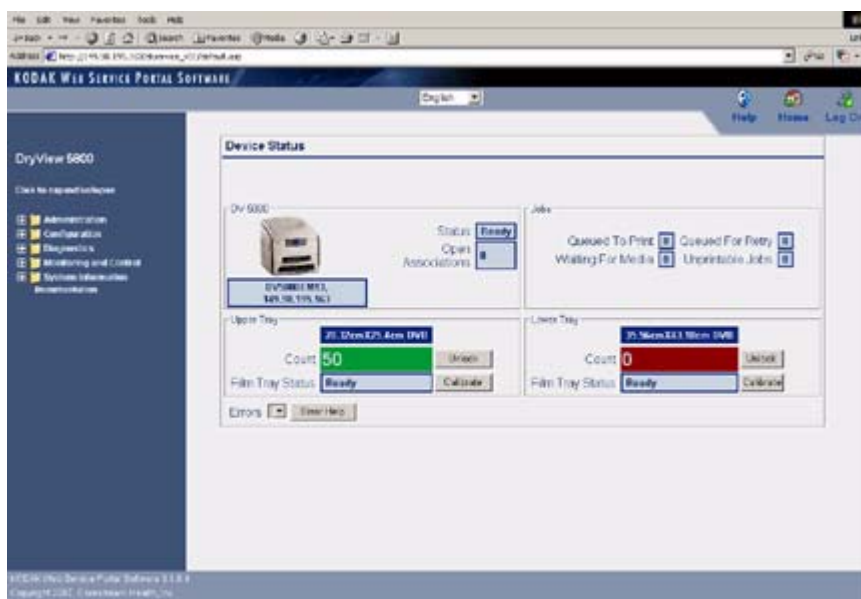
Level 4: Full Service - Full Service providers are Carestream Health, Inc., Field Engineers, Technical Support staff, and certified service partners. Level 4 Full Service requires licensing for a specified period. Full Service providers have access to all Level 1, 2, and 3 service features. The providers can also access the laser imager through a service computer or through a remote computer connected to the network. Access to Level 4 requires a Service ID and password.

Accessing the Web Portal

To access the Web Portal you will need a desktop or laptop computer that is connected to the network.

1. On a desktop or laptop computer, start *Windows* Internet Explorer.
 2. In the address field, type: **http://<IP address>**
- Note:** <IP address> is the IP address of the Imager.
3. Click **Go**.

The main window for the 5800 Web Portal appears.

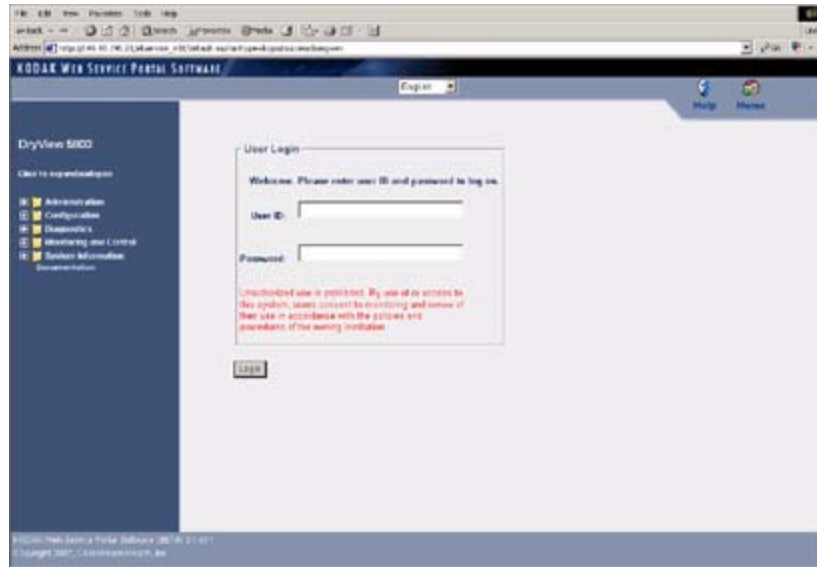


The center panel displays the screens where you view and perform tasks. On-line help is available by selecting "Documentation" from the left panel. The left panel displays links to all other screens.

To log on to the Web Portal as a Level 2 or Level 3 user, do the following.

1. Click the Log On icon.

The following window appears.



2. Enter your User ID and password.

NOTE: The Imager comes with a default User ID and password for Level 2 and Level 3 users.

- for Level 2: User ID = **KeyOperator**; Password = **DV5800**
- for Level 3: User ID = **LocalService**; Password = **DV5800**

3. Click **Login**.

The items on the left side of the display will differ according to your level of access.

Operations

Unloading and loading the Film Tray

IMPORTANT: *Leave the Imager powered on while loading or unloading the film tray.*

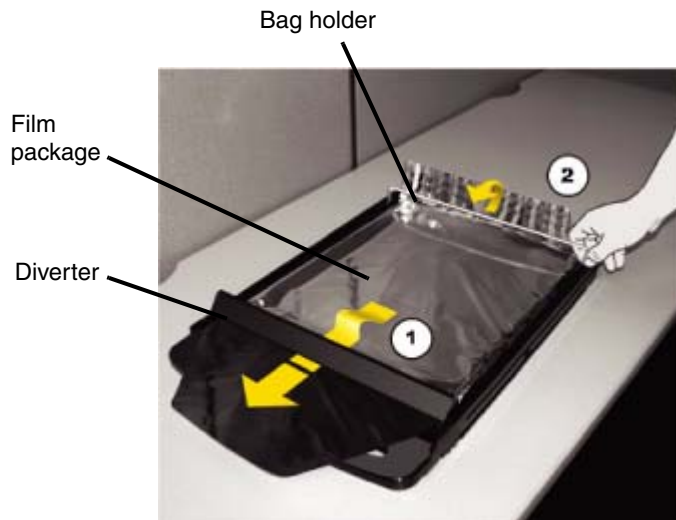
When 100 sheets of film have been used, a 0 film count appears on the display screen, and the Imager will automatically unlock the film tray for removal.

1. Remove the film tray from the Imager.



2. Remove the old film insert from the tray and discard in a manner suitable to local ordinances.

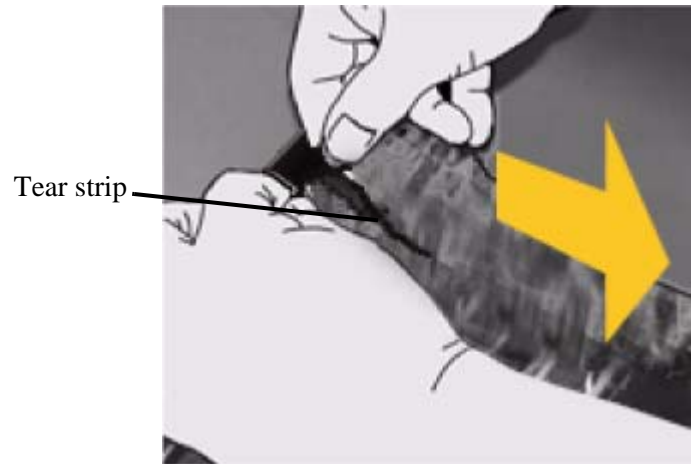
NOTE: Before loading a new package of film, clean any particles from the inside surface of the film tray, including the ramp and top edge of the tray.



3. Pull the diverter (plastic bar) and bag holder (silver bar) into the up position.
4. Press the new film package down in the tray with the label facing up.
5. Pull the front flap of the film package forward and place it under the diverter (1).
6. Set the back end of the film package under the bag holder (2).
7. Press down firmly using both hands so the film package sits flat against the bottom of the tray.



8. Swing the bag holder of the film tray back in place.



9. Remove the tear strip from the plastic bag.
10. Swing the diverter of the film tray back in place.

IMPORTANT: *Do not install the Film Saver onto the film tray.*

11. Slide the tray back into the Imager slot.



12. To remove the plastic bag so the Imager can access the film, pull the plastic bag tail firmly and smoothly. The entire film bag will slide out.

Inserting the Film Saver and Removing the Film Tray

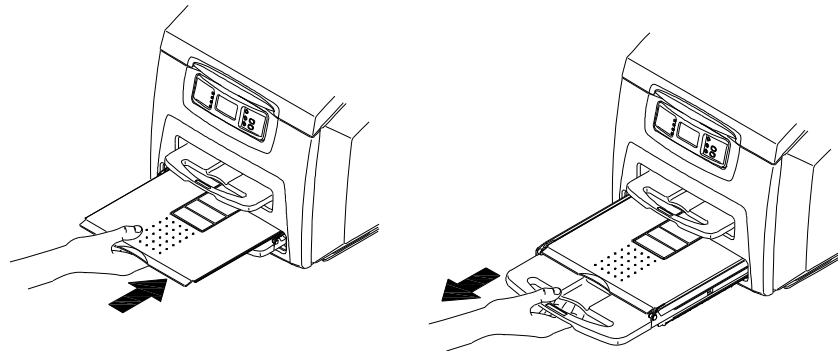
A film saver must be inserted into a film tray when:

- the hood is opened.
- any panel on the Imager is removed.
- a film tray with film in it is removed.

