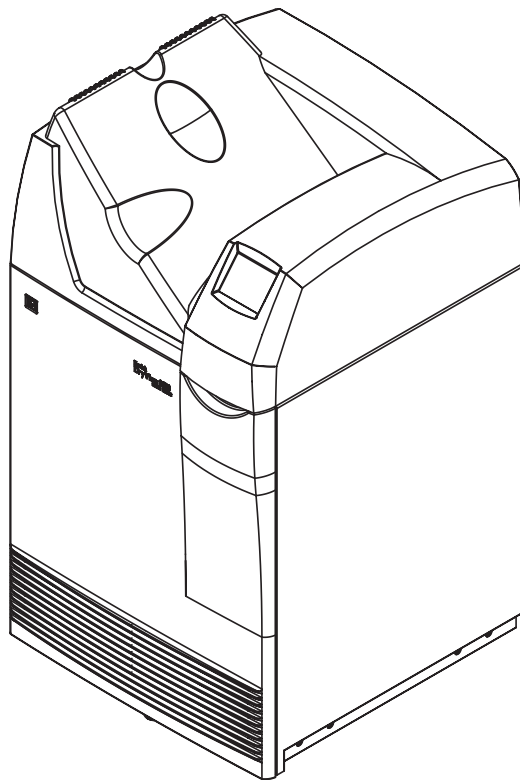


Kodak DryView **8150 Laser Imager**



User Guide



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1 Introduction

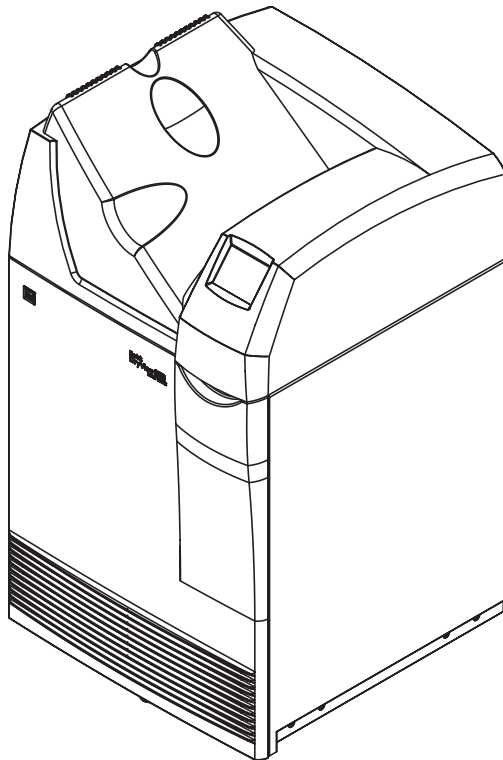
Kodak DryView 8150 **Laser Imager**

The *Kodak DryView 8150* 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 Imager prints images on *Kodak DryView* Laser Imaging Film that is packed in 125-sheet cartridges. The Imager can accept blue or clear base film in any of the following sizes:

- 11 x 14 in. *DryView* Film (28 x 35 cm)
- 14 x 14 in. *DryView* Film (35 x 35 cm)
- 14 x 17 in. *DryView* Film (35 x 43 cm)

Only one film size can be loaded in the Imager at a time.



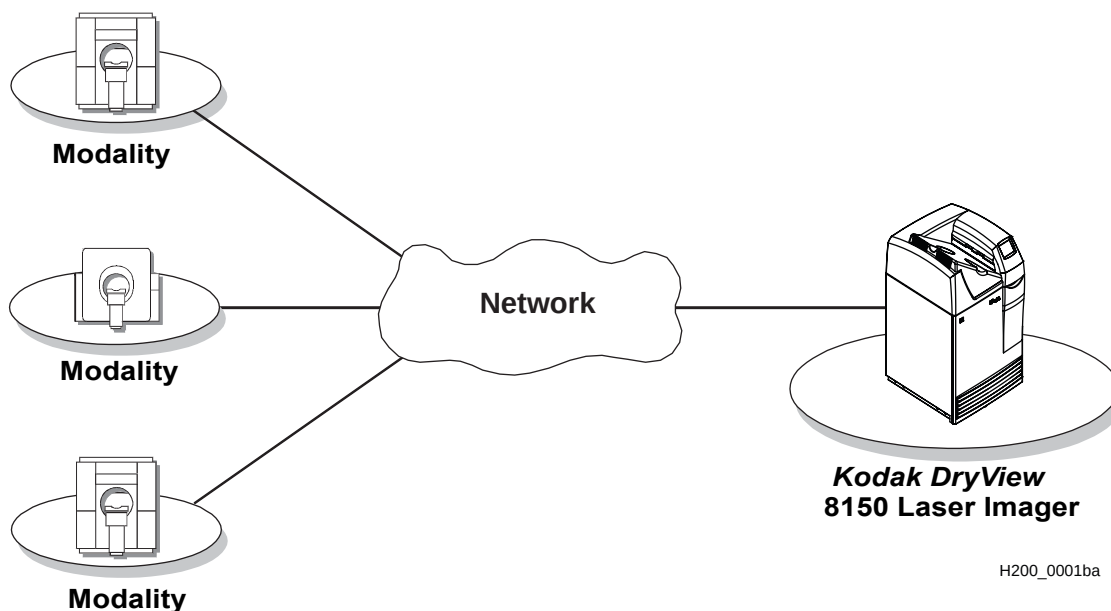
H200_0036CAA

8150 Laser Imager

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 up to twelve medical imaging devices or workstations sending images concurrently.

Image Source Devices



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.

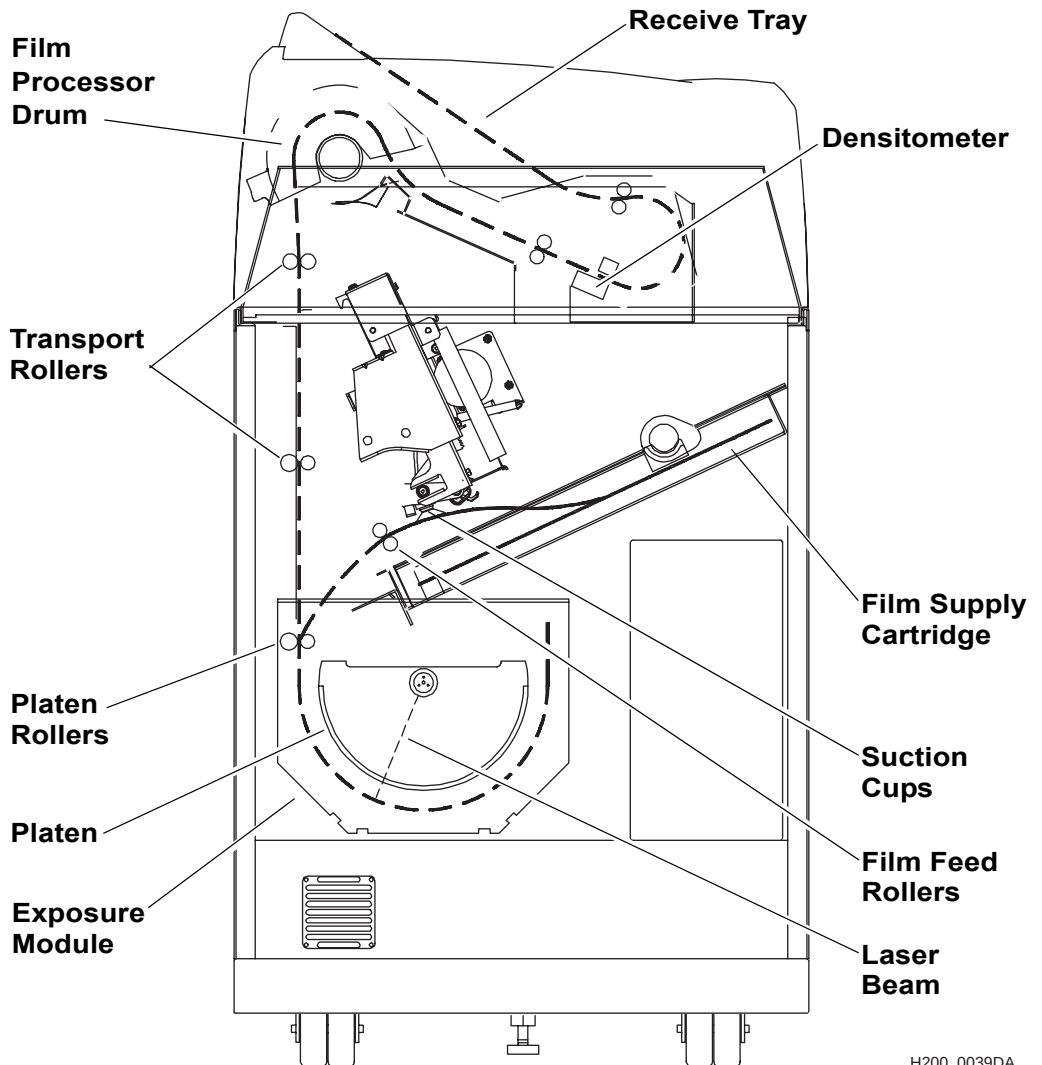
Images that require a different film size or film type than is currently in the Imager are placed in a separate "waiting for media" queue and a message on the Local Panel reminds the operator to change film.

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 images by the modalities, such as film size, density and priority, control the print operations. Main operator responsibilities are loading film and monitoring for malfunctions.

Print Sequence

Each time the Imager prints a film, the following sequence occurs. (Refer to the diagram on the following page.)

1. Suction cups in the pickup area lift a single sheet of film out of the supply cartridge and feed the film into the film feed rollers.
2. The film feed rollers move the film down to the film platen (exposure module).
3. The platen rollers move the film into the film platen.
4. The platen holds the film stationary while a scanning laser beam exposes the film (writes the image onto the film).
5. After exposure, the platen rollers reverse direction and move the film up to the transport rollers. These rollers then move the film up into the film processor.
6. As the film passes over the rotating processor drum, heat from the drum develops the film.
7. Rollers move the developed film from the processor drum, through the densitometer and on to the receive tray.



H200_0039DA

Dashed line is the film path

Print Sequence

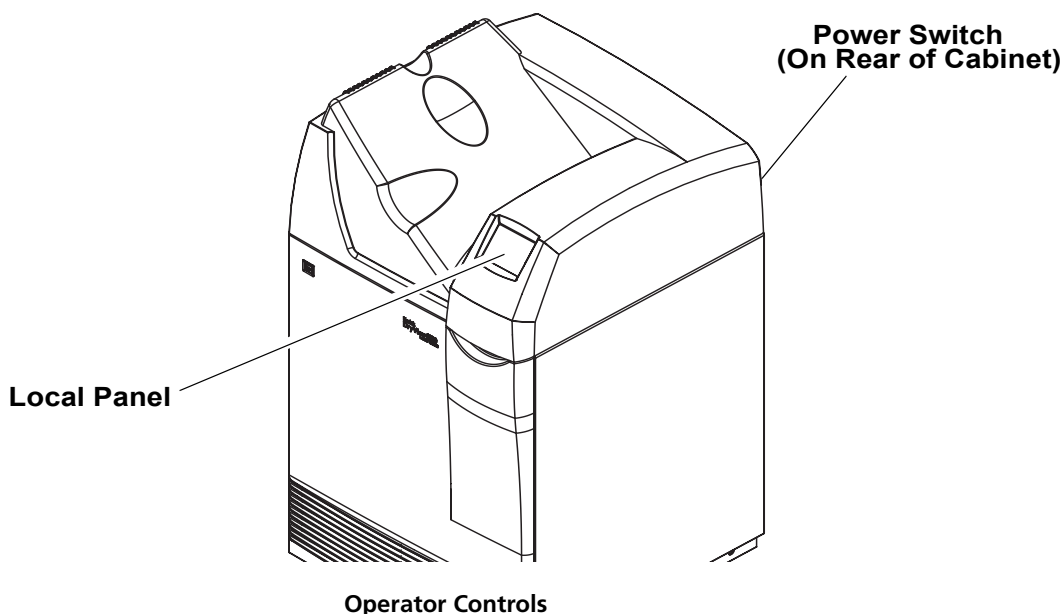
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2 Operation and Maintenance

Operator Control of the Imager

During normal operation, the *Kodak DryView 8150* Laser Imager receives and automatically prints images sent by modalities over a network. Very little operator control is required. The main operator responsibilities are:

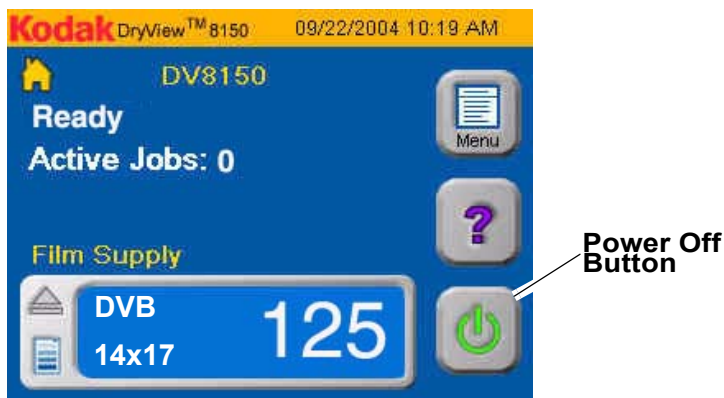
- Turn Imager power ON or OFF.
- Load film cartridges.
- Monitor the number of prints remaining until preventive maintenance is required.
- Monitor and control some Imager functions using the Local Panel.



