



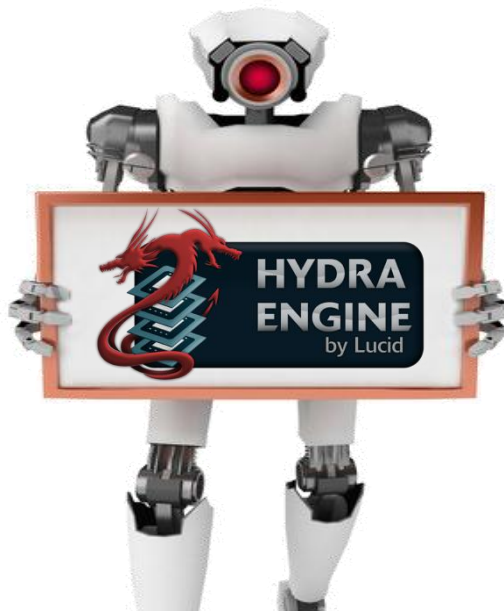
# HYDRA 200 software package

## *Release Notes*

**Version 1.6.106**

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

## HYDRA 200 RELEASE UPDATES

This chapter describes new features, performance improvements and pending issues for version 1.6.106. In addition there is a detailed description of resolved and open issues for this version.

### Version Highlights

#### What's New in Version 1.6.106

- Improved performance
- Games support expansion to all modes
- Bug fixes

### Changes in version

The following sections list the changes made and issues resolved since HYDRA driver version 1.5.109

#### Fixed Issues:

- Improve Quality of Service - Extreme asymmetric multi GPU ratio defaults to screen GPU.
- Increase the number of supported DX11 games
- Improve performance
- Improved support in non-identical GPUs up to ratio of 1:2

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## 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 HYDRA, 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 HYDRA 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 HYDRA 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	N Mode	A Mode	X Mode	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	A Mode	X 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 shadows on A-Mode
68	Left 4 Dead 2	✓	✓	✓		Shimmering shadows 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	✓	✓	✓		
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	✓	✓	✓		

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No	Game/Benchmark	N Mode	A Mode	X 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	✓	✓	✓		
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

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## 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 HYDRA (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 HYDRA drivers.

### Installation Instructions

1. Open the HYDRA200 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 HYDRA 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