



## ***AMD Catalyst™ Software Suite Version 10.10 Release Notes***

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These release notes provide information on the latest posting of AMD's software suite, AMD Catalyst™. This particular software suite updates both the AMD display driver, and the AMD Catalyst™ Control Center. This unified driver has been updated to provide enhanced level of power, performance, and reliability.

For current AMD Catalyst updates follow *CatalystMaker* on Twitter™.

This release note provides information on the following:

- *Web Content*
- *AMD Product Compatibility*
- *Compatible Operating Systems*
- *New Features*
- *AMD Catalyst Application Profiles*
- *Performance Improvements*
- *Resolved Known Issues for All Windows® Operating Systems*
- *Resolved Known Issues for the Windows® 7 Operating System*
- *Resolved Known Issues for the Windows Vista® Operating System*
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- *Known Issues Under All Windows® Operating Systems*
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## Web Content

The AMD Catalyst™ software suite 10.10 contains the following:

- AMD display driver version 8.78 (Windows® XP) and 8.782 (Windows Vista® and Windows® 7)
- HydraVision™ for Windows XP, Windows Vista and Windows 7
- Southbridge/IXP Driver
- AMD Catalyst™ Control Center version 8.78 and 8.782



**Caution:** The AMD display driver and the AMD Catalyst Control Center can be downloaded independently of each other. However, for better stability and performance AMD recommends that both components be updated from the same AMD Catalyst release.

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**Caution:** The AMD Catalyst Control Center requires that the Microsoft® .NET Framework SP1 be installed for Windows XP and Windows Vista. Without .NET SP1 installed, the AMD Catalyst Control Center will not launch properly and the user will see an error message.

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**Note:** When installing the AMD Catalyst driver for Windows operating system, the user must be logged on as Administrator or have Administrator rights to complete the installation of the AMD Catalyst driver.

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**Note:** These release notes provide information on the AMD display driver only. For information on the ATI Multimedia Center™, HydraVision, HydraVision Basic Edition, Remote Wonder™, or the Southbridge/IXP driver, please refer to their respective release notes found at: <http://support.amd.com/>.

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**Note:** ATI Eyefinity™ technology gives gamers access to high display resolutions. As pixel count grows, the graphics horsepower required to drive the displays at a reasonable frame rate can increase dramatically. Depending on the game and system configuration, users may notice texture corruption and reduced frame rates when running games in multi-monitor Eyefinity modes.

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**Note:** Windows Driver Model (WDM) drivers are no longer bundled in the AMD Catalyst software suite. The WDM drivers install bundle can be downloaded independently through the AMD website.

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**Note:** The Drag and Drop Transcoding feature is a beta level feature provided only for evaluation purposes. The Drag and Drop Transcoding feature is only supported on single and dual core CPUs, and supported on devices that support Media Transfer Protocol (MTP).



**Note:** When upgrading from a non-Stream™ Edition driver suite to a Stream Edition driver suite with the ATI Stream™ SDK v2 installed, it is recommended that you uninstall the ATI Stream SDK v2 Developer component from the system prior to installing Stream Edition driver suite.



**Note:** When installing the ATI Stream SDK v2 after a Stream Edition driver suite has been installed on a system, you may encounter a maintenance dialog for the developer component of the SDK. This is normal and can be ignored by canceling the dialog box.

## AMD Product Compatibility

The AMD Catalyst driver is compatible with the following AMD products.

### AMD Desktop Product Family Compatibility

AMD Desktop Product Families	
AMD Radeon™ HD 6800 Series	ATI Radeon™ HD 4670 Series
ATI Radeon™ HD 5900 Series	ATI Radeon™ HD 4650 Series
ATI Radeon™ HD 5800 Series	ATI Radeon™ HD 4600 Series
ATI Radeon™ HD 5700 Series	ATI Radeon™ HD 4550 Series
ATI Radeon™ HD 5600 Series	ATI Radeon™ HD 4350 Series
ATI Radeon™ HD 5500 Series	ATI Radeon™ HD 3800 Series
ATI Radeon™ HD 5400 Series	ATI Radeon™ HD 3600 Series
ATI Radeon™ HD 4890 Series	ATI Radeon™ HD 3400 Series
ATI Radeon™ HD 4870 X2 Series	ATI Radeon™ HD 2900 Series
ATI Radeon™ HD 4850 X2 Series	ATI Radeon™ HD 2600 Series
ATI Radeon™ HD 4800 Series	ATI Radeon™ HD 2400 Series
ATI Radeon™ HD 4700 Series	