1. Insert the film saver as shown below.
2. If the film tray has not been unlocked, press the "unlock" button on the local panel.

NOTE: The film tray must be removed within 30 seconds after pressing the "unlock" button. Otherwise, the film tray will re-lock automatically.

3. Remove the film tray as shown below.



Inserting the Film Saver

Note: The film saver can be stored under the film tray until required.

Calibration Prints

Imager calibration is performed by printing a calibration print. A calibration print has a step wedge pattern with a series of 26 stripes of increasing optical density. The only purpose of a calibration print is to calibrate the Imager. The Imager prints a calibration print when:

- A manual film calibration is requested.
- A film cartridge containing film with new sensitometric characteristics (speed, contrast) is loaded.
- A film tray for which a current calibration is not stored is inserted into the Imager.

You can discard all calibration prints.

Running a Calibration Print

You may occasionally have to request that the Imager print a calibration print to calibrate the Imager. You may be asked to do this if you call for service. You should also run a calibration print if a "Not Calibrated" status message appears on the Web Portal Home screen, or if a calibration error code (2x-624, 2x-631, or 2x-632) appears on the display screen.

To request a calibration print from the local panel, press the calibration button for the applicable film tray (see "[Local Panel Layout](#)").

To request a calibration print from the Web Portal:

1. Access the Web Portal (see "[Accessing the Web Portal](#)").
2. Click **Calibrate**, for the applicable film supply.

Calibration Failure

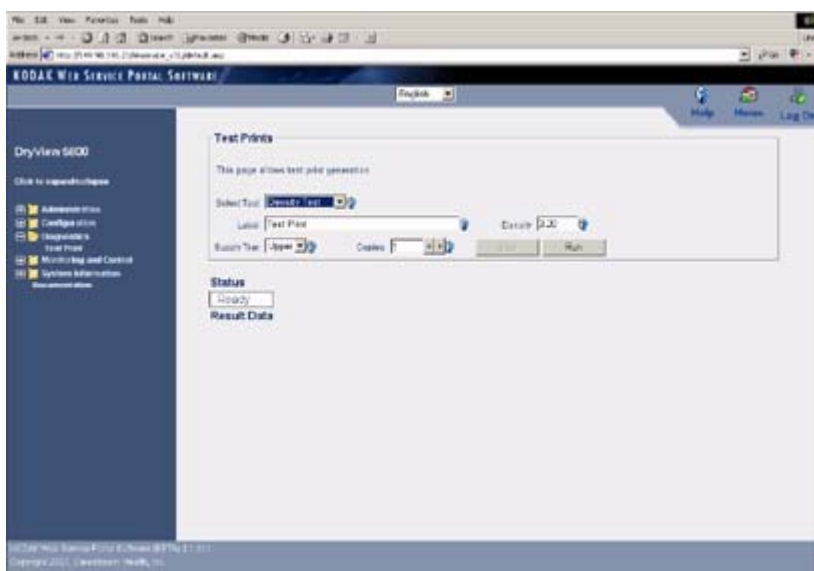
Occasionally, the Imager may fail calibration and will notify the operator with an error code on the display screen and a code and message on the Web Portal. The most common cause is a film related problem. Depending on the cause, the Imager may be able to continue operating, but would display the "manual mode" icon.

Requesting a Density Test

The Imager can print an internally generated density test print with a SMPTE pattern. Density test prints are often used as a quality assurance tool to verify the uniformity of films printed by the Imager.

To request a density test print:

1. Access the Web Portal (see "[Accessing the Web Portal](#)").



2. Select **Diagnostics>Test Print**.
3. For "Select Test", use the drop-down menu to select **Density Test**.
4. Enter an optional label to be printed on the test film.

5. Enter the desired density (0.1 to 3.2).
6. Use the drop-down menu to select the film tray.
7. Select the number of copies to be printed.
8. Click **Run**.

Removing Print Jobs From the Undeliverable Jobs Queue

When there are jobs in the undeliverable jobs queue that can not be printed, condition code 20703 and an icon show on the display screen. To remove these jobs from the print queue, do the following.

1. Press and hold the Maintenance Reset LED/Button for 5 seconds. Release the button and a menu selection is displayed.
2. Press and hold the Maintenance Reset LED/Button again for 5 seconds.

The icon and condition code are cleared, and the display screen returns to normal operation.

Operator Maintenance

Changing the Charcoal Filter

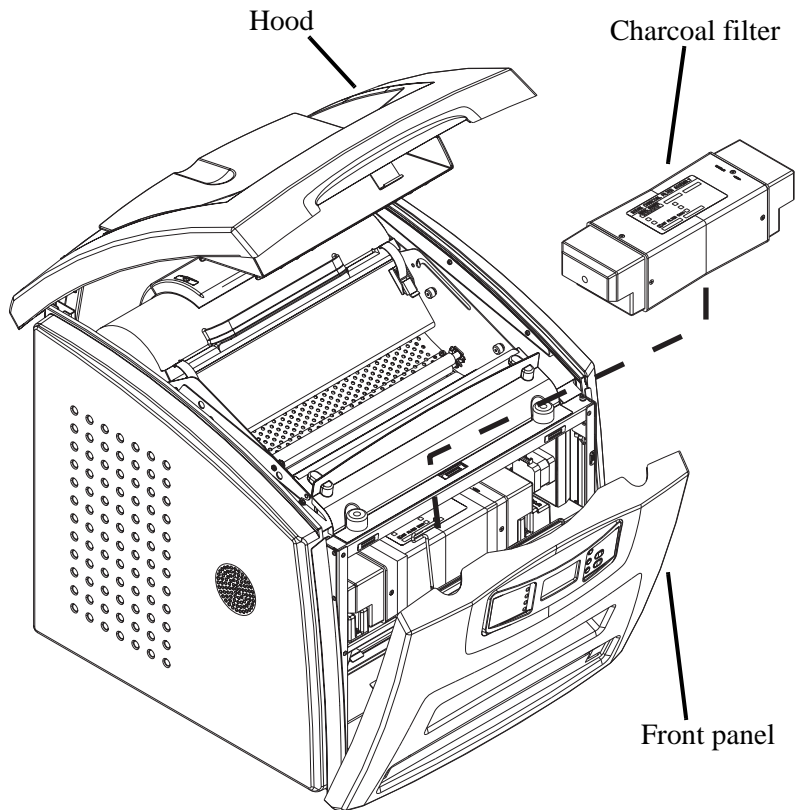


CAUTION:

In the U.S., exhausted charcoal filters are considered to be non-hazardous waste according to the US Environmental Protection Agency Resource Conservation Recovery Act (RCRA). Municipality owned and licensed solid waste management facilities are an appropriate disposal option. Contact your local or state solid waste authorities to determine if additional disposal requirements apply. In other regions, contact local or regional solid waste authorities for proper disposal guidance.

The preventive maintenance filter must be changed every 7,500 films. When it is time to replace the filter, condition code 20449 and an icon show on the display screen.

1. Remove the film trays see (“[Inserting the Film Saver and Removing the Film Tray](#)”).
2. Turn the Imager OFF.



3. Raise the hood.
4. Pull the front panel forward.
5. Remove the charcoal filter by lifting it up and pulling it forward.
6. Install a new charcoal filter.
7. Close the front panel.
8. Close the hood.
9. Install the film trays.
10. Remove the film savers.
11. Turn the Imager ON.
12. Wait for the Imager to complete its start-up routine.
13. Clear the preventive maintenance icon and condition code.
 - a. Press and hold the Maintenance Reset LED/Button for 5 seconds. Release the button and a menu selection is displayed.
 - b. Press and hold the lower LED/Button adjacent to the codes displayed for 5 seconds. The preventive maintenance icon and condition code are cleared, and the display screen returns to normal operation.

3 Troubleshooting

Error and Alarm Indications

The Imager can detect errors and other conditions that require operator action. These errors or abnormal conditions are reported on the display screen and on the Web Portal in the form of condition codes and messages.

DICOM Printer Status Messages

In response to a DICOM printer N-GET status request from a modality, a printer status message and a printer status info message are returned to the requesting SCU. Every error has an associated printer status info message. If more than one error exists when a printer N-GET request is received, a status message is sent in response according to an established priority. The following table shows the DICOM printer status and printer status info.

Table 3-1: DICOM Printer Status Messages

| Printer Status | Printer Status Info | Printer Status | Printer Status Info |
|-----------------------|--|-----------------------|--|
| FAILURE | ELEC DOWN PRINTER DOWN PROC DOWN | WARNING | BAD SUPPLY MGZ CALIBRATION ERR CHECK PRINTER COVER OPEN EMPTY MEDIASZ MEDIATP FILM JAM FILM TRANS ERR PRINTER BUSY PROC INIT PRINTER INIT PRINTER OFFLINE |

Printer Status Messages

The following table describes how the local panel and Web Portal indicate printer status to the user.