Turning Imager Power ON and OFF

Power ON

The power switch is located on the back of the Laser Imager. To turn ON the Imager, set the power switch to the "I" position. The Imager performs a power-up self test that takes about five minutes. After some initial boot-up screens, the Local Panel **Home** screen appears.



Local Panel Home Screen

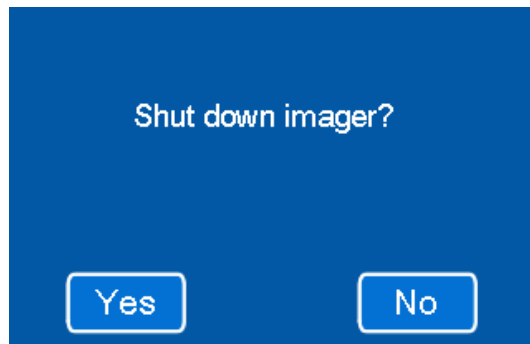
After the power-up test, the Imager begins a warm-up period that lasts up to 25 minutes. The warm-up period varies depending on how long the Imager has been turned OFF. During warm-up the Imager can receive and store images but cannot print films. When the Imager reaches operating temperature, it starts printing any images that have accumulated during the warm-up period.

During warm-up you can use the Local Panel to check the contents of the film cartridge and to open the front door to load a new film cartridge, if necessary.

Power OFF

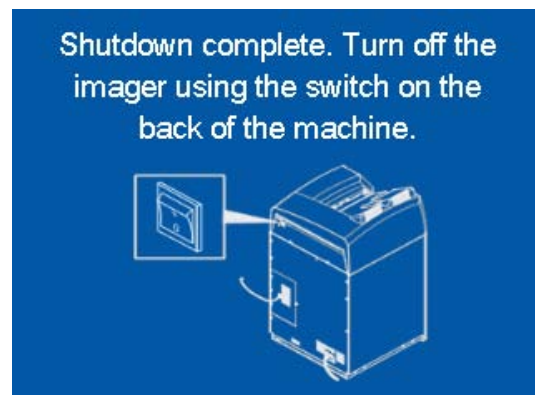
Turn the Imager OFF if you do not expect to use it for an extended period of time or to conserve electrical power.

1. Touch the **Power Off** button on the Home screen.



2. Touch **Yes**.

The following 2 screens are displayed while the Imager is shutting down software.



3. Set the power switch to the "O" (Off) position.

Power Failures

In the event of a power loss, the Laser Imager shuts down. Any films in process will not be completed.

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

Using the Touch Screen Local Panel

The Local Panel displays a collection of screens that you can use to monitor Imager operations and to control some Imager functions. You make menu selections and navigate between Local Panel screens by lightly touching buttons on the touch screen. There is a beep sound each time you touch a button. This sound can be disabled if you wish.

CAUTION:

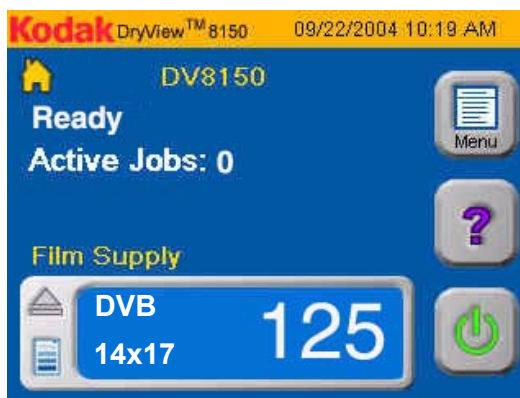
Use only your finger when selecting buttons on the screen. Using hard objects, such as pens or pencils, can damage the surface of the touch screen.

Home Screen

The **Home** screen appears after the initial startup screens. It provides status information about the current Imager operation and shows the contents of the film tray. From this screen you can navigate to all other Local Panel screens.

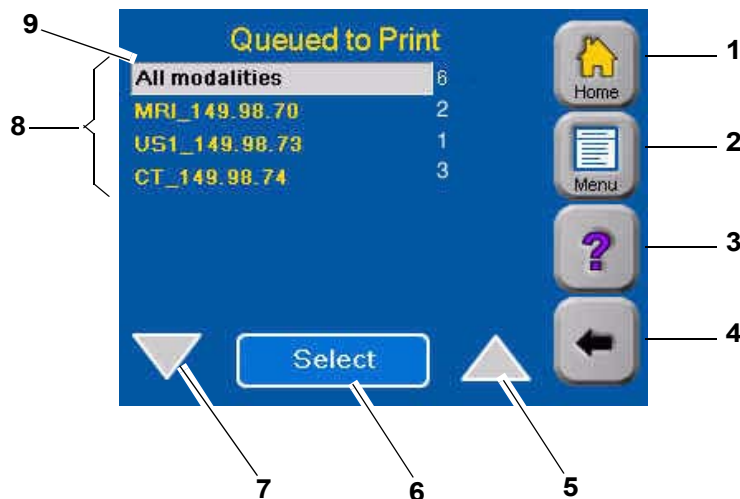
The Local Panel automatically returns to the **Home** screen from any other screen after a few minutes if there is no operator input to the touch screen.

For more information about the **Home** screen see [“Home Screen Description” on page 2-10](#).



Screen Controls

Many of the Local Panel screens have some or all of the buttons on the typical screen below. These buttons are used to navigate between the Local Panel screens and to select items from lists or menus.



Screen Controls

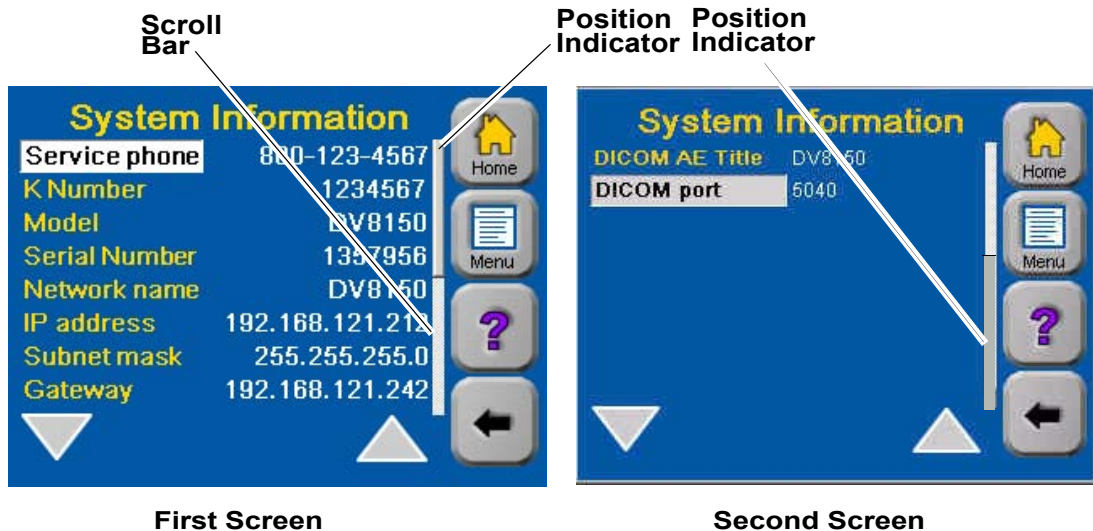
- 1 **Home button.** Returns to the Home screen.
- 2 **Menu button.** Displays the **Main Menu** screen. (See "[Main Menu](#)" on page 2-18.)
- 3 **Help button.** Displays **Help** information for the current screen or selected item.
- 4 **Back Arrow button.** Returns to the previous screen.
- 5 **Up Arrow button.** Moves the **Highlight** bar up to the next item in the list.
- 6 **Select button.** Selects the highlighted item in the list. This displays a screen related to the selected list item.
- 7 **Down Arrow button.** Moves the **Highlight** bar down to the next item in the list.

- 8 **List.** Several types of lists appear in Local Panel screens. Examples are menus, lists of print jobs and lists of modalities.

You select an item in a list using the **Up** and **Down** arrows and the **Select** button. Selecting an item displays another screen that presents information or choices related to the item you selected.

- 9 **Highlight Bar.** This gray bar identifies which one of the items in the list will be selected by the **Select** button. You can move the **Highlight Bar** with the **Up** and **Down** arrows.

When a list contains more items than can be displayed on a single screen, a second screen contains the last items in the list. A vertical bar indicates that there are two screens for the list. A position indicator shows if the screen displayed is the first or second screen. To move to the second screen, use the **Down** arrow to scroll beyond the last item on the first screen.



List Scroll Bar

Local Panel Help

The Local Panel has several types of Help information that explain most of the Local Panel functions. Touch the **Help** button to see a Help topic.

Screen Help

Most screens have a **Help** button that provides Help information for the screen and for buttons and other items on the screen

Local Panel Tutorial

On the **Home** screen, touch the **Help** button to see a list of brief tutorials about the Imager. There are four topics:

- Change Film
- Density Test
- Set Up Imager
- Open Front Door

Installation Assistants

The installation assistants lead the user through the setup procedures. There are two installation assistants:

- Installation Assistant - Used for first-time setup of the Imager.
- Modality Installation Assistant - Used when configuring the Imager for a specific modality.

Local Panel Passcodes

Some Local Panel functions can be performed only by users with passcodes. There are three types of Local Panel passcodes:

Key Operator Passcode	Lets Key Operators perform the following functions: • Delete print jobs • Perform some Local Panel setup functions • Disable printing • Enter the date of a filter change in the Service Log
Customer First Passcode	Lets Customer First-trained technicians select the PM (preventive maintenance) function on the Service screen. This records the date of a PM and resets the print count to zero.
Service Passcode	Lets installers and service technicians use all Local Panel functions except the PM (preventive maintenance) function on the Service screen.

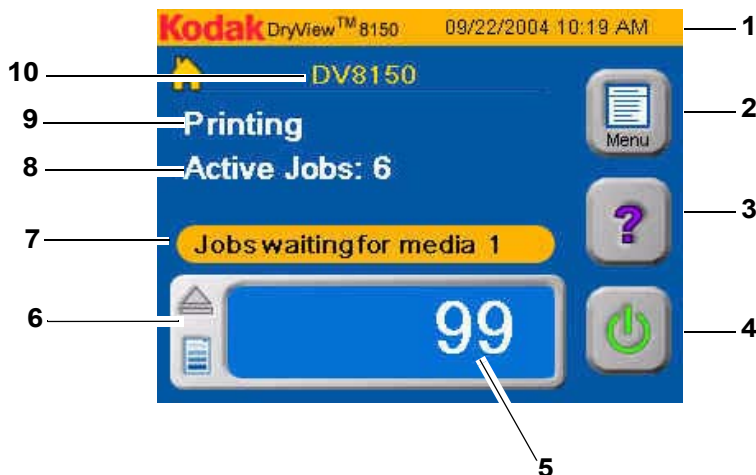
Users without passcodes can access most Local Panel features except:

- Imager setup functions.
- Service functions.

For more information on passcodes see [“Local Panel Passcodes” on page 2-57](#).

Home Screen Description

During the power-up self test, this is the first screen you see after the initial start-up screens. The Local Panel always returns to this screen after a few minutes if there are no operator selections on the touch screen.



- 1 **Title Bar.** Shows the **Date and Time**.
- 2 **Menu button.** Displays the **Main Menu**. (See [“Main Menu” on page 2-18.](#))
- 3 **Help button.** Displays Help information for the current screen. For the **Home** screen, this button also lets you view tutorials that explain the Local Panel functions.
From the **Home** screen Help you can also change the language for the **Home** screen
- 4 **Power Off button.** Displays a confirmation screen where you can select **Yes** to turn off the Imager or **No** to return to the **Home** screen.
NOTE: This button does not remove all power from the Imager. You must also turn OFF the power switch on the back of the Imager.
- 5 **Film Count.** The number of sheets remaining in the film cartridge.

