

Arexx_Scanners

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Chapter 1

Arexx_Scanners

1.1 ImageFX Scanner Module Commands

Choose a scanner module:

```
*   DigiView          (2.6)
    Epson
    FrameGrabber
    FrameGrabber256
    IVFG
    JX100
*   ScanJet
    Toaster
    VLAB
```

1.2 DigiView Module Commands

DigiView Module Commands:

```
Scanner Grab
```

1.3 Epson Module Commands

Epson Module Commands:

```
Scanner DetailScan
Scanner Scan
Scanner Gamma
Scanner Bright
Scanner Correct
```

1.4 FrameGrabber Module Commands

FrameGrabber Module Commands:

```
Scanner Color
Scanner Delay
Scanner Grab
Scanner Preview
Scanner Size
```

1.5 FrameGrabber256 Module Commands

FrameGrabber256 Module Commands:

```
Scanner Delay
Scanner Grab
Scanner Preview
Scanner Size
```

1.6 IVFG Module Commands

IVFG Module Commands:

```
Scanner Area
Scanner Depth
Scanner Freeze
Scanner Grab
Scanner Preview
```

1.7 JX100 Module Commands

JX100 Module Commands:

```
Scanner Area
Scanner Reset
Scanner Scan
Scanner Thresh
```

1.8 ScanJet Module Commands

ScanJet Module Commands:

* Scanner Scan (2.6)

1.9 Toaster Module Commands

Toaster Scanner Commands:

Scanner Grab

1.10 VLAB Module Commands

VLAB Module Commands:

Scanner Grab

Scanner Set

1.11 Epson: Scanner DetailScan

SCANNER DETAILSCAN (2.0)

FORMAT

Scanner DetailScan

Left,Top,Width,Length,Dpi/N,Grey/S,Mono/S,Land/S,ADF/S,TPU/S,Mapped/S

FUNCTION

Perform a detail scan.

INPUTS

Left, Top, Width, Length

Scanning area, specified in inches. The area is always set in terms of portrait orientation. If not specified, the full page is scanned.

Dpi

Density at which to scan. Must be a valid DPI or the command will fail.

Grey, Mono

Scan in greyscale or monochrome, respectively. If neither is specified, the scan is made in color.

Land

If specified, scan in landscape mode. That is, the image is rotated 90 degrees counter-clockwise.

ADF, TPU

Enable the Automatic Document Feeder or Transparency Unit options, respectively. Only one can be used at a time.

Mapped

Scan monochrome image directly into a colormapped format which can then be saved immediately with SaveRenderedAs, without the need to render. See the ImageFX LoadMapped command for more details. This only works in monochrome.

RESULT

Non-zero if the scan failed (eg. a page was not in ADF).

1.12 Epson: Scanner Scan

SCANNER SCAN**FORMAT**

Scanner Scan Grey/S,Color/S,Mono/S

FUNCTION

Scan an image into an ImageFX buffer.

INPUTS

Grey, Color, Mono
Specify the type of scanning.

RESULT

None.

1.13 Epson: Scanner Gamma

SCANNER GAMMA**FORMAT**

Scanner Gamma Curve/N/A

FUNCTION

Set scanner gamma curve.

INPUTS

Curve
Gamma curve. 0 = CRT A, 1 = CRT B, 2 = Printer A, 3 = Printer B, 4 = Printer C.

RESULT

None.

1.14 Epson: Scanner Bright

SCANNER BRIGHT**FORMAT**

Scanner Bright Level/N/A

FUNCTION

Set scanner brightness level.

INPUTS

```
Level
    Brightness level (-3 to 3).

RESULT
    None.
```

1.15 Epson: Scanner Correct

SCANNER CORRECT

```
FORMAT
    Scanner Correct Curve/N/A

FUNCTION
    Set scanner color correction.

INPUTS
    Curve
        Color correction curve. 0 = Dot Matrix, 1 = Thermal, 2 = Ink
        Jet, 3 = CRT.

RESULT
    None.
```

1.16 FrameGrabber: Scanner Color

SCANNER COLOR

```
FORMAT
    Scanner Color On/S,Off/S

FUNCTION
    Turn color capturing on or off. Note that not all resolutions
    support color framegrabbing.

INPUTS
    On, Off
        Enable or disable color capturing, respectively.

RESULT
    None.
```

1.17 FrameGrabber: Scanner Delay

SCANNER DELAY

```
FORMAT
    Scanner Delay Receive/N,Send/N

FUNCTION
```

Select the hardware timing delays. Normally these are set automatically based on the CPU in your machine, but you may need to adjust them manually.

