3Dlabs Wildcat Realizm 500
Compatibility & Certification Testing Guide

The 3Dlabs® Wildcat® Realizm™ 500 will function in all PCI Express systems; however, due to the design of the graphics card, there are certain chipsets/motherboards that provide optimal performance benefits. 3Dlabs is working closely with System Integrators to ensure the Wildcat Realizm 500 is sold only for use in systems certified to support the performance expectations of the Wildcat Realizm 500.

> **Wildcat Realizm 500**
> - High-end performance at a mid-range price
> - PCI Express interface
> - Now Shipping

3Dlabs has developed this guide to assist System Integrators and others in certification testing. It contains tools, helpful information and suggestions, as well as target performance expectations for the Wildcat Realizm 500.

Chipset, OEM System & Motherboard Compatibility
The following is not an exhaustive list of compatible systems, chipsets and motherboard combinations. However, 3Dlabs internal testing has shown the following to be compatible with the Wildcat Realizm 500.

Wildcat Realizm 500 Online Compatibility Updates
3Dlabs has a knowledge base in the support area of 3Dlabs.com where our most current information is maintained, including a Wildcat Realizm 500 - OEM & Motherboard Compatibility List. To access this online resource, go to http://www.3dlabs.com/kb and search for SID626.

3Dlabs Wildcat Realizm 500 Compatible Chipsets
These chipset are known to allow the Wildcat Realizm 500 to function at full performance. It is expected that any motherboard using one of these chipsets will provide full Wildcat Realizm 500 performance:

- Intel 925X (see note 1, under ***Important Notes** on next page)
- Intel E7525
- NVIDIA nForce 4
- NVIDIA nForce Professional 2200 and 2050

These chipset have been shown to produce <u>possible</u> performance issues in the Wildcat Realizm 500, depending on motherboard configuration and motherboard BIOS settings or capabilities:

- Intel 915G
- Intel 945
- Intel 955

3Dlabs Wildcat Realizm 500 Compatible OEM Systems
This is a list of systems that have been specifically reviewed and tested by 3Dlabs for physical space and functionality with the 3Dlabs Wildcat Realizm 500 graphics card. Systems with a similar form factor will likely be compatible with the Wildcat Realizm 500, but you must insure the system meets the chipset and motherboard requirements.

System Make/Model	Notes
Dell Precision 670	
Fujitsu-Siemens R630	
Fujitsu X630	
Fujitsu N430	
HP xw6200	
HP xw8200	
HP xw9300	Dual card not supported
IBM IntelliStation Z Pro 6223	
NEC Express 5800	

3Dlabs Wildcat Realizm 500 Compatible Motherboards

This is a list of motherboards that have been specifically reviewed by 3Dlabs for physical space and functionality with the 3Dlabs Wildcat Realizm 500 graphics card. Note that testing is on an "open" motherboard and does not take into account any additional requirements of the system/chassis in which the motherboard may be installed. Motherboards with a similar form factor are likely to be physically compatible with the Wildcat Realizm 500, but you must insure the motherboard chipset requirements are also met.

Motherboard Make	Motherboard Model	Chipset	Notes
ASUS	A8N-DL	NVIDIA nForce™ 4 Professional	
ASUS	A8N-SLI	nVidia nForce4 SLI	Dual card not supported
ASUS	K8N-DL	NVIDIA nForce™ 4 Professional	
ASUS	NCT-D	Intel E7525	
ASUS	P5AD2-E Premium	Intel 925XE	
ASUS	P5GD2	Intel 915P	
ASUS	P5LD2	Intel 945	
ASUS	P5WD2	Intel 955	
ABIT	AA8-DuraMAX	Intel 925X	
Gigabyte	GA-9ITDW	Intel E7525	
Gigabyte	GA-8IAX	Intel 925X	
Gigabyte	GA-8I945GMF	Intel 945G	
Intel	SE7525GP2	Intel E7525	
Intel	D925XCV	Intel 925X	* "Link Stability Algorithm" in system BIOS under PCI Express Configuration should be disabled to get best performance
Intel	D925XECV2	Intel 925XE	* "Link Stability Algorithm" in system BIOS under PCI Express Configuration should be disabled to get best performance
Intel	D945GTP	Intel 945G	
Intel	D955XBK	Intel 955	
MSI	925X_Neo	Intel 925XE	
MSI	MS955X Platinum	Intel 955X	
Supermicro	X6DA8 / X6DAE	Intel E7525	
Supermicro	X6DA8-G2	Intel E7525	
Tyan	S2676	Intel E7525	
Tyan	Thunder K8WE S2895	NVIDIA nForce Professional 2200 and 2050	Dual card not supported

*IMPORTANT NOTES:

1. **INTEL brand motherboards using the 925x chipset (such as the INTEL D925XCV or INTEL D925XECV2) must have the "Link Stability Algorithm" disabled:**

   a. **Go into the motherboard system BIOS**
   b. **Select Advanced**
   c. **Go to PCI Express Configuration**
   d. **Disable "Link Stability Algorithm"**
   e. **Save, exit, and reboot**

2. **Chipsets NOT in the chart may fail to run at an acceptable performance level. For questions and support for motherboard certification testing issues, please contact 3Dlabs at sales@3dlabs.com.**

3Dlabs Wildcat Realizm 500 Performance Testing

Once you've paired the Wildcat Realizm 500 with a motherboard/chipset, 3Dlabs highly recommends that you run a few simple benchmark and configuration tests to check performance. Once you obtain results, 3Dlabs will review the results with you to determine if your configuration is producing satisfactory and/or projected performance numbers. We **strongly recommend** running the following tools in addition to any compatibility tests you normally perform:

- AIDA32 – Tool for reporting on system and graphic card configuration data
- Viewperf 8.1 – Standard benchmarking tool

Before you Begin

1. Download the most current Wildcat Realizm 500 driver from the 3Dlabs web site at http://www.3dlabs.com/support/drivers/.

