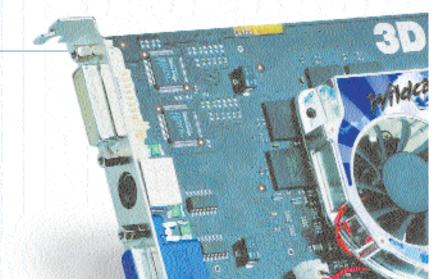
# cadalyst labs feature review



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Table 1 Graphics ca	ird features	5	
·	3DLABS Wildcat4 7110	3DLABS Wildcat VP970	ATI TECHNOLOGIES Fire GL Z1
Star rating	4 stars	4.5 stars	4.5 stars
Company Web site	www.3dlabs.com	www.3dlabs.com	www.ati.com
Estimated street price	\$1,895	\$899	\$559
Graphics memory installed (maximum) Architecture	256MB (256MB)	128MB (128MB)	128MB (128MB)
Bus type	AGP 8X (full-length)	AGP (midlength)	AGP 8X (midlength)
Graphics accelerator	Wildcat4	Wildcat VP900	FGL 9500
Basic geometry accelerator	Integrated	Integrated	SmartShader 2.0
RAMDAC	320MHz	Dual 370MHz	Dual 400MHz
Maximum 3D resolution			
(16-bit z-buffer, double frame-buffer)	2048×1152	2048×1536	2048×1536
Colors/refresh (70Hz min. refresh)	16.7 million colors/75Hz	16.7 million colors/80Hz	16.7 million colors/85Hz
Maximum 2D resolution above 1600×1200	2048×1152	2048×2048	2048×1536
Colors/refresh (70Hz min. refresh)	16.7 million colors/75Hz	16.7 million colors/60Hz (analog)	16.7 million colors/85Hz
Maximum colors/refresh @ 1600×1200	16.7 million colors/90Hz	16.7 million colors/120Hz (analog)	16.7 million colors/105.9Hz
Maximum colors/refresh @ 1280×1024	16.7 million colors/85Hz	16.7 million colors/120Hz (analog)	16.7 million colors/108.5Hz
Warranty  Monitors supported with one card	Three years Two	Three years Two	Three years Two
Maximum resolution/colors/refresh	TWO	TWO	1 000
Two monitors	2048×1152×32-bit@75Hz	2048×2048×32-bit@60Hz	1600×1200×32-bit@75Hz
Three monitors	N/A	N/A	N/A
Outputs	2× digital	Digital and analog	Digital and analog
	_ · · · arg····		g
Windows driver version	5.6.1.6	3.01-0181	6.13.10.1024
Driver for AutoCAD 2000	Default (WOPENGL7.HDI)	Default (WOPENGL7.HDI)	Default (wopengl7.hdi)
Accelerated AutoCAD driver	3Dlabs Custom AutoCAD	N/A	N/A
	Driver (Heidi)		
Benchmark scores†			
Combined weighted index (3:1:1)	68.18	57.16	62.64
AutoCAD 2002 (default AutoCAD driver)			
C2001 Total	89.49	71.84	77.47
Maxbench for MAX v3.1	Custom driver (WC3DSMAX.DRV)	Custom driver (wc3dsmax.drv)	MAXimum v.1.3.1024
Low	49.82	48.51	49.83
High	57.62	60.18	67.18
Average of high/low	53.72	54.35	58.15
SPECviewperf v7.0			
Proe-01 viewset	18.69	16.03	22.64

\*A 256MB version of the card is available, but only with AGP50 Pro, not with AGP 8X. †All benchmarks run on Windows 2000 Professional at 1280×1024 resolution in true-color mode.

24 February 2003 www.cadalyst.com cadalyst



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## PNY TECHNOLOGIES Quadro4 980XGL

#### \*\*\*\*

www.pny.com \$595

128MB (128MB)\*

AGP 8X (midlength) Quadro4 980XGL Integrated Dual 350MHz

2048×1536

16.7 million colors/75Hz 2048×1536

16.7 million colors/75Hz

16.7 million colors/100Hz 16.7 million colors/120Hz

Three years when registered

Two

1600×1200×32-bit@50Hz

2× digital, with analog adapters

6.13.10.4109

Default (WOPENGL7.HDI) **POWERdraft** 

Two DVI-I connectors; triple

log output and TV-out

1.3.0.43

Default (WOPENGL7.HDI)

75.87 N/A

98.29 60.19

MAXtreme 4.00.25

59.36 20.77 67.39 33.21 63.38 26.99

21.12 4.272

### MATROX GRAPHICS Parhelia 128

Not rated

www.matrox.com

\$399

128MB (256MB for \$599)

AGP (midlength) Matrox Parhelia-512 Quad Vertex Shader Array

Dual 400MHz

2048×1536

1 billion + colors/85Hz (analog)

2048×1536

1 billion+ colors/85Hz (analog)

16.7 million colors/100Hz

16.7 million colors/120Hz

Three years

Three (Surround Design)

2048×1536×32-bit@75Hz 1280×1024×32-bit@85Hz

analog output; one DVI/2 ana-

Matrox PrecisionCAD driver

# STAR RATINGS EXPLAINED

Under Cadalyst's comparative review rating system, each product receives a star rating based on the Reviewers' Report Card.

★★★★★ Five stars: Highly Recommended. Product is superior to others in its class. Any flaws are minor and do not interfere with overall performance.

Four stars: Product does what the manufacturer claims, improves productivity, and is a valuable tool.

Three stars: Product has limited value for most readers.

25 cadalyst www.cadalyst.com February 2003