Table 3-2: Printer Status Messages

| Printer Status | Local Panel | Web Portal Display | DICOM Status | Description |
|-------------------------|--|--------------------|---------------------------|--|
| Any Film Supply Open | <ul style="list-style-type: none"> Ready LED off Supply display is blanked for open supply Status code: 20702 | Not Ready | WARNING / COVER OPEN | At least one of the film supplies is open (not inserted and latched into place). |
| Door Open | <ul style="list-style-type: none"> Ready LED off Attention LED on Status code: 20701 | Hood Open | WARNING / COVER OPEN | The Imager hood is open or one of the side panels may be off. The Imager is not "Ready". |
| Failed | <ul style="list-style-type: none"> Ready LED off Error LED on Error code shown | Failed | See Condition Code | An error has occurred that prevents printing. |
| Imager Unlock Requested | <ul style="list-style-type: none"> Ready LED off Unlock LED flashing for the requested film supply | Not Ready | n/a | The printer will complete any prints in progress prior to unlocking a film tray for removal. |
| Offline | <ul style="list-style-type: none"> Ready LED off Attention LED on Status code: 20704 | Printing Disabled | WARNING / PRINTER OFFLINE | The printer has been disabled through the Web Portal, or the user has pressed the Offline button on the local panel. |
| Printing | <ul style="list-style-type: none"> Ready LED flashing | Printing | NORMAL | The Imager is currently printing films. |
| Ready | <ul style="list-style-type: none"> Ready LED on Supply display shows count, type, and size for each film supply | Ready | NORMAL | The Imager is online and the Processor has reached operating temperature. |
| Self-test | <ul style="list-style-type: none"> Ready LED off the display shows the Carestream logo | Self-test | WARNING / PRINTER INIT | This occurs when power is first applied to the Imager. |

Table 3-2: Printer Status Messages (Cont'd)

| Printer Status | Local Panel | Web Portal Display | DICOM Status | Description |
|----------------|---|--------------------|---------------------------------|--|
| Service Mode | <ul style="list-style-type: none"> Ready LED off Attention LED on Status code: 20700 | Service Mode | WARNING / PRINTER OFFLINE | The service switch is enabled. The Imager is not "Ready". |
| Warming | <ul style="list-style-type: none"> Ready LED off Warming LED on Number of minutes until warm shown | Warming=xx | WARNING / PROC INIT | The Processor is warming up and will not be ready to print for xx minutes. |

Film Supply Status Messages

The following table describes how the local panel and Web Portal indicate film supply status to the user.

Table 3-3: Film Supply Status Messages

| Film Supply State | Local Panel | Web Portal Display | Description |
|-------------------|---|-------------------------------|--|
| Failed | <ul style="list-style-type: none"> Attention LED on Status code: 21000 (upper), 23000 (lower) Unlock button LED on Cal button LED flashing Supply info area displays icon for this state | Failed | An error has occurred that affects normal operation. This film supply is currently not useable and requires user intervention. |
| Calibrating | <ul style="list-style-type: none"> Attention LED on Status code: 21001 (upper), 23001 (lower) Unlock button LED on Cal button LED off Supply info area displays film type, size, and count | Calibrating | A calibration is in progress for this film tray. |
| Film Covered | <ul style="list-style-type: none"> Attention LED on Status code: 21003 (upper), 23003 (lower) | Film is Covered | Either the film bag or film saver is still on and must be removed before the film tray can be used. |
| Film Tray Empty | <ul style="list-style-type: none"> Unlock button LED on Cal button LED off Supply info area displays film type, size, and count | Empty and/or sheet count of 0 | There is a film tray in the film supply, but the sheet count is 0. |

Table 3-3: Film Supply Status Messages (Cont'd)

| Film Supply State | Local Panel | Web Portal Display | Description |
|----------------------|--|----------------------|--|
| Manual Mode | <ul style="list-style-type: none"> • Attention LED on • Status code: 21002 (upper), 23002 (lower) • Unlock button LED on • Cal button LED off • Supply info area displays film type, size, and count | | The film in this film tray does not meet AIQC standards. However, the user has selected “Manual Mode,” so it will be used as if it is “Ready.” |
| No Film Tray | <ul style="list-style-type: none"> • Unlock button LED on • Cal button LED off • Supply info area displays icon for this state | Invalid Film Tray | There is a film tray in the film supply but it does not contain a liner/RF tag. |
| Ready | <ul style="list-style-type: none"> • Unlock button LED on • Cal button LED off • Supply info area displays film type, size, and count | normal tray info | The film supply tray is ready for use. |
| Requires Calibration | <ul style="list-style-type: none"> • Attention LED on • Status code: 21001 (upper), 23001 (lower) • Unlock button LED on • Cal button LED off • Supply info area displays film type, size, and count | Requires Calibration | The film tray must be calibrated before the Imager can print from it. |
| Supply Open | <ul style="list-style-type: none"> • Ready LED off • Unlock button LED off • Cal button LED off • Supply info area blank | No Film Tray | There is no film tray in the film supply. Both trays must be inserted in order for the Imager to operate. |
| Unlock Pending | <ul style="list-style-type: none"> • Ready LED off (or blinking if active print) • Cal LED off (or blinking if active calibration) • Unlock button LED blinking • If the film tray requires a cover, the status code is: Status code: 21004 (upper), 23004 (lower) | Unlock Requested | <p>An “Unlock” has been requested but has not started because of one of the following:</p> <ul style="list-style-type: none"> • films are still moving through the Imager • the film tray contains film but has not been covered with a film saver <p>Once the conditions for unlock is met, film tray can be removed.</p> |

Job Manager Status Messages

The following table describes how the local panel and Web Portal indicate job status to the user.

Table 3-4: Job Manager Status Messages

| Job Manager Status | Display Screen | Web Portal Display | Description |
|---------------------------|--|--|---|
| Active | n/a | Shows how many jobs having this status are queued. | The Imager is accepting DICOM job requests and film is available for all current jobs. |
| No Media | <ul style="list-style-type: none"> • Attention LED on • Required media size is displayed | Shows how many jobs having this status are queued. | The Imager is accepting DICOM job requests but film of the correct size and type is not available for at least one current job. |
| Offline | <ul style="list-style-type: none"> • Ready LED on • Status code: 20704 | Imager Offline | The Imager will not accept any DICOM job requests. |
| Undeliverable jobs queued | <ul style="list-style-type: none"> • Status code: 20703 | Shows how many jobs having this status are queued. | The Imager has queued jobs that can never be printed and should be deleted by the user. |

Condition Codes

Condition codes are shown on the display screen in the order in which they are generated. If there is more than one code associated with the current condition of the Imager, the first code is shown on the display screen for 6 seconds, while other codes in the list are displayed for 3 seconds as the list is cycled. The LEDs on the left side of the local panel will be on whenever there is a condition code of that type.

Table 3-5: Condition Codes

| Code | Web Portal Message | User Action |
|-------|-----------------------------------|--|
| 01004 | MIM Core: Internal Software Error | <ol style="list-style-type: none"> 1. Shut down the Imager, then start the Imager. 2. If the error persists, call for service. |
| 04200 | MIM Core: Disk Full | <ol style="list-style-type: none"> 1. Delete jobs in the "Unprintable jobs" queue. 2. Load requested film type for jobs in the "Waiting for media" queue. 3. If the error persists, call for service. |
| 06400 | MIM Core: Image Page Error | <ol style="list-style-type: none"> 1. Delete jobs in the "Unprintable jobs" queue. 2. Resend the print job from the image source. 3. If the error persists, call for service. |
| 06410 | MIM Core: Image Rendering Error | <ol style="list-style-type: none"> 1. Delete jobs in the "Unprintable jobs" queue. 2. Resend the print job from the image source. 3. If the error persists, call for service. |
| 06411 | MIM Core: Image Data Error | <ol style="list-style-type: none"> 1. Delete jobs in the "Unprintable jobs" queue. 2. Resend the print job from the image source. 3. If the error persists, call for service. |
| 06420 | MIM Core: Internal Software Error | <ol style="list-style-type: none"> 1. Delete jobs in the "Unprintable jobs" queue. 2. Resend the print job from the image source. 3. If the error persists, call for service. |
| 06430 | MIM Core: Internal Software Error | <ol style="list-style-type: none"> 1. Delete jobs in the "Unprintable jobs" queue. 2. Resend the print job from the image source. 3. If the error persists, call for service. |
| 10001 | MIS: Internal Software Error | <ol style="list-style-type: none"> 1. Shut down the Imager, then start the Imager. 2. If the error persists, call for service. |

