



HYDRALOGIX 200 driver package

Release Notes

Version 1.6.109

For Windows Vista 32 & 64 -bit

Windows 7 32 & 64 -bit



© 2010 Lucidlogix Technologies Ltd. All rights reserved.

This information is the proprietary and confidential information of Lucidlogix Technologies Ltd. The information may contain inaccuracies and is provided "as is" without warranty of any kind. All warranties (whether express or implied) are expressly disclaimed. The furnishing of this information does not constitute the grant of any license to use information, products, technologies or other matter referenced herein.

Table of Contents

INTRODUCTION	3
HYDRALOGIX 200 RELEASE UPDATES	3
CHANGES IN VERSION.....	3
Fixed Issues:	3
Open and known issues in this driver version	3
GAMES QUALIFIED	4
Games supported in this version.....	5
Performance Reference	8
N-Mode	8
A-Mode	8
X-Mode	9
Supported Operating Systems	9
Supported graphic libraries	9
Supported graphics cards and display drivers	10
INSTALLATION	10
Minimum Hard Disk Space.....	10
Before You Begin	10
Installation Instructions	11
GENERAL TIPS	11

INTRODUCTION

This release notes document describes HYDRALOGIX 200 driver version 1.6.109 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 1.6.109. In addition there is a detailed description of resolved and open issues for this version.

What's New in Version 1.6.109

- Improved performance
- Increase the number of supported games in 3 GPUs mode

Changes in version

The following sections list the changes made and issues resolved since driver version 1.6.108

Fixed Issues:

- Improve performance in mid and low range GPUs:
 - Starcraft II
 - Far Cry 2 in A-Mode and N-Mode
 - Call of Duty 6 – Modern Warfare 2

Open and known issues in this driver version

The following are the open issues with current driver release:

- No support for windowed mode
- It is recommended that the display screen will be connected to the stronger GPU
- To use Nvidia PhysX with HYDRALOGIX, go to the Nvidia control panel and chose to run PhysX on the auxiliary GPU (the GPU that is not connected to display screen)
- Running games that support both DX11 and DX10 on a DX10 GPU may cause the HYDRALOGIX icon to show indication of a DX11 game.
- Tri GPUs mode is best performed with 3 identical GPUs
- ALT+TAB option is not supported
- Running FutureMark and Unigine benchmarks while FRAPS application is active may cause crashes (occurs also when HYDRALOGIX driver is disabled)
- In some games, there is no way to remove HYDRALOGIX driver logo through the control panel
- While the HYDRALOGIX driver is installed and the user runs in Crossfire 4 GPUs mode, some games may crash

Games Qualified

Games that passed quality tests are added to the games list per each A / N / X mode.

NOTES:

- Running a game that without adding it to the driver's control panel list will automatically default operation of a single GPU, the one connected to screen, to ensure quality of service
- Manually adding games does not guaranty optimized performance or game-play

