



HYDRALOGIX 200 driver package

Release Notes

Version 1.7.102

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 1.7.102 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 1.7.102. 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 1.7.101

Fixed Issues:

- Support of NVIDIA WHQL display drivers: 260.89 and 260.99

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 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.
- 3i GPUs mode performs best with 3 identical GPUs
- ALT+TAB option is not supported in some games
- Running FutureMark 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

Games Qualified

Games that passed quality tests are added to the games list.

NOTES:

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

Games supported in this version

No	Game/Benchmark	Dual GPUs	Tri GPUs	Notes
1	3DMark06	✓	✓	May display black screen in long run loops in X-Mode
2	3DMark Vantage	✓	✓	Flickering images in first test in X-Mode, may crash in repeated testing in X-Mode
3	AION	✓	☐	
4	Age of Empires	✓	☐	
5	Aliens vs. Predator	✓	✓	Low performance in 3 GPU benchmark
6	Anno 1404	✓	☐	
7	ARMA II	✓	☐	
8	Assassin's Creed	✓		
9	Assassin's Creed 2	✓		Hick-ups may appear in A-Mode
10	Aliens vs. Predator	✓	✓	Low performance in 3 GPU benchmark
11	Batman Arkham Asylum	✓	✓	N-Mode crash in normal and high Physics
12	Battlefield 2	✓		
13	Battlefield bad company 2	✓		
14	Battle Forge	✓		
15	Battlestations Pacific	✓		
16	BioHazard 5	✓		
17	Bionic Commando	✓		
18	BioShock	✓		
19	BioShock II	✓		
20	Blur	✓		
21	Borderlands	✓		
22	Brothers in Arms Hells Highway	✓		
23	Bully Scholarship	✓		
24	Burnout Paradise The Ultimate Box	✓		
25	C&C3 Kane's Wrath	✓		
26	C&C3 Tiberium wars	✓		
27	C&C4 Tiberian Twilight	✓		
28	Call of Duty 4	✓		Stripes come and go when throwing a Flash bang
29	Call of Duty – Modern warfare 2	✓		Long loading of cut scenes
30	Call of Duty World At War	✓		
31	Call of Juarez	✓	✓	
32	Call of Juarez Bound In Blood	✓		
33	Civilization IV	✓		
34	Civilization IV Warlords	✓		
35	Civilization IV Beyond	✓		
36	Civilization IV Colonization	✓		
37	Code of Honor 3	✓		
38	Company of Heroes	✓		
39	Cryostasis	✓		Lighting artifacts when using flashlight
40	Crysis	✓		
41	Crysis Warhead	✓		Minor artifacts when V-Sync is off, low performance in A-Mode
42	DCS Black Shark	✓		
43	Dead Space	✓		
44	Death to Spies Moment of Truth	✓	✓	
45	Devil May Cry4	✓	✓	Striping while working with AA
46	Dirt II	✓		
47	Dragon Age: Origions	✓		Flickering appear on characters portraits, no 25x16
48	Empire Total war	✓		
49	F.E.A.R. 2 Project Origin	✓		
50	Fallout 3	✓		

