

# Wildcat<sup>®</sup> VP Pro

## *Tackle those big projects with record-breaking 512 MB of memory Deal with any application with on-board programmability*

Take on any project with a 3Dlabs<sup>®</sup> Wildcat<sup>®</sup> VP990 Pro. You'll get huge amounts of graphics memory to handle large data sets without sacrificing the legendary performance, reliability, and cinematic rendering of the Wildcat line. The Wildcat VP990 Pro offers **512 MB** of graphics memory – the **most** memory you'll find on any graphics card today

Plus, Wildcat VP's "Visual Processing Architecture" with advanced graphics programmability keeps you prepared for anything your design applications may throw your way.

### More Memory, More Flexibility

Got a big project that needs a lot of graphics power? Wildcat VP990 Pro offers the most graphics memory of any card available today.

### Heavy-duty Visual Processing Power

Wildcat VPs use innovative Visual Processing Architecture to integrate over 200 32-bit processors into a single Visual Processing Unit (VPU). The Wildcat VPU pumps out 200 Gflops and 1.2 TeraOps of programmable power for enhanced speed and performance. And it's all under your control.

### More Visual Real Estate

If you need more visual real estate, just plug in another display! The Wildcat VP Pro series can drive two independent, high-resolution digital or analog displays (with adapters). Plus, you get 10-bit DACs that give you flawless color and display quality.

### Designed by Professionals For Professionals

3Dlabs is the only PC Workstation graphics company solely focused on designing professional-grade accelerators for professional designers. We make sure your drivers are reliable, your card is sound, and your investment is certified to run on leading CAD and DCC applications.

### Extra Memory for 9 Megapixel Displays

It takes more than 128 MB of graphics memory just to effectively drive the new 9 megapixel displays. Sure, some graphics card vendors claim they can handle that, but where's the memory to handle textures or the color depth you need? The Wildcat VP Pro series gives you up to 386 extra megabytes of memory for your demanding applications, so you don't have to compromise speed or realistic rendering.

### Powerful Programmability

The Wildcat VP line provides complete programmability so you can update your graphics card when emerging and future technologies hit the streets. You'll be able to take advantage of software improvements when they happen and continue to extend the boundaries of interactive visual realism.



*The larger the model, or the more complex the textures, the more you need Wildcat.*



## Evolutionary Wildcat VP Visual Processing Unit (VPU)

- Over 200 32-bit processors dedicated to graphics processing
- 256-bit DDR memory interface, 200 Gflops, and 1.2 TeraOps of processing power to enhance speed and performance
- Dual 370 MHz, 10-bit RAMDACs for flawless color and quality display

## High-Level Programming Architecture is programmable for future CAD and DCC application advancements following evolving industry standards

### Geometry Processing

- 16 dedicated 32-bit floating-point geometry processors
- Flexible surface and vertex processing
- 16 lights accelerated in hardware
- 32-bit Z-buffer minimizes the annoying flicker of triangle transposition

### Texture Processor

- 128 dedicated 32-bit floating-point texture processors
- Up to eight simultaneous textures in a single pass
- Programmable texture formats and filters for maximum texture flexibility

### Pixel Processing

- 64 dedicated 32-bit integer pixel processors
- Programmable antialiasing supporting a wide range of antialiasing options
- Up to eight multi-samples in a single pass
- Programmable image processing and compositing

### Virtual Memory Architecture

- Memory stored as L2 cache for faster access to frequently used data
- Seamless handling of large datasets – even when they exceed the card memory limits
- Designed for optimal buffer download performance
- Automatically pages out unused buffers for maximum efficiency

**In North America:**  
1901 McCarthy Boulevard  
Milpitas, California 95035

Tel: +1 408 432 6700

**In Europe:**  
Meadlake Place  
Thorpe Lea Road  
Egham, Surrey  
TW20 8HE

Tel: +44 1784 470 555

### Drivers

- Windows® XP/Windows 2000
- OpenGL® with shader extensions
- DirectX® 8.1 with vertex shader 1.1 and pixel shader 1.2
- Prototype OpenGL 2.0 drivers on request



### Flexible Dual Display

- Full 2D and 3D acceleration on two displays
- Double buffered hardware overlays
- Two analog displays (2 DVI-VGA adapters incl.) or
- One analog and one digital display or
- Two digital displays

### High-Quality Video Processing

- Hardware color-space conversion
- Native support for YUV422 video (YUY2 and UYVY)
- High-quality up/down scaling

### Display Connectors

- (2) DVI-I connectors - digital and analog output
- 3-pin mini-DIN stereo sync output
- DDC1/2b/2b+ support
- VESA display power management

### Package Contents

- Wildcat VP professional graphics accelerator
- Installation Guide
- (2) DVI-VGA adapters
- Driver CD
- Bonus Applications
- Virtual desktop manager



**In Asia Pacific:**  
9668 Madison Boulevard  
Madison, Alabama 35758

Tel: +1 256 319 1264

**In Japan:**  
Level 16  
Shiroyama Hills  
4-3-1 Toranomon Minato-ku  
Tokyo 105

Tel: +81 3 5403 4653

## 32-bit True Color Display Resolutions

Resolution	Analog		Digital
	Refresh Hz	Refresh Hz	Refresh Hz
640x480	200		60/75/85
800x600	200		60/75/85
1024x768	200		60/75/85
1152x864	200		60/75/85
1280x960	120		60/75/85
1280x1024	120		60/75/85
1600x1200	120		60
1920x1080	120		60
1920x1200	100		60
1920x1440	90		
2048x1536	80		
2048x2048	60		

This list is only a sample of those available. These values are maximums and may not be achieved under all operating conditions.

## Optimized for Leading Professional Applications

- Alias/Wavefront Maya and Studio Tools
- Autodesk AutoCAD
- Autodesk Inventor
- Bentley Microstation
- CoCreate One Space Designer
- Dassault CATIA
- Discreet 3ds max
- Discreet Combustion2
- EDS Ideas
- NewTek LightWave
- PTC Pro/ENGINEER
- PTC CDRS
- Side Effects Houdini
- Softimage XSI and DS
- SolidWorks SolidWorks 2001 Plus
- UG SolidEdge
- UG Unigraphics

## System Requirements

- Pentium, Athlon or compatible processor
- Windows XP/2000
- AGP 1X/2X/4X/8X Slot
- 64 MB System Memory
- 16 MB Free Disk Space

## Support

- Three year limited warranty
- Phone hotline, e-mail and WebForum



A CREATIVE Company

Product	Memory	Display	Performance	Value	Segment	Summary
<b>Wildcat VP990 Pro</b>	512 MB 256-bit DDR	Independent Dual-head	225M Vertices/sec 42G AA Samples/sec	Record Breaking Memory AND Ultimate Visual Processing Performance	CAD, DCC Visualization Simulation	Wildcat VP990 Pro offers a record-breaking 512 MB of on-board graphics memory. Designed to deal with any application, the Wildcat VP990 Pro with advanced programmability, provides industry-leading performance, reliability, and cinematic rendering.

Peak performance figures are provided for relative geometry and texture performance purposes.