INPUTS

Receive

Parallel port receive delay, in 1/50th seconds.

Send

Parallel port send delay, in 1/50th seconds.

RESULT

None.

1.18 FrameGrabber: Scanner Grab

SCANNER GRAB**FORMAT**

Scanner Grab

FUNCTION

Capture a frame using the current settings.

INPUTS

None.

RESULT

None.

1.19 FrameGrabber: Scanner Preview

SCANNER PREVIEW**FORMAT**

Scanner Preview On/S,Off/S

FUNCTION

Turn the preview on or off. With the preview on, the video signal from the Framegrabber is piped to your monitor display.

INPUTS

On, Off

Enable or disable the preview mode, respectively.

RESULT

None.

1.20 FrameGrabber: Scanner Size

SCANNER SIZE

FORMAT

Scanner Size Size/N/A

FUNCTION

Select the resolution of subsequent framegrabs.

INPUTS

Size

Numeric code indicating the new resolution. 0=320x200,
1=384x240, 2=320x400, 3=640x200, 4=640x400.

RESULT

None.

1.21 FrameGrabber256: Scanner Delay

SCANNER DELAY

FORMAT

Scanner Delay Receive/N,Send/N

FUNCTION

Select the hardware timing delays. Normally these are set automatically based on the CPU in your machine, but you may need to adjust them manually.

INPUTS

Receive

Parallel port receive delay, in 1/50th seconds.

Send

Parallel port send delay, in 1/50th seconds.

RESULT

None.

1.22 FrameGrabber256: Scanner Grab

SCANNER GRAB

FORMAT

Scanner Grab

FUNCTION

Capture a frame using the current settings.

INPUTS

None.

RESULT
None.

1.23 FrameGrabber256: Scanner Preview

SCANNER PREVIEW

FORMAT
Scanner Preview On/S,Off/S

FUNCTION
Turn the preview on or off. With the preview on, the video signal from the Framegrabber is piped to your monitor display.

INPUTS
On, Off
Enable or disable the preview mode, respectively.

RESULT
None.

1.24 FrameGrabber256: Scanner Size

SCANNER SIZE

FORMAT
Scanner Size Size/N/A

FUNCTION
Select the resolution of subsequent framegrabs.

INPUTS
Size
Numeric code indicating the new resolution. 0=320x200,
1=384x240, 2=320x400, 3=640x200, 4=640x400.

RESULT
None.

1.25 IVFG: Scanner Area

SCANNER AREA

FORMAT
Scanner Area Left/N,Top/N,Width/N,Height/N

FUNCTION
Define the screen area for subsequent framegrabs.

INPUTS

Left, Top, Width, Height
Screen region in pixels.

RESULT
None.

1.26 IVFG: Scanner Depth

SCANNER DEPTH

FORMAT
Scanner Depth Bits/N

FUNCTION
Choose the number of bits with which to grab subsequent frames.

INPUTS
Bits
Should be either 12 or 24, for 12-bit or 24-bit frame grabbing, respectively.

RESULT
None.

1.27 IVFG: Scanner Freeze

SCANNER FREEZE

FORMAT
Scanner Freeze On/S,Off/S

FUNCTION
Freeze or unfreeze the display.

INPUTS
On, Off
Freeze or unfreeze the display, respectively.

RESULT
None.

1.28 IVFG: Scanner Grab

SCANNER GRAB

FORMAT
Scanner Grab

FUNCTION
Capture a frame using the current settings.

INPUTS

None.

RESULT

None.

1.29 IVFG: Scanner Preview

SCANNER PREVIEW

FORMAT

Scanner Preview On/S,Off/S

FUNCTION

Enable or disable external video.

INPUTS

On, Off

Enable or disable the external video display, respectively.

RESULT

None.

