

ELSA GLoria™ II

The graphics solution for high-end professional graphics applications

The *ELSA GLoria II* brings the "kick inside" for high-end 3D applications. The latest top-class solution from ELSA is aimed at the demanding markets for high-end 3D CAD applications, visualization, animation and digital content creation. The board features the workstation GPU Quadro from NVIDIA with its 350-MHz RAMDAC and 64-MB unified memory. Even resolutions as high as 2048 x 1536 can be ergonomically displayed at 85 Hz in 3D TrueColor. This makes the *GLoria II* the right choice for all those who demand no-compromise 3D performance. Currently in preparation is the support of the increasingly popular shutter glasses (e.g. *ELSA 3D REVELATOR*). The glasses allow the highly effective, stereoscopic 3D display of all OpenGL applications and so open up a completely new dimension in the construction and presentation of 3D objects and animations. This function is an integral part of the *ELSA Software Advantage*, a package including graphics driver, application drivers and utilities that is supplied as standard and is always available in the latest version as a download via Internet.

- Productivity advantages through the *ELSA Software Advantage*™
 - High-performance graphics drivers for Windows NT 4.0, Windows 98 and Windows 2000
 - User-friendly tools in *ELSA WINmanSuite*™
 - OpenGL drivers optimized for professional graphics applications
 - Dedicated applications driver for AutoCAD 2000/R14 and 3D Studio MAX/VIZ R3.x/R2.x
- High-end graphics performance
 - The latest NVIDIA Quadro workstation chip
 - 17 million polygons per second
 - 500 million texture mapping pixels per second (bilinear filtering)
 - 250 million texture mapping pixels per second (trilinear filtering)
 - Hardware acceleration of up to 8 light sources
 - Near complete relief of graphics operations from the CPU for optimized application performance
- Maximum reliability with workstation performance through ELSA graphics technology
 - The latest workstation chip technology by NVIDIA
 - Designed for the future: universal card design for AGP 2x/4x
 - 64-MB unified Memory
 - 350-MHz RAMDAC
 - Resolutions of up to 2048 x 1536 pixels at 85 Hz in 3D TrueColor
- 16:10 wide-screen support for 24" monitors (e.g. *ELSA ECOMO 850*)
- Contains software DVD player *ELSAmovie*
- Unbeatable price-performance ratio

Equipment	Graphics processor RAMDAC/pixel clock Memory BIOS Bus system	NVIDIA Quadro Integrated/max. 350 MHz 64-MB SDRAM (unified memory) VESA 3 (flash ROM) AGP 2x/4x (universal card design)		
Performance	Graphics standards 3D hardware features Standards Connectors Dimensions	OpenGL (Windows 98/Windows NT4.0/Windows 2000), DirectX3 (Windows NT 4.0), DirectX5/6 (Windows 98/Windows 2000), stereo OpenGL pending Single-pass multitexturing, MIP mapping, Gouraud shading, fogging, stencil, fullscreen antialiasing, bump mapping, and much more. VESA DPMS, DDC2B, plug&play Monitor: D-shell, 15-pin 167 x 38 mm (not including the mounting bracket)		
Resolution	Pixel	Refresh rate in Hz with HighColor/TrueColor	3D resolution with double buffering	
			HighColor	TrueColor
	2048 x 1536	85	●	●
	1920 x 1200*	113	●	●
	1920 x 1080	125	●	●
	1792 x 1120*	129	●	●
	1600 x 1280	127	●	●
	1600 x 1200	135	●	●
	1600 x 1000*	162	●	●
	1536 x 960*	176	●	●
	1280 x 1024	198	●	●
	1152 x 864	200	●	●
	1024 x 768	200	●	●
	800 x 600	200	●	●
640 x 480	200	●	●	

	These values are maximums, and may not be achievable under all operating systems and conditions. * Special resolutions for 16:10 wide format monitors (e.g. <i>ELSA ECOMO 850</i>), HighColor = 65,536 TrueColor = 16.7 million colors	
Graphics drivers	Operating systems Windows utilities	Windows NT 4.0, Window 98, Windows 2000 (pending) <i>ELSA WINman Suite:</i> <i>ELSA Application Settings</i> (Windows NT 4.0 only), <i>ELSA Settings</i> , <i>ELSA ColorControl</i> , <i>ELSA Info</i> , <i>ELSA 3D Settings</i> (Windows 98 only)
Application drivers	AutoCAD® 2000	<i>ELSA POWERdraft™</i> 2000: Modular driver system for enhanced 2D and 3D productivity (Windows NT 4.0 only)
	AutoCAD® R14	<i>ELSA POWERdraft™</i> : 2D display list driver incl. tools (nur NT4.0)
	3D Studio MAX/VIZ R3.x/R2.x	<i>ELSA MAXtreme™</i> : Driver for enhanced productivity, with ELSA's stereo plug-in
	Other professional graphics applications	ELSA high-performance driver for OpenGL and DirectX
3D viewer	AutoCAD, VRML, Open Inventor	<i>ELSAview 3D™</i> : OpenGL-based 3D viewer for the display and visualization of 3D models in stereo under AutoCAD® 2000, AutoCAD® R14.01, Autodesk Mechanical Desktop, Autodesk Architectural Desktop, and as a standalone application (VRML 2.0, Open Inventor) under Windows NT
Supported applications (in alphabetical order)	3D Studio MAX/VIZ, ALLPLAN, ANVIL5000 u.a., AnySIM, AutoCAD R14/2000, Autodesk Architectural Desktop, Autodesk Inventor, Autodesk Mechanical Desktop, AVS/Express, CA Unicenter TNG, CADdy++, dVISE NT, EDS Unigraphics, Extreme 3D, GLView, Helix, HiCAD, I-DEAS Master Series, Lightscape, LightWave 3D, Logocad/Triga, MicroStation, Open Inventor-based applications, Pro/Desktop, Pro/ENGINEER, Pro/MECHANICA, Solid Edge, SolidWorks, Superscape, visplan, WorldToolKit etc.	
Certifications	FCC, CE, Windows 98, Windows NT 4.0, Windows 2000	
Package contents	Manual Installation Guide Driver/software Bundle software	Comprehensive documentation in German, English and French German, English, French, Italian, Spanish and Dutch on CD Software DVD player <i>ELSAmovie</i> on CD
Warranty Support	6 years via hotline and Internet	
Item no.	170	<i>ELSA GLoria II</i> (64 MB), AGP