6 Film Supply button. Touch to display the **Film Supply** screen which provides 3 choices:

- Open Front Door
- Calibrate Film
- Run Density Test

(See [“Film Supply Screen” on page 2-16.](#))

The **Film Supply** button also displays status information about the film supply within its outline. (See [“Film Supply Button Status Information” on page 2-12.](#))

7 Attention Notice. There are three attention notices:

- Jobs Waiting for Media
- PM due: Call Service
- Current Errors: X

See [“Home Screen Attention Notices” on page 2-15.](#)

8 Active Jobs. The number of print jobs in the Imager being printed and waiting to be printed.

9 Status Line. Several status messages about the current condition of the Imager can appear on this line. (See [“Home Screen Status Line” on page 2-14.](#))

10 Imager Name. The name given to the Imager when it was installed.

Film Supply Button Status Information

The **Film Supply** button displays information about the film supply with a combination of messages and color. The most common condition is:



This indicates a normal film supply (20 sheets or more).

The following table shows all of the status conditions that can be displayed in the **Film Supply** button.

Film Supply Button Status Combinations

Message in Film Supply Button	Background Color	Explanation
Film Count, Film type, and Size	Blue	Film normal (20 sheets or more).
Film Count, Film type, and Size	Yellow	Film low (Less than 20 sheets).
Film Count (0), Film type, and Size	Flashing Blue and Yellow	Film cartridge empty.
No Cartridge	Yellow	No film cartridge in the Imager.
Opening - Please Wait	Blue	The Imager is opening the film cartridge after the front door has been closed.
Calibrating - Please Wait	Blue	The Imager is running a calibration print.
Not Calibrated	Yellow	The AIQC system is not calibrated for the current film cartridge. Run a calibration print. See “Calibration Prints” on page 2-53.

Film Supply Button Status Combinations

Message in Film Supply Button	Background Color	Explanation
Fail	Flashing Blue and Yellow	The film cartridge has failed to open.

Home Screen Status Line

The following messages can appear on the Status Line:

Message	Explanation
Printing	Printing images from the print queue.
Ready	Ready to print. No images in the print queue for the currently loaded film size.
Self-test	The Imager is performing the power-up self test.
Warming =	The Imager is warming up. The number of minutes until the Imager will be at operating temperature is displayed after the = sign. The Imager can receive images but not print until fully warmed.
Door open requested	The operator has touched the Door Open button on the Local Panel. The door will be unlatched after the Imager closes the film cartridge and completes any films currently being processed.
Door open	The front door is open.
Hood open	The hood is open.
Not ready	The Imager cannot print.
Printing disabled	Printing has been disabled for service.

Home Screen Attention Notices

Three attention notices can appear on the Home Screen:

A yellow rectangular button with a blue border and rounded corners. The text "Jobs waiting for media: 1" is centered in black.

Jobs waiting for media: 1

This notice appears when there are 1 or more print jobs in the print queue that require a different size or type of film than is currently loaded. An audible alarm sounds when the number of jobs waiting for media goes from 0 to 1. Touch the screen anywhere to silence the alarm.

A yellow rectangular button with a blue border and rounded corners. The text "Current Errors: 1" is centered in black.

Current Errors: 1

This notice shows the number of errors that have not yet been corrected. Depending on the type of error(s), the Imager may not be able to continue printing or receiving messages. To see a list of current errors, touch **Menu** > **Current Errors**. The **Current Errors** screen will appear. (See [“Current Errors Screen” on page 2-29](#)).

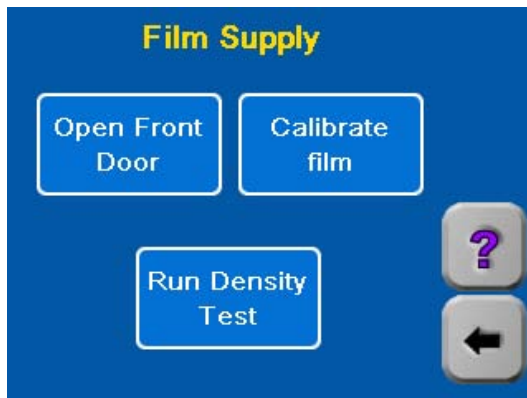
A yellow rectangular button with a blue border and rounded corners. The text "PM due: Call Service" is centered in black.

PM due: Call Service

This notice appears when the print count reaches a preset value. Preventive Maintenance should be performed. (See [“Preventive Maintenance” on page 2-69](#).)

Film Supply Screen

This screen provides three options related to the film supply in the Imager. To display this screen: **Home** > touch **Film Supply** button.

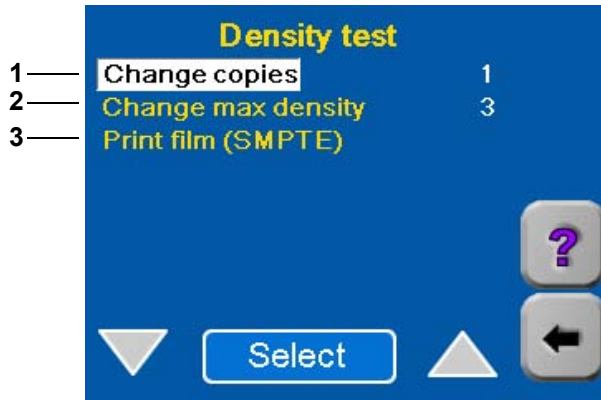


- | | |
|-------------------------|--|
| Open Front Door | Unlatches the front door after closing the film cartridge and completing any films in the film path. |
| Calibrate Film | Runs a calibration test print. (See “Calibration Prints” on page 2-53.) |
| Run Density Test | Displays the Density Test screen that lets you request a SMPTE test print. (See “Density Test Screen” on page 2-17.) |

Density Test Screen

This screen lets you to print one or more SMPTE density test pattern images. You can specify the maximum density.

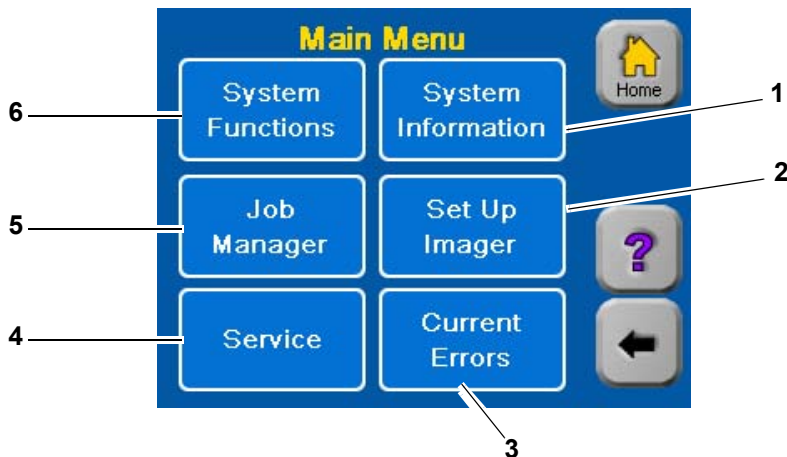
To display this screen: **Home** > **Film Supply** button > **Run Density Test**



- 1 **Change Copies.** Displays a keypad to change the number of copies of the test print.
- 2 **Change max density.** Displays a keypad to change the maximum density of the test print.
- 3 **Print Film (SMPTE).** Prints one or more copies of a SMPTE test pattern.

Main Menu

You can access most of the Local Panel functions from this menu screen.
To display this screen: Touch **Menu**.



- 1 **System Information button.** Displays the **System Information Menu** screen (see “[System Information Menu](#)” on page 2-26).
- 2 **Setup Imager button.** Displays the **Setup Imager** screen where you can enter or adjust parameters such as the Imager network address, hospital name and image quality parameters. See “[Setup Imager Screen](#)” on page 2-31.
This menu choice is used when the Imager is initially installed, when the configuration parameters must be changed or when adding a modality.
Most of the setup functions require a Service passcode. (See “[Local Panel Passcodes](#)” on page 2-57.)
Refer to Section 4 for setup procedures to add a modality.
Refer to the *Kodak DryView 8150 Laser Imager Installation Guide* for the required setup procedures.
- 3 **Current Errors button.** Displays the **Current Errors** screen, which lists errors detected by the Imager. See “[Current Errors Screen](#)” on page 2-29. If there are no errors, this button will be disabled.

- 4 **Service button.** Displays the **Service** screen. Provides several functions used by service technicians.
 - Most service functions require the Service passcode. (See [“Local Panel Passcodes” on page 2-57.](#))
 - Refer to [“Service Screen” on page 2-42](#) for information on this screen.
- 5 **Job Manager button.** Leads to several screens that display information about print jobs in various queues. You can also delete print jobs from these screens. (See [“Select job Queue Type Screen” on page 2-22.](#))
- 6 **System Functions buttons.** Displays the **System Functions** screen. (See [“System Functions Screen” on page 2-20.](#))

System Functions Screen

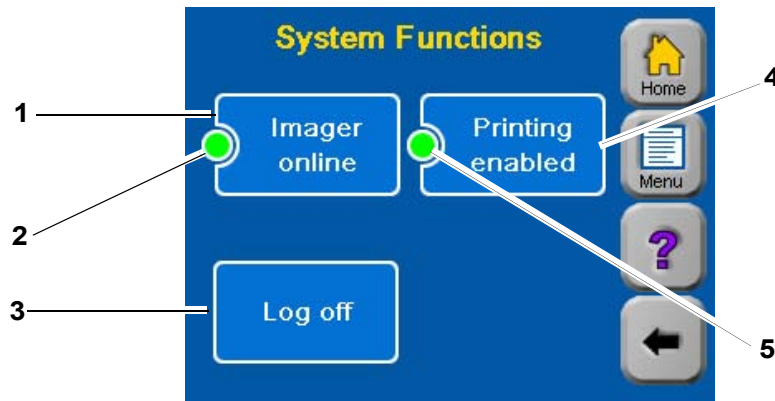
This screen provides two functions:

- Users who have logged on with a passcode can log off from this screen.
- Operators can set the Imager either **online** or **offline**.

When **online**, the Imager is connected to the network and can receive images from the associated modalities.

When **offline**, the Imager is temporarily disconnected from the network and cannot receive images but jobs in the print queue will continue printing.

To display this screen: **Menu > System Functions**



1 Imager online/offline button:

This button toggles between **online** and **offline**. When offline, the Imager is temporarily disconnected from the network and cannot receive images.

2 Online/Offline Indicator:

Green indicates **online**, yellow indicates **offline**.

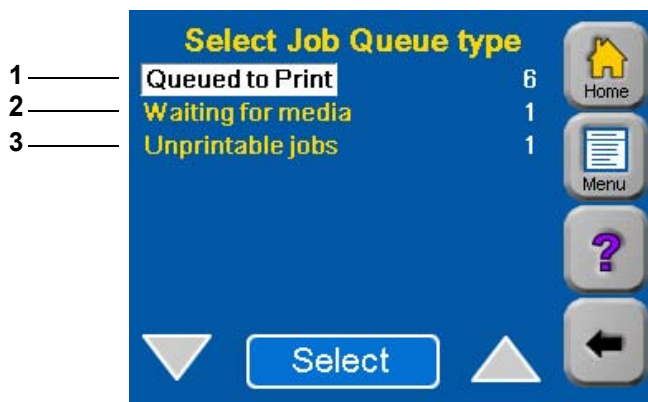
3 Logoff button. If you have logged on with any passcode, touch this button to log off. This will prevent unauthorized use of passcode-protected functions.

- 4 **Printing enabled button.** Toggles between **Printing enabled** and **Printing disabled**. When printing is disabled, the Imager can receive images from the modalities on the network but cannot print from the print queue.
Requires Key Operator or Service passcode.
- 5 **Enabled/Disabled Indicator.** Green when printing is enabled, yellow when printing is disabled.
Requires Key Operator or Service passcode.

Select job Queue Type Screen

This screen lists the three job queues and shows the number of print jobs in each queue.

