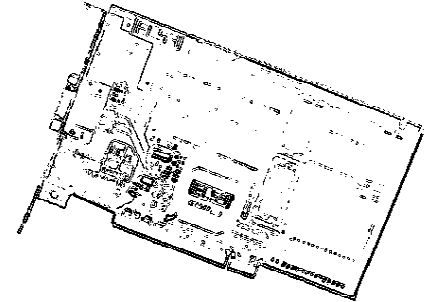


# ELSA WINNER 3000

## Professional CAD and DTP for all Disciplines

ELSA's new **WINNER 3000** series of graphics boards offers an advanced solution for all applications in CAD and DTP. Using the new 2D/3D graphics processors **ViRGE** or **ViRGE/VX**, **WINNER 3000** engineers an impressive display of the highest resolutions, the greatest color depths, and the most complex of rendering operations. Accelerated Z-buffer 3D functions enable 3D rendering, Gouraud shading and texture mapping in TrueColor. Such versatile combinations of 2D and 3D technology make the **Winner 3000** ideal for every area of CAD and DTP.



- 64-bit graphics processor ViRGE™ or ViRGE/VX™ from S3 for rapid 2D/3D acceleration
- Super-fast single-cycle EDO-RAM for Z-buffer and texture mapping
- Multi-screen support with multiple **WINNER 3000** graphics boards
- CD-ROM with ELSA drivers for Windows 95/3.1/NT, OS/2 Warp, and others
- **POWERdraft** display list drivers for AutoCAD, MicroStation, and PC-Draft
- Accelerates CAD applications compliant with VESA 2.0 standard
- Supports the powerful 3D standards OpenGL, HEIDI, and Direct3D

### Specifications:

|                         |   |
|-------------------------|---|
| Bus system:             | PCI   |
| Multi-screen operation: | Windows 3.1x/NT, Windows 95 (except <i>WINNER 3000-S</i> )  |
| 2D/3D accelerators:     | S3 ViRGE ( <i>WINNER 3000-S</i> ) or S3 ViRGE/VX ( <i>WINNER 3000-M and -L</i> )  |
| Display memory:         | <i>WINNER 3000-S</i> : 2 MB EDO-RAM<br><i>WINNER 3000-M</i> : 2/2 VRAM/EDO-RAM<br><i>WINNER 3000-L</i> : 4/2 VRAM/EDO-RAM |
| Feature connector:      | Scenic Highway and VESA 2.0 compatible  |
| Horizontal Frequency:   | 31 - 300 kHz  |
| Pixel clock:            | <i>WINNER 3000-S</i> : up to 135 MHz, <i>WINNER 3000-M and -L</i> : up to 220 MHz   |
| Standards:              | VESA BIOS 2.0, VESA DPMS, DDC2B, TUV Ergonomics Approved, CE  |
| 3D standards:           | OpenGL, HEIDI, Direct3D, S3d, 3DR, BRender, RenderWare  |
| Video standards:        | DirectDraw, DCI and EnDIVE support  |
| Dimensions:             | <i>WINNER 3000-S</i> : 140 x 85 mm, <i>WINNER 3000-M and -L</i> : 175 x 107 mm  |

| Resolution  | <b>WINNER 3000-S</b><br>2MB EDO-RAM |             | <b>WINNER 3000-M</b><br>2 MB VRAM + 2MB EDO-RAM |             | <b>WINNER 3000-L</b><br>4MB VRAM + 2MB EDO-RAM |             |
|-------------|-------------------------------------|-------------|---|-------------|--|-------------|
|             | Colors                              | Hz (max.)   | Colors  | Hz (max.)   | Colors   | Hz (max.)   |
| 1600 x 1200 | -                                   | -           | 256   | 85          | 256/32K  | 85/85       |
| 1280 x 1024 | 256                                 | 85          | 256   | 124         | 256/32K/16M                                    | 124/124/83  |
| 1152 x 864  | 256/32K                             | 112/71      | 256/32K   | 164/164     | 256/32K/16M                                    | 164/164/109 |
| 1024 x 768  | 256/32K                             | 141/89      | 256/32K   | 200/200     | 256/32K/16M                                    | 200/200/138 |
| 800 x 600   | 256/32K/16M                         | 200/147/93  | 256/32K/16M                                     | 200/200/200 | 256/32K/16M                                    | 200/200/200 |
| 640 x 480   | 256/32K/16M                         | 200/200/145 | 256/32K/16M                                     | 200/200/200 | 256/32K/16M                                    | 200/200/200 |

32K=32,768 colors; 16M=16.7 million colors (maximum values are not achievable under all operating conditions)  
**Double buffering** with *WINNER 3000-S* up to 1152 x 864, *WINNER 3000-M* up to 1152 x 864 and *WINNER 3000-L* up to 1600 x 1280  
**3D power from Z-buffering** with *WINNER 3000-S* up to 800 x 600, *WINNER 3000-M* up to 1152 x 864, *WINNER 3000-L* up to 1280 x 1024  
 The values given here are maximums; most graphics modes and resolutions are easily set up in Windows.

### Package includes:

|                    |  |
|--------------------|--|
| Accessories:       | <i>WINNERware</i> CD-ROM with drivers and videos, <i>CADware</i> CD-ROM with demo software from companies such as Autodesk, Bentley, Sense-8, and others, comprehensive English manual, CAD driver manual                          |
| GUI drivers:       | Windows NT, Windows 95, Windows 3.1x, OS/2 Warp  |
| CAD drivers:       | <i>POWERdraft</i> display list drivers for AutoCAD, MicroStation, PC-Draft, Logocad and many more  |
| Windows utilities: | <i>WINman</i> , <i>POWERman</i> , <i>RUNman</i> , <i>GAMMAman</i> , <i>GLASSman</i> , <i>DESKman</i> , <i>ERGONOMeter</i> , <i>DCIset</i> , <i>DDrawSet</i> , <i>LEADVIEW3.0</i> , XING MPEG software decoder (software on CD-ROM) |
| Warranty:          | 3 years  |
| Support:           | via hotline, faxline, BBS, CompuServe and Internet   |
| Art No.:           | 00639 ELSA <i>WINNER 3000-S</i> , 2 MB EDO-RAM, 135 MHz, PCI<br>00115 ELSA <i>WINNER 3000-M</i> , 2/2 MB VRAM/EDO-RAM, 220 MHz, PCI<br>00119 ELSA <i>WINNER 3000-L</i> , 4/2 MB VRAM/EDO-RAM, 220 MHz, PCI                         |

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