

# Release Notes

DRIVER VERSION: 15.33.18.3496

DATE: March 21, 2014

## SUMMARY:

This document provides information about Intel's Graphics Driver for Microsoft Windows\* 8.1, Microsoft Windows\* 8 and Microsoft Windows\* 7<sup>1</sup> operating systems. This driver supports 3rd and 4th Generation Intel® Core™ Processors with Intel® Iris™ and HD Graphics and select Pentium®/Celeron® Processors with Intel® HD Graphics.

We continuously strive to improve the quality of our products to better serve our users and appreciate [feedback](#) on any issues you discover and [suggestions](#) for future driver releases.

Note: <sup>1</sup> Microsoft Windows 7 operating system is not supported on Celeron® Processors J1750/J1800/J1850/J1900/N2805/N2806/N2807/N2810/N2815/N2820/N2830/N2910/N2920/N2930 with Intel® HD Graphics and Pentium® Processors J2850/J2900/N3510/N3520/N3530 with Intel® HD Graphics.

## SUPPORTED PRODUCTS:

### SOFTWARE

This driver supports 32-bit variants of Windows\* 8.1, Microsoft Windows\* 8 and Microsoft Windows\* 7 operating systems.

### HARDWARE

All platforms with the following configurations are supported:

| Intel® Graphics <sup>1</sup>                                                                                                                                              | DirectX* <sup>2</sup> | OpenGL* | OpenCL* | Intel® Quick Sync Video | Intel® Wireless Display | Intel® Insider™ | InTru™ 3D | Intel® Clear Video HD Technology |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------|---------|-------------------------|-------------------------|-----------------|-----------|----------------------------------|
| 4th Generation Intel® Core™ Processors with Intel® Iris™ Pro Graphics 5200                                                                                                | 11.1                  | 4.2     | 1.2     | Yes                     | Yes <sup>3,4</sup>      | Yes             | Yes       | Yes                              |
| 4th Generation Intel® Core™ Processors with Intel® Iris™ Graphics 5100                                                                                                    | 11.1                  | 4.2     | 1.2     | Yes                     | Yes <sup>3,4</sup>      | Yes             | Yes       | Yes                              |
| 4th Generation Intel® Core™ Processors with Intel® HD Graphics 5000/4600/4400/4200                                                                                        | 11.1                  | 4.2     | 1.2     | Yes                     | Yes <sup>3,4</sup>      | Yes             | Yes       | Yes                              |
| 3rd Generation Intel® Core™ Processors with Intel® HD Graphics 4000/2500                                                                                                  | 11.0                  | 4.0     | 1.2     | Yes                     | Yes <sup>3,4</sup>      | Yes             | Yes       | Yes                              |
| Intel® Pentium® Processor 1403 v2/1405 v2/ 2020M/2030M/2117U/2129Y/2127U/ A1018/G2010/G2020/G2020T/G2030/ G2030T/G2100T/G2120/G2120T/G2130/ G2140 with Intel® HD Graphics | 11.0                  | 4.0     | 1.2     | No                      | No                      | No              | No        | No                               |