2. Obtain a copy of "**Aida32 - Enterprise System Information 3.93**". AIDA32 is a freeware professional system information, diagnostics, and benchmarking program for the Windows platforms and can be found here http://www.majorgeeks.com/download183.html and at many other software utilities download locations.

3. Download SPECapc Viewperf 8.1. Information, benchmark configuration instructions, and a download link for this benchmarking application can be found on the SPEC.org web site at http://www.spec.org/gpc/opc.static/vp81info.html

Running AIDA32

1. AIDA32 comes in a zip file called "aida32ee_393.zip." Extract the contents of the zip file to a convenient folder on the system to be tested.

2. Run **aida32.exe** in the folder it was extracted to and follow these instructions (there is no installation program). AIDA32 will produce a report containing motherboard and system information to send back to 3Dlabs. To use, right mouse click on the **Motherboard** icon and select **Quick Report – Motherboard [menu} -> MHTML** as shown in the screen shot below (Figure 1).
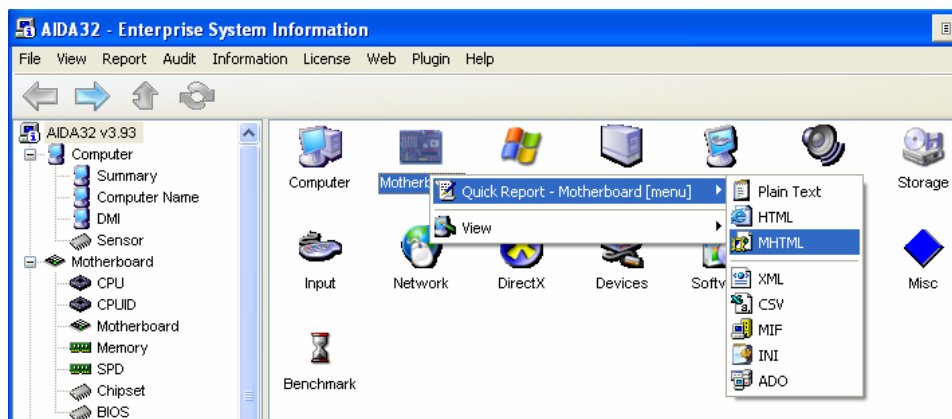

Figure 1: Menu for Running AIDA.EXE

3. This will cause a motherboard information report to be generated in MHT (self contained HTML) format. Once the report has been generated, click the **Save to File** icon in the report window, and save to the desktop as **<motherboard_name>_Report.mht** for communication to 3Dlabs.

Running SPECapc Viewperf 8.1

Key points for running SPECapc Viewperf 8.1
- Set monitor resolution and refresh to 1280 x 1024 & 75 Hz.
- Make sure at least 1 GB RAM installed
- Don't have any other applications open when running Viewperf

1. Once the benchmark has been down loaded and installed on the system to be tested, select Start -> All Programs -> SPEC Viewperf 8.1 -> Run_All.

2. When the Viewperf 8.1 benchmarking application has completed, it will open Notepad and an automatically created results file called runallsummary.txt.

3. In Notepad select File -> Save As and save the file to the desktop as **<motherboard name>_runallsummary.txt**

4. For comparison, see the SPECapc Viewperf 8.1 numbers for the Wildcat Realizm 500 as measured by 3Dlabs (Table 1).

Information to Send to 3Dlabs

Once you've completed the above tests, please provide 3Dlabs with the following specific information:

- Results of **aida32.exe** generated and saved in a report called **<motherboard name>_Report.mht**

- Results of Viewperf 8.1 generated and saved in a report called **<motherboard name>_runallsummary.txt**

Table 1: SPECapc Viewperf 8.1 numbers measured by 3Dlabs

Test Location	HSV
Run Date	7/12/05
O/S	WXP/SP2
System	Intel 925
CPU	3.8 GHz
Memory	1.0 GB
Graphics Card	R500
Driver Version	4.05.0777
Graphics Setting	Default
3dsm-03	
Score	49.34
Catia-01	
Score	29.79
Ensight-02	
Score	25.70
Light-07	
Score	28.64
Maya-01	
Score	61.12
Proe-03	
Score	49.48
SW-01	
Score	31.96
UGS-04	
Score	29.11

Please email this information as attachments (please don't cut and paste the reports into your email) to:

Terry Palek	Clifton Robin
OEM Manager	Brand Manager
Terry.Palek@3DLabs.com	Clifton.Robin@3Dlabs.com
(256) 319-1214	(256) 319-1263

Please let us know if we can help you in any way.

Thank you, 3Dlabs