Table 3-5: Condition Codes (Cont'd)

| Code | Web Portal Message | User Action |
|-------|--|--|
| 10003 | MIS: Image Buffer Error | <ol style="list-style-type: none"> 1. Shut down the Imager, then start the Imager. 2. If the error persists, call for service. |
| 10015 | MIS: Database Error | <ol style="list-style-type: none"> 1. Shut down the Imager, then start the Imager. 2. If the error persists, call for service. |
| 10910 | MIS: MCS Communication Failure | <ol style="list-style-type: none"> 1. Shut down the Imager, then start the Imager. 2. If the error persists, call for service. |
| 20004 | USB Failure | <ol style="list-style-type: none"> 1. Shut down the Imager, then start the Imager. 2. If the error persists, call for service. |
| 20154 | MCS: Internal Communications Failure | <ol style="list-style-type: none"> 1. Shut down the Imager, then start the Imager. 2. If the error persists, call for service. |
| 20156 | Incompatible Software Versions Installed | <ol style="list-style-type: none"> 1. Shut down the Imager, then start the Imager. 2. If the error persists, call for service. |
| 20209 | Laser Imager Opened During Self Test | <ol style="list-style-type: none"> 1. Close the hood or the open cover. 2. Shut down the Imager, then start the Imager. 3. If the error persists, call for service. |
| 20449 | none | <ol style="list-style-type: none"> 1. Change the charcoal filter. 2. Press and hold, for 5 seconds, the Maintenance Reset LED/Button on the local panel. 3. Press and hold, for 5 seconds, the lower LED/Button adjacent to the code for resetting the counts to filter change. The preventive maintenance icon and condition code are cleared, and the display screen returns to normal operation. |
| 20701 | none | <ol style="list-style-type: none"> 1. Close the hood or the open cover. |
| 20702 | none | <ol style="list-style-type: none"> 1. Install the missing film tray. |
| 20703 | none | <ol style="list-style-type: none"> 1. Press and hold, for 5 seconds, the Maintenance Reset LED/Button on the local panel. 2. Press and hold, for 5 seconds, the Maintenance Reset LED/Button again to delete the jobs in the Undeliverable Jobs Queue. |
| 20705 | none | <ol style="list-style-type: none"> 1. None. A user-initiated system restart is in progress. Wait for the Imager to complete its startup sequence before attempting any other action. |

Table 3-5: Condition Codes (Cont'd)

| Code | Web Portal Message | User Action |
|----------------|---|--|
| 20706 | none | 1. Turn the Imager power OFF. |
| 20915 | Internal Image Data Transfer Failed | 1. Shut down the Imager, then start the Imager. 2. If the error persists, call for service. |
| 20919 | Internal Image Data Render Failed | 1. Shut down the Imager, then start the Imager. 2. If the error persists, call for service. |
| 21000 or 23000 | none | None. The film supply requires attention due to an error. The specific error is reflected by a separate code. |
| 21001 or 23001 | none | None. The film supply needs calibration before it can be used. |
| 21002 or 23002 | none | None. The film supply is operating in "manual mode", which means the image quality is not within the normal range. |
| 21003 or 23003 | none | 1. Remove the film saver or the film bag. |
| 21004 or 23004 | none | 1. Install a film saver before removing the film tray. |
| 21116 or 23116 | Film Jam in Area 1: xxxxx Supply | See " Film Jam - Code 2x-116 ". |
| 21118 or 23118 | xxxxx Supply: Internal Hardware Failure | 1. Cover the film tray with the film saver. Remove the tray from the Imager. 2. Re-insert the film tray and remove the film saver. 3. If the error persists, call for service. |
| 21119 or 23119 | xxxxx Supply: Internal Hardware Failure | 1. Cover the film tray with the film saver. Remove the tray from the Imager. 2. Re-insert the film tray and remove the film saver. 3. If the error persists, call for service. |

Table 3-5: Condition Codes (Cont'd)

| Code | Web Portal Message | User Action |
|-------------------|--|---|
| 21122 or 23122 | xxxxx Supply: Internal Hardware Failure | <ol style="list-style-type: none"> 1. Cover the film tray with the film saver. Remove the tray from the Imager. 2. Take the film tray to a dark room and remove the film saver. Verify that the film is lying flat. Replace the film saver. 3. Re-insert the film tray and remove the film saver. 4. If this error repeats, try a new film pack. 5. If the error persists, call for service. |
| 21125 or 23125 | xxxxx Supply: Internal Hardware Failure | <ol style="list-style-type: none"> 1. Cover the film tray with the film saver. Remove the tray from the Imager. 2. Re-insert the film tray and remove the film saver. 3. If the error persists, call for service. |
| 21126 or 23126 | Film Jam in Area 1: xxxxx Supply | See “Film Jam - Code 2x126” . |
| 21130 or 23130 | xxxxx Supply: Internal Hardware Failure | <ol style="list-style-type: none"> 1. Cover the film tray with the film saver. Remove the tray from the Imager. 2. Re-insert the film tray and remove the film saver. 3. If the error persists, call for service. |
| 21131 or 23131 | xxxxx Supply: Internal Hardware Failure | <ol style="list-style-type: none"> 1. Cover the film tray with the film saver. Remove the tray from the Imager. 2. Re-insert the film tray and remove the film saver. 3. If the error repeats, shut down the Imager, then start the Imager. 4. If the error persists, call for service. |
| 21139 or 23139 | xxxxx Supply: Unable to Identify Film Pack | <ol style="list-style-type: none"> 1. Try a different film pack. 2. If the error persists, call for service. |
| 21145 or 23145 | xxxxx Supply: Unsupported Film Type | <ol style="list-style-type: none"> 1. The Imager has not been configured to use this film type. 2. Try a different film type or reconfigure the Imager. 3. If the error persists, call for service. |
| 21146 or 23146 | xxxxx Supply: Unsupported Film Size | <ol style="list-style-type: none"> 1. The Imager has not been configured to use this film size. 2. Try a different film size or reconfigure the Imager. 3. If the error persists, call for service. |

Table 3-5: Condition Codes (Cont'd)

| Code | Web Portal Message | User Action |
|-------------------|--|--|
| 21624 or 23624 | xxxxx Supply: Film Calibration Failure | <ol style="list-style-type: none"> 1. Try a different film pack. 2. If the error repeats, shut down the Imager, then start the Imager. 3. If the error persists, call for service. |
| 21631 or 23631 | xxxxx Supply: Film Calibration Failure - Dmin Outside Target | <ol style="list-style-type: none"> 1. The minimum density of the film is too high. Calibration results for this film are outside the normal range, but will still be used. 2. If you do not wish to use these calibration results, perform a new calibration on this film or try another film pack. |
| 21632 or 23632 | xxxxx Supply: Film Calibration Failure - Dmax Outside Target | <ol style="list-style-type: none"> 1. The maximum density of the film is lower than the target density. Calibration results for this film are outside the normal range, but will still be used. 2. If you do not wish to use these calibration results, perform a new calibration on this film or try another film pack. |
| 25922 | RF Tag: Internal Diagnostic Failure | <ol style="list-style-type: none"> 1. Shut down the Imager, then start the Imager. 2. If the error persists, call for service. |
| 25931 | RF Tag: Internal Communications Failure | <ol style="list-style-type: none"> 1. Shut down the Imager, then start the Imager. 2. If the error persists, call for service. |
| 26325 | Film Jam in Area 2 | See “Film Jam - Code 26325” . |
| 26326 | Film Jam in Area 2 or 3 | See “Film Jam - Codes 26326 or 26543” . |
| 26543 | Film Jam in Area 3 | See “Film Jam - Codes 26326 or 26543” . |
| 26544 | Film Jam in Area 3 | See “Film Jam - Code 26544” . |
| 26931 | Film Transport: Internal Communications Failure | <ol style="list-style-type: none"> 1. Shut down the Imager, then start the Imager. 2. If the error persists, call for service. |
| 26933 | Film Transport: Internal Communications Failure | <ol style="list-style-type: none"> 1. Shut down the Imager, then start the Imager. 2. If the error persists, call for service. |
| 27123 | Optics: Internal Hardware Failure | <ol style="list-style-type: none"> 1. Shut down the Imager, then start the Imager. 2. If the error persists, call for service. |
| 27601 | Optics: Calibration Failed | <ol style="list-style-type: none"> 1. Shut down the Imager, then start the Imager. 2. If the error persists, call for service. |

Table 3-5: Condition Codes (Cont'd)

