User Guide

English

Dolev 250/450

399Z1F580A

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ABOUT THIS USER GUIDE

This brief user guide details the operational *changes* which are required by the Dolev 250/450 Imagesetter. It is meant to be used *together* with the ***Dolev 200/400 User Guide***. When necessary, you will be referred to the ***Dolev 200/400 User Guide*** for additional details.

This guide consists of the following chapters:

The Dolev 250/450, Chapter One, introduces the Dolev 250/450 and provides general information about its operation.

Setting Up, Chapter Two, provides information required in order to configure the Dolev 250/450.

Film Media, Chapter Three, describes how to load film into the new Imagesetter.

Exposing Files, Chapter Four, includes information about Scitex Class Screening.

DOCUMENT CONVENTIONS

The following text conventions are used throughout this document:

Document references	References to other sections of this document or to other documents are printed in italics.
Formal Screen Elements	Dialog boxes, windows, lists, and other named user interface elements are printed in italics.
Software Buttons	Named functions which are activated directly by the user via software are printed in bold.
System Messages	Information messages generated by the software or operating system are printed in sans serif type.
<user entry>	User selections or entries are printed between angle brackets.
♦ Bulleted Items	A diamond-shaped bullet preceding a listed item indicates that user action is required.

1 THE DOLEV 250/450

The Dolev 250/450 imagesetters are based on the proven Dolev 200/400 imagesetters, but feature new technology which dramatically reduces plotting speed time. Depending on the plot resolution, throughput can increase up to 40 percent. Dolev 250/450 design also provides improved reliability and simplified film loading.

The Dolev 250/450 supports Scitex Class Screening.

About this User Guide

Because the Dolev 250/450 is in large part based on the Dolev 200/400, you can still refer to the ***Dolev 200/400 User Guide*** for most operating information. This user guide details the operational *changes* which are required by the Dolev 250/450 Imagesetter. It is meant to be used *together* with the Dolev 200/400 User Guide. When necessary, you will be referred to the ***Dolev 200/400 User Guide*** for additional details.

Operating the Imagesetter

This new Imagesetter is based in great part on the Dolev 200/400 series. However, the following operations have been altered slightly to accommodate for increased speed and reliability of the Dolev 250/450:

- A new, easier film loading cassette is featured.
- Exposure formats include Scitex Class Screening features.
- Imagesetter settings provide for higher plotting speeds and improved performance.

Each of these items are details in the remainder of this Guide.

2 SETTING UP

With the following exceptions, setup for the Dolev 250/450 imagesetter is *identical* to that of the Dolev 200/400.

- Whenever **Dolev 200/400** is stipulated as a user response or a parameter to a fill-in field, replace it with **Dolev 250** or **Dolev 450**, as appropriate.
- The *Plotter Formats* panel in Plotter Formats has been changed to reflect new Imagesetter capabilities and Scitex Class Screen features. See *Plotter Formats*, on page 2–2.
- The *Parameters Table* panel in Plotter Settings has been changed to reflect new Imagesetter capabilities. See *Plotter Settings*, on page 2–4.

For complete setup instructions, refer to Chapter 2, *Setting Up*, of the ***Dolev 200/400 User Guide***.

Plotter Formats

Special parameters have been added to Plotter Format settings in order to take advantage of the increased spinner speed of the Dolev 250/450 and new Scitex Class Screen features.

Changing Plotter Formats

Whenever necessary, it is possible to change both **Laser Intensity** and **Spinner Speed** settings for a particular Plotter Format.

On the Whisper

- Interactive workstation: Start from the *Set Up* menu on the Utility Strip.
- I/O workstation: Start from the *Set Up* softkey of the *Main Functions* screen.

On the PS/2*

Start from the *Set Up* menu on the Utility Strip.

1. Select **Set-Up > I/O Devices > Plotters > Plotter Formats**. The *System Formats* menu will be displayed.
2. Select the format to be adjusted. (For access to user-defined formats, select **User Formats**.) At the prompt, type the *number* appearing alongside the desired format and press Enter. The selected format will be displayed.
3. Select **Next** to move to the second display screen for the chosen format.