Games supported in this version

No	Game/Benchmark	Dual GPUs	Tri GPUs	Notes
1	3DMark06	✓	✓	
2	3DMark Vantage	✓	✓	Flickering images in first test in X-Mode
3	Assassin's Creed	✓		
4	Assassin's Creed 2	✓		Hick-ups may appear in A-Mode
5	Aliens vs. Predator	✓	✓	Low performance in 3 GPU benchmark
6	Age of Empires	✓		
7	Anno 1404	✓		
8	ARMA II	✓		
9	Batman Arkham Asylum	✓	✓	N-Mode crash in normal and high Physics
10	Battlefield 2	✓		
11	Battlefield bad company 2	✓		
12	Battle Forge	✓		
13	Battlestations Pacific	✓		
14	BioHazard 5	✓		
15	Bionic Commando	✓		
16	BioShock	✓		
17	BioShock II	✓		
18	Blur	✓		
19	Borderlands	✓		
20	Brothers in Arms Hells Highway	✓		
21	Bully Scholarship	✓		
22	Burnout Paradise The Ultimate Box	✓		
23	C&C3 Kane's Wrath	✓		
24	C&C3 Tiberium wars	✓		
25	Call of Duty 4	✓		Stripes come and go when throw ing a Flash bang
26	Call of Duty – Modern warfare 2	✓		Long loading of cut scenes
27	Call of Duty World At War	✓		
28	Call of Juarez	✓	✓	
29	Call of Juarez Bound In Blood	✓		
30	Civilization IV	✓		
31	Civilization IV Warlords	✓		
32	Civilization IV Beyond	✓		
33	Civilization IV Colonization	✓		
34	Code of Honor 3	✓		
35	Company of Heroes	✓		
36	Cryostasis	✓		Lighting artifacts when using flashlight
37	Crysis	✓		
38	Crysis Warhead	✓		
39	DCS Black Shark	✓		
40	Dead Space	✓		
41	Death to Spies Moment of Truth	✓	✓	
42	Devil May Cry4	✓	✓	
43	Dirt II	✓		
44	Dragon Age: Origins	✓		Flickering appear on characters portraits, no 25x16
45	Empire Total war	✓		
46	F.E.A.R. 2 Project Origin	✓		
47	Fallout 3	✓		
48	Far Cry 2	✓		Low performance in X-Mode
49	FIFA09	✓		
50	FIFA10	✓		

NOTE: X-Mode is available in Windows 7 operation systems only due to the limitation of the operating system

No	Game/Benchmark	N Mode	Tri GPUs	Notes
51	Final Fantasy XIV Benchmark	✓		
52	Frontlines Fuel of War	✓		
53	Fuel	✓		
54	Gears of War	✓		
55	Ghostbusters	✓		
56	Ghost Recon Advanced Warfighter 2	✓		
57	Godfather 2	✓		
58	Grid	✓		
59	GTA IV	✓		
60	Half-Life 2 (Orange box)	✓		
61	Hellgate London	✓		
62	Ice Age 3	✓		
63	Jericho	✓		In Tube level, screen may flickers
64	Just Cause 2	✓		
65	King's Bounty the Legend	✓		
66	Kung Fu Panda	✓		
67	Left 4 Dead	✓		Shimmering shadow s on A-Mode
68	Left 4 Dead 2	✓		Shimmering shadow s on A-Mode
69	Legendary	✓		
70	Lego Indiana Jones	✓		
71	Lord of The Rings	✓		
72	Lost Planet – colonies	✓		
73	Lost Planet - Extreme Condition	✓		
74	Madagascar 2	✓		
75	Mass Effect	✓		
76	Mass Effect 2	✓		
77	Medieval II Total War	✓		
78	Medieval II Total War kingdoms	✓		
79	Mercenaries 2	✓		
80	Metro 2033	✓		Low performance w ith max AA in X-Mode
81	Mini Ninjas	✓		
82	Mirror's Edge	✓		
83	Monsters vs Aliens	✓		
84	MOTGP 08	✓		
85	Napoleon Total war	✓		
86	NBA2K (2009)	✓		
87	NBA2K (2010)	✓		
88	NecroVision	✓		
89	Need for Speed Shift	✓		
90	Need for Speed Undercover	✓		
91	Oblivion	✓		
92	Operation Flashpoint Dragon Rising	✓	✓	
93	Portal	✓		
94	Prince of Persia	✓		
95	Prince of Persia – Forgotten sands	✓		
96	Pro Ev. soccer 2009	✓		
97	Pro Ev. soccer 2010	✓		
98	Prototype	✓		
99	Pure	✓		
100	Quantum of Solace	✓		

NOTE: X-Mode is available in Windows 7 operation systems only due to the limitation of the operating system

