

NEXTSTEP for Intel Processors

Title: The ELSA *WINNER 1000AVI*

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Usage Commentary

The ELSA *WINNER 1000AVI* displays up to 1152 x 864 16 bit color graphics or 1600 x 1200 8 bit grayscale/color within a NEXTSTEP® system. Configured with 2 megabytes of video RAM, the card is available as *WINNER 1000AVI-PCI-2* with a PCI or as *WINNER 1000AVI-VL-2* with a VL bus interface. There is no restriction on system main memory size when operating with an ELSA *WINNER 1000AVI* card. Please note that **8-bit Color** resolutions are only supported with NEXTSTEP 3.3.

NEXTSTEP® *for Intel® processors* Release 3.2 or a later version is needed to use the card. The PCI versions of the *WINNER 1000AVI* are supported by a multiple screen driver for use with NEXTSTEP Release 3.3.

***WINNER 1000AVI-2* Display Adapter Display Modes** **135MHz RAMDAC, PCI or VLB, 2 MB VRAM**

32-bit Color

800x 600, 75 Hz
640x 480, 60 Hz

16-bit Color

1152x 864, 60 Hz
1120x 832, 72 Hz
1024x 768, 75, 70 Hz
800x 600, 100, 75, 70, 60 Hz

8-bit Grayscale or 8-bit Color (NEXTSTEP Release 3.3 only)

1600x1200, 52 Hz
1536x1152, 56 Hz
1408x1024, 70 Hz
1280x1024, 75 Hz
1152x 864, 100, 91, 83, 76, 60 Hz
1120x 832, 100, 94, 88, 72 Hz
1024x 768, 100, 75, 70, 60 Hz
800x 600, 100, 75, 70, 60 Hz
640x 480, 60 Hz

Although the driver comes with a rich palette of video modes, optimized in ergonomics for ELSA card and ELSA monitor combinations, new video modes can be created within hardware constraints using MS DOS based ELSA tools. Thus it is possible to adapt the card to the limits of a particular monitor model or e.g. to have interlaced display modes, by creating so-called timing data sets or "timings". Once such a custom timing is created it may be copied to multiple systems by recording the 10 numbers used to describe the timing.

Setup and Installation

The required driver is part of the product. Detailed installation instructions can be found on disc and CD accompanying the graphics card in the file *next/readme.txt*. The card is supported by two drivers, a standard driver that supports the NEXTSTEP software version 3.2 and 3.3 and a multiple screen driver that supports version 3.3. See subdirectory *standard* resp. *multiscr*. The readme files here also contain up to date technical background information.

The drivers, which support the ELSA *WINNER 1000/2000* graphics cards series, are available via anonymous FTP (ftp.next.com) and via email (nextanswers@next.com). Additionally, they can be downloaded from the BBS *ELSA ONLINE*, Aachen, Germany (0049+241-9177-981) using a communication program (2400-28800 bps, 8n1). In the US, call (408)-565-9630 for the BBS at ELSA Inc. It is not necessary to run the MS-DOS version of the ELSA configuration software when working with ELSA *WINNER* cards in the NEXTSTEP system.

To install a driver package obtained via ftp, double-click on the package's icon in the Workspace. After installation

with the Installer, select "ELSA WINNER 1000/2000" as display adapter in the configuration application. It is required to select the installed board now, since the driver supports all ELSA *WINNER* cards. To do so, press the "select" button. A window named **ELSA *WINNER* Inspector** is displayed. A technical information box shows what to do next and, after a video mode is selected, the line frequency and pixel clock corresponding to the video mode. Installer and Configuration application are part of the NEXTSTEP software.

Known Problems

- none