

HYDRA 200 software package

Release Notes

Version 1.6.108

For Windows Vista 32 & 64 -bit

Windows 7 32 & 64 -bit



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INTRODUCTION

This Release Notes document describes HYDRA 200 driver version 1.6.108 for Microsoft Windows Vista & Windows 7. The document describes added features, performance improvements, bug fixes and known bugs in this driver version.

HYDRA 200 RELEASE UPDATES

This chapter describes new features, performance improvements and pending issues for version 1.6.108. In addition there is a detailed description of resolved and open issues for this version.

Version Highlights

What's New in Version 1.6.108

- Improved performance
- Bug fixes

Changes in version

The following sections list the changes made and issues resolved since driver version 1.6.106

Fixed Issues:

- Change brand name to HYDRALOGIX
- Black screen in 3DMark06 X-Mode after long runs
- Support Starcraft 2
- Metro 2033 crash in X-Mode
- Better support of GTX460 with HD5770 cards combination in X-Mode

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)

Games Qualified

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

NOTE: Running a game that was not added to the list will automatically default to the GPU connected to screen to ensure quality of service

NOTE: 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	+		
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 throwing 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	+		
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 with max AA in X-Mode
81	Mini Ninjas	✓		
82	Mirror's Edge	✓		
83	Monsters vs Aliens	✓		
84	MOTOGP 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	Dual GPUs	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 Pripjat	✓		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	✓		
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	✓		Crashes in DX-10. In DX-11, after receiving the scores, if left for long time or on exit - may get black screen
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

Expected Performance

N-Mode

Game	API		Resolution & Settings	Single card	HYDRALOGIX DUAL CARD	HYDRALOGIX / SINGLE CARD
3DMark06	DX9	Benchmark	19x12 AAx8 AF16	16336	20505	126%
3DMark Vantage	DX10	Benchmark	Extreme Preset	9864	18450	187%
Metro2033	DX11	In-game Save point	19x12 AAx4	23.7	50.0	211%
Aliens vs. Predator	DX11	Benchmark	19x12 AAx4	35.9	64.9	181%
Heaven Benchmark 2.0: Unigine	DX11	Benchmark	19x12 AAx8 Extreme Tessellation	26.9	47.7	177%
Dragon Age: Origins	DX9	In-game Save point	19x12 AAx8	140.1	302.0	216%
Batman: Arkham Asylum	DX9	Benchmark	19x12 AAx8	136.1	203.0	149%
Left 4 Dead 2	DX9	In-game Save point	19x12 AAx8	150.0	288.0	192%

System configuration

- Motherboard - HYDRA Fuzion
- CPU - i7 870 @ 2.93GHz
- Memory - 3GB RAM
- OS - Win 7 32bit
- GPUs - Dual Geforce GTX480
- HYDRA driver - 1.6.108
- Nvidia driver – 257.21
- Screen resolution – 19 x 12

A-Mode

Game	API		Resolution & Settings	Single card	HYDRALOGIX DUAL CARD	HYDRALOGIX / SINGLE CARD
3DMark06	DX9	Benchmark	19x12 AAx8 AF16	15631	19068	122%
3DMark Vantage	DX10	Benchmark	Extreme Preset	9047	15318	169%
Metro2033	DX11	In-game Save point	19x12 AAx4	15	25.56	170%
Street Fighter IV	DX9	Benchmark	19x12 AAx8	140.33	153.26	109%
Aliens vs. Predator	DX11	Benchmark	19x12 AAx4	29.9	50	167%
Heaven Benchmark 2.0: Unigine	DX11	Benchmark	19x12 AAx8 Extreme Tessellation	15.13	26.4	174%
Dragon Age: Origins	DX9	In-game Save point	19x12 AAx8	133.03	207.06	156%
Left 4 Dead 2	DX9	In-game Save point	19x12 AAx8	180	240	133%

System configuration

- Motherboard - CrossHair IV Extreme
- CPU - AMD Phenom-II X6 1090T 3.21GHz
- Memory - 3GB RAM
- OS - Win 7 32bit
- GPUs - Dual HD 5870
- HYDRA driver - 1.6.108
- ATI driver – 10.7
- Screen resolution – 19 x 12

X-Mode

Game	API		Resolution & Settings	Single HD5870 card	Single GTX 480 card	HYDRALOGIX DUAL CARD	HYDRALOGIX/ GTX 480
3DMark06	DX9	Bench mark	19x12 AAx8 AF16	15392	16336	19358	118%
3DMark Vantage	DX10	Bench mark	Extreme Preset	8723	9864	15475	157%
Metro2033	DX11	In-game Save point	19x12 AAx4	23	23.7	26.4	111%
Aliens vs. Predator	DX11	Bench mark	19x12 AAx4	27.9	35.9	47.7	133%
Dragon Age: Origins	DX9	In-game Save point	19x12 AAx8	137.03	140.1	246.967	176%
Left 4 Dead 2	DX9	In-game Save point	19x12 AAx8	175	193.0	290	150%

System configuration

- Motherboard - HYDRA Fuzion
- CPU - i7 870 @ 2.93GHz
- Memory - 3GB RAM
- OS - Win 7 32bit
- GPUs - HD 5870 and GTX480
- HYDRA driver - 1.6.106
- Nvidia driver – 257.21
- ATI driver – 10.7
- Screen resolution – 19 x 12

Supported Operating Systems

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

English (USA)

Supported graphic libraries

The HYDRA 200 driver supports the following graphic libraries:

- DirectX 9
- DirectX 10/10.1
- DirectX 11

Supported graphics cards and display drivers

The HYDRA 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

If you have previously installed HydraLogix (version 100 or 200) driver, please uninstall it before installing this release.

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

Installation Instructions

1. Open the HYDRA 200 installation executable 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