



# HYDRALOGIX 200 driver package

## *Release Notes*

**Version 1.7.103**

For Windows Vista 32 & 64 -bit

Windows 7 32 & 64 -bit



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## INTRODUCTION

This release notes document describes HYDRALOGIX 200 driver version 1.7.103 for Microsoft Windows Vista & Windows 7. The document describes added features, performance improvements, bug fixes and known bugs in this driver version.

## HYDRALOGIX 200 RELEASE UPDATES

This chapter describes new features, performance improvements and pending issues for version 1.7.103. In addition there is a detailed description of resolved and open issues for this version.

## Changes in version

The following sections list the changes made and issues resolved since driver version 1.7.102

### What is new:

- Support NVIDIA GTX580 GPU
- Support of NVIDIA WHQL drivers: 260.99 and 263.09
- Support ATI 6xxx series GPUs
- Support of ATI WHQL drivers: 10.10e and 10.11
- Starcraft 2 stability issues fixed and performance up to 137% in A mode
- Call of Duty Modern Warfare 2 performance improved up to 167% on mid-range GPUs
- Devil May Cry 4 performance improved up to 160% on mid-range GPUs
- Resident Evil 5 performance improved up to 125% on mid-range GPUs
- Operation Flashpoint Dragon Rising performance improved up to 175% on mid-range GPUs in N and X modes
- Prince of Persia Forgotten Sands performance improved up to 180% on mid-range GPUs in N and A modes
- Mass Effect 2 performance improved up to 158% on mid-range GPUs A mode

### Open and known issues in this driver version

The following are the open issues with current driver release:

- Starcraft 2 has issues with ATI driver 10.10e, recommended to use ATI driver 10.11
- Change of resolution in Starcraft 2 may cause to crash
- Unigine DX11 can get stuck on exit
- 3DMark Vantage may show white screen for 2 seconds between tests
- No support for windowed mode
- It is recommended to connect the display to the stronger GPU

- Running games that support both DX11 and DX10 on a DX10 GPU may cause the HYDRALOGIX icon to show indication of a DX11 game.
- 3xGPUs mode performs best with 3 identical GPUs
- ALT+TAB option is not supported with some games
- Running 3DMark and Unigine benchmarks while FRAPS application is active may cause crashes (occurs also when HYDRALOGIX driver is disabled)
- While the HYDRALOGIX driver is installed and the user runs in Crossfire 4 GPUs mode, some games may crash
- When activating both Crossfire and HYDRALOGIX driver, a pop-up message alert is displayed alerting from this illegal state. After pressing "OK" on the first message, a second message saying "Primary display is incorrect". Pressing "OK" on the second message - it will disable HYDRALOGIX driver and allows the system to run with Crossfire
- Unigine 2.1 may crash on rare occurrences.

## Performance Reference

Performance measurements below provided for reference only. The actual performance may differ from system to system depending on CPU speed, memory size, etc.

### AMD Platform Mid-Range

- GPUs: Nvidia GTX460 and ATI HD5770
- CPU: AMD Phenom™ II X6

Game	MODE	% Over Single
<b>3DMark06</b> DX9 AAX8, Afx16	X-Mode 460/5770	141%
	N-Mode 460	146%
	A-Mode 5770	167%
<b>3DMark Vantage</b> DX10 Extreme	X-Mode 460/5770	147%
	N-Mode 460	186%
	A-Mode 5770	181%
<b>Unigine Heaven 2.1</b> DX11 AAX8 Extreme Tessellation	X-Mode 460/5770	130%
	N-Mode 460	168%
	A-Mode 5770	179%
<b>Star Craft 2</b> DX9	X-Mode 460/5770	101%
	N-Mode 460	101%
	A-Mode 5770	137%
<b>Resident Evil 5</b> DX10 AAX8	X-Mode 460/5770	106%
	N-Mode 460	102%
	A-Mode 5770	131%
<b>Aliens vs. Predator</b> DX11 AAX4	X-Mode 460/5770	123%
	N-Mode 460	183%
	A-Mode 5770	169%
<b>Metro 2033</b> DX11 AAX4	X-Mode 460/5770	118%
	N-Mode 460	173%
	A-Mode 5770	146%
<b>Street Fighter IV</b> DX9 AAX8	X-Mode 460/5770	101%
	N-Mode 460	101%
	A-Mode 5770	164%
<b>H.A.W.X</b> DX10 AAX8	X-Mode 460/5770	101%
	N-Mode 460	137%
	A-Mode 5770	120%
<b>Call of Duty: MW2</b> DX9 AAX4	X-Mode 460/5770	138%
	N-Mode 460	167%