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

No	Game/Benchmark	Dual GPUs	Tri GPUs	Notes
51	Far Cry 2	✓		Low performance in X-Mode
52	FIFA09	✓		
53	FIFA10	✓		
54	Final Fantasy XIV Benchmark	✓		
55	Frontlines Fuel of War	✓		
56	Fuel	✓		
57	Gears of War	✓		
58	Ghostbusters	✓		
59	Ghost Recon Advanced Warfighter 2	✓		
60	Godfather 2	✓		
61	Grid	✓		
62	GTA IV	✓		
63	Half-Life 2 (Orange box)	✓		
64	Hellgate London	✓		
65	Ice Age 3	✓		
66	Jericho	✓		In Tube level, screen may flickers
67	Just Cause 2	✓		
68	King's Bounty the Legend	✓		
69	Kung Fu Panda	✓		
70	Lara Croft and the Guardian of Light	✓		
71	Left 4 Dead	✓		Shimmering shadows on A-Mode
72	Left 4 Dead 2	✓		Shimmering shadows on A-Mode, game may crash in N-Mode when changing resolution or use ALT-TAB during game
73	Legendary	✓		
74	Lego Indiana Jones	✓		
75	Lord of The Rings	✓		
76	Lost Planet – colonies	✓		
77	Lost Planet - Extreme Condition	✓		
78	Lost Planet 2	✓		
79	Madagascar 2	✓		
80	Mafia 2	✓		
81	Mass Effect	✓		
82	Mass Effect 2	✓		The game may crash when changing resolution during the game in A-Mode
83	Medieval II Total War	✓		
84	Medieval II Total War kingdoms	✓		
85	Mercenaries 2	✓		
86	Metro 2033	✓		Low performance with max AA in X-Mode, May hung-up when changing resolution with no AA in all modes
87	Mini Ninjas	✓		
88	Mirror's Edge	✓		
89	Monsters vs Aliens	✓		
90	MOTGP 08	✓		
91	Napoleon Total war	✓		
92	NBA2K (2009)	✓		
93	NBA2K (2010)	✓		
94	NBA2K (2011)	✓		
95	NecroVision	✓		
96	Need for Speed Shift	✓		
97	Need for Speed Undercover	✓		
98	Oblivion	✓		
99	Operation Flashpoint Dragon Rising	✓	✓	
100	Portal	✓		

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No	Game/Benchmark	Dual GPUs	Tri GPUs	Notes
101	Prince of Persia	✓		
102	Prince of Persia – Forgotten sands	✓		
103	Pro Ev. soccer 2009	✓		
104	Pro Ev. soccer 2010	✓		
105	Pro Ev. soccer 2011	✓		
106	Prototype	✓		
107	Pure	✓		
108	Quantum of Solace	✓		
109	Rail Simulator	✓		
110	Rainbow Six Vegas 2	✓		
111	Red Faction Guerrila	✓		
112	Resident Evil 5	✓	✓	
113	S.T.A.L.K.E.R Call of Pripyat	✓		Random hiccups in A-Mode
114	S.T.A.L.K.E.R Clear Sky	✓		
115	S.T.A.L.K.E.R shadow of Chernobyl	✓		
116	SIMS 2	✓		
117	SIMS 3	✓		
118	Singularity	✓		
119	Split/second	✓		
120	Spore	✓		
121	Starcraft 2	✓		Low performance in N-Mode. Game's updates cause artifacts in all modes.
122	Stone Giant	✓		
123	Stormrise	✓	✓	Some jittery movements and Minor artifacts
124	Street Fighter IV	✓		
125	Supreme Commander	✓		
126	Supreme Commander 2	✓		
127	Team fortress 2	✓		
128	The Club	✓		
129	The settlers 7	✓		
130	The Witcher	✓		
131	The Witcher Enhanced Edition	✓		
132	Time Shift	✓		Artifacts on startup movies in N-Mode
133	Tom Clancy's Splinter Cell Conviction	✓		
134	Tom Clancy's: EndWar	✓		
135	Tom Clancy's: H.A.W.X	✓	✓	Alt-Tab cause black screen
136	Tomb Raider – Underworld	✓		
137	TrackMania United	✓		Flickering images on few tracks
138	TrackMania Nations Forever	✓		Flickering images on few tracks
139	Transformers2	✓		May crash on exiting the game
140	Tropico 3	✓		
141	Unigine Heaven	✓	✓	Artifacts and low performance in X-Mode with HD5770 + GTX460
142	UT3	✓		