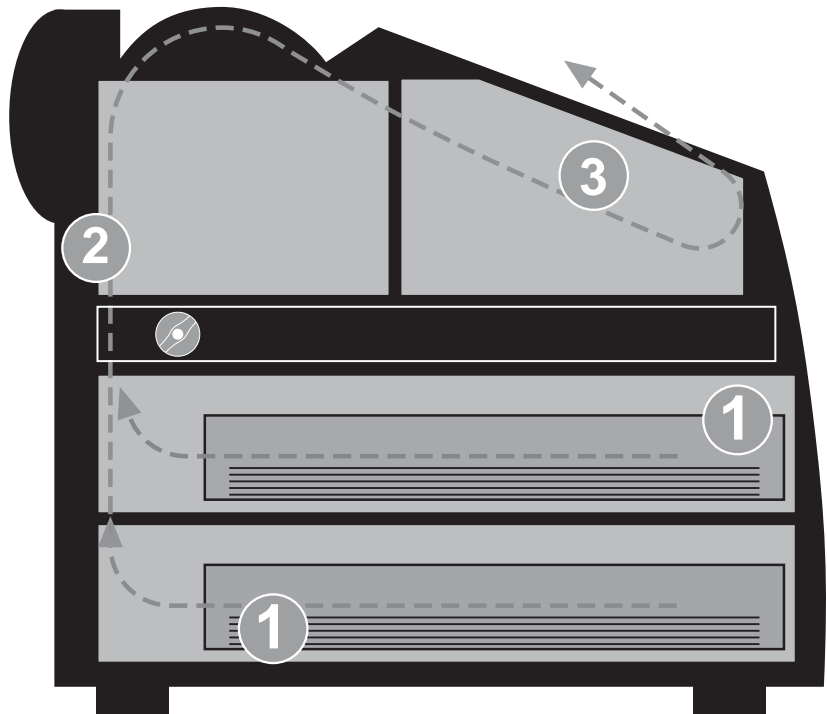
| Code | Web Portal Message | User Action |
|-------|---|--|
| 27604 | Optics: Calibration Failed | <ol style="list-style-type: none"> 1. Shut down the Imager, then start the Imager. 2. If the error persists, call for service. |
| 27607 | Optics: Calibration Failed | <ol style="list-style-type: none"> 1. Shut down the Imager, then start the Imager. 2. If the error persists, call for service. |
| 27611 | Optics: Internal Hardware Failure | <ol style="list-style-type: none"> 1. Shut down the Imager, then start the Imager. 2. If the error persists, call for service. |
| 27646 | Optics: Internal Hardware Failure | <ol style="list-style-type: none"> 1. Shut down the Imager, then start the Imager. 2. If the error persists, call for service. |
| 27650 | Optics: Internal Hardware Failure | <ol style="list-style-type: none"> 1. Shut down the Imager, then start the Imager. 2. If the error persists, call for service. |
| 27931 | Optics: Internal Communications Failure | <ol style="list-style-type: none"> 1. Shut down the Imager, then start the Imager. 2. If the error persists, call for service. |
| 28154 | Processor: Internal Communications Failure | <ol style="list-style-type: none"> 1. Shut down the Imager, then start the Imager. 2. If the error persists, call for service. |
| 28155 | Processor: Internal Communications Failure | <ol style="list-style-type: none"> 1. Shut down the Imager, then start the Imager. 2. If the error persists, call for service. |
| 28501 | Processor: Internal Hardware Failure | <ol style="list-style-type: none"> 1. Shut down the Imager, then start the Imager. 2. If the error persists, call for service. |
| 28509 | Processor Warm-up Failure | <ol style="list-style-type: none"> 1. Shut down the Imager, then start the Imager. 2. If the error persists, call for service. |
| 28510 | Processor: Internal Hardware Failure | <ol style="list-style-type: none"> 1. Shut down the Imager, then start the Imager. 2. If the error persists, call for service. |
| 28551 | Processor Heater Failure | <ol style="list-style-type: none"> 1. Shut down the Imager, then start the Imager. 2. If the error persists, call for service. |
| 28554 | Processor Over Temperature | <ol style="list-style-type: none"> 1. Shut down the Imager, then start the Imager. 2. If the error persists, call for service. |
| 28931 | Processor: Internal Communications Failure | <ol style="list-style-type: none"> 1. Shut down the Imager, then start the Imager. 2. If the error persists, call for service. |
| 29154 | Densitometer: Internal Communications Failure | <ol style="list-style-type: none"> 1. Shut down the Imager, then start the Imager. 2. If the error persists, call for service. |

Table 3-5: Condition Codes (Cont'd)

| Code | Web Portal Message | User Action |
|-------------|---|--|
| 29924 | Densitometer: Internal Diagnostic Failure | 1. Shut down the Imager, then start the Imager. 2. If the error persists, call for service. |
| 29925 | Densitometer: Internal Diagnostic Failure | 1. Shut down the Imager, then start the Imager. 2. If the error persists, call for service. |
| 29926 | Densitometer: Internal Diagnostic Failure | 1. Shut down the Imager, then start the Imager. 2. If the error persists, call for service. |
| 29927 | Densitometer: Internal Diagnostic Failure | 1. Shut down the Imager, then start the Imager. 2. If the error persists, call for service. |
| 29931 | Densitometer: Internal Communications Failure | 1. Shut down the Imager, then start the Imager. 2. If the error persists, call for service. |
| 36931 | Local Panel: Internal Communications Failure | 1. Shut down the Imager, then start the Imager. 2. If the error persists, call for service. |
| 36935 | Local Panel: No Communications from MCS | 1. Shut down the Imager, then start the Imager. 2. If the error persists, call for service. |

Clearing Film Jams

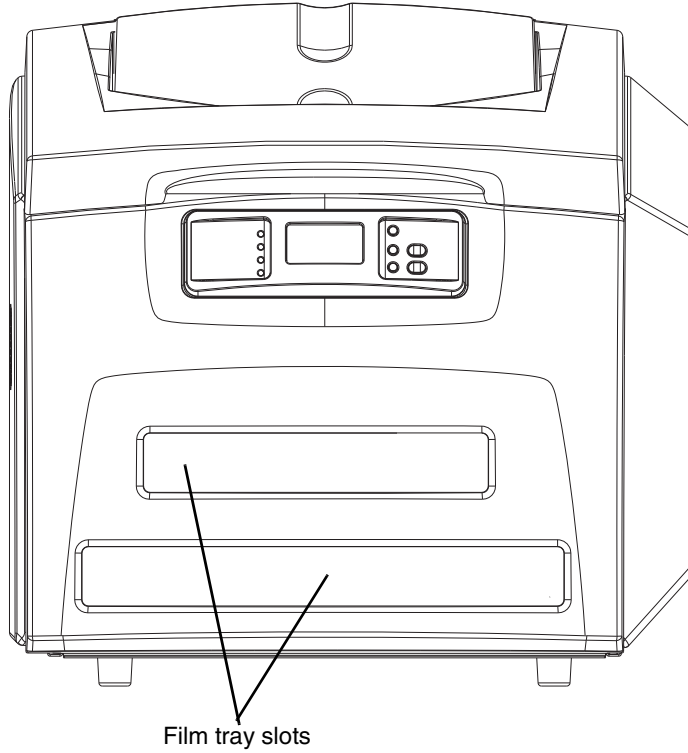
⚠ CAUTION:
Shutting off power to clear a film jam is not required.



Jam Areas and Film Path

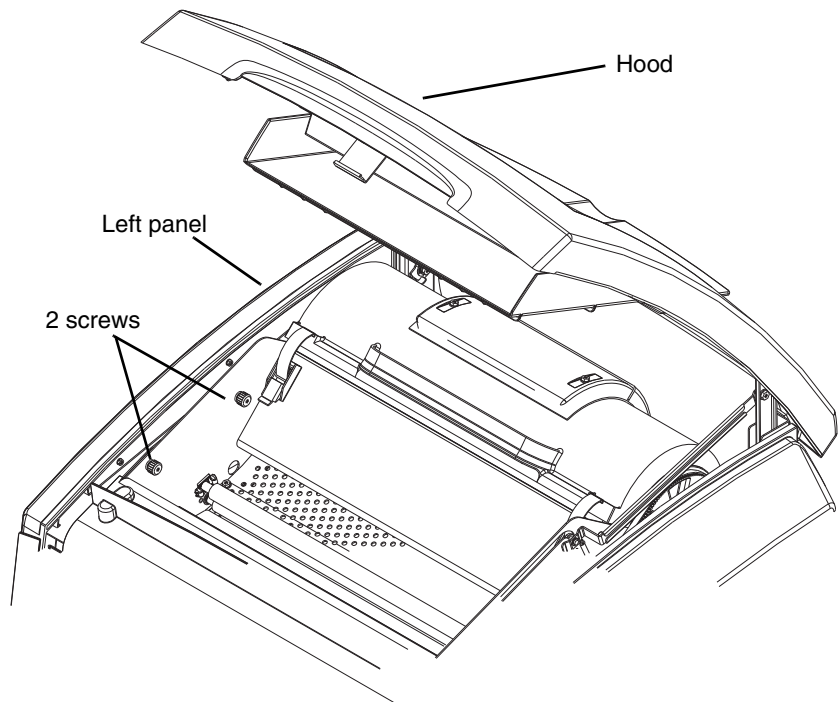
**Film Jam - Code
2x-116**

1. Remove the film trays (see [“Inserting the Film Saver and Removing the Film Tray”](#)).

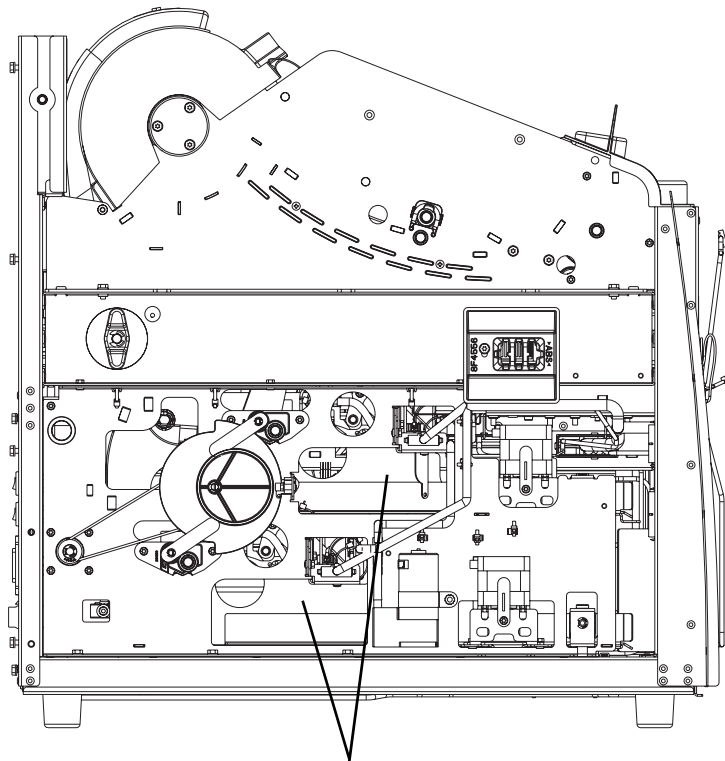


2. Remove any misplaced films from Area 1. This area can be accessed through the film trays slots.

NOTE: If the film is not accessible from the front of the Imager, continue with [Step 3](#).