To display this screen: **Menu > Job Manager**



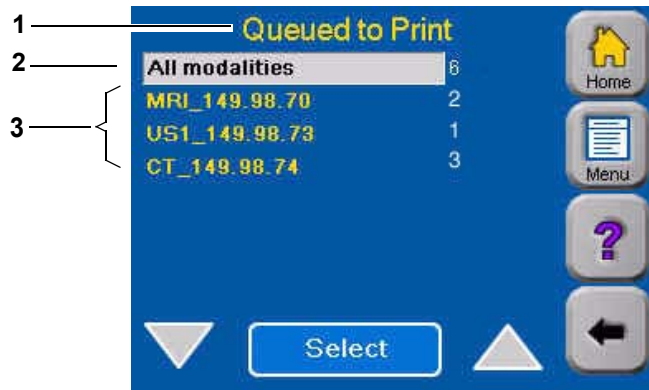
- 1 **Queued to Print.** This queue contains all print jobs waiting to be printed except jobs classified as “Unprintable” and “Waiting for media”.
- 2 **Waiting for Media.** This queue contains print jobs that require a different size or type of film than is currently in the film tray. When the operator loads another size or type of film, the Imager places the jobs waiting for the new film in the print queue.
- 3 **Unprintable jobs.** This queue contains print jobs that are unprintable because of errors.

To see the number of print jobs from each modality in any one of the above queues, highlight the queue and touch **Select**. The **Select Modality** screen, on [page 2-23](#), appears.

Select Modality Screen

This screen shows the number of jobs in a queue from each modality. From this screen you can display a list of the jobs from any one modality.

To display this screen: **Menu > Job Manager > Queued to Print**



- 1 **Name of the queue being displayed:**
 - Queued to print
 - Waiting for media
 - Unprintable jobs
- 2 Select to display a list of jobs from all modalities in the queue.
- 3 **List of modalities.** Select a modality to display a list of jobs from that modality.

To display a list of print jobs from one of the modalities, highlight the modality and then touch **Select**. The **Job List** screen appears. (See “[Job List Screen](#)” on page 2-24.)

To display a list of print jobs from all modalities, highlight **All modalities** and then touch **Select**.

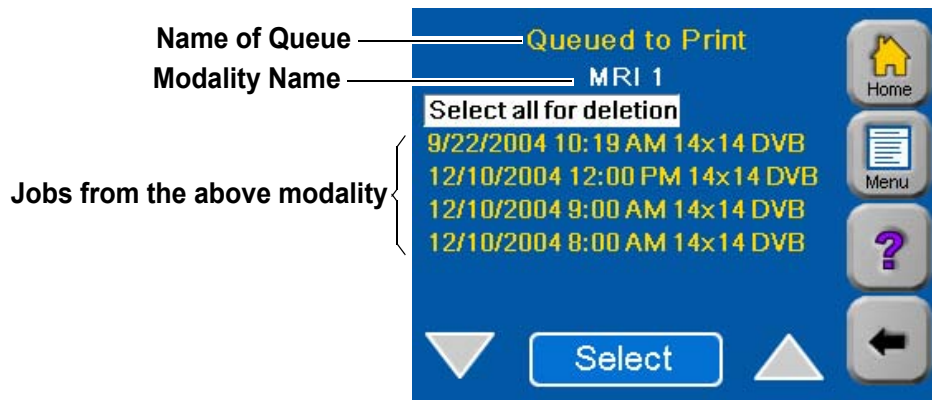
The above screen is for the “Queued to Print” queue. Similar screens can be displayed for the other two queues:

- “Waiting for media” queue
- “Unprintable jobs” queue

Job List Screen

This screen shows a list of the print jobs within a queue that are all from the same modality. The name of the source modality appears on the screen.

To display this screen: **Menu > Job Manager > Queued to Print > modality name**



Job List

To see detailed information about one of the print jobs on the above screen, highlight the job and then touch **Select**. The Local Panel will display a screen that shows job details. (See [“Job Details Screen”](#) on page 2-25.)

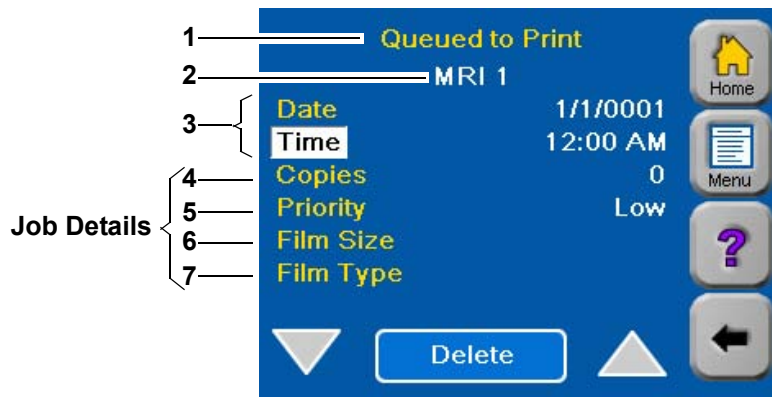
The choice "Select all for deletion" allows you to delete all jobs in the queue. When you highlight this choice and touch Select, the Local Panel displays a Yes/No confirmation message and then prompts for a User ID and Passcode. The jobs in the queue are deleted only after a valid Key Operator or Service Passcode is entered.

Job Details Screen

This screen shows information about a single print job that you selected on the previous screen.

Users with a Key operator passcode can delete this job from the queue by touching the **Delete** button.

To display this screen: **Menu > Job Manager > Queued to Print > modality name > Up/Down to highlight job > Select**



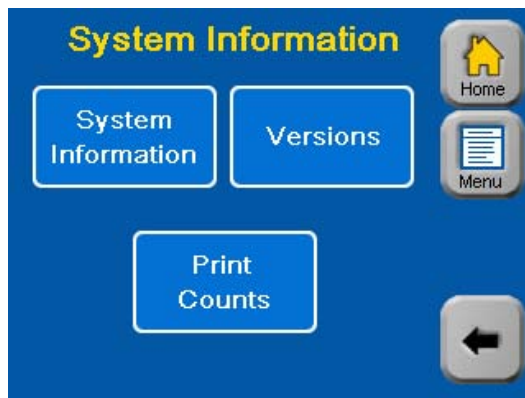
Job Details

- 1 Name of the queue that contains this print job.
- 2 Name of the modality that sent this print job to the Imager.
- 3 Date and time the Imager received the print job.
- 4 Number of copies to be printed - requested by the submitting modality.
- 5 Job priority - set by the modality.
- 6 Film size - specified by the modality.
- 7 Film type - specified by the modality.

System Information Menu

From this screen you can select three information screens that display information about the Imager.

To display this screen: **Menu** > **System Information**



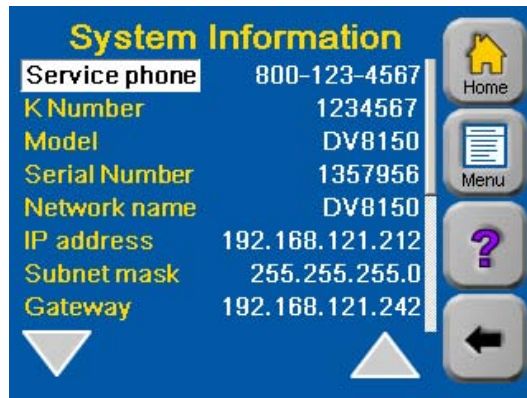
System Information Menu

- | | |
|---------------------------|---|
| System Information | Displays a screen that identifies the Imager and shows its network address. You may be asked to supply this information if you call Kodak for support. See “System Information Screen” on page 2-27 . |
| Versions | Displays a screen that shows the versions of software components in the Imager. You may be asked to supply this information if you call Kodak for support. See “Versions Screen” on page 2-27 . |
| Print Counts | Displays a screen that shows the number of films the Imager has printed and number of prints remaining before preventive maintenance is required. See “Print Counts Screen” on page 2-28 . |

System Information Screen

This screen displays information that identifies the Imager and shows its network address.

To display this screen: **Menu > System Information > System Information**



Versions Screen

This screen shows the current versions of software components in the Imager.

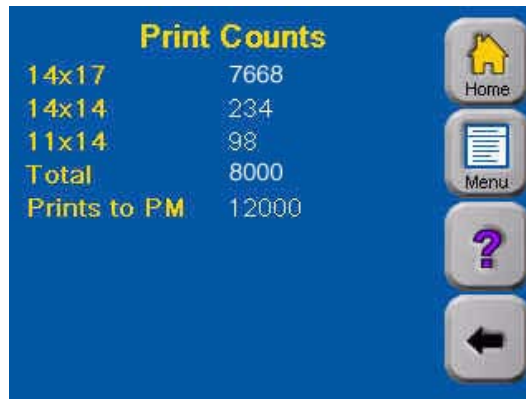
To display this screen: **Menu > System Information > Versions**



Print Counts Screen

This screen shows the number of films printed since the Imager was placed in service and the number of prints remaining before the next required PM (Preventative Maintenance session).

To display this screen: **Menu > System Information > Print Counts**



The image shows a screen titled "Print Counts" with a blue background. On the left, there is a list of film sizes and their corresponding counts. On the right, there are four navigation buttons: Home (house icon), Menu (document icon), a question mark, and a back arrow.

Print Counts	
14x17	7668
14x14	234
11x14	98
Total	8000
Prints to PM	12000

Print Counts

The "Prints to PM" count is reset to zero when preventive maintenance is performed.

Current Errors Screen

This screen lists any errors detected by the software in the Imager during print operations.

To display this screen: **Menu > Current Errors**



Current Errors

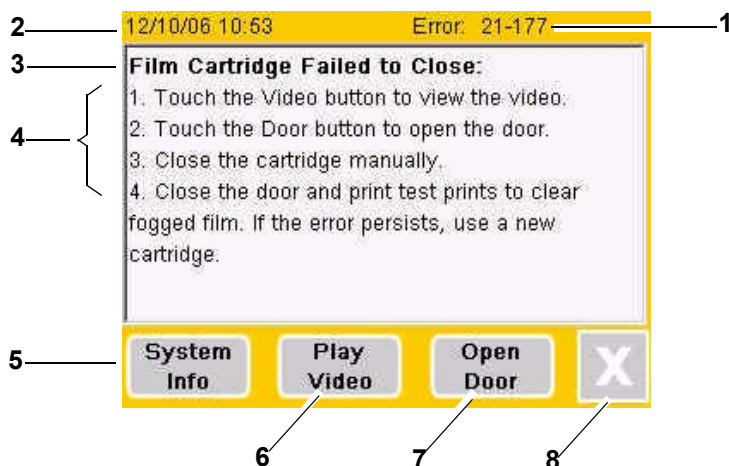
- 1 Error code - identifies the type of error. You will be asked for this code if you call for service.
- 2 Date and time the error occurred.
- 3 Abbreviated description of the error.

To see more information about an error, touch the **Up** or **Down** arrows to highlight the error entry and then touch **Select**. The **Error Message** screen will display. (See [page 2-30](#).)

Error Message Screen

This screen appears when the Imager detects an error. It provides information and recommended corrective action for a specific error.

You can also display this screen by selecting an error listed on the **Current Errors** screen. (See [page 2-29](#).)

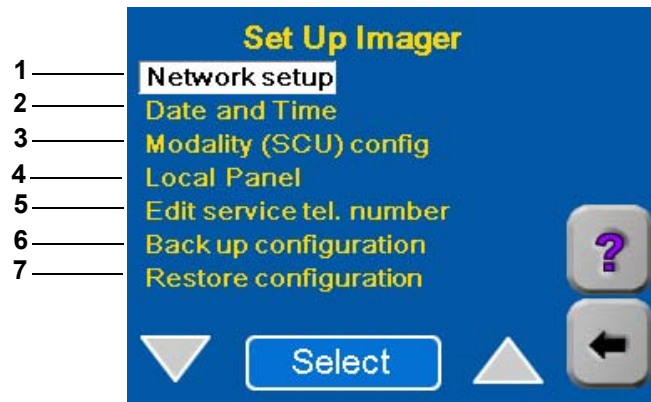


- 1 Error Code - identifies a specific error. You will be asked for this code if you call for service.
- 2 Date and time the error occurred.
- 3 Error description.
- 4 Corrective action.
- 5 Touch to display the **System Information** screen.
- 6 Touch to play a short video on how to correct the problem. Not available with all error messages
- 7 Touch to unlatch the front door. Forces the front door open even if the film cartridge cannot close. Not present with all error messages.
- 8 Touch X to go to the **Current Errors** screen. (See [page 2-29](#).)

Setup Imager Screen

This screen is the entry point for all of the Imager configuration functions. These functions are used primarily for installation of the Imager, not for normal operation. Most of these functions require the Service passcode. A few of the Local Panel setup functions are accessible with a Key Operator passcode.

