

NEXTSTEP for Intel Processors

Title: ELSA *WINNER 1000*/ISA Video Adapter

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Usage Commentary

The 2-megabyte version of the ELSA *WINNER 1000/ISA* displays up to 1024 x 768 16 bit color graphics or 1600 x 1200 8 bit grayscale/color within a NEXTSTEP[®] system. The *WINNER 1000/ISA-2* supports 2 megabytes of video RAM; the *WINNER 1000/ISA-1* supports 1 megabyte of video RAM. Both cards support the ISA bus interface. There is no restriction on system main memory size when operating with an ELSA *WINNER 1000/ISA* 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.

WINNER 1000/ISA-2 Display Adapter Display Modes
135MHz RAMDAC, ISA, 2 MB VRAM

8-bit Grayscale	8-bit Color	16-bit Color	32-bit Color
1600x1200,52Hz	1600x1200,52Hz	1024x768 70,75Hz	640x480,60Hz
1536x1152,56Hz	1536x1152,56Hz		
1408x1024,70Hz	1408x1024,70Hz	800x600 60,70,75,100Hz	
1280x1024,75Hz	1280x1024,75Hz		
1152x864 60,76,83,91,100Hz	1152x864 60,76,83,91,100Hz		
1120x832 70,88,94,100Hz	1120x832 70,88,94,100Hz		
1024x768 60,70,75,100Hz	1024x768 60,70,75,100Hz		
800x600 60,70.75.100Hz	800x600 60,70.75.100Hz		
640x480,60Hz	640x480,60Hz		

WINNER 1000/ISA-1 Display Adapter Display Modes

135MHz RAMDAC, ISA, 1 MB VRAM

8-bit Grayscale	8-bit Color	16-bit Color	32-bit Color
1024x768 60,70,75Hz	1024x768 60,70,75Hz	800x600,60Hz	
800x600 60,70,75,100Hz	800x600 60,70,75,100Hz		
640x480,60Hz	640x480,60Hz		

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 in a file named "readme" on the diskette labeled "A:WINSETUP" accompanying the graphics card. See subdirectory "nextstep". The readme file also contains more technical background information.

The driver, which supports the ELSA *WINNER 1000/2000* graphics cards series, is available via anonymous FTP (<ftp.next.com>) and via email (nextanswers@next.com). Additionally, it 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 (415) 615-5862 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