**Note:** Driver compatibility for AMD Radeon HD 6800 Series is currently available for Windows Vista and Windows 7 only.

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## AMD FireStream™ Product Family Compatibility

AMD FireStream Product Families	
AMD FireStream™ 9350	AMD FireStream™ 9250
AMD FireStream™ 9270	AMD FireStream™ 9170

## AMD Chipset Product Family Compatibility

AMD Chipset Product Families	
ATI Radeon™ HD 4290	ATI Radeon™ 3200 Series
ATI Radeon™ HD 4250	ATI Radeon™ 3100 Series
ATI Radeon™ HD 4200 Series	ATI Radeon™ 3000 Series
ATI Radeon™ HD 3300 Series	

## AMD Mobility Product Family Compatibility

Catalyst™ Mobility is a notebook reference graphics driver with limited support for system vendor specific features. When used with Windows Vista or Windows 7, users may have unwanted experiences.

The Installation Verification Software will prevent driver download on certain notebook products. This is to protect against the installing of drivers that may disable features or functionality provided by the system manufacturer. If unwanted experiences occur using Catalyst Mobility, it is recommended to revert back to the driver provided by your system vendor for your specific platform. Please contact your system vendor for the most recent drivers for your notebook.

AMD Mobility Product Families	
ATI Mobility Radeon™ HD 5800 Series	ATI Mobility Radeon™ HD 3800 Series
ATI Mobility Radeon™ HD 5700 Series	ATI Mobility Radeon™ HD 3600 Series
ATI Mobility Radeon™ HD 5600 Series	ATI Mobility Radeon™ HD 3400 Series
ATI Mobility Radeon™ HD 5400 Series	ATI Mobility Radeon™ HD 3200 Series
ATI Mobility Radeon™ HD 5100 Series	ATI Mobility Radeon™ 3100 Series
ATI Mobility Radeon™ HD 4800 Series	ATI Mobility Radeon™ HD 2700 Series
ATI Mobility Radeon™ HD 4600 Series	ATI Mobility Radeon™ HD 2600 Series
ATI Mobility Radeon™ HD 4500 Series	ATI Mobility Radeon™ HD 2400 Series
ATI Mobility Radeon™ HD 4200 Series	ATI PowerXpress™ enabled notebooks using AMD chipsets
ATI Mobility Radeon™ 4100 Series	



The following notebooks are not compatible with this release:

- Any notebook launched after this driver release
  - Switchable Graphics enabled notebooks using Intel® chipsets.
  - Toshiba® notebooks (please contact the notebook OEM for driver support for these notebooks)
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- Sony® VAIO® notebooks (please contact the notebook OEM for driver support for these notebooks)
  - Panasonic® notebooks (please contact the notebook OEM for driver support for these notebooks)
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## Compatible Operating Systems

The latest version of the AMD Catalyst software suite is designed to support the following Microsoft Windows platforms:

- Windows 7 32-bit version
- Windows 7 64-bit version
- Windows Vista 32-bit version
- Windows Vista 64-bit version
- Windows XP Professional
- Windows XP Home Edition
- Windows XP Media Center Edition
- Windows XP Professional x64 Edition

## New Features

This section provides information on new features found in this release of the AMD display driver. These include the following:

- *Introduction of AMD Catalyst™ Accelerated Parallel Processing ("APP") technology Edition*
- *Video acceleration for WMV HD® video content*
- *Enhanced Dynamic Contrast video controls*
- *Introduction of AMD HD3D Technology*

