

# Graphics Hardware Certification

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## Microsoft® Windows® Platform

Last updated: October 14<sup>th</sup> 2010.

### Readme First

The information contained in the [Readme First](#) document applies to all hardware certification executed on the Autodesk® Media and Entertainment 2011 and their Subscription Advantage Pack software product releases and should be acknowledged by all users prior to consulting the Certification charts.

### What's New

This certification was done on Autodesk 3ds Max® Subscription Advantage Pack & Autodesk 3ds Max Design® 2011 Subscription Advantage Pack, while still supporting the original 2011 versions.

Certification on Nvidia®'s new FERMI® cards is complete.

AMD® FirePro® Vxxxx is also complete.

Note that missing card's results should come in the upcoming weeks to fill up the charts.

Graphic drivers for Nvidia and AMD have been made available on our server and those drivers are WHQL® certified.

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## Important Notes

The following describes important notes related to the graphics hardware Certifications for the for the Autodesk 3ds Max 2011, Subscription Advantage Pack and Autodesk 3ds Max Design 2011, Subscription Advantage Pack software product releases.

- Scene Effects are not compatible with the new HW shading features such as Ambient Occlusion and Tone mapping
- Certification of graphics cards has mainly been done using Direct3D® mode
- OpenGL® has been Certified but to a lesser degree, and therefore you may encounter issues that have not been listed in this document
- DirectX® 9.0c has been used, in Windows XP, Windows Vista® and Windows 7®. DirectX 10.0 has not been tested
- Certification is being performed on both single and dual screen configurations at resolution of 1920x1200 (60Hz each).
- If you are experiencing additional display issues not listed in this document, please search our Knowledge Base or contact customer support (<http://www.autodesk.com/3dsmax-support>). Single screen at resolution of 1920x1200 (60Hz)

## Professional Graphics Cards

The following table provides the professional graphics card and driver version hardware Certifications for the Autodesk 3ds Max 2011, Subscription Advantage Pack & Autodesk 3ds Max Design 2011, Subscription Advantage Pack for Microsoft Windows software product releases.

Table Legend

✓	Certified
👉	Certified with caveats. Refer to the Professional Graphics Cards Caveats & Limitations
⌚	Certification planned OR in progress. Results coming shortly
👉	Supported although not officially Certified in our lab
☑	Testing is completed
👉	Hardware component falls below minimum system requirements to run this product
✗	Certification failed due to serious problems
○	No Certification planned OR not applicable
—	Not yet tested.

\*Drivers are available **within the tables** under their respective OS.

Professional Graphics Card & Driver Certifications for Autodesk 3ds Max 2011, Subscription Advantage Pack & Autodesk 3ds Max Design 2011, Subscription Advantage Pack for Microsoft Windows							
Graphics Card	Driver	Windows XP Professional		Windows Vista® Business SP2		Windows 7	
Product	Version	SP3 32-bit	X64 SP2 64-bit	32-bit	64-bit	32-bit	64-bit
NVIDIA			<a href="#">258.96</a>		<a href="#">258.96</a>		<a href="#">258.96</a>
Quadro® 6000	258.96	👉	✓	👉	✓	👉	<a href="#">👉</a>
Quadro 5000	258.96	👉	✓	👉	✓	👉	<a href="#">👉</a>
Quadro 4000	258.96	👉	✓	👉	✓	👉	<a href="#">👉</a>
Quadro 2000	258.96	👉	✓	👉	✓	👉	<a href="#">👉</a>
Quadro 600	258.96	👉	✓	👉	✓	👉	<a href="#">👉</a>
Quadro FX® 5800	258.96	👉	✓	👉	✓	👉	<a href="#">👉</a>
Quadro FX 4800	258.96	👉	👉	👉	👉	👉	<a href="#">👉</a>
Quadro FX 3800	258.96	👉	✓	👉	✓	👉	<a href="#">👉</a>
Quadro FX 1800	258.96	👉	✓	👉	✓	👉	<a href="#">👉</a>
Quadro FX 580	258.96	👉	✓	👉	✓	👉	<a href="#">👉</a>
Quadro FX 380	258.96	👉	👉	👉	👉	👉	<a href="#">👉</a>
Quadro FX 4700	258.96	👉	👉	👉	👉	👉	<a href="#">👉</a>