To display this screen: **Menu > Setup Imager**



- 1 **Network setup.** Select to display the **Edit network configuration** screen. (See [page 2-32](#).)
- 2 **Date and Time.** Select to display the **Date Time** screen. (See [page 2-33](#).)
- 3 **Modality (SCU) config.** Select to display the **Select Modality** screen. This is the entry point for setting parameters related to each modality that will print to the Imager. (See [page 2-34](#).)
- 4 **Local Panel.** Select to display the **Setup Local Panel** screen. (See [page 2-35](#).)
- 5 **Edit service telephone number.** Select to display for changing the service telephone number (See [page 2-36](#).)
- 6 **Backup configuration.** Select to perform a configuration backup operation. (See [“Backing up the Configuration” on page 4-22](#))
- 7 **Restore configuration.** Select to restore the Imager configuration parameters from a prerecorded backup file. (See [“Restore Configuration” on page 2-37](#).)

Edit Network Configuration Screen

This screen is used to enter the IP Address and other network parameters for the Imager. The Service passcode is required to display this screen.

For network setup procedures using this screen, refer to the Installation Manual for the *Kodak DryView* 8150 Laser Imager.

To display this screen: **Menu > Setup Imager > Network setup**

Edit network configuration

Network name	DV8150
IP address	149.198.222.177
Subnet mask	255.255.255.252
Gateway	149.198.222.1

Ping

Advanced

Apply changes

Exit without saving

Navigation buttons: Left arrow, Select, Right arrow, Help (?), Back (←)

Date and Time Screen

This screen is used to edit the date and time displayed on the Local Panel Home screen. The Service passcode is required to access this screen.

The date and time can be changed only within a plus or minus 24-hour window, just enough for time zone changes.

For date and time setup procedures using this screen, see [“Setting Time and Date” on page 2-64](#).

To display this screen: **Menu > Setup Imager > Date and Time**



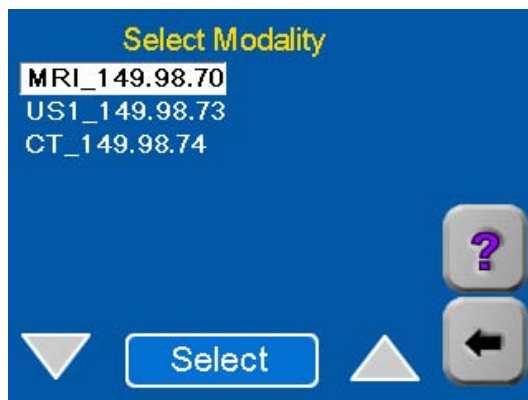
Select Modality Screen

Each of the modalities that has printed at least once to the Imager is listed on this screen. Selecting one of the modalities leads to a series of configuration screens that are used to enter and edit image quality parameters for the selected modality.

The Service passcode is required to access this screen.

For modality setup procedures initiated from this screen, refer to [“Chapter 4 Adding a Modality”](#).

To display this screen: **Menu > Setup Imager > Modality (SCU) config**



Setup Local Panel Screen

From this screen you can access several other screens that allow you to adjust some of the Local Panel properties.

To display this screen: **Menu > Setup Imager > Local Panel**



Calibrate touch accuracy - Displays a screen for setting the accuracy of the touch buttons on the Local Panel. Requires the Service passcode.
Touch Beep Duration - Displays a screen for setting the duration of the "beep" that sounds when any button is touched. Requires a Key Operator passcode. Refer to "Adjust Touch Beep Duration" on page 2-61.
Backlight intensity - Displays a screen for setting the intensity of the Local Panel backlight. Requires a Key Operator passcode. Refer to "Adjust Backlight Intensity" on page 2-62
Audible alarm - Displays a screen from which you can: • Enable or disable the audible alarm. • Set the duration of audible alarm tone pulses. The audible alarm sounds when the number of Jobs Waiting for Media goes from 0 to 1 or when an Error Message screen is displayed. Requires a Key Operator passcode. Refer to "Adjust the Audible Alarm" on page 2-63
Passcodes - Displays a screen for entering and editing passcodes Requires the Service passcode. Refer to "Local Panel Passcodes" on page 2-57.

Edit Service Telephone Number Screen

From this screen you can enter the Service Telephone that appears on the **System Information** screen.

Requires the Service passcode.

To display this screen: **Menu > Setup Imager > Edit Service tel. number**



1-800-000-0000

1 2 3

4 5 6

7 8 9 Del Cancel

0 ◀ ▶ OK

Restore Configuration

This menu choice allows you to restore the Imager configuration parameters from a previously-recorded backup file.

The backup file is usually recorded on a floppy disk but can also be recorded on the Imager hard drive or on a remote network drive if accessible on the network.

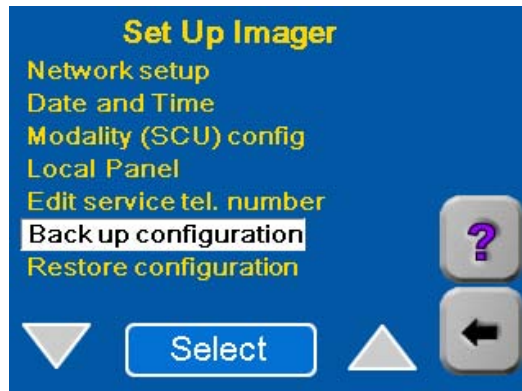
The Service passcode is required.

Restore procedure (from floppy disk):

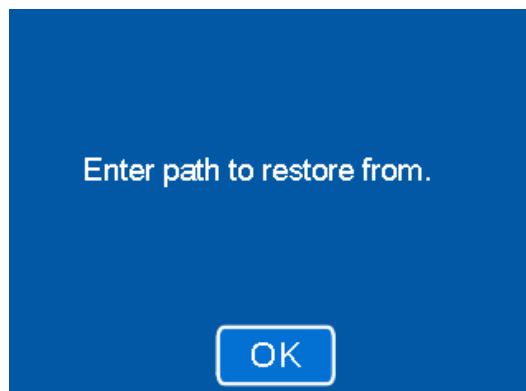
You must have a previously-recorded backup disk.

1. From the Home screen, touch **Menu**.
2. Touch **Set Up Imager**.
3. Touch **No** when a message prompts to **Use the Installation Assistant**.
4. If you are not logged in, enter the Service ID and Service Passcode on the two keypads that appear.

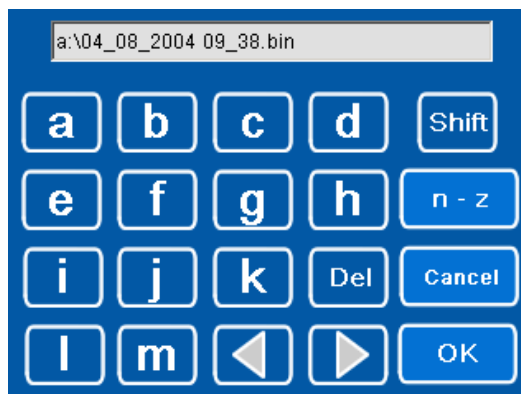
The Setup Imager screen appears



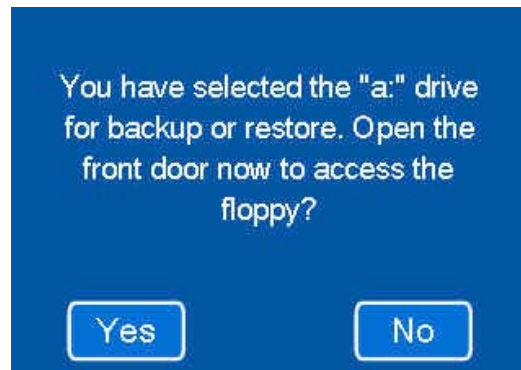
5. Select **Restore Configuration**.



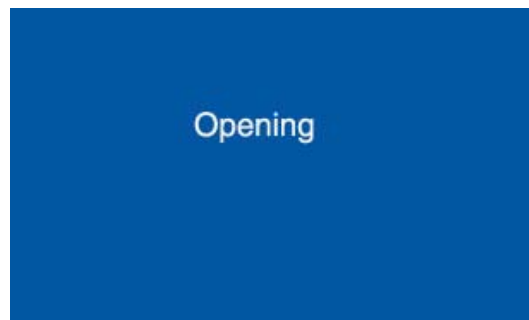
6. Touch **OK**.



7. Enter the filename exactly as it is written on the backup disk and touch **OK**.



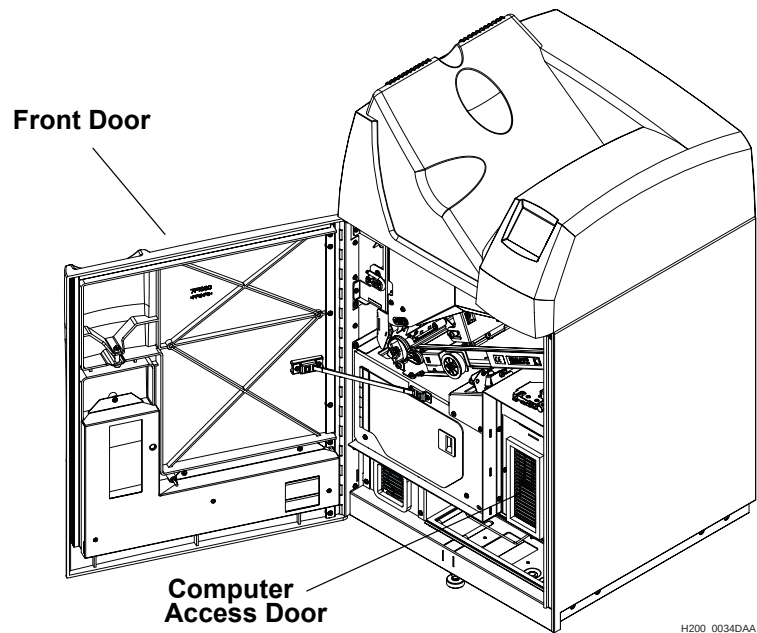
8. Touch **Yes**.



IMPORTANT: ***Do not touch OK yet.***

9. Wait for the front door to open.

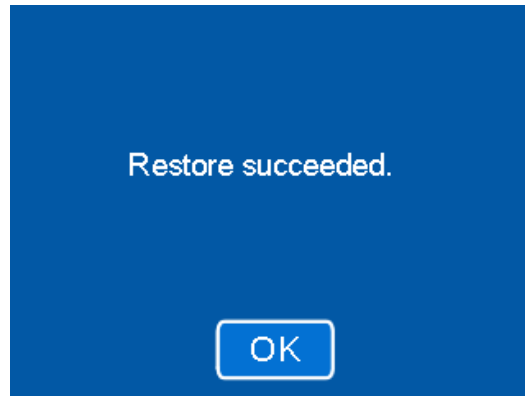
The Imager first closes the film cartridge, completes any films in process and then unlatches the front door.



10. Open the computer access door.
11. Insert the backup diskette into the floppy disk drive.
12. Touch **OK**.

The Imager reads in the backup file. This may take several minutes.

Please wait.



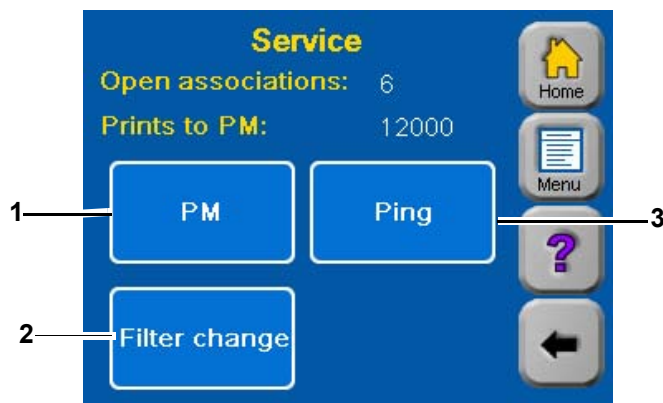
13. Touch **OK**.
14. Remove the backup disk from the computer.
15. Close the computer access door and the Imager front door.
16. Log out of the Service Passcode if you are done with service functions:
 - a. Touch the **Back** arrow to return to the **Main Menu**.
 - b. Touch **System Functions**.
 - c. Touch **Log off** and then Touch **OK**.
17. Touch the **Back** arrow twice to return to the Home screen.

This completes the restore procedure.

Service Screen

This screen is the access point for the Local Panel Service functions.

To display this screen: **Menu > Service**



- 1 PM.** Enters the date that preventive maintenance is performed and also resets the print-to-PM counters to zero. See [page 2-44](#). Requires the Customer First passcode.
- 2 Filter Change.** Select to enter the date of a filter change. See [page 2-43](#). Requires Key Operator or Service passcode.
- 3 Ping.** Tests the network connection between the Imager and any other device on the network. See [page 2-43](#). Requires Key Operator or Service passcode.