### Introduction of AMD Catalyst™ Accelerated Parallel Processing ("APP") technology Edition

- There will now be two variants of the AMD Catalyst package available:
  1. AMD Catalyst (comparable to prior versions in features and components) – currently includes the Direct3D®, OpenGL®, display driver and AMD Catalyst Control Center components
  2. AMD Catalyst Accelerated Parallel Processing ("APP") technology Edition – AMD Catalyst plus the OpenCL driver
- Users can still obtain the individual AMD Catalyst components as well (which will also include the OpenCL driver as well)

### Video acceleration for WMV HD® video content

- This release of AMD Catalyst provides video acceleration support for WMV HD® (Microsoft video codec) under Windows 7
- Compatible with the ATI Radeon™ HD 5000 Series of products

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## Enhanced Dynamic Contrast video controls

- This release of AMD Catalyst enhances the Dynamic Contrast setting found in the Catalyst Control Center by adding histogram based detection

## Introduction of AMD HD3D Technology

### Blu-ray 3D™ Support

- This release of AMD Catalyst enables Blu-ray 3D™ playback
- Requirements include Blu-ray 3D player software, 3D supported display and 3D Stereoscopic glasses
- Compatible with the AMD Radeon HD 6800 Series

### Stereo 3D Gaming Compatibility

- This release of AMD Catalyst enables Stereo 3D gaming via 3rd party Stereo 3D Conversion Software from Dynamic Digital Depth (DDD™) and iZ3D™
- Requirements include 3D supported display and 3D Stereoscopic glasses
- Compatible with the ATI Radeon HD 5000 Series and AMD Radeon HD 6800 Series

**\*More information on AMD HD3D Technology, including Stereo 3D Conversion Software and a list of supported displays, can be found at [www.amd.com/hd3d](http://www.amd.com/hd3d)**

## Catalyst™ Application Profiles

The following application profiles are available with this release of AMD Catalyst 10.10:

- Multiplayer Medal of Honor™ (DirectX® 9/DirectX® 10/DirectX® 11) CrossFire™ update
- Darksider™ (DirectX 9) performance and CrossFire anti-aliasing update
- NBA 2K11™ (DirectX 9) CrossFire update
- Stone Giant™ (DirectX 10/DirectX 11) CrossFire update
- Civilization V™ (DirectX 10/DirectX 11) tweak CrossFire update
- H.A.W.X.™ 2 (DirectX 10/DirectX 11) CrossFire update
- Formula 1™ (DirectX 10/DirectX 11) CrossFire update
- World of Warcraft™ (DirectX 11) version CrossFire update

## Performance Improvements

The following performance improvements were observed with this release of AMD Catalyst 10.10:

- **Aliens vs. Predator™ DirectX 11 Benchmark**
  - Performance increases up to 6% on ATI Radeon HD 5800 Series single and CrossFire

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- Performance increases up to 5% on ATI Radeon HD 5700 Series single and CrossFire
  - Performance increases up to 5% on ATI Radeon HD 5600 Series
  - Performance increases up to 5% on ATI Radeon HD 5500 Series
  - Performance increases up to 4% on ATI Radeon HD 5400 Series
  - **BattleForge™**
    - Performance increases up to 6% on ATI Radeon HD 5800 Series single and CrossFire configurations with anti-aliasing enabled
    - Performance increases up to 5% on ATI Radeon HD 5700 Series single and CrossFire configurations with anti-aliasing enabled
  - **Crysis Warhead®**
    - Performance increases up to 9% on Single ATI Radeon HD 5800 Series products with anti-aliasing enabled
  - **Far Cry™ 2**
    - Performance increases up to 7% on Single ATI Radeon HD 5800 Series products
  - **Metro 2033™**
    - Performance increases up to 7% on ATI Radeon HD 5800 Series single and CrossFire configurations
    - Performance increases up to 8% on ATI Radeon HD 5700 Series single and CrossFire configurations
    - Performance increases up to 5% on ATI Radeon HD 5600 Series in DirectX 11 and 10 modes
    - Performance increases up to 5% on ATI Radeon HD 5500 Series in DirectX 11 and 10 modes
    - Performance increases up to 4% on ATI Radeon HD 5400 Series in DirectX 11 and 10 modes
  - **S.T.A.L.K.E.R.™ : Call of Pripyat Benchmark**
    - Performance increases up to 7% on single ATI Radeon HD 5800 Series products
  - **Unigine™ Heaven**
    - Performance increases up to 9% on ATI Radeon HD 5800 Series single and CrossFire configurations with anti-aliasing enabled
    - Performance increases up to 8% on ATI Radeon HD 5700 Series single and CrossFire configurations with anti-aliasing enabled
  - **World in Conflict™**
    - Performance increases up to 9% on ATI Radeon HD 5600 Series
    - Performance increases up to 10% on ATI Radeon HD 5500 Series