|                                                                                                                                                               |      |     |     |                  |     |    |    |    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|-----|------------------|-----|----|----|----|
| Intel® Pentium® Processor 3558U/3561Y/<br>G3220/G3220T/G3320TE/G3420/G3420T/<br>G3430 with Intel® HD Graphics                                                 | 11.1 | 4.2 | 1.2 | Yes              | No  | No | No | No |
| Intel® Pentium® Processor 3550M/3556U/<br>3560Y with Intel® HD Graphics                                                                                       | 11.1 | 4.2 | 1.2 | No               | No  | No | No | No |
| Intel® Pentium® Processor<br>J2850/J2900/N3510/N3520/<br>N3530 with Intel® HD Graphics                                                                        | 11.0 | 4.0 | 1.2 | Yes <sup>5</sup> | Yes | No | No | No |
| Intel® Celeron® Processor 927UE/1000M/<br>1005M/1007U/1017U/1019Y/1020E/<br>1020M/1037U/1047UE/G1610/G1620/<br>G1620T/G1610T/G1630 with Intel® HD<br>Graphics | 11.0 | 4.0 | 1.2 | No               | No  | No | No | No |
| Intel® Celeron® Processor 2957U/2961Y/<br>2981U/G1820/G1820T/G1820TE/G1830<br>with Intel® HD Graphics                                                         | 11.1 | 4.2 | 1.2 | Yes              | No  | No | No | No |
| Intel® Celeron® Processor 2000E/2002E/<br>2950M/2955U/2980U/2955U with Intel®<br>HD Graphics                                                                  | 11.1 | 4.2 | 1.2 | No               | No  | No | No | No |
| Intel® Celeron® Processor J1750/<br>J1800/J1850/J1900/N2805/N2806/N2807/<br>N2810/N2815/N2820/<br>N2830/N2910/N2920/N2930 with Intel®<br>HD Graphics          | 11.0 | 4.0 | 1.2 | Yes <sup>5</sup> | Yes | No | No | No |

**Note:**

1. If you are uncertain which Intel processor is in your computer, Intel recommends using the [Intel Processor Identification Utility](#) or [Intel Driver Update Utility](#) to identify your Intel processor.
2. In the Intel® Iris™ and HD Graphics Control Panel (under Options > Options menu > Information Center), the 'Installed DirectX\* version' refers to the operating system's DirectX version. The Information Center's 'Supported DirectX\* Version' refers to the Intel Graphics Driver's supported DirectX version.
3. The Intel® Wireless Display software application is available only for Microsoft Windows 7 and Windows 8 operating systems.
4. Intel Wireless Display native Miracast\* support under Windows 8.1 is now supported through the operating system's Charms menu. For more information, see the [Miracast FAQ](#).
5. Intel® Quick Sync Video is supported on select SKUs including: Intel® Pentium® N3530 processor, Intel® Celeron® N2830 processor, Intel® Celeron® N2930 processor, Intel® Celeron® N2807 processor, Intel® Pentium® J2900 processor, Intel® Celeron® J1900 processor, and Intel® Celeron® J1800 processor.

**CONTENTS OF THE PACKAGE:**

- Intel® Iris™ and HD Graphics Driver
- Intel® Display Audio Driver
- Intel® Media SDK Runtime
- Intel® OpenCL\* Driver
- Intel® Graphics Control Panel

**NEW FEATURES :**

- Game playability and performance tuning for the latest TITANFALL\* and Thief\* Games

- Intel® Quick Sync Video now enabled on select Pentium and Celeron processors as called out in the 'HARDWARE' section above
- OpenCL is now supported on select Pentium and Celeron processors as called out in the 'HARDWARE' section above
- Quality improvements for Video conferencing and Video capturing usages on the system
- Custom display resolutions can now be added. To access this option:
  1. Right-click on an open area of the Windows desktop or right-click on the Intel Iris and HD Graphics Driver's icon in the Windows taskbar's System Tray (area with the clock)
  2. Select 'Graphics Options'
  3. Select 'Custom Resolutions'
- Driver optimized to reduce its memory footprint
- Optimizations for enhanced viewing of Ultra High Resolution images with JPEG extensions
- Quality improvements for OpenGL based applications
- Performance optimizations for OpenCL based applications
- Added OpenGL support:
  - EXT\_clip\_control extension
  - ARB\_vertex\_attrib\_binding extension
  - Increased the maximum number of texture image units to 32
  - gl\_ext\_shader\_integer\_mix