Filter Change - Service Menu Choice

Selecting **Filter Change** on the Service screen displays the screen below. Touch **Yes** to enter the current date into the Service History log as the date of a filter change.



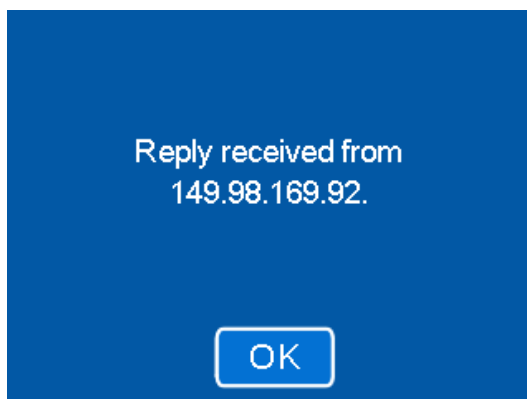
Ping - Service Menu Choice

Selecting **Ping** on the Service screen tests the network connection between the Imager and any modality on the network. You must know the IP address of the modality you wish to test.

A keypad appears for entry of the IP address. To send a Ping, enter the IP address of the modality and touch **OK**. The Imager sends a test packet to the modality and waits for a reply.



If the Ping is successful, the following message screen appears:



If the modality does not respond to the **Ping**, a message screen informs of the failure

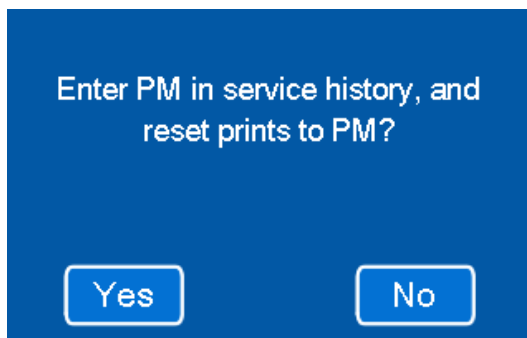
PM (Preventive Maintenance)| Service Menu Choice

This menu choice performs two functions: Selecting **PM** on the Service Screen displays the screen below.

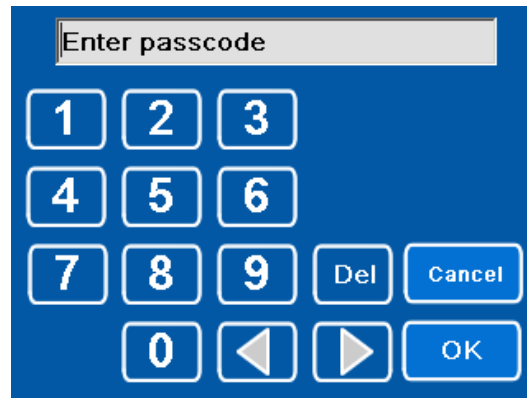
- Enters the current date into the Service History log as the date of a PM session.
- Resets the "Prints to PM" counter to zero. This counter records the number of films of each size printed since the last PM.

You must have the Customer First passcode to perform this operation.

When you select **PM** on the Service Screen, the following screen appears.



Select **Yes** to continue. Enter the Customer First passcode on the keypad that follows.



When you enter the Customer First passcode and press **OK**, the PM date is entered and the "Prints to PM" counter is reset. A confirmation screen notifies you that the operation is complete.

Image Resizing

If the image sent from the modality is too large for the size of film in the Imager, the Imager can resize the image to fit on the film by either of two methods:

- **Minify** - To reduce the image to fit on the selected film size.
- **Crop** - To remove the edges of the image to allow it to fit on the selected page size.

The resizing method is selected separately for each connected modality when the Imager is setup. Refer to [“Selecting the Type of Image Resizing” on page 4-14](#).

Resizing is required when:

- An image is too large to fit on the film currently loaded in the Imager.
- The modality sends an image with a requested image size that the Imager cannot print.

When the Imager resizes an image, it prints an icon on the film to notify that the image has been resized.

Refer to the following table for more information on the resizing methods.

Image Resizing Methods

Resizing Method	Icon Printed on Film
Minify The image file is reduced by the removal of pixel data. If the Minify choice was selected when the Imager was setup, the Imager will minify an image if: 1. The modality sends an image that is too large for the film in the Imager. In this case the Minify icon is printed on the film. 2. The modality requests an image size that the Imager cannot print. In this case the Scale icon is printed on the film.	Minify Icon  or Scale Icon 
Crop The image perimeter is removed to allow the image to print on the available film and at the same scale as the anatomical area of interest. To fit the image on the printable area of the media, equal portions of the perimeter are removed from the sides of the image and/or the top and bottom of the image. Cropping may be appropriate if the image is too large to print on the available film, and the size of the area of interest is important to retain. NOTE: If anatomical areas of interest are near an outer edge of the image, they might be removed from the image when it is printed. Continued	Crop Icon 

Image Resizing Methods

Resizing Method	Icon Printed on Film
Crop (continued) Cropping allows “true size” printing for larger images. True size printing provides a common scale between images captured on analog systems (those which use medical x-ray film exposed by phosphor screens in cassettes) and printed digital images. The anatomical area of interest is printed at the same size that it is captured on the analog system. Measurements and comparisons between printed analog and digital images are simplified. For example, you request a CR image to print 35x43 cm on a laser imager which supports a maximum print size of 33x41 cm. To make the area of interest the same size as the captured image, enable cropping.	

Operation

Opening the Front Door

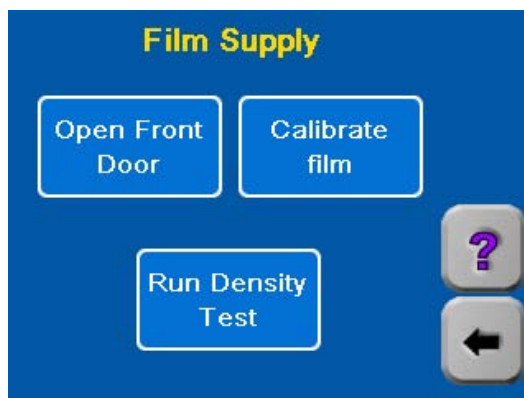
During normal operation you may need to open the front door of the Imager to insert or remove the film cartridge, clear a film jam or change the charcoal filter.

To open the front door while power is ON:

1. On the Home screen, touch the **Film Supply** button.



2. Touch **Open Front Door**.



The front door opens after the Imager closes the film cartridge and completes printing any films in process.

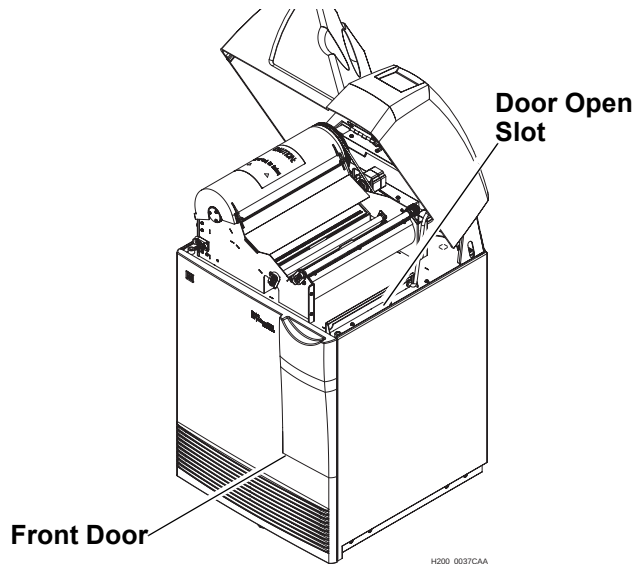
If a film jam or other malfunction prevents the film cartridge from closing,

the front door will not unlatch. An error message appears to announce this error. The **Error Message** screen includes an **Open Door** button that will force the door open even though the film cartridge remains open.

Opening the Front Door Manually

If the Imager power is OFF or if opening the front door from the Local Panel fails, you can use the manual latch to open the front door.

NOTE: If you open the door manually, the film cartridge does not close automatically. You will have to close the cartridge manually if it is open. Several sheets of film at the top of the cartridge will be exposed (fogged) and should be discarded. Removal of exposed films and resealing of a cartridge should be done in a dark room.

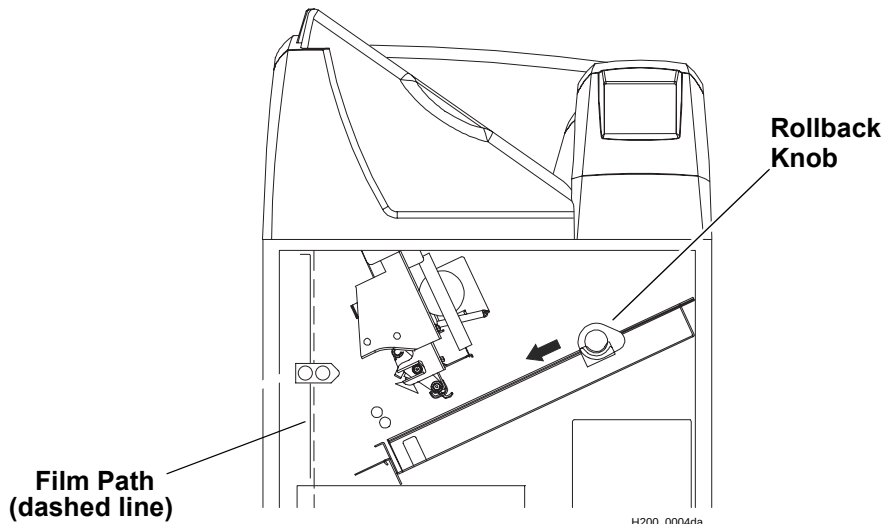


To manually open the front door:

1. To minimize film exposure, make the room as dark as possible.
2. Raise the hood. See [“Opening the Hood” on page 2-51](#).
3. Insert a small-diameter screwdriver or similar item into the Door Open Slot and press down.

The door will unlatch.

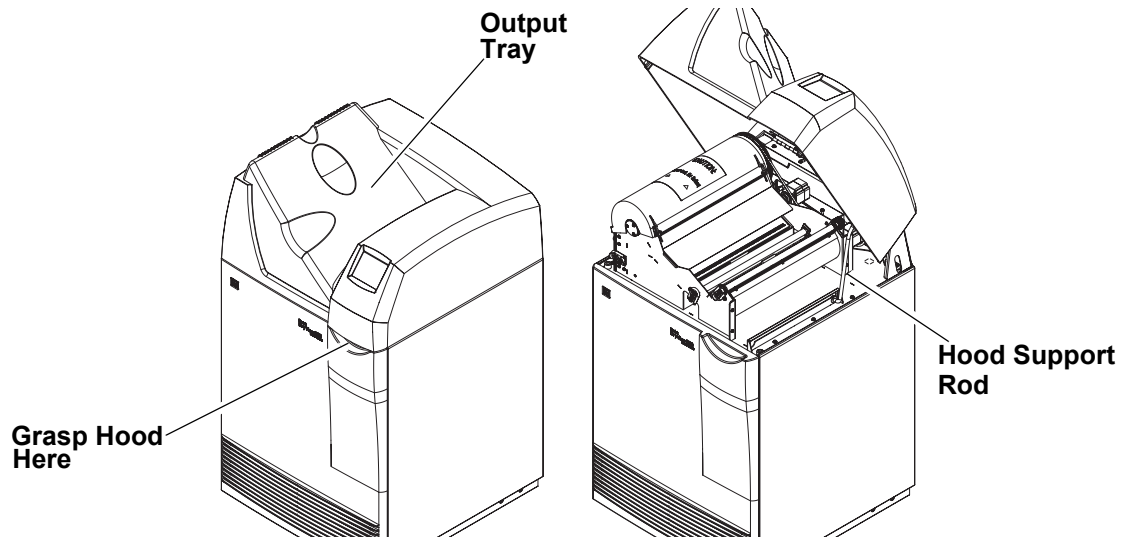
4. If the film cartridge is open, close the cover immediately.
 - a. Clear any films that may be jammed in the cartridge area.
 - b. Turn the rollback knob counterclockwise to close the cartridge.



Manually Closing the Film Cartridge

Opening the Hood

You will have to open the hood to clear film jams in the developer area or to open the front door manually.



CAUTION:

Whenever you raise or lower the hood, grasp the hood only in the area of the recessed slot below the Local Panel to avoid pinching your fingers.

To open the hood:

1. Remove any films in the output tray.
2. Grasp the hood at the recessed slot below the Local Panel.
3. Raise the hood until the support rod locks into the top slot.