## Resolved Known Issues for All Windows Operating Systems

This section provides information on resolved known issues in this release of the AMD Catalyst software suite for Windows. These include:

- Catalyst Control Center page will now report the correct video memory type



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## Resolved Known Issues for the Windows 7 Operating System

This section provides information on resolved known issues in this release of the AMD Catalyst software suite for Windows 7. These include:

- Screen no longer becomes static after changing resolution in "Just Cause 2™" with CrossFire enabled under Multi-GPU configuration
- Secondary (Slave) GPU and Memory Clock values will now increase when D3D samples/games are running in fullscreen mode
- The maximum support mode will now be properly displayed when the CRT is connected via the DP-to-VGA dongle
- Negative CrossFire scaling no longer experienced in "Need for Speed™: Shift 2" on the ATI Radeon™ HD 5870 card
- Tearing corruption no longer visible in "Call of Duty®: Modern Warfare® 2" with CrossFire enabled
- VGA display will now light up when hotplugged into the VGA port on a system booted without any displays connected
- Changing the HDMI™ display output to 1776x1000 through the operating system resolution setting no longer causes the refresh rate to default to 30Hz
- Frame drops no longer visible during WinDVD® Blu-ray playback with display resolution set to 25x16
- Changes to HDMI display scaling are now retained after system reboot
- System no longer displays blue screen during HDMI audio driver upgrade if existing version is not uninstalled prior to installation
- Unwanted desktop experience no longer visible while viewing Blu-ray content on 120 Hz displays

## Resolved Known Issues for the Windows Vista Operating System

This section provides information on resolved known issues in this release of the AMD Catalyst software suite for Windows Vista. These include:

- Optimized and custom modes for 720p60, 1080p60 and 1080i30 are no longer missing for specific DVI displays
- Display no longer turns black when rotated 90 or 270 degrees with resolution set to 1080i30 and Aero® enabled

## Known Issues Under All Windows Operating Systems

The following section provides a summary of open issues that may be experienced under the Windows operating system in the latest version of AMD Catalyst. These include:

- Catalyst Control Center: Enable dialog reposition does not show on proper monitor when system is configured with 4 displays

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- Switching the preferred display in specific Eyefinity configurations may cause the displays to become disabled
  - During 4x1 Eyefinity configuration, the Catalyst Control Center "Desktops & Displays" properties page may show black monitors instead of the actual desktop background with display numbers on specific cards
  - With Super Anti-Aliasing enabled, Crossfire logo might not appear during "StarCraft® II" game launch on AMD Radeon HD 6800 Series
  - System may stop responding while running OpenCL "Multi Device/Context" Conformance test on GPU for some cards
  - When using "Overdrive", clicking the "Default" button might not switch the GPU and memory clocks back to their idle clock values once the memory clock value has been changed on some cards

## Known Issues Under the Windows 7 Operating System

The following section provides a summary of open issues that may be experienced under the Windows 7 operating system in the latest version of AMD Catalyst. These include:

- Running fullscreen DirectX 9 applications/games after enabling Aero effects and rebooting may cause the system to stop responding
- Task switching to desktop and then back into "Far Cry 2" DX10 game may result in performance drop with CrossFire enabled under Multi-GPU configurations
- Primary display may blank out during "World in Conflict™: Soviet Assault" DirectX10 gameplay with CrossFire and Dual Monitor enabled
- Drag and Drop transcoded H264i content may show de-interlacing lines
- Display may intermittently turn blank on launching "Enemy Territory™: Quake Wars" or during gameplay under Multi-GPU configurations on some cards
- With CrossFire enabled, flickering may be observed in OpenGL games when refresh rate is set to 100Hz or higher on some cards
- Desktop may dim after exiting "Mafia™ II" game on some cards
- Under multi-adapter configuration, various rotated displays in Eyefinity set up might not be retained after reboot
- Mouse cursor may intermittently be corrupt/missing in one of the displays under Eyefinity configuration while playing games/samples
- Tearing corruption may be visible in specific "StarCraft II" game campaigns at low resolution settings (1024x768) on some cards
- "Stone Giant" DirectX 11 demo may fail in fullscreen mode with CrossFire enabled under Multi-GPU configurations on some cards
- Task switching out of "Battlefield: Bad Company™ 2" and then back into the game may cause CrossFire to become disabled
- Wrap-around corruption may be visible with 120 Hz panels during some resolution changes in 120 Hz mode on AMD Radeon HD 6800 Series
- Switching from 32-bit to 16-bit colordepth during WMV media playback may cause the video to go blank on some cards
- "Need for Speed: Shift" may intermittently display tearing corruption if races are played back-to-back without exiting the game on AMD Radeon HD 6800 Series
- Enabling CrossFire in "Far Cry 2" DirectX 9 may result in low performance and benchmark failing to complete on some cards

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- "Tom Clancy's Endwar™" may stop responding during game cut scenes on some cards
  - Enabling in-game Anti-Aliasing and utilizing Edge-Detect filters may cause smoother lines but blurry textures when compared to the Standard filter on some cards
  - Enabling anti-aliasing in "StarCraft® II: Wings of Liberty™" may cause outline highlights to be rendered incorrectly on some cards
  - Green texture corruption may be observed when resolution/video settings are changed in "Metro 2033" game in DirectX 10 and 11 mode on some cards
  - Rebooting a system with a CRT connected to the MiniDP port may cause all resolutions except 640x480 to go missing
  - Windows Media® Center application may stop responding or system may intermittently fail while playing 1080p video in 2x2 & 4X1 Eyefinity mode
  - Desktop line corruption may be observed after hotplugging the HDCP display on some cards

## Known Issues Under the Windows Vista Operating System

The following section provides a summary of open issues that may be experienced under the Windows Vista operating system in the latest version of AMD Catalyst. These include:

- Running fullscreen DirectX 9 applications/games after enabling Aero effects and rebooting may cause the system to stop responding
- Corruption might be visible in "Doom™ 3" and "Quake™ 4" with ATI Radeon HD 4700 Series
- All but the primary display under Eyefinity configuration might become disabled while changing the preferred display at lowest Bezel compensated resolution
- When "World of Warcraft" is launched via TriDef® 3D and hardware cursor is enabled, the mouse cursor may flicker and disappear
- Performing bezel compensation on 3x2 Eyefinity configuration may cause the bezel group (resolutions) to go missing
- "Left 4 Dead™ 2" may fail to launch and will generate an error message when desktop is set to portrait mode on AMD Radeon HD 6800 Series
- Hot swapping a HDCP display panel with a non-HDCP display may cause display to turn blank after resuming from sleep/hibernate during Blu-ray disc playback

## Installing the AMD Catalyst Software Driver

For further information and general help on software driver installation, game issues, and more, visit [AMD Customer Care](#).

Installation information can be found at: [How to Install Your ATI Product](#).

## AMD Catalyst Crew Driver Feedback

This driver release incorporates suggestions received through the AMD Catalyst Crew Driver Feedback program. To provide us with your feedback, visit [Catalyst Crew Driver Feedback](#).