

Scanner_JX100

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Chapter 1

Scanner_JX100

1.1 Scanner: JX100

The Sharp JX-100 is a book-sized, portable color scanner. Its maximum image area is approximately 4 x 6 inches and it requires three separate passes of its lamp/image sensor to produce an RGB digital image at up to 200 dots per inch. ImageFX supports the JX-100 through a serial cable connection.

The JX-100 scanner module defaults to Preview Mode, with a reduced view of the scan area displayed in the ImageFX Preview buffer. With Preview selected, several of the other panel controls are ghosted. These remain unavailable until you switch to Detail mode.

Preview Mode, on the JX-100, produces a single-pass monochrome (Black/White only) scan. Depending on the contrast of your source material, you may need to adjust the Threshold slider, rescanning as necessary, in order for the Preview scan to pick up any useful detail

The Preview Mode controls permit basic adjustment of the scanner module for a preliminary scan. If you are just setting up your scanner for the first time, click the Serial... button to determine that the scanner module is properly configured for your hardware.

Clicking the Serial... button produces a secondary requester. The settings you enter in this requester tell ImageFX which serial port and communication rate to use.

A standard Amiga has only one serial port and it is addressed through the default settings of serial.device Unit 0. However, ImageFX supports other add-in serial cards (such as GVP's I/OExtender) as well. Simply type in the name of the new device and its appropriate Unit number (e.g.: gvpser.device, Unit 1). Normally, you want to set the baud rate (bits/second) as high as possible. Refer to the JX-100 documentation for an upper limit.

By default, the preview scan is always performed at 50 dots per inch. This provides the quickest initial scanning time while capturing enough detail to allow accurate cropping of the image. When you switch to Detail Mode, you may select a resolution setting up to the scanner's maximum of 200 dpi.

By default, the Scan Area controls remain blank until the first preview scan is performed. The Box/Full cycle gadget is ghosted, indicating that the first scan will use the entire available scan area. After the first scan, these controls become active and permit precise cropping of the image area.

X and Y Area Dimensions

The top Integer gadgets are for directly entering scan Width and Height pixel dimension values. Clicking on either Area button produces a secondary dimensions requester. They also act as readouts for values set through use of the Interactive Cropping Tool.

X and Y Offset The bottom Integer gadgets are for directly entering pixel dimension values representing an offset from the top, left corner of the scan area. Clicking on either Offset button produces a secondary dimensions requester. They also act as readouts for Offset values set through use of the Interactive Cropping Tool.

Measuring System

This cycle gadget determines whether Area and Offset dimensions are expressed in terms of Pixels or Inches (centimeters, if Metric Units is selected in the Prefs panel).

Scan Limit This cycle gadget determines whether the Preview or Detail scan will cover the Boxed area represented in the Area and Offset dimension readouts (also represented by the size and position of the Interactive Cropping Tool), or the Full scanner image area.

Orientation, Preview/Detail & Scan Buttons

Assuming that you have set all of the scanning controls to appropriate values, the two gadgets at the left of the Epson module panel are used to actually produce the scan:

Portrait/Landscape

You can determine whether the scanned image data will be loaded into the ImageFX main buffer in portrait or landscape orientation. This setting does not change the direction of the scanner. It merely saves you the additional step of rotating the scan 90 degrees.

Preview/Detail This cycle gadget is used to determine if the scan will be used as an approximate or Preview image for purposes of setting up a particular area to be scanned in detail. The Detail setting prepares ImageFX to load the full-fidelity 24- or 8-bit data into its Main

image buffer.

Scan When all other scanning parameters are set,
 click the Scan button to scan an image.

When Detail Mode is selected, the Portrait/Landscape gadget will be ghosted and the previously ghosted color controls will become available. These controls allow you to determine color depth and components for the detail scan.

Color Depth

The JX100 supports scanning at 6-bits of greyscale and 18-bits (6-bits x 3 scans each for Red, Green and Blue) of color data. This cycle gadget/Pop-Up menu allows you to choose either greyscale or color scanning.

Color Channel

When set to 18-bit color, you may choose to scan all three color components at once (R+G+B), or you may scan each color component separately. This cycle gadget/Pop-Up menu allows you to make color channel selections.

The manual contains a tutorial entitled "Scanning an Image with JX-100." which describe a typical scanning procedure using the JX-100 scanner module. You are encouraged to read and follow along with it while you learn the capabilities of this scanner module. As with all creative processes, your own method may vary.