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No	Game/Benchmark	Dual GPUs	Tri GPUs	Notes
143	Velvet Assassin	✓		Some Jittery Movements
144	Virtual tennis 2009	✓		
145	Wall-E	✓		
146	Wanted Weapons of Fate	✓		
147	Warhammer 40000 Dawn of War II Chaos Rising	✓		
148	Wheelman	✓		
149	Wing of prey	✓		
150	Wolfenstein	✓		
151	Wolfschanze	✓		
152	World In Conflict	✓		Stripes appear at the end of the benchmark in all modes
153	World of Warcraft	✓		
154	Worms Reloaded	✓		
155	WRC FIA World Rally Championship	✓		
156	X-Man Origin Wolverine	✓		
157	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	150%
3DMark Vantage	DX10	Benchmark	185%
Heaven Benchmark 2.0: Unigine	DX11	Benchmark	175%
Battlefield: Bad Company 2	DX11	In-game save point	128%
Metro2033	DX11	In-game save point	170%
Street Fighter IV	DX9	Benchmark	115%
Crysis Warhead	DX10	Benchmark	145%
Aliens vs. Predator	DX11	Benchmark	185%
Batman: Arkham Asylum	DX9	Benchmark	140%
Call of Duty: MW2	DX9	In-game save point	160%
Mass Effect 2	DX9	In-game save point	200%
Bioshock 2	DX10	In-game save point	135%
Left 4 Dead 2	DX9	In-game save point	150%

A-Mode

Game	API		HYDRALOGIX / SINGLE CARD (UP TO %)
3DMark06	DX9	Benchmark	170%
3DMark Vantage	DX10	Benchmark	180%
Heaven Benchmark 2.0: Unigine	DX11	Benchmark	180%
StarCraft2	DX9	In-game save point	125%
Battlefield: Bad Company 2	DX11	In-game save point	145%
Metro2033	DX11	In-game save point	150%
Street Fighter IV	DX11	Benchmark	175%
Resident Evil 5	DX10	Benchmark	135%
Aliens vs. Predator	DX11	Benchmark	170%
Batman: Arkham Asylum	DX9	Benchmark	140%
Call of Duty: MW2	DX9	In-game save point	125%
Mass Effect 2	DX9	In-game save point	155%

Far Cry 2	DX10	Benchmark	140%
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X-Mode

Game	API		HYDRALOGIX / SINGLE CARD (UP TO %)
3DMark06	DX9	Benchmark	130%
3DMark Vantage	DX10	Benchmark	140%
Heaven Benchmark 2.0: Unigine	DX11	Benchmark	130%
Starcraft 2	DX9	In-game save point	135%
Metro2033	DX11	In-game save point	125%
Street Fighter IV	DX9	Benchmark	125%
Mass Effect 2	DX9	In-game save point	115%
Crysis Warhead	DX10	Benchmark	125%

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 (except GTX295)
- NVIDIA display drivers: All WHQL drivers

A-Mode

- Graphics cards HD4XXX & HD5XXX series (except HD 5970)
- ATI/AMD display drivers: All WHQL drivers

X-Mode

- Graphics cards
 - Nvidia GF 9xxx/GF 2xx series/GF 4xx series (except GTX295)
 - AMD/ATi HD4xxx Series & HD5XXX series (except HD 5970)
- Display drivers:
 - Nvidia: All WHQL drivers
 - AMD/ATi: All WHQL drivers

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 1.7.102 (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 below
 - 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

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 GPUs	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				
	47XX		1	1	1		1	1	1				1	1	1	1	1	1	1			
	46XX	ATI GPUs								1	1	1	Cross Vendors						1	1	1	1
	45XX					1			1	1							1			1		
Nvidia GPUs										480	1	1	1	1	1	1						
										470	1	1	1	1	1	1						
										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			
										240 210							1	1	1	1	1	
										98XX						1	1	1	1	1	1	
										96XX						1	1	1	1	1	1	
										95XX							1	1	1	1	1	
										Nvidia GPUs												

* General Overview

** May differ by game

Leading Performance Enhancement Games

- 3DMark06 (Benchmark)
- 3DMark Vantage (Benchmark)
- Heaven Benchmark 2.0: Unigine (Benchmark)
- Aliens vs. Predator DX-11 (Game + Benchmark)
- Batman: Arkham Asylum (Game + Benchmark)
- Call of Duty: Modern Warfare 2
- Devil may cry 4 (Game + benchmark)
- Fallout 3
- Left4Dead 2
- Mass Effect 2
- Metro2033
- Operation flashpoint dragon rising
- StarCraft2
- Crysis warhead (game + benchmark)