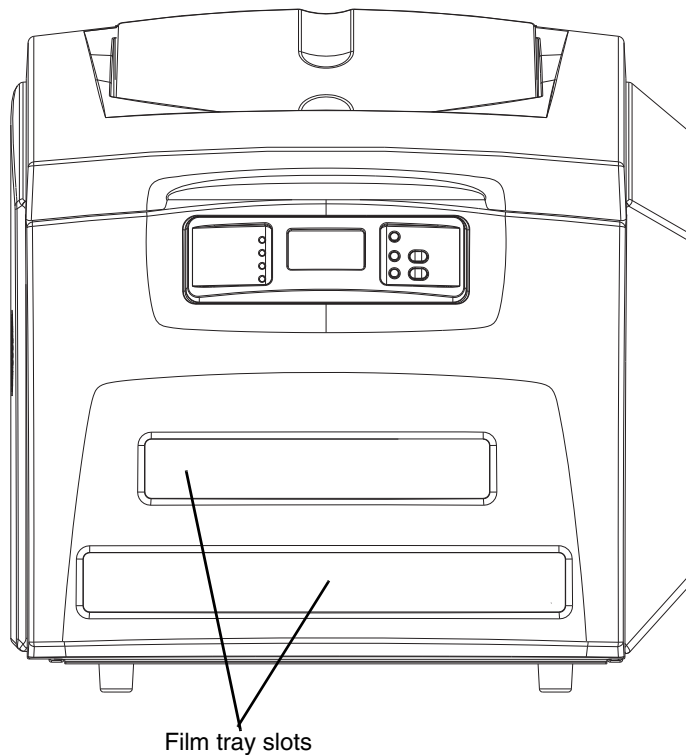
3. Open the hood.
4. Loosen the 2 screws and remove the left panel



5. Remove any misplaced films seen in the pickup access areas.
6. If Area 1 did not contain misplaced films, take the film trays to a dark room and remove the film saver. Remove any misplaced films and cover the tray with the film saver.
7. Set the left panel in place and tighten the 2 screws.
8. Close the hood.

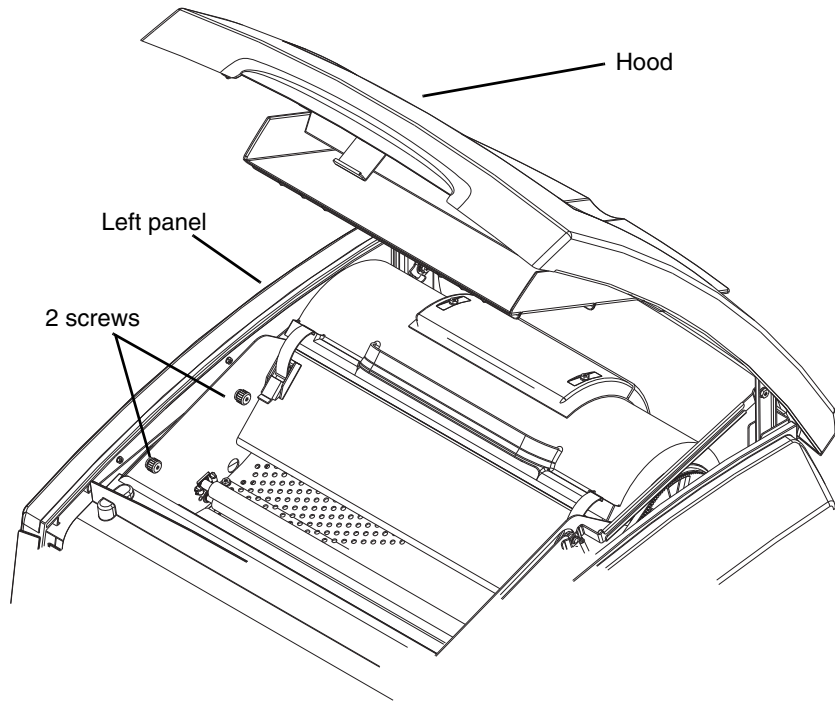
Film Jam - Code 2x126

1. Remove the film trays (see [“Inserting the Film Saver and Removing the Film Tray”](#)).

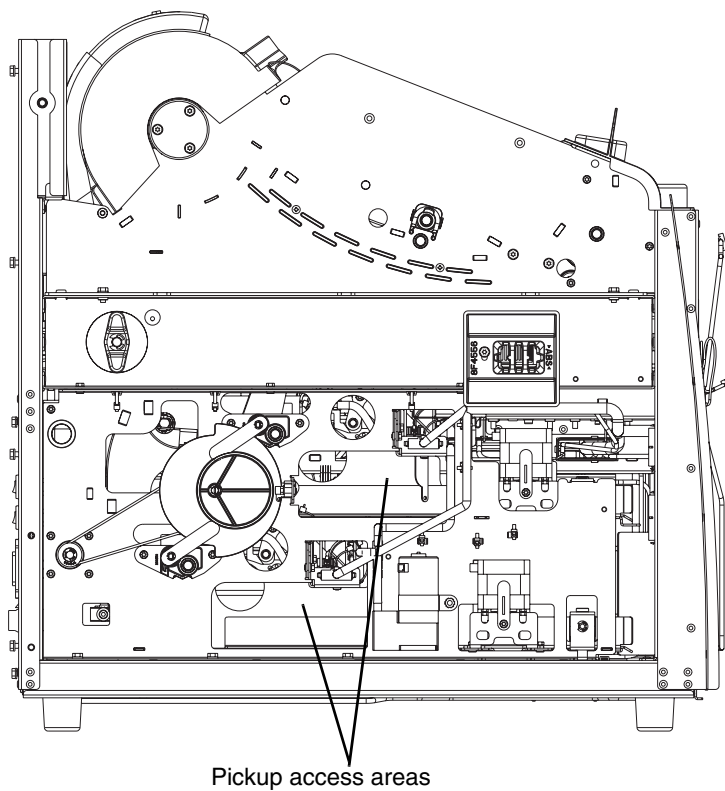


2. Remove any misplaced films from Area 1. This area can be accessed through the film trays slots.
3. If Area 1 did not contain misplaced films, take the film trays to a dark room and remove the film saver. Remove any misplaced films and replace the film saver.
4. If misplaced films were not found in the tray, open and close the Imager hood. Wait 2 minutes for misplaced films to emerge from the Imager.

If misplaced films were never located and this error recurs on the next film, continue with [Step 5](#).



