ELSA GLoria III™

High-End Graphics Solution with Workstation Power

No-compromise 3D performance at ELSA has always been named *GLoria*. Meeting the toughest demands for visualizations, animation, CAD, and simply everything that brought even high-end workstations to their knees, the new *ELSA GLoria III* provides the graphics solution for the hardest of tasks, bordering even on the impossible. Thanks to 64 MB of ultra-fast DDR RAM combined with NVIDIA's latest workstation GPU, even resolutions of up to 2048 x 1536 pixels are made possible, and that—thanks to 350-MHz RAMDAC—at a highly ergonomic 85 Hz in 3D TrueColor. *ELSA GLoria III* is the ideal graphics solution for anyone who thinks good just isn't good enough.

- ELSA high-end workstation performance
- Absolute stability and reliability in daily use
- Latest high-end graphics processor Quadro2 Pro from NVIDIA
- 31 million polygons per second, over 1 billion texture-mapped pixels per second
- Hardware acceleration of up to 8 light sources, hardware anti-aliasing
- 64-MB ultra-fast DDR RAM graphics memory (unified memory)
- Fill rate of up to 6.4 Gigabyte per second
- 350-MHz RAMDAC displays even resolutions of 2048 x 1536 pixels ergonomically and in TrueColor
- Connection of analog or digital monitors (digital up to 1280 x 1024)
- Productivity advantages with the *ELSA Software Advantage™*
  - High-performance graphics driver for Windows 2000, Windows NT 4.0 and Windows 98
  - User-friendly tools with *ELSA WINman Suite™*
  - OpenGL drivers optimized for professional graphics applications
  - Dedicated application drivers for AutoCAD 2000 and 3D Studio MAX R3.x
  - Linux support
  - 16:10 wide-screen support for 24″ monitors (e.g. *ELSA ECOMO 850*)
  - Including Software DVD player *ELSAmovie* on CD
- 6-year warranty

Equipment		
	Graphics processor	NVIDIA Quadro2 Pro
	RAMDAC/pixel cycle	Integrated/max. 350 MHz
	Memory outfit	64-MB DDR SDRAM (unified memory)
	BIOS	VESA 3.0 (flash ROM)
	Bus system	AGP 2x/4X (universal card design)
Features	Graphics standards	OpenGL (Windows 2000, Windows NT 4.0 and Windows 98), DirectX3 (Windows NT 4.0), DirectX7 (Windows 2000, Windows 98), XFree86 (Linux)
	3D hardware features	Single-pass multi-texturing, 4 HyperTexel pipelines with every 2 per-pixel shaders, MIP mapping, Gouraud shading, fogging, stencil, bump mapping, texture and lighting of the second generation, anti-aliasing
	Standards	VESA DPMS, DDC2B, plug&play
	Connectors	Monitor analog VGA, D-shell, 15-pin
		Monitor digital DVI-I (simultaneous operation not possible)
	Dimensions	167 x 104 mm (not including the mounting bracket)

Refresh rates	Resolutions with Z buffering/ double buffering	Output		HighColor 32,768 Colors	TrueColor 16.7 Mio. Colors
		VGA analog	DVI digital		
	2048 x 1536	85 Hz	–	•	•
	1920 x 1200*	113 Hz	–	•	•
	1920 x 1080	125 Hz	–	•	•
	1792 x 1120*	129 Hz	–	•	•
	1600 x 1280	127 Hz	–	•	•
	1600 x 1200	135 Hz	–	•	•
	1600 x 1000*	162 Hz	–	•	•
	1536 x 960*	176 Hz	–	•	•
	1280 x 1024	198 Hz	75/60 Hz	•	•
	1152 x 864	200 Hz	75/60 Hz	•	•

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Refresh rates	Resolutions with Z buffering/ double buffering	Output VGA analog	DVI digital	HighColor 32,768 Colors	TrueColor 16.7 Mio. Colors
	1024 x 768	200 Hz	75/60 Hz	•	•
	800 x 600	200 Hz	75/60 Hz	•	•
	640 x 480	200 Hz	75/60 Hz	•	•

*) special resolutions for 16:10 wide-screen monitors (e. g. *ELSA ECOMO 850*)

These values are maximums, and may not be achievable under all operating systems and conditions. Other graphics modes are easily configured in Windows®.

Drivers&Software	Operating systems	Windows 2000, Windows NT® 4.0®, Windows® 98, Linux
	CAD	*ELSA POWERdraft*™ 2000: Modular driver system for enhanced 2D and 3D productivity (Windows 2000 and Windows NT 4.0)
		ELSAview 3D™: OpenGL-based 3D viewer for the display and visualization of 3D models in stereo under AutoCAD® 2000, Autodesk® Mechanical Desktop, Autodesk Architectural Desktop, and as a standalone application (VRML 1.0/2.0, Open Inventor) under Windows 2000 and Windows NT 4.0.
		ELSA MAXtreme™ : Driver for enhanced productivity, with an own InScene renderer for 3D Studio MAX/VIZ R 3.x
	Other professional graphics applications	ELSA high-performance driver for OpenGL and DirectX
	Windows utilities	*ELSA WINman Suite*™: ELSA Application Settings (Windows 2000 and Windows NT 4.0), ELSA Settings, ELSA COLORcontrol, ELSA Info, ELSA 3D-Settings
	Bundle software	Software DVD player *ELSAmovie*™
Supported applications	Selection in alphabetical order This list includes, but is not limited to, the following applications	3D Studio MAX/VIZ 3.x, ALLPLAN, Ansys, AutoCAD 2000, Autodesk Architectural Desktop, Autodesk Inventor, Autodesk Mechanical Desktop, AVS/Express, CATIA, CADdy++, Cinema 4D, Extreme 3D, HiCAD, I-DEAS Master Series, Lightscape, LightWave 3D, Logocad Triga, Maya NT, MicroStation, Open Inventor-based applications, Pro/Desktop, Pro/ENGINEER, Pro/MECHANICA. SoftImage, Solid Edge, SolidWorks, Unicenter TNG, Unigraphics, visplan, WorldToolKit, etc.
Certifications		FCC, CE, BSMI, Windows 2000, Windows NT 4.0, Windows 98
Package contents	Manual Installation Guide Bundle software	Comprehensive documentation in German, English and French German, English, French, Italian, Spanish and Dutch Software DVD player *ELSAmovie* on CD Drivers and software on CD
Service	Warranty Support	6 years Via hotline and Internet
Item no.	0412	*ELSA GLoria III* (64 MB), AGP