Professional Graphics Card & Driver Certifications for Autodesk 3ds Max 2011, Subscription Advantage Pack & Autodesk 3ds Max Design 2011, Subscription Advantage Pack for Microsoft Windows							
X2							
Quadro FX 3700	258.96	👍	👍	👍	👍	👍	<a href="#">👤</a>
Quadro FX 1700	258.96	👍	👍	👍	👍	👍	<a href="#">👤</a>
Quadro FX 570	258.96	👍	👍	👍	👍	👍	<a href="#">👤</a>
Quadro FX 370	258.96	👍	👍	👍	👍	👍	<a href="#">👤</a>
Quadro FX 5600	258.96	👍	👍	👍	👍	👍	<a href="#">👤</a>
Quadro FX 4600	258.96	👍	👍	👍	👍	👍	<a href="#">👤</a>
Quadro FX 5500	258.96	🕒	🕒	🕒	🕒	🕒	🕒
Quadro FX 4500 X2	258.96	🕒	🕒	🕒	🕒	🕒	🕒
Quadro FX 4500	258.96	🕒	🕒	🕒	🕒	🕒	🕒
AMD			<a href="#">8.743.3.2</a>		<a href="#">8.743.3.2</a>		<a href="#">8.743.3.2</a>
FirePro® V8800	8.743.3.2	👍	👍	👍	👍	👍	👍
FirePro V7800	8.743.3.2	👍	✓	👍	👍	👍	✓
FirePro V5800	8.743.3.2	👍	✓	👍	👍	👍	✓
FirePro V4800	8.743.3.2	👍	👍	👍	👍	👍	👍
FirePro V3800	8.743.3.2	👍	<a href="#">👤</a>	👍	👍	👍	✓
FirePro V8750	8.743.3.2	👍	✓	👍	👍	👍	✓
FirePro V8700	8.743.3.2	👍	✓	👍	👍	👍	✓
FirePro V7750	8.743.3.2	👍	✓	👍	👍	👍	✓
FirePro V5700	8.743.3.2	👍	✓	👍	👍	👍	✓
FireGL® V7700	8.743.3.2	👍	👍	👍	👍	👍	👍
FireGL V8650	8.743.3.2	👍	👍	👍	👍	👍	👍
FireGL V8600	8.743.3.2	👍	👍	👍	👍	👍	👍
FireGL V7600	8.743.3.2	👍	👍	👍	👍	👍	👍
FireGL V5600	8.743.3.2	👍	👍	👍	👍	👍	👍

## Professional Graphics Cards Caveats & Limitations

The following table provides a description of professional NVIDIA graphics cards caveats and limitations.

NVIDIA Professional Graphics Cards Caveats & Limitations					
Autodesk 3ds Max 2011, Subscription Advantage Pack & Autodesk 3ds Max Design 2011, Subscription Advantage Pack for Microsoft Windows					
Graphics Card	Driver	OS	Caveat / Limitation	Status	Workaround
All cards	258.96	Win7-64	Performance issue while Hyperthreading is enable (12 cores and up)	Issue reported to vendors. A fix should be provided within the next driver release.	Disable Hyperthreading from the SBIOS.
All cards	258.96	All	DirectX fails when detaching/reattaching displays (monitors) in Dual view mode. (Bug # 325359)	This is not an NVIDIA defect, but a limitation in the operating system. DirectX can be restored to both displays by rebooting the system.	—
Quadro FX x700 X600	197.03	Windows Vista x64	Opening an external application (ie: WordPad) and panning the window over the timeline leaves artefact. (Bug # 356845)	Issue reported to vendors	Update GFX driver to 258.96

The following table provides a description of professional AMD graphics cards caveats and limitations.