5. Open the hood.
6. Loosen the 2 screws and remove the left panel.



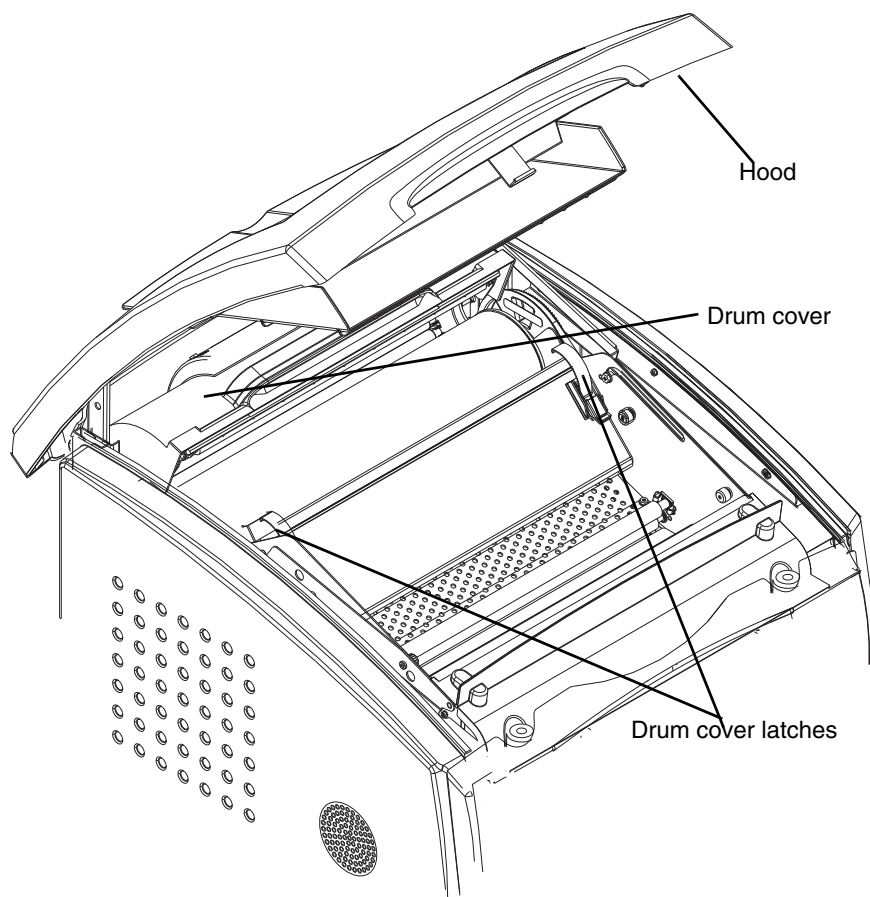
7. Remove any misplaced films seen in the pickup access areas.
8. Set the left panel in place and tighten the 2 screws.
9. Close the hood.

Film Jam - Code 26325

IMPORTANT: If this error occurred at the same time as 2x-126, follow the instructions for “Film Jam - Code 2x126”.

1. If this error occurred alone, open and close the hood to clear the error.
2. If this error repeats, restart the Imager.

Film Jam - Codes 26326 or 26543

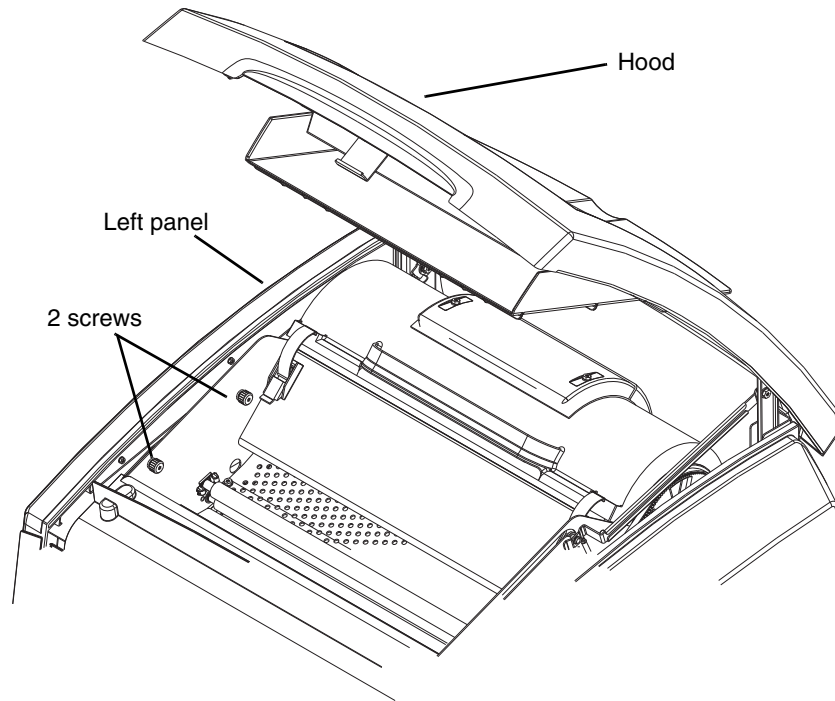


1. Open the hood.
2. Remove any misplaced films.

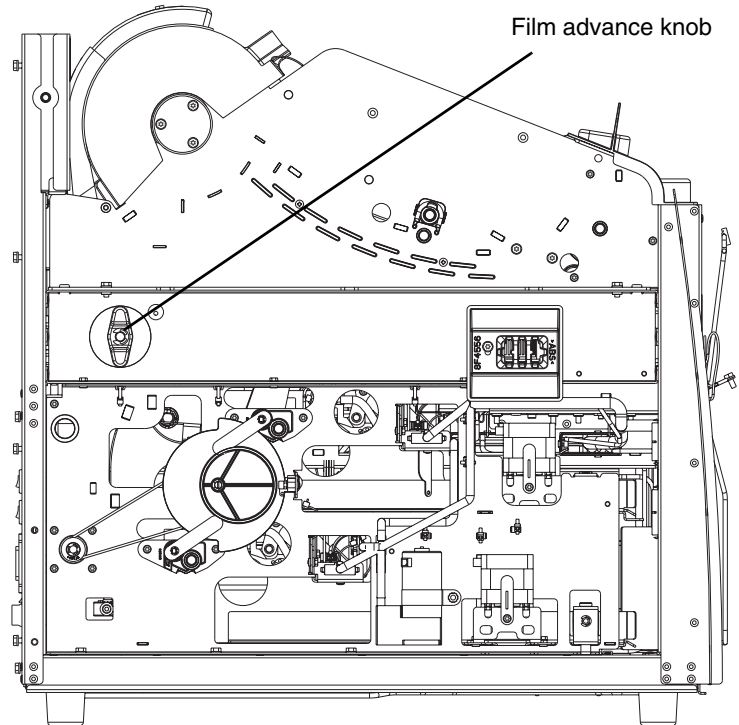
⚠ CAUTION:
Hot surface.

3. Undo the drum cover latches and lift the drum cover.

4. Carefully remove any films found in the drum area.
5. Close the drum cover and secure the cover latches.
If the film was not found in the drum area, continue with [Step 6](#).



6. Open the hood.
7. Loosen the 2 screws and remove the left panel.



8. Use the manual advance knob to move the film through the processor.
9. Set the left panel in place and tighten the 2 screws.
10. Close the hood.

If film was not previously removed, the misplaced films will emerge from the IMAGER within 2 minutes.

**Film Jam - Code
26544**

1. Remove any films jammed in the imager film exit.
2. Open the hood and remove any films in Area 2.
3. Close the hood.

Calling for Support

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

- Model Number: 5800
- K-Number
- Condition code and message if they are shown on the display screen and Web Portal.

Table 3-6: Service Phone Numbers

| Country | Phone Number |
|---------------------------|--------------------------------------|
| Argentina | 0800 7776872 |
| 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 7701540 |
| Canada | 1-800-268-1567 |
| Chile | 800200645 |
| Peoples Republic of China | 800 820 5800 400 820 5800 |
| Columbia | 018009520307 |
| Cyprus | 00 352 497777 |
| Czech Republic | 420 236 100 307 420 62 335 426 |
| Denmark | 45 70206129 |
| Finland | 35.80012140 |
| France | 01 7793 5001 |
| Germany | 0180.3000.307 |
| Greece | 0030 210 6189280 |
| India | 1600 118989 |
| Ireland | 00.44870 6000245 |
| Israel | 00 972 3 9254040 |
| Italy | 39.02.66098.000 |
| Japan | 0120-45-1881 |
| Jordan | 00 962 6 4545845 00 962 6 4543354 |
| Mexico | 018003661200 |
| Netherlands | +31-35-53 90102 |
| New Zealand | 0800 563636 |
| Norway | 47.66816019 |

Table 3-6: Service Phone Numbers (Cont'd)

| Country | Phone Number |
|-----------------------|--|
| Pakistan | 00 92 21 2638881 |
| Palestinian Territory | 00 970 92387421 |
| Paraguay | 54-3327-458-195 54-3327-458-163 |
| Peru | 80051853 |
| Portugal | 351 21 414 7642 |
| Puerto Rico | 18669430227 |
| Qatar | 00 974 4469 830 00 974 4360 820 |
| Romania | 00 40 1210 3854 |
| Russian Federation | 7 495 660 5695 |
| Saudi Arabia | 00 966 2 682 8219 00 966 1 464 5064 |
| Spain | 902 19 03 99 +34 915096722 +34 915096723 |
| Sweden | 460200119474 |
| Switzerland | (0041) 0800 804 001 (French) (0041) 0800 804 000 (German) |
| Syria | 00 963 112128600 |
| Tajikistan | 00 90 216 578 2600 |
| Turkey | 90 216 572 54 33 |
| Turkmenistan | 00 90 216 578 2600 |
| United Arab Emirates | 00 971 6 746 6751 00 971 6 746 6285 |
| United Kingdom | 00 44870 6000245 |
| United States | 800-328-2910 |
| Venezuela | 800 1005394 |

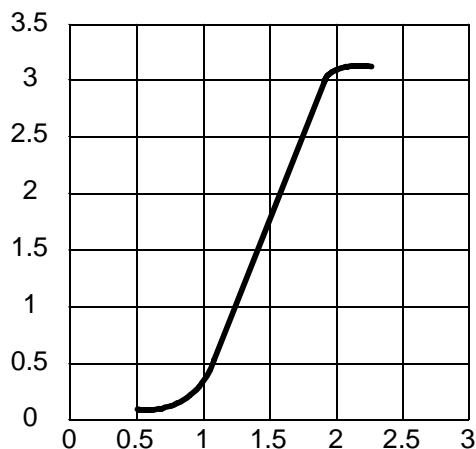
4 Film Technical Information

General Description

This section describes the characteristics of DRYVIEW Laser Imaging Film, not the operation of the 5800 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, clear, and mammography 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 alphanumeric and optimum contrast. This high-quality, silver-based film provides health care providers 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 | | | | DRYVIEW Film |
| | Developer | Fixer | Wash | Film | Film |
| 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. | | | | | |
| * State and local laws vary. Consult appropriate regulations or authorities prior to disposal. | | | | | |

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.