<b>Batman: Arkham Asylum</b> DX9 No AA, No Physx	A-Mode 5770	123%
	X-Mode 460/5770	101%
	N-Mode 460	132%
	A-Mode 5770	101%

### AMD Platform High-End

- GPUs: Nvidia GTX480 and ATI HD5870
- CPU: AMD Phenom™ II X6

Game	MODE	% Over Single
<b>3DMark06</b> DX9 AAX8, Afx16	N-Mode 480	117%
	A-Mode 5870	124%
<b>3DMark Vantage</b> DX10 Extreme	N-Mode 480	176%
	A-Mode 5870	168%
<b>Unigine Heaven 2.1</b> DX11 AAX8 Extreme Tessellation	N-Mode 480	178%
	A-Mode 5870	169%
<b>Aliens vs. Predator</b> DX11 AAX4	N-Mode 480	182%
	A-Mode 5870	161%
<b>Metro 2033</b> DX11 AAX4	N-Mode 480	164%
	A-Mode 5870	226%
<b>Devil may cry 4</b>	N-Mode 480	130%
	A-Mode 5870	136%
<b>Call of Duty: MW2</b> DX9 AAX4	N-Mode 480	101%
	A-Mode 5870	106%

- GPUs: Nvidia GTX580
- CPU: AMD Phenom™ II X6

Game	MODE	% Over Single
<b>3DMark06</b> DX9 AAX8, Afx16	N-Mode 580	112%
<b>3DMark Vantage</b> DX10 Extreme	N-Mode 580	158%
<b>Aliens vs. Predator</b> DX11 AAX4	N-Mode 580	174%

<b>Unigine Heaven 2.1</b> DX11 AAX8 Extreme Tessellation	<b>N-Mode 580</b>	<b>123%</b>
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### Intel Platform Mid-Range

- GPUs: Nvidia GTX460
- CPU: Intel i7 870

Game	MODE	% Over Single
<b>3DMark06</b> DX9 AAX8, Afx16	<b>N-Mode 460</b>	<b>154%</b>
<b>3DMark Vantage</b> DX10 Extreme	<b>N-Mode 460</b>	<b>186%</b>
<b>Unigine Heaven 2.1</b> DX11 AAX8 Extreme Tessellation	<b>N-Mode 460</b>	<b>176%</b>
<b>Resident Evil 5</b> DX10 AAX8	<b>N-Mode 460</b>	<b>125%</b>
<b>Aliens vs. Predator</b> DX11 AAX4	<b>N-Mode 460</b>	<b>182%</b>
<b>Metro 2033</b> DX11 AAX4	<b>N-Mode 460</b>	<b>171%</b>
<b>Devil may cry 4</b>	<b>N-Mode 460</b>	<b>157%</b>
<b>Street Fighter IV</b> DX9 AAX8	<b>N-Mode 460</b>	<b>106%</b>
<b>H.A.W.X</b> DX10 AAX8	<b>N-Mode 460</b>	<b>123%</b>
<b>Call of Duty: MW2</b> DX9 AAX4	<b>N-Mode 460</b>	<b>175%</b>
<b>Medal of Honor</b>	<b>N-Mode 460</b>	<b>139%</b>
<b>Mafia 2</b>	<b>N-Mode 460</b>	<b>132%</b>

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## Supported Operating Systems

The HYDRALOGIX 200 Release supports:

- Microsoft Windows® Vista (SP2) 32-bit and 64-bit
- Microsoft Windows® 7 OS 32-bit and 64-bit

Microsoft Windows® Editions include:

- Windows Vista Home Basic
- Windows Vista Home Premium
- Windows Vista Business
- Windows Vista Enterprise Edition
- Windows Vista Ultimate
- Windows 7 Home Premium
- Windows 7 Professional
- Windows 7 Ultimate

The HYDRALOGIX 200 driver supports the following languages in the main driver Control Panel:

English (USA)

## Supported graphic libraries

The HYDRALOGIX 200 driver supports the following graphic libraries:

- DirectX 9
- DirectX 10/10.1
- DirectX 11

## Supported graphics cards and display drivers

The HYDRALOGIX 200 driver supports the following graphics cards and drivers:

### **N-Mode**

- Graphics cards GF 9xxx/2xx/4xx/5xx series (except GTX295)
- NVIDIA display drivers: All WHQL drivers

### **A-Mode**

- Graphics cards HD4xxx/HD5xxx/HD6xxx series (except HD 5970)
- ATI/AMD display drivers: All WHQL drivers

### **X-Mode**

- Graphics cards
  - Nvidia cards GF 9xxx/2xx/4xx/5xx series (except GTX295)
  - AMD/ATi HD4xxx/HD5xxx/HD6xxx series (except HD 5970)
- Display drivers:
  - Nvidia: All WHQL drivers
  - AMD/ATi: All WHQL drivers

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## Installation

### Minimum Hard Disk Space

The hard disk space requirements are a minimum of 15 MB for English-only, and 20 MB for International.

### Before You Begin

Please uninstall your older driver version before installing 1.7.103 (happens automatically)

Please refer to <http://www.lucidlogix.com/driverdownloads.html> to download the latest available HydraLogix drivers.

### Installation Instructions

1. Run the HYDRALOGIX 200 install file to launch the Installation Wizard.
2. Follow the instructions in the Installation Wizard to complete the installation.
3. Click Finish.
4. **Restart the computer**

## General Tips

- In all Modes - higher settings result with better performance
  - Turn AA ON
  - Resolution 1920 x1200 or higher is recommended
  - High game settings
- In non-identical A & N modes and in X mode
  - Different graphics card manufacturers – ok (e.g. MSI + Other vendor)
  - Different graphics card memory size and type – ok (e.g. 512MB + 1.76Gb)
  - Overclock and non-overclock graphics cards - ok
  - Multi GPU performance ratio should be between 1:1 and 1:2 – see suggested combinations in Appendix A below
  - It is recommended to connect the display to the stronger GPU

### Common mistakes

- Not using latest HYDRALOGIX driver
- Trying to run non-qualified graphics card combinations
- Running non-qualified games

Remark: When a non qualified graphics card combination or game is running – the game will default to the GPU connected to the screen, ensuring the quality of service

# Appendix A: Suggested GPU combinations

		ATI GPUs									ATI + Nvidia GPUs											
		58XX	57XX	56XX	55XX	54XX	48XX	47XX	46XX	45XX	480	470	46X	28X	27X	26X	250	240 210	98XX	96XX	95XX	
ATI GPU	58XX	1	1				1				1	1	1	1	1	1						
	57XX	1	1				1	1					1	1	1	1	1					
	56XX			1	1			1	1										1	1	1	1
	55XX			1	1			1	1										1	1	1	1
	54XX					1				1									1			1
	48XX	1	1				1	1	1		1	1	1	1	1	1	1		1			
	47XX		1	1	1		1	1	1				1	1	1	1	1		1	1		
	46XX	ATI GPUs									Cross Vendors											
	45XX					1			1	1									1			1
													480	470	46X	28X	27X	26X	250	240 210	98XX	96XX
* General Overview												1	1	1	1	1	1					
** May differ by game												1	1	1	1	1	1					
Nvidia GPU	46X											1	1	1	1	1	1	1				
	28X											1	1	1	1	1	1	1				
	27X											1	1	1	1	1	1	1				
	26X											1	1	1	1	1	1	1		1		
	250													1	1	1	1	1	1	1	1	1
	240 210																	1	1	1	1	1
	98XX																1	1	1	1	1	1
	96XX																	1	1	1	1	1
	95XX																		1	1	1	1
													Nvidia GPUs									