AMD Professional Graphics Cards Caveats & Limitations					
Autodesk 3ds Max 2011, Subscription Advantage Pack & Autodesk 3ds Max Design 2011, Subscription Advantage Pack for Microsoft Windows					
Graphics Card	Driver	OS	Caveat / Limitation	Status	Workaround
AMD FirePro 3800	8.743.3.2	Windows XP- x64	Slow camera movement while in full screen. (Bug # 367751)	Issue reported to vendors.	—

AMD Professional Graphics Cards Caveats & Limitations

Autodesk 3ds Max 2011, Subscription Advantage Pack & Autodesk 3ds Max Design 2011, Subscription Advantage Pack for Microsoft Windows

AMD FireGL V8600	8.702.3	Windows 7- x64	ATI driver recover on time out. (Bug #355659)	Issue reported to vendors.	Update GFX driver to 8.743.3
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## Graphics Cards

The following table provides the professional graphics card hardware Certifications for the Autodesk 3Ds Max 2011 and Autodesk 3Ds Max Design 2011 for Macintosh® Boot Camp release.

### Table Legend

✓	Certified
👉	Certified with caveats. Refer to the Graphics Cards Caveats & Limitations.
⌚	Certification planned OR in progress. Results coming shortly
👍	Supported although not officially Certified in our lab
👎	Hardware component falls below minimum system requirements to run this Autodesk
✗	Certification failed due to serious problems
○	No Certification planned OR not applicable
—	Not yet tested.

Graphics Card Certifications for Autodesk 3ds Max 2011 & Autodesk 3ds Max Design 2011 for Macintosh			
Graphics Card	Mac OS® X 10.6.2		
Product	Windows XP 32bit	Windows Vista 64bit	Windows 7 64bit
<b>NVIDIA</b>			
Quadro® FX 4800	👍	👍	👍
Quadro FX 4500	👍	👍	👍
GeForce GT120	👍	👍	👍
GeForce 285 GTX	👍	👍	👍
GeForce 8800GT	👍	👍	👍
GeForce 9400M	👍	👍	👍
<b>ATI™</b>			
Radeon™ HD 2600 pro	👍	👎	👎
Radeon HD 4850	👍	👍	👍

## Dual Monitor Support

Apple systems can be run in Dual Monitor configuration by using a single graphics card which supports dual output (e.g. NVIDIA Quadro FX 5600).

## Graphics Cards Caveats & Limitations

Some features of Autodesk 3ds Max 2011 software are only enabled when used with graphics hardware that supports Shaders Model 3.0. Review the grid below to verify whether your graphics hardware will allow you to take full advantage of those features. Impacted features include:

Graphics Cards Caveats & Limitations	
Autodesk 3Ds Max 2011 and 3Ds Max Design 2011	
Feature name	Description
Interactive previewing of shadow	Provides users with the ability to see real-time shadows casted from the lights in the 3ds max viewport, hence allowing for previewing
3ds Max sun/sky environment	Allows users to see real-time mental ray® Sun&Sky background in the 3ds max viewport. The viewport background is also update
mental ray® Architectural and Design material	Allows users to do real-time previews of mental ray® Architectural & Design Materials in the 3ds max viewport. The shading effect



## GPU Based Special Feature

The following table provides the professional graphics card and driver version hardware Certifications for the Autodesk 3ds Max 2011, Subscription Advantage Pack & Autodesk 3ds Max Design 2011, Subscription Advantage Pack and their certification with GPU based special feature.

### Table Legend

✓	Certified
👉	Certified with caveats. Refer to the Professional Graphics Cards Caveats & Limitations
⌚	Certification planned OR in progress. Results coming shortly
👉	Supported although not officially Certified in our lab
💡	Hardware component is incompatible hence the feature is running on CPU instead of GPU. Performance drop is to be expected
✗	Certification failed due to serious problems
○	No Certification planned OR not applicable
—	Not yet tested.