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), Carestream Health, Inc. 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 two to 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 Carestream Health, Inc. sales representative or go to the Carestream Health Web site at www.carestreamhealth.com.

5 Specifications

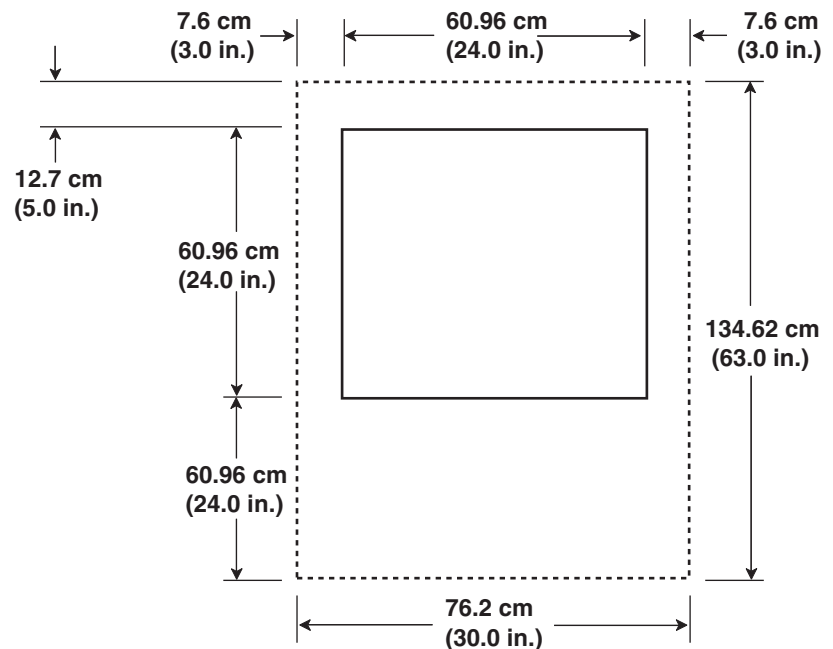
Location

Equipment Specifications

| | Unpacked | Packed |
|--------|---|----------------------|
| Height | 62 cm (24.25 in.) | 95.25 cm (32.0 in.) |
| Width | 62 cm (24.25 in.) | 81.6 cm (32.125 in.) |
| Depth | 66 cm (26.0 in.) without film trays 76 cm (30 in.) with film trays | 106.7 cm (42.0 in.) |
| Weight | 70 kg (155 lbs) | 147.4 kg (325 lbs) |

Operating Space Requirements

The following is the minimum space required around the Imager to perform normal operator functions. Service functions will require more space.



Other Location Considerations

Additional factors that influence where the Imager is located include proximity to patients, flammable materials, liquids, and other equipment.



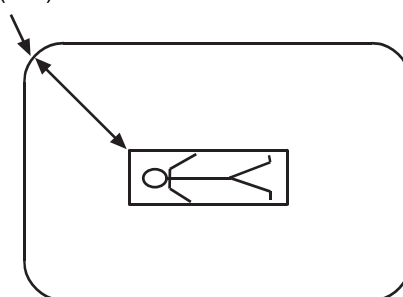
CAUTION:

This equipment is not contained in a sealed cabinet. Do not use this equipment in locations where it can come in contact with liquids, including body fluids.

IMPORTANT:

- This equipment is intended to connect to other medical devices. Only an authorized Service Provider of Carestream Health, Inc. Products or Customer Qualified Service Personnel may install this equipment.
- Do not locate the Imager within 2 m (6.56 ft.) of where a cell phone will be used, even if the cell phone is separated from the equipment by a wall.
- Do not locate the Imager within 4 m (13.12 ft.) of a microwave oven. Electromagnetic radiation from a microwave oven is only an issue if, after the oven door is closed and latched, the seal does not maintain an electromagnetic tight fit between the oven door and the oven main housing. Determining if the seal has an electromagnetic tight fit requires special detection equipment.
- Do not locate the Imager in the presence of flammable anesthetics, oxygen, or nitrous oxide. The Imager does not have a gas-sealed electronics enclosure and could ignite any flammable or explosive gases present in the Imager's environment.
- Do not locate the Imager in close contact with MRI devices due to possible high magnetic fields near an MRI unit. The magnetic field in the area where the Imager is installed must be less than 50 Gauss.

1.83 m (6 ft.)



- Do not locate the Imager closer than 1.83 m (6 ft.) from a patient bed or chair.
- Do not substitute or modify any part of the Imager without prior written approval of Carestream Health, Inc.

Environmental Requirements

Temperature

- Operating: 15° to 33° C (59° to 91° F)
- Storage: -40° to 60° C (-40° to 140° F)

Relative Humidity

- Operating: 20% to 80% RH, noncondensing
- Storage: 10% to 90% RH, noncondensing

Altitude

- 30 m (100 ft.) below sea level to 3,048 m (10,000 ft.) above sea level

Surface Condition

The surface must be a level (must be level within 1°) table top or counter capable of supporting the weight of the Imager. For the Imager to operate with no image degradation, surface vibration levels cannot exceed the following:

| G²/Hz | Freq. Range | Direction |
|-------------------------|--------------------|------------------------|
| 1 x 10 ⁻⁷ | 1-50 Hz | Vertical or horizontal |
| 6 x 10 ⁻⁵ | 50-200 Hz | Vertical or horizontal |
| 5 x 10 ⁻⁶ | 200-650 Hz | Vertical or horizontal |
| 1 x 10 ⁻⁶ | 650-1000 Hz | Vertical or horizontal |

Environmental Effects

- Heat Dissipation: total heat dissipation for the Imager is 850 BTU/hour
- Acoustical Noise:
 - Less than or equal to 75 dB-A at 1 m during a sound burst of 1 sec. or less
 - Less than or equal to 65 dB-A at 1 m during normal operation
 - Less than or equal to 50 dB-A at 1 m during idle mode

Laser Specifications

- Wavelength - 810 nm
- Power - 50 mW
- Radiation class - 3B
- Type - Diode

Power Requirements

The Imager power supply has an auto-sensing and auto-switching feature for both voltage and frequency. The current draw is 10 A at 120 V AC, and the power consumption is a maximum of 1275 W.

One of the following single-phase, 15 A power sources, with grounding, must be provided within 2.5 m (8 ft.) of the Imager.

| Area | Power |
|---------------|--|
| North America | 120 V AC +6% to -10%, 60 Hz \pm 3Hz |
| Europe | 240 V AC \pm 10%, 50 Hz \pm 3Hz |
| China | 250 V AC \pm 10%, 50/60 Hz \pm 3Hz |

The wire must be insulation-rated for 600 V. A dedicated line is recommended.

Network Requirements

The Imager receives digital images from medical imaging devices (modalities) over a 10Base-T or 100Base-T ETHERNET Network. A single CAT 5 UTP cable is provided in the accessories package for the Imager; 2 m (6.5 ft.).

Film

Prior to installation you must order and have on hand DRYVIEW Laser Imaging Film. Contact your sales representative if you have questions.

Film Types

The Imager accommodates the following film types:

- KODAK DRYVIEW DVB Laser Imaging Film
- KODAK DRYVIEW DVC Laser Imaging Film
- KODAK DRYVIEW DVB+ Laser Imaging Film
- KODAK DRYVIEW DVB+ Premium Laser Imaging Film

NOTE: Not all film types are available in every country.

Film Sizes

The Imager accommodates the following film sizes:

- 20 x 25 cm (8 x 10 in.)
- 25 x 30 cm (10 x 12 in.)
- 28 x 35 cm (11 x 14 in.)
- 35 x 35 cm (14 x 14 in.)
- 35 x 43 cm (14 x 17 in.)

Film Storage

Film must be stored at 5 - 25° C (41 - 77° F) and 85% RH or less.

Glossary

| | |
|---------------------------|--|
| CR | Computed Radiography, the process of creating digital radiographic images. |
| CT | Computed Tomography, the process of creating digital tomographic images. |
| Cycle power | 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. |
| DR | Digital radiography, the process of creating digital radiographic images. |
| 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. |
| PLUT | Presentation Look-Up Table. |
| 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. |
| 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. |

Appendix A: Warranty and Limitation of Liability

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