No	Game/Benchmark	N Mode	Tri GPUs	Notes
101	Rail Simulator	✓		
102	Rainbow Six Vegas 2	✓		
103	Red Faction Guerrila	✓		
104	Resident Evil 5	✓	✓	
105	S.T.A.L.K.E.R Call of Pripyat	✓		Random hiccups in A-Mode
106	S.T.A.L.K.E.R Clear Sky	✓		
107	S.T.A.L.K.E.R shadow of Chernobyl	✓		
108	SIMS 2	✓		
109	SIMS 3	✓		
110	Singularity	✓		
111	Split/second	✓		
112	Spore	✓		
113	Starcraft 2	✓		In some cases textures are missing
114	Stone Giant	✓		
115	Stormrise	✓	✓	Some jittery movements and Minor artifacts
116	Street Fighter IV	✓		
117	Supreme Commander	✓		
118	Supreme Commander 2	✓		
119	Team fortress 2	✓		
120	The Club	✓		
121	The settlers 7	✓		
122	The Witcher	✓		
123	The Witcher Enhanced Edition	✓		
124	Time Shift	✓		Artifacts on startup movies in N-Mode
125	Tom Clancy's Splinter Cell Conviction	✓		
126	Tom Clancy's: EndWar	✓		
127	Tom Clancy's: H.A.W.X	✓	✓	Alt-Tab cause black screen
128	Tomb Raider – Underworld	✓		
129	TrackMania United	✓		Flickering images on few tracks
130	TrackMania Nations Forever	✓		Flickering images on few tracks
131	Transformers2	✓		May crash on exiting the game
132	Unigine Heaven	✓	✓	Artifacts and low performance in X-Mode with HD5770 + GTX460
133	UT3	✓		
134	Velvet Assassin	✓		Some Jittery Movements
135	Virtual tennis 2009	✓		
136	Wall-E	✓		
137	Wanted Weapons of Fate	✓		
138	Wheelman	✓		
139	Wing of prey	✓		
140	Wolfenstein	✓		
141	Wolfschanze	✓		
142	World In Conflict	✓		
143	World of Warcraft	✓		
144	X-Man Origin Wolverine	✓		
145	Zeno Clash	✓		

NOTE: X-Mode is available in Windows 7 operation systems only due to the limitation of the operating system

Performance Reference

N-Mode

Game	API		HYDRALOGIX / SINGLE CARD(UP TO %)
3DMark06	DX9	Benchmark	130%
3DMark Vantage	DX10	Benchmark	190%
Metro2033	DX11	In-game Save point	200%
Aliens vs. Predator	DX11	Benchmark	180%
Heaven Benchmark 2.0: Unigine	DX11	Benchmark	180%
Dragon Age: Origins	DX9	In-game Save point	200%
Batman: Arkham Asylum	DX9	Benchmark	150%
Left 4 Dead 2	DX9	In-game Save point	200%

A-Mode

Game	API		HYDRALOGIX / SINGLE CARD (UP TO %)
3DMark06	DX9	Benchmark	130%
3DMark Vantage	DX10	Benchmark	170%
Metro2033	DX11	In-game Save point	170%
Street Fighter IV	DX9	Benchmark	110%
Aliens vs. Predator	DX11	Benchmark	170%
Heaven Benchmark 2.0: Unigine	DX11	Benchmark	180%
Dragon Age: Origins	DX9	In-game Save point	160%
Left 4 Dead 2	DX9	In-game Save point	140%

X-Mode

Game	API		HYDRALOGIX / SINGLE CARD (UP TO %)
3DMark06	DX9	Benchmark	120%
3DMark Vantage	DX10	Benchmark	160%
Metro2033	DX11	In-game Save point	120%
Aliens vs. Predator	DX11	Benchmark	140%
Dragon Age: Origins	DX9	In-game Save point	180%
Left 4 Dead 2	DX9	In-game Save point	150%

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/GF 2xx/GF 4xx series
- NVIDIA display drivers: All

A-Mode

- Graphics cards HD4XXX & HD5XXX series
- ATI/AMD display drivers: All

X-Mode

- Graphics cards
 - Nvidia GF 9xxx/GF 2xx series/GF 4xx series
 - AMD/ATi HD4xxx Series & HD5XXX series
- Display drivers:
 - Nvidia:All
 - AMD/ATi: All

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 1.6.109 (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
 - It is best that the display will be connected 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 quality of service