Laser Intensity

4. Enter the desired laser intensity, from 0 - 4094, into the **Laser Intensity** field for the chosen format.

   To return to the default value (which is taken from the Resolution/Intensity table), enter: ~.

Spinner Speed

5. Select the desired spinner speed for the **Spinner Speed** field for the chosen format. Depending on your platform, either press the <space bar> to cycle through the possible field values, or select the desired value from the pop-up list.

   Tip: It is recommended that the default spinner speed be used whenever possible. Lowering the spinner speed does *not* by itself guarantee higher output quality.

   To use the default spinner speed in all cases, select ~ in the **Spinner Speed** field. Note that the default spinner speed for plotting resolutions of less than 140 lines is ~24000. The default spinner speed for plotting resolutions of 140 lines is ~20000.

6. Select **Save** to save all changes to the chosen format.
7. Select **Exit** to return to the main screen.

As noted on-screen, removing any values from the **Laser Intensity** and **Spinner Speed** fields will return the affected setting to its machine default value.

Additional Information

Refer to ***Using Scitex Class Screening*** on page 4–1, and Chapter 5, *Excurves and Formats,* in the ***Dolev 200/400 User Guide.***

Plotter Settings

The following Dolev 250/450 *Plotter Settings* panels have been changed in order to take advantage of the Imagesetter's increased spinner speed and other new capabilities:

- **Laser Resolution/Intensity Table.** Used to define the proper laser intensity for each resolution.
- **Parameters Table.** Used to monitor and control numerous Imagesetter parameters.

Changing Plotter Settings

To change information in these panels, you'll need to access the Plotter Settings function:

On the Whisper

- Interactive workstation: Start from the *Set Up* menu on the Utility Strip.
- I/O workstation: Start from the *Set Up* softkey of the *Main Functions* screen.

On the PS/2

Start from the *Set Up* menu on the Utility Strip.

♦ Select **Set-Up > I/O Devices > Plotters > Plotter Settings.** The *Plotter Setting* menu will be displayed.

Laser Intensity

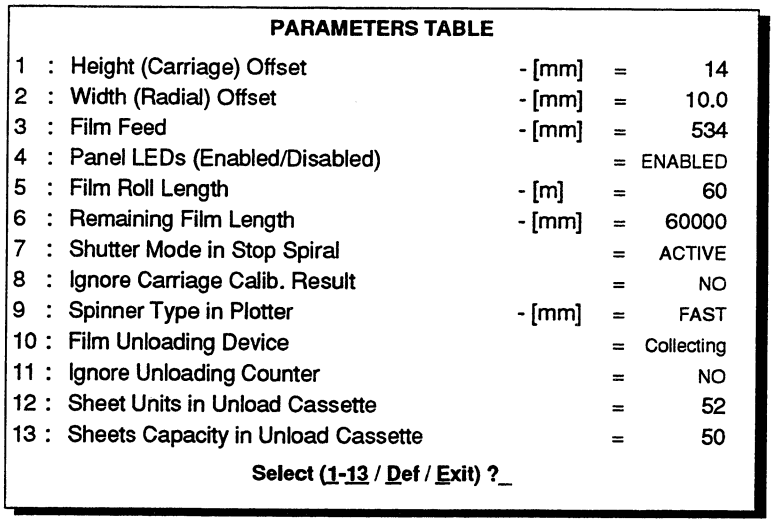
♦ To define or change laser intensity for a specific resolution, use the *Resolution Intensity Table* panel.

Select **Machine > Tables > Res/Intensity.**

Plotter Settings

♦ To change plotter parameters such as offsets, film and cassette variables, etc., use the *Parameters Table* panel.

Select **Machine > Tables > Parameters.**



Dolev 250/450 Parameters Table panel

The *Parameters Table* panel consists of the following fields:

Height (Carriage) Offset

This field determines the exact starting point of a plot in relation to the height axis of the drum. *The value is set to its optimal value at the factory. Exercise caution if you decide to change it.*

Width (Radial) Offset

This field determines the exact starting point of a plot in relation to the width axis of the drum. *The value is set to its optimal value at the factory. Exercise caution if you decide to change it.*

Film Feed

The total length of film to be fed into the Imagesetter when a film cassette is loaded. The default value for this field is 534.