To close the hood:

CAUTION:

Close the hood carefully. Releasing and dropping the hood could damage the Laser Imager.

1. Raise the hood slightly and push the rod slightly to the rear from the slot.
2. Gently lower the hood to the closed position.

Loading and Removing Film Cartridges

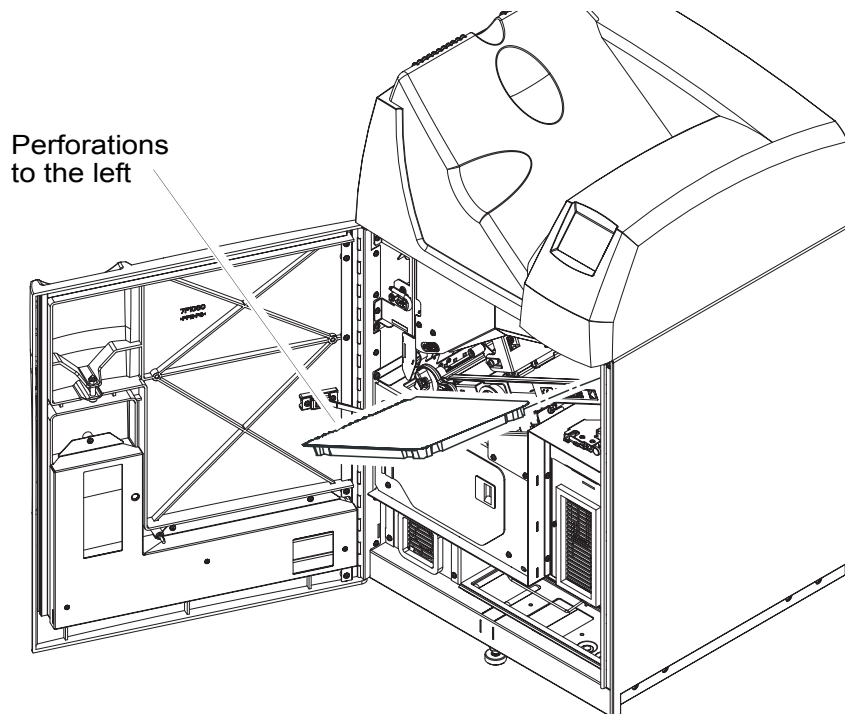
To load a film cartridge:

1. Open the front door. (See [“Opening the Front Door” on page 2-48.](#))
2. Insert the cartridge into the slot as shown in the illustration.
3. Slide the cartridge fully into the Imager.
4. Close the front door.

After you close the door, the Imager opens the film cartridge. If the film characteristics are different from the previous cartridge, the Imager automatically runs a calibration print (see [“Calibration Prints” on page 2-53.](#)). The Imager then begins printing jobs from the print queue.

To remove a film cartridge:

1. Open the front door. (See [“Opening the Front Door” on page 2-48.](#))
2. Lift the edge of the cartridge slightly, then pull the cartridge out of the Imager.



Loading and Unloading Film

Recycling Empty Film Cartridges

In some regions you can return your empty *Kodak DryView* Film Cartridges to Kodak for reuse and recycling. Contact your Kodak sales representative to determine the availability of the film cartridge recycling program in your region.

Returned cartridges are carefully inspected. Only components that meet strict quality standards are reused. Components that do not meet the standards are sent to recycling centers for reclamation.

This program is part of Kodak's commitment to reduce the environmental impact of our products.

For additional information on the *Kodak* Recycling Program in the U.S. and Canada, visit the Kodak Web site: www.kodak.com/go/KES

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 **Home** screen.

Calibration Prints

Imager calibration is performed by printing a calibration print. The Imager prints a calibration print when:

- A film cartridge containing film with new sensitometric characteristics (speed, contrast) is loaded.
- The Imager has not printed film for 7 days.
- The Dpatch (density patch) printed on the film is out of range. Applies to 35 x 43 cm (14 x 17 in.) film only.

You can also request a calibration print from the Local Panel.

A calibration print has a step wedge pattern, a series of 26 stripes of increasing optical density. The only purpose of a calibration print is to calibrate the Imager. You can discard all calibration prints.

Calibration Failure

Occasionally, the Imager may fail calibration and will notify the operator with an error message on the Local Panel. The most common cause is a film problem. Depending on the cause, the Imager may be able to continue operating after you acknowledge the error message. For more information on calibration failure refer to "[Calibration Failure](#)" on page 3-6.

Requesting a Calibration Print from the Local Panel

To request a calibration print from the Local Panel:

1. On the **Home** screen, touch the **Film Supply** button.

2. Touch **Calibrate Film**.

3. Touch **Yes** then **OK**.

The Imager will print a calibration film before printing any jobs in the print queue that have not yet started printing and will interrupt a multi-sheet print job to run a calibration print.

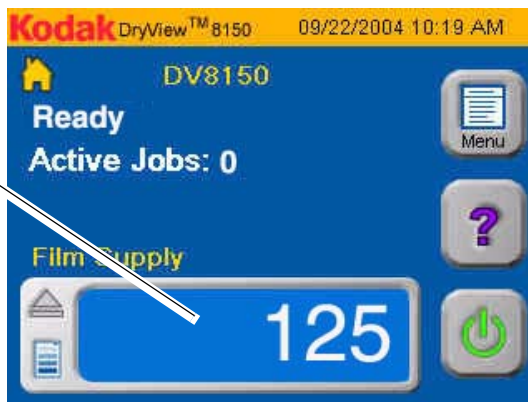
Requesting a Density Test

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.

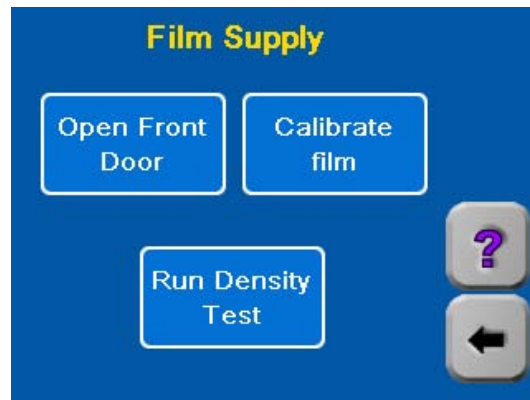
To request a SMPTE test print:

1. Start from the Home screen.

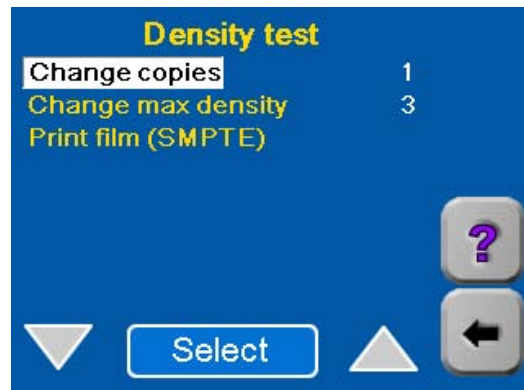
Film Supply Button



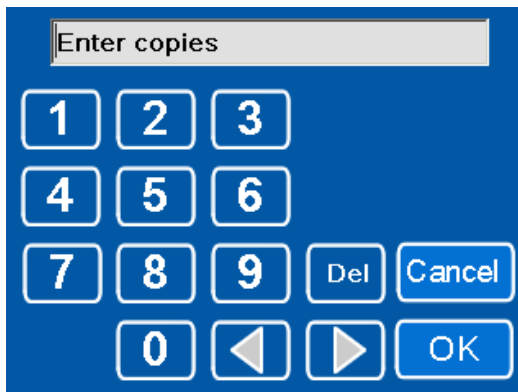
2. Touch the **Film Supply** button.



3. Touch **Run Density Test**.



4. If you want to change the maximum density value, highlight **Change Max Density** and touch **Select**.



5. Enter the maximum density value that you want and touch **OK**.
(Upper limit: 3.1.)
The **Density test** screen reappears.
6. To print more than one copy, highlight **Change copies** and touch **Select**.
7. On the keypad, enter the number of copies and touch **OK**.
8. Highlight **Print film** and touch **Select**.
The density test print is placed at the front of the print queue.

Local Panel Passcodes

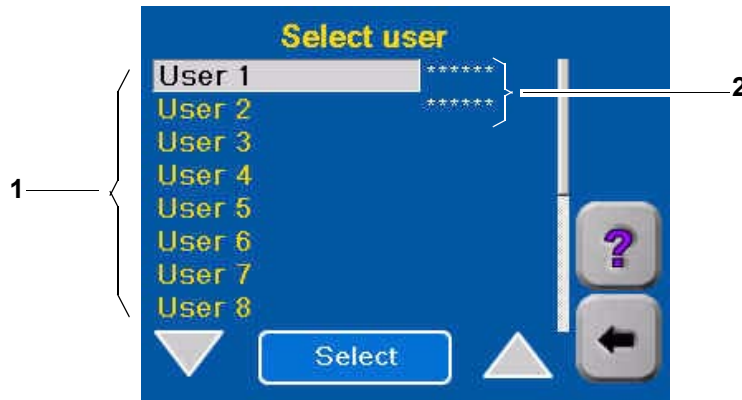
There are four levels of access to the Local Panel. Three of these access levels require passcodes.

Operator Level	Passcode not required. Operators can access most Local Panel features except for Service functions and Imager setup functions.
Key Operator Level	Requires a Key Operator User ID and passcode. In addition to operator-level functions, key operators can: • Delete print jobs from the Imager. • Adjust some Local Panel settings such as back light intensity and touch beep duration. • Enable and disable printing. • Record filter changes in the service log. Up to 10 Key Operator passcodes are allowed.
Service Level	Requires the Service User ID and passcode. This passcode allows service technicians to access all Local Panel functions except the PM function on the Service screen. An initial Service passcode is given to the person who installs the Imager. This passcode should be changed as part of the installation process.
Customer First Level	This level allows the user to access the PM (preventive maintenance) function on the Service screen. There is only one Customer First password. It is given to trained Customer First technicians. There is no user name associated with this passcode.

Setting Up Passcodes

Key Operator Passcodes and the Service passcode are set up on the Passcode Entry screen. Each passcode must be accompanied by a User ID. Only a user with the Service passcode can enter Key Operator passcodes or change the Service passcode.

The Customer First passcode cannot be changed and is not displayed on the Passcode Entry Screen.



Passcode Entry Screen

- 1 **User IDs.** Key Operator user names are the numbers 1-10 and cannot be changed. The Service user name is always the number 99. User names 9, 10 and 99 appear on a second Passcode Entry screen which appears when you scroll beyond user name 8.
- 2 **Passcodes.** Passcodes are numeric only and contain 6 digits. No more than 2 consecutive digits can be the same. For example, the passcode 224466 is acceptable. The passcode 222345 is not valid.

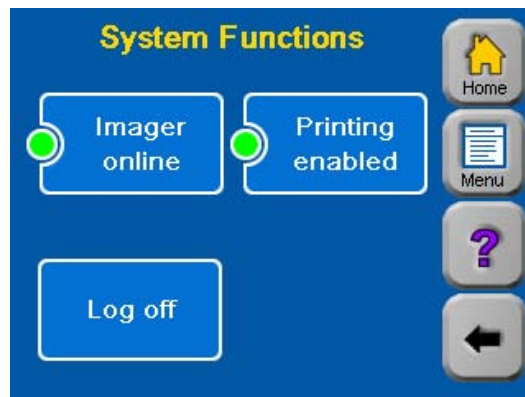
Logging On to the Local Panel with a passcode

When a user selects a function on the Local Panel that requires a passcode, a keypad appears for entry of a User ID. A second keypad appears for a Passcode. After entering a valid User ID and Passcode, the user can access all functions available for the type of password entered.

Logging Off

Users who have logged on with any passcode can log off by touching the **Logoff** button on the **System Functions** screen.

There is also a passcode timeout feature that automatically logs a user off if there are no inputs on the touch screen for 2 minutes. This automatic logoff does not apply when any of the Setup Imager screens are displayed or when an Error Message screen is displayed.



Key Operator Functions

The functions described in this section can be performed by a Key Operator who has logged in with a Key Operator passcode.

For the log-on procedure see [“Local Panel Passcodes” on page 2-57](#).

The Key Operator functions are

- Delete print jobs.
- Set Local Panel properties such as backlight intensity and audible alarm duration.
- Enable or disable printing
- Enter filter change date in the service history.

