RADEON TECHNOLOGIES GROUP
SOFTWARE UPDATE
RADEON TECHNOLOGIES GROUP

visual and accelerated computing innovations

graphics industry leader

IMMERSIVE

PERFORMANCE

EFFICIENCY

GAMING

VR/AR

PRO GRAPHICS
Software as important as hardware
MAJOR CATALYST MILESTONES

2002: First release of ATI Catalyst™

2005: Introduction of CrossFire™

2009: AMD OpenCL™ GPU and CPU support

2010: AMD Eyefinity technology

2012: Never Settle driver performance

2014: AMD Mantle

2015: AMD Catalyst™ Omega driver

AMD LiquidVR™ technology

Windows® 10
Mantle API
Announced by AMD

DirectX® 12
Announced by Microsoft®

Metal
Announced by Apple

Vulkan™
Announced by Khronos Group

AMD LiquidVR™ technology announced
over 1 BILLION downloads since AMD Catalyst™ launch
LEGACY OF AMD CATALYST™ CONTROL CENTER

13 years of enabling amazing user experiences
FORM
Simple, Powerful, Modern

FUNCTION
Intuitive, Innovative, Interactive

EXPERIENCE
Enjoyable, Fast, Fun

DESIGN PHILOSOPHY
INTRODUCING

RADEON SOFTWARE

CRIMSON
RADEON SOFTWARE NAMING CONVENTION

RADEON SOFTWARE

Name

CRIMSON EDITION

Major Version
(2015/2016)

15.11

Minor Versions
Year.Month
REIMAGINED
RADEON SETTINGS
REDESIGNED.  Refined.  Supercharged.

Modern User Interface  Intuitive Navigation  10x Faster\textsuperscript{1}

simplicity  discoverability  start up time

\textsuperscript{1} see slide 16 for details
RADEON SETTINGS

New Brushed Metal Design
Faster Start up
New and more Intuitive Navigation
New Game Manager
New Overdrive
New Video, Display and AMD Eyefinity technology
Rearchitected based on QT
MODERN USER INTERFACE
RADEON SETTINGS STARTS UP TO 10X FASTER THAN AMD CATALYST™ CONTROL CENTER

<table>
<thead>
<tr>
<th></th>
<th>Start up time</th>
<th></th>
<th></th>
<th>Start up time</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Catalyst Control Center</td>
<td>8 Seconds</td>
<td></td>
<td>Radeon Settings</td>
<td>0.6 Seconds</td>
<td></td>
</tr>
</tbody>
</table>

Testing conducted by AMD Performance Labs on October 26, 2015 using a HP Pavilion DM1 with AMD E-350 with AMD Radeon HD 6310 Graphics, 3GB (1GB+2GB) DDR3, Windows 10 64bit. With AMD Catalyst 15.8, the system took 8 seconds on average to load the control panel (AMD Catalyst Control Center). With Radeon Software Crimson Edition, the system took 0.6 seconds on average to load the control panel (Radeon Settings). RS-1
INTUITIVE NAVIGATION

Sections of Radeon Settings

Check here for new updates, to configure Radeon Settings and to view your GPU notifications

Customer communication space for games, care abouts, latest promotions and more...

Social links.
GAME MANAGER
VIEW AND CONFIGURE YOUR GAMES

View your games on a single screen, enhance each game’s graphics settings and overdrive settings and experience the gaming experience you truly want for each unique game.
GAME MANAGER
NEW PER GAME CUSTOMIZATION

Configure custom graphics settings for this game/application. These settings override the default settings on the Global Graphics page.

- **Anti-aliasing Mode**
  - Override application settings
  - Anti-aliasing Level: ZD

- **Anisotropic Filtering Mode**
  - Use application settings
  - Texture Filtering Quality: High

- **Tessellation Mode**
  - AMD optimized

- **Frame Rate Target Control**
  - 200 FPS

- **Anti-aliasing Filter**
  - Standard

- **Surface Format Optimization**
  - On

- **OpenGL Triple Buffering**
  - Off

- **Morphological Filtering**
  - Off

- **Wait for Vertical Refresh**
  - Off, unless application specifies

- **Anti-aliasing Method**
  - Multisampling

- **Profile OverDrive**
OVERDRIVE
OVERCLOCKING* PER GAME LIKE NEVER BEFORE

Configure unique overclock settings for each of your games. Now each game will launch with its own unique complete configuration.