Panel LEDs (Enabled/Disabled)

When enabled, the light-emitting diodes (LEDs) located on the Imagesetter Control Panel will visually track the progress of a plot. The default value for this field is ENABLED.

Film Roll Length

The standard manufactured length of the current film type.

Remaining Film Length

The length of film remaining on the current film roll, expressed in millimeters. This value is maintained automatically.

Shutter Mode in Stop Spiral

This field allows control over shutter operation during Stop Spiral mode. If set to ACTIVE (the default value), the shutter will operate during Stop Spiral. If set to PASSIVE. the shutter will *not* operate during Stop Spiral.

Ignore Carriage Calib. Result

This field provides a way to override Home Position test errors resulting from optical carriage calibration problems. If this field is set to NO (the default value), an error during the Home Position test will cause the plot to be immediately aborted. If this field is set to YES, Home Position test errors are ignored, and the plot continues.

Spinner Type in Plotter

This field must contain the value FAST in order to take advantage of increased spinner speeds.

Film Unloading Device

This field must contain one of the following values: Collecting, Active On-line, or Passive On-line.

If no on-line processor is connected, set this value to Collecting.

If you are using an on-line processor with a conveyer belt (one that pulls the film from the Imagesetter), set the field value to Active On-line. If you use an on-line processor which receives the film passively, set the field value to Passive On-line.

Ignore Unloading Counter

This field provides a way to bypass the film unit counter when necessary.

If the value in this field is set to NO (the default value for this field), whenever the unit counter reaches the value set in the **Sheets Capacity in Unload Cassette** field, the Imagesetter will issue a warning message before the start of each plot. *The Operator must confirm continuation of the exposure.* This protects the Unloading Cassette from being overloaded with film.

If the value in this field is set to YES, the Imagesetter will issue *only* a warning message at the start of each plot. Exposure will continue as normal, without regard to the number of film units already contained in Unloading Cassette.

Sheet Units in Unload Cassette

Unloaded film is measured in terms of units. The number of units already unloaded into the Unloading Cassette is maintained in this counter.

The unit counter is incremented according to actual unloaded film length, as follows:

Unloaded Film Length	Counter Increment
Up to 260 mm	1
Between 261 and 350 mm	2
Between 351 and 450 mm	3
Between 451 and 600 mm	4

Sheets Capacity in Unload Cassette

This field determines the maximum allowable number of film units which can be unloaded before the Imagesetter begins issuing a warning message prior to the start of a plot.

Up to 200 units can be unloaded into the Unloading Cassette. The default value for this field is 50.

Additional Information

Refer to Chapter 5, *Excurves and Formats,* and Chapter 6, *Calibration,* in the ***Dolev 200/400 User Guide.***

3 FILM MEDIA

The Dolev 250/450 features a new film cassette which is more reliable and is easier to load.

Loading film on the Dolev imagesetter is a two-stage process, as follows:

- First film must be loaded into the loading cassette;
- The loaded cassette is then placed into the Imagesetter.

For additional information regarding film supply, see Chapter 3, *Film Supply,* in the ***Dolev 200/400 User Guide.***