1.30 JX100: Scanner Area

SCANNER AREA

FORMAT

Scanner Area Left/N,Top/N,Width/N,Height/N

FUNCTION

Set the scanning area in scanner dots. The maximum scanner area is 100x160. There are 25 scanner dots to the inch. Note that this command always assumes a Portrait mode scan; you must translate the coordinates yourself if you are doing a landscape scan.

Subsequent scans will be constained to this area.

INPUTS

Left, Top, Width, Height

Scan area, in scanner dots.

RESULT

None.

1.31 JX100: Scanner Reset

SCANNER RESET

FORMAT

Scanner Reset

FUNCTION

Attempt to reset the scanner to its default state.

INPUTS

None.

RESULT

None.

1.32 JX100: Scanner Scan

SCANNER SCAN

FORMAT

Scanner Scan Dpi/N,Grey/S,Color/S,Port/S,Land/S

FUNCTION

Initiate a detail scan of the current area.

INPUTS

Dpi

DPI of the scan; must be one of 50, 100, or 200.

Grey, Color

Type of scan; 6-bit greyscale or 18-bit color, respectively.

Port, Land

Orientation of the scan; portrait or landscape.

RESULT

None.

1.33 JX100: Scanner Thresh

SCANNER THRESH

FORMAT

Scanner Thresh Grey/N/A

FUNCTION

Set the threshold for preview scans. The lower the threshold, the brighter the preview scans will be.

INPUTS

Grey

Monochrome threshold value (1-127).

RESULT
None.

1.34 VLAB: Scanner Grab

SCANNER GRAB

FORMAT
Scanner Grab

FUNCTION
Grab a frame.

INPUTS
None.

RESULT
None.

1.35 VLAB: Scanner Set

SCANNER SET

FORMAT
Scanner Set
NoLace/S, Lace/S, NTSC/S, PAL/S, Luma/S, NoLuma/S, Chroma/S, NoChroma/S, VTR/S, NoVTR/S, VSC/S, NoVSC/S, Noise/N, Filter/N, Hue/N, Input/N

FUNCTION
Change scanner settings.

INPUTS
NoLace, Lace
Interlace setting.

NTSC, PAL
NTSC or PAL setting.

Luma, NoLuma
Enable or disable luma correction.

Chroma, NoChroma
Enable or disable chroma correction.

VTR, NoVTR
Enable or disable VTR setting.

VSC, NoVSC
Enable or disable VSC setting.

Noise

```
Noise reduction setting.

Filter
    Filter setting.

Hue
    Hue correction setting.

Input (2.0)
    Input from which to scan.

RESULT
    None.
```

1.36 Toaster: Grab

SCANNER GRAB

```
FORMAT
    Scanner Grab DV1/S,DV2/S,Fields/N

FUNCTION
    Grab image from a Toaster framebuffer.

INPUTS
    DV1, DV2
        Select framebuffer to grab from. If not specified, it defaults to
        whatever the interface is set for.

    Fields
        Number of fields to grab (1-4) or 5 for motion removal.

RESULT
    None.
```

1.37 ScanJet: Scanner Scan

SCANNER SCAN (2.6)

```
FORMAT
    Scanner Scan
        Threshold/S,Dithered/S,Grey/S,Color/S,Bright/N,Contrast/N,
        X720OFF/N,Y720OFF/N,X720SIZE/N,Y720SIZE/N,DPI/N

FUNCTION
    Scan an image into an ImageFX buffer.

INPUTS
    Threshold

    Dithered
```

```
Grey, Color
    Specify the type of scanning.

Bright, Contrast

X720OFF, Y720OFF

X720SIZE, Y720SIZE

DPI
    Scanning DPI.

RESULT
    None.
```

1.38 DigiView: Scanner Grab

SCANNER GRAB (2.6)

```
FORMAT
    Scanner Grab Hires/S,Lace/S,Xover/S,Yover/S,Red/S,Green/S,Blue/S

FUNCTION
    Capture a frame from the DigiView device into an ImageFX buffer.

INPUTS
    Hires, Lace
        Horizontal and vertical resolution.

    Xover, Yover
        Enable horizontal and vertical overscan.

    Red, Green, Blue
        Color channel to capture.

RESULT
    None.
```