*AMD’s product warranty does not cover damages caused by overclocking, even when overclocking is enabled via AMD hardware.
Several optimized video profiles allow you to customize your video experience with ease and simplicity.
Configure each display by enabling AMD FreeSync™ technology, Virtual Super Resolution and GPU Scaling and witness true gaming.

FreeSync is an AMD technology designed to eliminate stuttering and/or tearing in games and videos by locking a display’s refresh rate to the framerate of the graphics card. Requires Monitor, AMD Radeon™ graphics and/or AMD A-Series APU compliant with DisplayPort™ Adaptive-Sync 1.2 (or newer). AMD Catalyst™ driver 15.2 Beta (or newer) required. Adaptive refresh rates vary by display; check with your monitor manufacturer for specific capabilities. Only select AMD Radeon GPUs and A-Series APUs supported; see www.amd.com/freesync for full details. GD-67.
With AMD Eyefinity technology Quick Setup, in just one click, Radeon Settings will arrange and setup AMD Eyefinity technology for your multi-display gaming experience.
Your key computer information can be found and copied with ease.

<table>
<thead>
<tr>
<th>Radeon Software Version</th>
<th>Radeon Software Edition</th>
<th>GPU</th>
<th>CPU</th>
</tr>
</thead>
<tbody>
<tr>
<td>15.11</td>
<td>Crimson</td>
<td>Radeon™ R9 390X</td>
<td>AMD A10-5700</td>
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<table>
<thead>
<tr>
<th>Windows Version</th>
<th>System Memory</th>
<th>Memory Clock</th>
<th>GPU Clock</th>
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<tr>
<td>Windows® 10</td>
<td>32 GB</td>
<td>600 MHz</td>
<td>900 MHz</td>
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</table>
RADEON settings

New Brushed Metal Design
Faster Start up
New and more Intuitive Navigation
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New Overdrive
New Video, Display and AMD Eyefinity technology
RADEON SOFTWARE CRIMSON EDITION

Powerful new UI
The art of simplicity.

Remarkable Features.
Full-blown experience.

Powerful Performance
Game changing efficiency.

Seamless Stability.
Effortlessly.
RADEON SOFTWARE
CRIMSON
THE BEST IS YET TO COME
IN-DEPTH OVERVIEW: SYSTEM TRAY

System Tray Menu:
- Launch UI
- Switch Graphic Profiles
- Switch Video Profiles
- Remove System Tray

Graphic Settings Menu:
- Optimize Performance Profile (High Performance and Low Image Quality)
- Balanced Profile (Good Performance and Good Image Quality)
- Optimized Image Quality Profile (Low Performance and High Image Quality)

Video Profile Menu:
- Each video profile provides a unique optimized video experience
- Custom, opens up the custom video UI, allowing the user to customize their own profile
IN-DEPTH OVERVIEW: HOME SCREEN

Gaming: For all things gaming
Video: Change video profiles
Display: Configure display settings
Eyefinity: Setup AMD Eyefinity technology
System: System information

New Update/Updates: Alert the user of new drivers/software updates
Preferences: Configure UI Settings
Notifications: List of AMD notifications

Twitter: AMD Twitter page
Instagram: AMD Instagram page
Google+: AMD Google+ page
Facebook: AMD Facebook page
YouTube: Radeon Settings Playlist

Banner ads: 2 layered ad (logo & background)
Banner Text Unique URL
IN-DEPTH OVERVIEW: HOME SCREEN

UPDATES

Status:
Will indicate either: “Your software is up to date.” or “New driver available.”