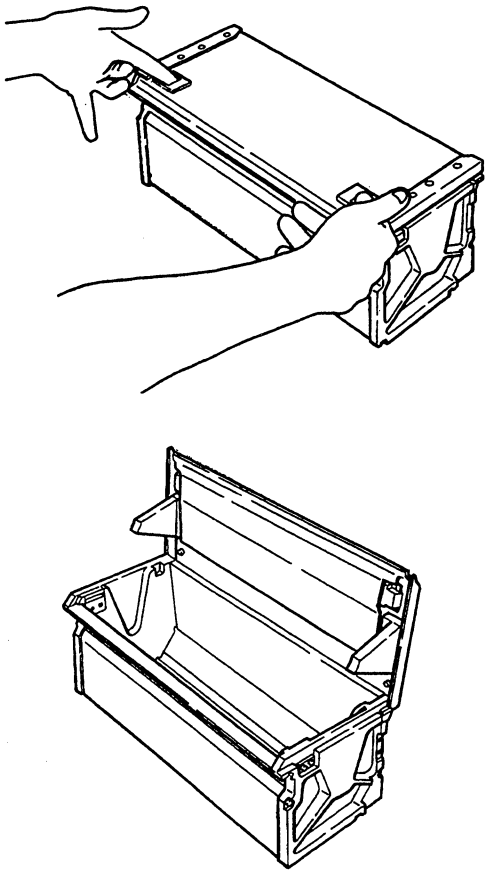
Loading Film into the Cassette

The first part of the film loading process requires loading a film roll into the loading cassette itself.

Warning: Load the film loading cassette in a darkroom. The darkroom must be equipped with a Cyan light only. No other light source is suitable to the red-sensitive film used by the Dolev.

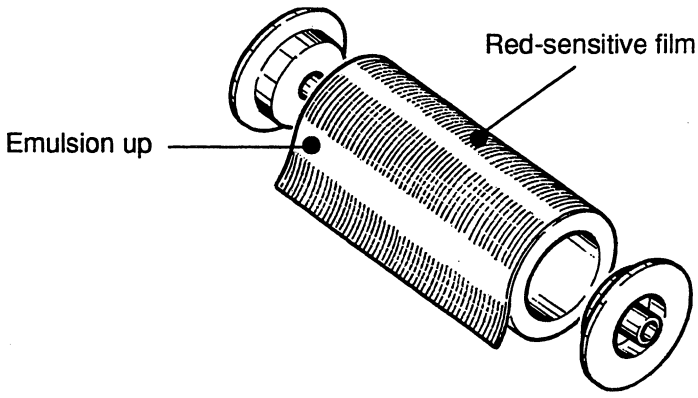
To load a roll of film into the loading cassette:

- Open the cassette by pushing the two spring-loaded tabs on its top side toward the center and lifting the cover. Make sure the cassette is sitting with the tabs closest to you.



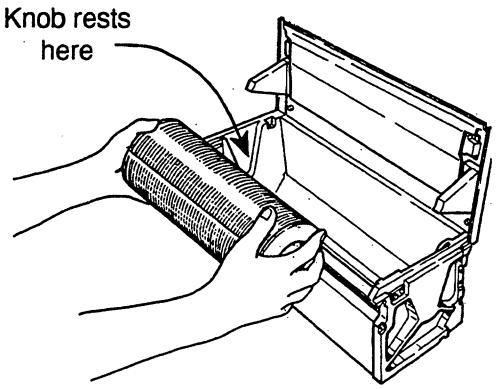
Opening the cassette

- Insert the knobs (flanges) into the ends of the roll of film. Make sure to insert them completely.



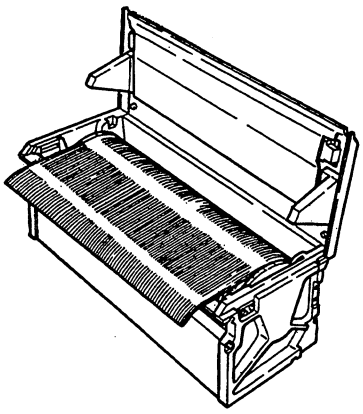
Insert flanges

- Insert the film into the cassette emulsion-side up. Rest the knobs in the V-shaped guides on each side of the cassette.



Rest in guides

- Make sure that at least 1 inch (2.5 cm) of film is sticking out of the cassette.

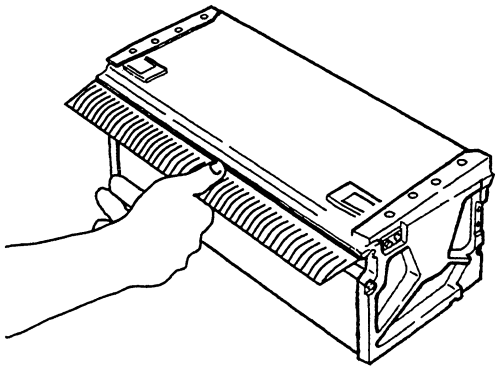


Film in cassette

- Close the cassette by pressing down the upper cover. Make sure it clicks shut. You may now exit the darkroom.