Adjusting Local Panel Preferences

Key Operators can change the following Local Panel properties:

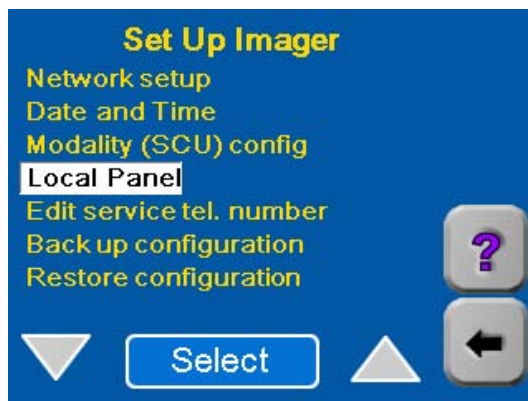
- Volume of "beep" that sounds when you touch any button
- Backlight intensity
- Audible alarm volume
- Audible alarm - enable or disable

A Key Operator passcode is required to change these properties.

Displaying the Setup Local Panel Screen

You make all changes to the Local Panel properties from the **Setup Local Panel** screen. To navigate to this screen:

1. On the Home screen, touch **Menu**.
2. On the **Main Menu** screen, touch **Setup Imager**.
3. When the system prompts to start the **Installation Assistant**, touch **No**.



4. Highlight **Local Panel** and touch **Select**.

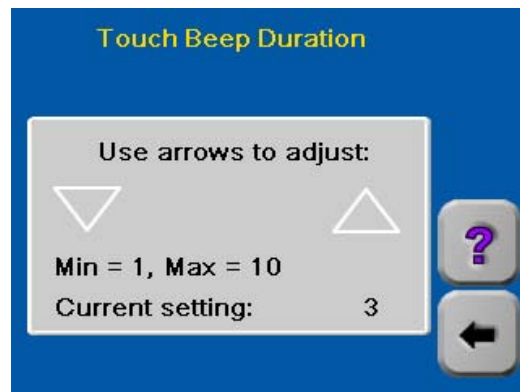


Set Up Local Panel Screen

Adjust Touch Beep Duration

To adjust beep duration:

1. On the **Setup Local Panel** screen, highlight **Touch Beep Duration**.
2. Touch **Select**.

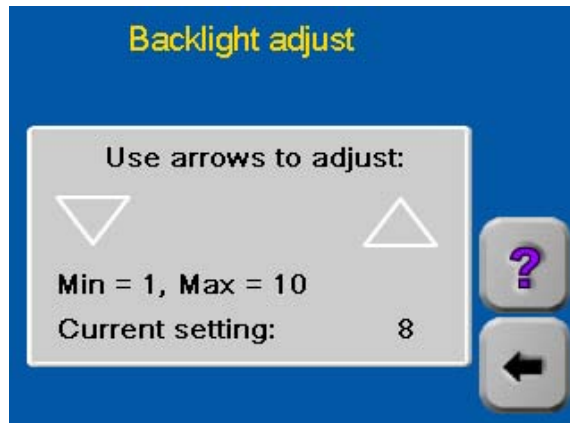


3. Touch the **Up** or **Down** arrows to change duration of the beep sound.
You will hear a beep each time you touch the **Up** or **Down** arrows.
4. Touch the **Back** arrow to return to the **Setup Local Panel** screen.

Adjust Backlight Intensity

To increase or decrease the backlight intensity:

1. On the **Setup Local Panel** screen ([page 2-61](#)), highlight **Backlight intensity**.
2. Touch **Select**.

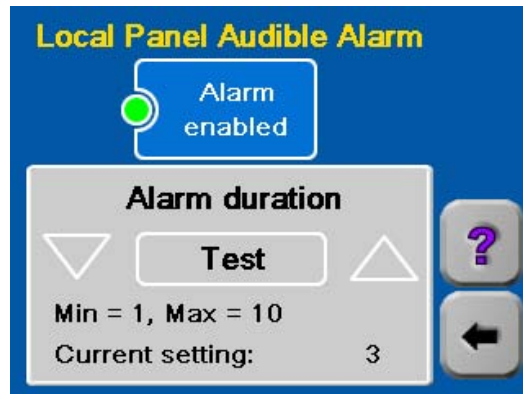


3. Touch the **Up** or **Down** arrows to change the intensity.
4. Touch the **Back** arrow to return to the **Setup Local Panel** screen.

Adjust the Audible Alarm

The audible alarm is a series of tone pulses that sound when an error occurs or when **Waiting for Media** appears on the Home screen. You can adjust the duration of the tone pulses.

1. On the **Setup Local Panel** screen ([page 2-61](#)), highlight **Audible Alarm**.
2. Touch **Select**.



3. Touch the **Alarm Enabled** button to enable or disable the alarm. Touching the button repeatedly alternates between enabled and disabled.
4. Touch the **Up** or **Down** arrows to change the tone pulse duration.
5. Touch the **Back** arrow to return to the **Setup Local Panel** screen.

Setting Time and Date

The time and date appear in the **Home** screen.

The **time**, **time format**, **date** and **date format** can be set. The Service Passcode is required.

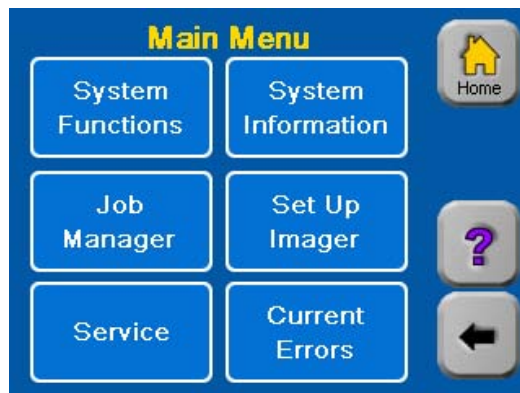
The combination of date and time can be increased or decreased by no more than 24 hours.



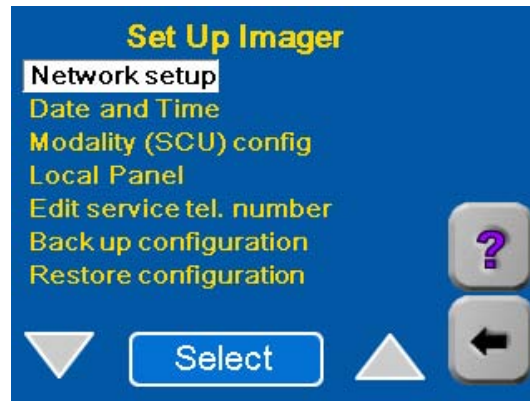
- Formats for time include AM/PM or 24-hour (military).
- Formats for date include
 - MM_DD_YYYY
 - DD_MM_YYYY
 - YYYY_MM_DD

To change the time, time format, date or date format:

1. Touch the **Menu** button.



2. Touch **Setup Imager**.
3. You will see a prompt to start the **Installation Assistant**. Select **No**.



4. Highlight **Date and Time**; then touch **Select**.



5. A keypad will prompt for the for the Service user name and then the Service passcode if you are not logged in.
6. To change the date format:
 - a. Highlight **Date Format**.
 - b. Touch **Select** to change the date format.

Each time you touch **Select**, the date format changes. Select one of the following:

- MM_DD_YYYY
- DD_MM_YYYY
- YYYY_MM_DD

Operation and Maintenance

7. To change the date:
 - a. Highlight **Date** and touch **Select**.
A keypad appears on the Local Panel.
 - b. Enter the new date and touch **OK**.
The new date appears on the **Date Time** screen.



8. To change the time format:
 - a. Highlight **Time Format** and touch **Select**.
 - b. Touch **Select** to change the time format.
There are two time formats (AM/PM and 24-hour). Each time you touch **Select**, the time format changes to the alternate format.
9. To change the time setting:
 - a. Highlight **Time** and touch **Select**.
A keypad appears.
 - b. Enter the new time and touch **OK**.
The new time appears on the **Date Time** screen.

Operator Maintenance

Cleaning the Laser Imager

Clean the outside surfaces of the Laser Imager as necessary. Use a soft cloth with warm water and mild soap.



CAUTION:

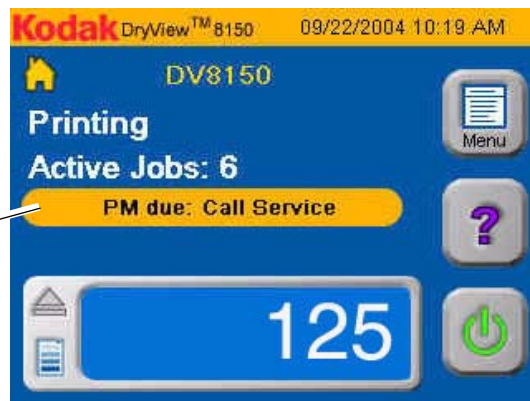
Do not use isopropyl alcohol to clean the exterior surfaces of the Laser Imager. Isopropyl alcohol can dissolve the exterior paint on the Laser Imager.

Replacing the Charcoal Filter

Kodak DryView Laser Imaging Film emits a slight odor when it is heated during the developing process. A charcoal filter in the Imager absorbs and neutralizes this odor. The filter has a limited life and should be replaced periodically.

You can monitor the number of prints remaining until Preventive Maintenance (PM) is due by viewing the **Print Counts** screen. (See [“Print Counts Screen” on page 2-28.](#)) When the print count reaches the preset value, “Preventive Maintenance” appears on the **Home** screen.

Preventive Maintenance Notice



Home Screen

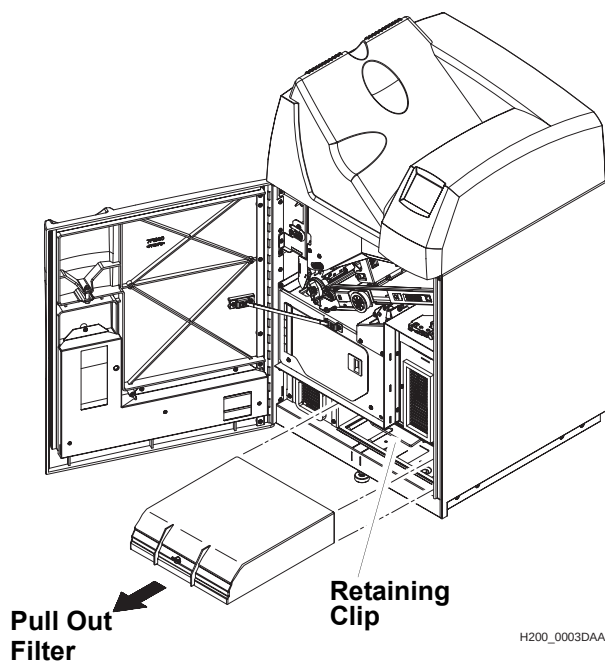
Kodak Field Engineers routinely install a new filter during the Preventive Maintenance procedure. **If your Laser Imager is covered by the Kodak Preventive Maintenance Plan, you do not have to change the charcoal filter.** (See [“Preventive Maintenance” on page 2-69.](#))

If you do not have the Kodak Preventive Maintenance Plan, replace the charcoal filter

if the odor becomes noticeable or when "Preventive Maintenance" appears on the **Home** screen.

⚠ CAUTION:

The charcoal filter is considered non-hazardous waste by the US EPA Resource Recovery Act. Under RCRA, you may dispose of filters in a landfill or incinerator with energy recovery in a municipal, commercial or industrial facility. Contact your state or local government to determine if additional disposal requirements apply.



Replacing the Charcoal Filter

To install a new filter:

1. Open the front door. (See ["Opening the Front Door"](#) on page 2-48.)
2. Push the filter retaining clip back and up.
3. Pull out the old filter.
4. Slide the new filter in, all the way to the back stop.

5. Pull the retaining clip forward and down to lock the filter in place.
6. Close the front door.
7. Change the Filter Change Date in the Service log.
 - a. On the Home screen touch **Menu**.
 - b. Touch **Service**.
 - c. Touch **Filter Change** and then **Yes**.The current date is entered into the log as the Filter Change Date.

Preventive Maintenance

To maintain optimum performance from the Laser Imager, Kodak recommends that preventive maintenance be performed periodically by an Authorized Service Provider of Kodak products.

Preventive Maintenance includes:

- Installation of a new charcoal filter
- Image assembly cleaning
- Film processor cleaning

You can monitor the number of prints remaining until PM is due by viewing the **Print Counts** screen. (See [“Print Counts Screen” on page 2-28.](#)) When the print count reaches the preset limit, “Preventive Maintenance” appears on the **Home** screen. Call Service to schedule preventive maintenance (see [“Calling for Support” on page 3-17.](#)).

When preventive maintenance is performed, the "Prints to PM" count is reset to zero and the Preventative Maintenance Notice no longer appears on the **Status** screen.

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