Professional Graphics Card & Feature Certifications for Autodesk 3ds Max 2011, Subscription Advantage Pack & Autodesk 3ds Max Design 2011, Subscription Advantage Pack for Microsoft Windows							
Quicksilver Hardware Rendering							
Graphics Card	Driver	Windows® XP Professional		Windows Vista® Business SP2		Windows® 7	
Product	Version	SP3 32-bit	X64 SP2 64-bit	32-bit	64-bit	32-bit	64-bit
NVIDIA®							
Quadro® 6000		⌚	⌚	⌚	⌚	⌚	⌚
Quadro 5000	258.96	👉	✓	👉	✓	👉	✓
Quadro 4000	258.96	👉	✓	👉	✓	👉	✓
Quadro FX® 5800	258.96	👉	✓	👉	✓	👉	✓
Quadro FX 4800	258.96	👉	👉	👉	👉	👉	👉
Quadro FX 3800	258.96	👉	✓	👉	✓	👉	✓
Quadro FX 1800	258.96	👉	✓	👉	✓	👉	✓
Quadro FX 580	258.96	👉	✓	👉	✓	👉	✓
Quadro FX 380	258.96	👉	👉	👉	👉	👉	👉
Quadro FX 4700	258.96	👉	✓	👉	✓	👉	✓

Professional Graphics Card & Feature Certifications for Autodesk 3ds Max 2011, Subscription Advantage Pack & Autodesk 3ds Max Design 2011, Subscription Advantage Pack for Microsoft Windows							
Quicksilver Hardware Rendering							
X2							
Quadro FX 3700	258.96						
Quadro FX 1700	258.96		✓		✓		✓
Quadro FX 570	258.96						
Quadro FX 370	258.96						
Quadro FX 5600	258.96		✓		✓		✓
Quadro FX 4600	258.96		✓		✓		✓
Quadro FX 5500	258.96						
Quadro FX 4500 X2	258.96						
Quadro FX 4500	197.03						
AMD							
FirePro™ V8800	8.743.3		✓		✓		✓
FirePro V7800	8.743.3		✓		✓		✓
FirePro V5800	8.743.3		✓		✓		✓
FirePro V4800	8.743.3		✓		✓		✓
FirePro V3800	8.743.3		✓		✓		✓
FirePro V8750	8.743.3		✓		✓		✓
FirePro V8700	8.743.3		✓		✓		✓
FirePro V7750	8.743.3		✓		✓		✓
FirePro V5700	8.743.3		✓		✓		✓
FireGL™ V7700	8.702.3						
FireGL V8650	8.702.3						
FireGL V8600	8.702.3						
FireGL V7600	8.702.3						
FireGL V5600	8.702.3						

Professional Graphics Card & Feature Certifications for Autodesk 3ds Max 2011, Subscription Advantage Pack & Autodesk 3ds Max Design 2011, Subscription Advantage Pack for Microsoft Windows							
IRay Hardware Rendering							
Graphics Card	Driver	Windows® XP Professional		Windows Vista® Business SP2		Windows® 7	
Product	Version	SP3 32-bit	X64 SP2 64-bit	32-bit	64-bit	32-bit	64-bit
<b>NVIDIA®</b>							
Quadro® 6000		⌚	⌚	⌚	⌚	⌚	⌚
Quadro 5000	258.96	⌚	✓	⌚	✓	⌚	✓
Quadro 4000	258.96	⌚	✓	⌚	✓	⌚	✓
Quadro FX® 5800	258.96	⌚	✓	⌚	✓	⌚	✓
Quadro FX 4800	258.96	⌚	⌚	⌚	⌚	⌚	⌚
Quadro FX 3800	258.96	⌚	✓	⌚	✓	⌚	✓
Quadro FX 1800	258.96	⌚	✓	⌚	✓	⌚	✓
Quadro FX 580	258.96	⌚	✓	⌚	✓	⌚	✓
Quadro FX 380	258.96	⌚	⌚	⌚	⌚	⌚	⌚
Quadro FX 4700 X2	258.96	●	●	●	●	●	●
Quadro FX 3700	258.96	⌚	⌚	⌚	⌚	⌚	⌚
Quadro FX 1700	258.96	⌚	✓	⌚	✓	⌚	✓
Quadro FX 570	258.96	⌚	⌚	⌚	⌚	⌚	⌚
Quadro FX 370	258.96	⌚	⌚	⌚	⌚	⌚	⌚
Quadro FX 5600	258.96	⌚	✓	⌚	✓	⌚	✓
Quadro FX 4600	258.96	⌚	✓	⌚	✓	⌚	✓
Quadro FX 5500	197.03	⌚	⌚	⌚	⌚	⌚	⌚
Quadro FX 4500 X2	197.03	⌚	⌚	⌚	⌚	⌚	⌚
Quadro FX 4500	197.03	⌚	⌚	⌚	⌚	⌚	⌚

## Consumer Graphics Cards

The following table provides a list of tested NVIDIA GeForce® and ATI Radeon™ consumer graphics cards and driver versions for Autodesk 3Ds Max 2011, Extension 1.