Currently Installed:
Driver packaging version

Check for Updates:
Manually checks online for updates
(automatic update detection every 2 weeks)

Done: Closes Updates overlay
IN-DEPTH OVERVIEW: HOME SCREEN

PREFERENCES

Radeon Addition Settings:
A window for Legacy CCC features

System Tray: toggle-able and default customizable

Always on Top: toggle-able and default customizable

Banner Advertisements: toggle-able and default customizable

About: Shows Radeon Settings details

Report Issue: Opens Web UI to report issues

Restore Factory Defaults: Restores software to factory settings

Done: Closes Preferences overlay
IN-DEPTH OVERVIEW: HOME SCREEN

NOTIFICATIONS

Types of Notifications:

1. Error Notifications
2. General Notifications
3. Marketing Notifications

Clear All: Clears all notifications
Done: Closes Notifications overlay
IN-DEPTH OVERVIEW: GAMING

Main Menu: Accessible to the user on all screens.

Section details

List of games/applications

More: provides expanded section details

All Profiles: Reset, enable, and disable all profiles

Add: Scan or browse for games/non-game applications

Game/Application menu

Game/Application title

Game/Application Icon

List of games/applications

Global Settings

 AMD Settings

 BackToTheFuture

 BackToTheFuture

 BackToTheFuture

 Stonehearth

 Add:

 Scan or browse for games/non-game applications

Main Menu:

Accessible to the user on all screens.
IN-DEPTH OVERVIEW: GAMING

LIST OF GAMES

Automatic game detection: All games installed on a PC are populated onto the Radeon Settings games list

Game/Application: Clicking on a game/application will open up its unique profile

Global Settings: Default graphics settings and overdrive settings

Game/Application menu:
Games/Application that have yet to be customized list includes: Launch and Remove Profile
Games/Application that have been customized list includes: Launch, Disable/Enable, Reset Profile, and Remove Profile.
IN-DEPTH OVERVIEW: GAMING

GLOBAL SETTINGS

Global Graphics: Contains all AMD Catalyst™/Radeon Software configuration options plus new features like Shader Cache and Frame Rate Target Control.

Global Settings sets the default graphics configuration for the user’s games/applications

Global Overdrive: Contains all AMD Catalyst™/Radeon Software configuration options for GPU overclocking

Global OverDrive sets the default overclock configuration for the user’s games/applications
IN-DEPTH OVERVIEW: GAMING

GAME PROFILE

Profile Graphics:
Contains all AMD Catalyst™ configuration options plus new features like Shader Cache and Frame Rate Target Control.

Profile Overdrive:
The new profile overdrive allows the user to overclock per game.

Profile Properties:
Provides details on the game.

Profile Menu:
Launch the game/application or reset the profile to default settings.
**IN-DEPTH OVERVIEW: VIDEO**

- **More:** provides expanded section details
- **Demo off/on:** Toggles split-screen demo mode
- **Reset:** Resets video settings to their defaults

**Main Menu:** Accessible to the user on all screens.

**List of video profiles**

- Default
- Cinema Classic
- Enhanced
- Home Video
- Outdoor
- Sports
- Video
- Custom

**Section details**

**Custom Profile:** Custom video profile settings are visible when custom is selected.
IN-DEPTH OVERVIEW: DISPLAY

Section details

List of displays

Main Menu: Accessible to the user on all screens.

More: provides expanded section details

Additional Settings: Opens a window with extra display settings to configure

Identify All: Identifies each monitor with a timed overlay UI
IN-DEPTH OVERVIEW: AMD EYEFINITY TECHNOLOGY

SINGLE CLICK EYEFINITY

Section details
Quick Setup:
Single click Eyefinity creation
Advanced Setup:
Opens a window with extra Eyefinity creation options, for more advanced cases.

More: provides expanded section details

Main Menu: Accessible to the user on all screens.
Once Eyefinity is created, the user has the option to discard the Eyefinity display group created, re-arrange the display group (if it wasn’t created properly), or try advances setup if more advanced configuration is required.
IN-DEPTH OVERVIEW: SYSTEM

SYSTEM INFORMATION

Overview:
The most important information for the user in a single location.

Software:
Key Radeon Software information in a single location.

Hardware ( + Hardware name):
Key hardware information in a single location.
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