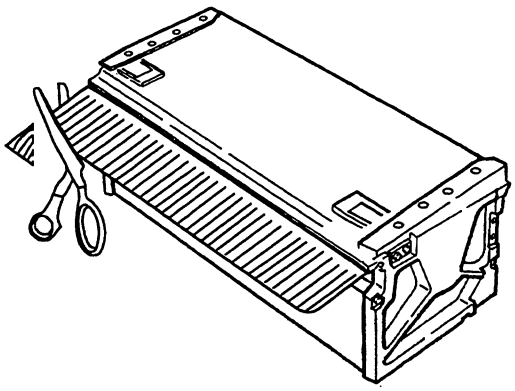
  Tip: The remainder of this film loading procedure can be performed under normal room lighting conditions.

- Grasp the loaded film at its center and pull out approximately 5 inches (13 cm) of film.



Grasp the film

♦ Using a scissors, round the corners of the film slightly in order to facilitate film loading into the Imagesetter.



Cut the film corners

You can exchange a loading cassette that already contains film or replace an empty loading cassette on the Dolev imagesetter.

Notes:

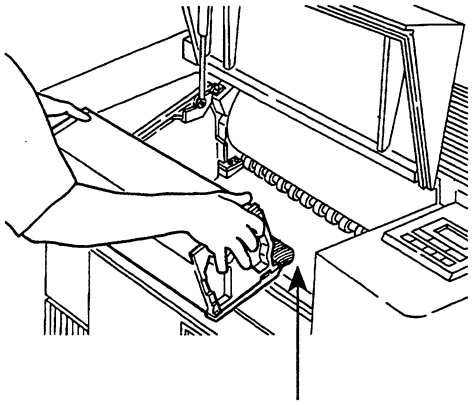
- A loading cassette containing film should be replaced when the Dolev is in STANDBY.
- When the loading cassette is empty, you receive the message: ERR:NOFILM on the operating panel.

Loading a Cassette into the Imagesetter

After having loaded the film roll into the cassette as described in the above procedure, you can place the loading cassette into the Dolev 250/450.

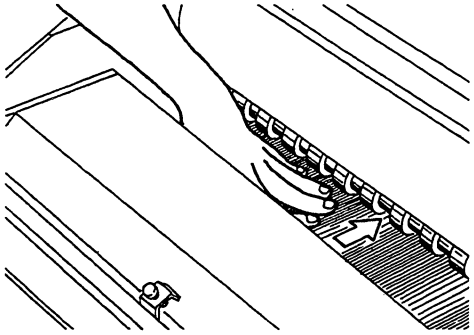
To insert the loaded film cassette into the Imagesetter:

- Open the loading door of the Imagesetter and press **FILM UNLOAD/ADVANCE**. Remove any piece of film that emerges.
- Turn over the cassette and carry it to the Imagesetter.



Turn over the cassette

- Insert the cassette between the two guides on both sides of the film plate. You should place the cassette so that it is closest to you and then push it until it stops. (It will stop when it hits the angled film ramp on the film plate.)
- Using your fingertips, push the film under the rubber rollers. Then press **FILM UNLOAD/ADVANCE** on the operating panel until the film starts to advance. Press it a few times to make sure the film is advancing straight.



Push the film forward

- Close the loading door of the Imagesetter.
- Press **FILM FEED** on the operating panel.

  The message: FEEDING CONTINUE appears. You will hear the Dolev feed the film onto the drum. When the display reads STANDBY the Dolev is ready to expose film.

4 EXPOSING FILES

Using Scitex Class Screening

Scitex Class Screening hardware is built in to the Dolev 250/450. This means that you can take advantage of today's most advanced screening capabilities.

You access Scitex Class Screening via the *Plotter Formats* panel.

Additional Information

For more information on how to use Scitex Class Screening, refer to any of the following documents:

- Chapter 3, *Scitex Class Screen,* of the **PS/2 Software 3.0.5 User Guide.**
- Chapter 1, *Scitex Class Screen,* of the **Scitex Imagesetters Whisper 7 User Guide.**