

ELSA Synergy III™

The Future-Ready Dual-Screen Solution for Professionals

The *ELSA Synergy III™* is currently the most flexible graphics solution for professional 2D/3D applications. One monitor isn't enough for a professional—that's why two can be hooked up to the *ELSA Synergy III*. Just about any monitor will do. In just about any combination. Analog or digital, VGA or DVI... simply plug them in. Professional 3D work on two monitors requires high levels of 3D power—*ELSA Synergy III* takes its power from the Quadro2 MXR from NVIDIA. This graphics chip is based on the second generation of the prize-winning Transform&Lighting (T&L) engine from NVIDIA. The Quadro2 MXR computes up to 25 million polygons/second and is right up in front in the top class of 3D accelerators. Every *ELSA Synergy III* is accompanied by the renowned *ELSA Software Advantage™*—a package of professional extensions for the leading CAD applications. With the *ELSA Synergy III*, professionals extend their possibilities, increase productivity and make themselves ready for the future.

- ELSA professional workstation performance
 - Perfected and reliable for hard daily use
 - Flexible dual-screen solution: Connection of analog and digital monitors
 - Latest high-end graphics processor Quadro2 MXR from NVIDIA
 - 25 million polygons per second, over 400 million texture-mapped pixels per second
 - Fill rate with close to 3 GB/second
 - Hardware acceleration of up to 8 light sources
 - 32-MB fast SDRAM graphics memory (unified memory)
 - 350-MHz RAMDAC displays even resolutions of 1920 x 1200 (digital up to 1280 x 1024) ergonomically and in TrueColor
- Productivity advantages with the *ELSA Software Advantage™*
 - High-performance graphics driver for Windows® 2000, Windows NT® 4.0 and Windows® 98
 - OpenGL® drivers optimized for professional graphics applications
 - Dedicated application drivers for AutoCAD® 2000 and 3D Studio MAX R3.x
 - Linux support
- Including Software DVD player *ELSAmovie™* on CD
- 6-year warranty

Equipment	Graphics processor	NVIDIA Quadro2 MXR			
	RAMDAC/pixel clock	Integrated and external/max. 350 MHz			
	Memory	32-MB SDRAM (unified memory)			
	BIOS	VESA 3.0 (64K flash ROM)			
	Bus system	AGP 1x/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, two 3D pipelines with every 2 per-pixel shaders, MIP mapping, Gouraud shading, fogging, stencil, bump mapping, transform and lighting of the second generation, anti-aliasing			
	Standards	VESA DPMS, DDC2B, plug&play			
	Connectors	1 x digital DVI-I monitor, 1-2 x analog monitor (D-shell, 15-pin) connectable using an adapter, DVI/VGA and VGA/VGA operated parallel			
	Dimensions	167 mm x 95 mm (not including the mounting bracket)			
Refresh rates	Single-monitor resolutions with Z-buffering/double buffering	Output		HighColor 32,768 Colors	TrueColor 16.7 million colors
		VGA analog	DVI digital		
	2048 x 1536	85 Hz	–	•	•
	1920 x 1200	113 Hz	–	•	•
	1920 x 1080	125 Hz	–	•	•
	1600 x 1200	135 Hz	–	•	•
	1600 x 900	162 Hz	–	•	•
1280 x 1024	198 Hz	75/60 Hz	•	•	

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Refresh rates	Single-monitor resolutions with Z-buffering/double buffering	Output		HighColor 32,768 Colors	TrueColor 16.7 million colors
		VGA analog	DVI digital		
	1280 x 960	200 Hz	75/60 Hz	•	•
	1152 x 864	200 Hz	75/60 Hz	•	•
	1024 x 768	200 Hz	75/60 Hz	•	•
	800 x 600	200 Hz	75/60 Hz	•	•
	640 x 480	200 Hz	75/60 Hz	•	•
These values are maximums, and may not be achievable under all operating systems and conditions. Any other graphics mode can be simply configured with Windows 2000, Windows NT, Windows 98 and Linux.					
Drivers and software	Operating systems	Windows 2000, Windows NT 4.0, Windows 98 and Linux			
	CAD	<i>ELSA POWERdraft™</i> : Modular driver system for enhanced 2D and 3D productivity (Windows 2000 and Windows NT 4.0) <i>NVIDIA QuadroView™</i> : 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 stand-alone application (VRML 1.0/2.0, Open Inventor) under Windows 2000 and Windows NT 4.0. <i>ELSA MAXtreme™</i> : Driver for enhanced productivity, with an own InScene renderer for 3D Studio MAX/VIZ R 3.x			
	Other professional graphics applications	High-performance drivers for OpenGL and DirectX			
	Bundle software	Software DVD player <i>ELSAmovie™</i>			
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, Design Studio, Extreme 3D, HiCAD, I-DEAS Master Series, Lightscape, LightWave 3D, Logocad Triga, Maya NT, MicroStation, Mirai, auf Open Inventor basierende Applikationen, Pro/Desktop, Pro/ENGINEER, Pro/MECHANICA. SoftImage, Solid Edge, SolidWorks, Unicenter TNG, Unigraphics, visplan, WorldToolKit, etc.			
Certification		FCC, CE, BSMI, Windows 2000, Windows NT 4.0, Windows 98			
Package contents	Manual	Comprehensive documentation in German, English, and French			
	Installation Guide	German, English, French, Italian, Spanish, and Dutch			
	Bundle software	Software DVD player <i>ELSAmovie</i> on CD			
	Driver&Software	on CD-ROM			
Service	Warranty	6 years			
	Support	Via hotline and Internet			
Article number	545	<i>ELSA Synergy III (32 MB), AGP</i>			