**Important:** Although Autodesk tested the NVIDIA GeForce and ATI Radeon consumer graphics cards, it is Autodesk, NVIDIA, and AMD policy to only recommend and support the professional NVIDIA Quadro, ATI FirePro, and ATI FireGL graphics family cards. See the [NVIDIA Quadro vs. GeForce GPUs White Paper \[PDF\]](#).

If you have any questions, please contact:

NVIDIA: [NVIDIAAutodeskhelp@nvidia.com](mailto:NVIDIAAutodeskhelp@nvidia.com)

AMD/ATI: <http://emailcustomer care.amd.com>

### Table Legend

☑	Testing is completed
◉	Testing is completed. Some issues found. Refer to the Consumer Graphics Cards Caveats & Limitations
△	Testing is ongoing OR planned
○	No testing is planned
☒	Hardware component falls below minimum system requirements to run this product.
✘	Certification failed due to serious problems
—	Not yet tested

Consumer Graphics Card & Drivers Tested for Autodesk 3ds Max 2011 & Autodesk 3ds Max Design 2011 for Microsoft Windows							
Graphics Card	Driver	Windows® XP Professional		Windows Vista® Business SP1		Windows® 7	
Product	Version	SP3 32-bit	X64 SP2 64-bit	32-bit	64-bit	32-bit	64-bit
<b>NVIDIA</b>							
GeForce® GTX 295	197.45	△	☑	△	☑	△	☑
GeForce GTX 285		△	△	△	△	△	△
GeForce GTS 250	197.45	△	☑	△	☑	△	☑
GeForce GT 220	197.45	△	☑	△	☑	△	☑
GeForce 9800 GT	197.45	△	☑	△	☑	△	☑
GeForce 8800 GTS		△	△	△	△	△	△
GeForce 8800 GT		△	△	△	△	△	△
GeForce 9600 GT	197.45	△	☑	△	☑	△	☑
GeForce 8600 GT		△	△	△	△	△	△

Graphics Hardware Certifications – Microsoft Windows

Consumer Graphics Card & Drivers Tested for Autodesk 3ds Max 2011 & Autodesk 3ds Max Design 2011 for Microsoft Windows							
Graphics Card	Driver	Windows® XP Professional		Windows Vista® Business SP1		Windows® 7	
Product	Version	SP3 32-bit	X64 SP2 64-bit	32-bit	64-bit	32-bit	64-bit
<b>AMD</b>							
Radeon HD 5870	8.732	△	☑	△	△	△	☑
Radeon™ HD 4870 X2		△	△	△	△	△	△
Radeon HD 4870	8.732	△	☑	△	△	△	☑
Radeon HD 3870		△	△	△	△	△	△
Radeon HD 3850	8.732	△	☑	△	△	△	☑
Radeon HD 4650		△	△	△	△	△	△
Radeon HD 3650	8.732	△	☑	△	△	△	☑
Radeon HD 3470		△	△	△	△	△	△
Radeon HD 2600 XT		⊙	⊙	⊙	⊙	⊙	⊙
Radeon HD 2600 Pro		⊙	⊙	⊙	⊙	⊙	⊙
Radeon HD 2400 Pro		⊙	⊙	⊙	⊙	⊙	⊙

## **Consumer Graphics Cards Caveats & Limitations**

There are currently no known Consumer graphic cards caveats or limitations related to the operating systems supported by the Autodesk 3ds Max 2011 & Autodesk 3ds Max Design 2011 for Microsoft Windows software product releases.

## **Operating System Dependent & Miscellaneous Issues**

There are currently no known operating system dependent or miscellaneous issues related to the operating systems supported by the Autodesk 3ds Max 2011, Subscription Advantage Pack & Autodesk 3ds Max Design 2011, Subscription Advantage Pack for Microsoft Windows software product releases.

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