## ISSUES FIXED:

|                                                                                                                                                           |                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Resolved bad image seen when running Need for Speed* games                                                                                                | Windows* 8.1             |
| Resolved flickering textures in AION* game                                                                                                                | Windows* 8.1             |
| Sluggish* game no longer flickers                                                                                                                         | Windows* 8.1             |
| Resolved display corruption seen when watching YouTube* videos in Windows Internet Explorer*.                                                             | Windows* 8.1             |
| Resolved display corruption seen when playing mpg file in full screen in Windows Media Player*                                                            | Windows* 8.1             |
| Resolved Corel Video Studio X6* error seen when loading m2ts or m2t files for playback.                                                                   | Windows* 8.1             |
| Resolved issue where a message 'Windows Desktop Manager has stopped working' popped up sometime when playing a video file in Windows Media Player*        | Windows* 8.1             |
| Resolved issue where, after docking, nothing is seen on the external monitor                                                                              | Windows* 8.1             |
| Resolved issue where the built-in display's brightness increases after system is connected to AC power and monitor is turned off                          | Windows* 8.1             |
| After hot undocking from a docking station that has DisplayPort* and VGA displays connected, resolved issue where nothing is seen on the built-in display | Windows* 8.1             |
| Resolved issue where positions of Display 1 and Display 2 are not kept after changing their positions                                                     | Windows* 8, Windows* 8.1 |
| Resolved display corruption sometimes seen with high display resolutions                                                                                  | Windows* 7               |
| Resolved issue where user defined hot key display switching does not work sometimes                                                                       | Windows* 8.1             |

|                                                                                                                                                                                         |                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| Resolved issue where the driver's system tray icon disappears after changing the hotkey status                                                                                          | Windows* 8                           |
| Resolved issue where sometimes the user cannot switch to Clone mode while in Collage Display mode                                                                                       | Windows* 8.1                         |
| Fixed an issue where slight corruption was seen while dragging a window to the edge of the screen in Collage Display mode.                                                              | Windows* 8.1                         |
| Unigine Heaven* OpenGL test no longer stops on Celeron® Processors                                                                                                                      | Windows* 8                           |
| Fixed black screen issue on mobile systems found with older beta driver                                                                                                                 | Windows* 7, Windows* 8, Windows* 8.1 |
| Fixed the issue where a wirelessly connected display freezes when changing resolutions in dual display or extended configuration but resumes after changing display configuration again | Windows* 8.1                         |

## APPLICATIONS TO BE UPDATED:

It is recommended to upgrade the below list of applications to avoid any unexpected issues.

- 3DMark11\*: Upgrade to 1.0.3 or later
- Batman Arkham City\*: Upgrade to the latest patch
- Mafia 2\*: Upgrade to the latest patch
- Company of Heroes\*: Upgrade to 2.101 and update Opposing Fronts to 2.500 or Tales of Valor to 2.601
- HomeFront\*: Upgrade to 1.0.5 or later
- Unigine Heaven\*: Upgrade to 2.5 or later
- Battlefield 3\*: Upgrade to latest patch
- Thief\*: Upgrade to the latest patch 1.3 or later

## KNOWN ISSUES:

- Intel® Iris™ and HD Graphics Control Panel may report incorrect DirectX\* version. Please use the Hardware table above as a reference for supported APIs and features.
- Google Earth\* application: Display corruption may be seen when activating ground level view.
- Flickering might be seen while running Need for Speed Hot Pursuit 2\* on Microsoft Windows\* 8
- Corruptions might be seen while playing Borderlands 2\* game on 3rd Generation Intel® Core™ Processor
- With a three display configuration with video playing on the wirelessly connected display, the image might freeze in case the wirelessly connected display is repeatedly unplugged and plugged back
- In dual display configuration, when dragging the Intel® Graphics Control Panel from one display to another, display corruptions might be seen on the Graphics Control Panel on select Pentium®/Celeron® Processors with Intel® HD Graphics
- Wireless display connection might be lost while playing back video through Blu-Ray disk on a wirelessly connected display configured as extended desktop
- On a 3rd Generation Intel® Core™ Processor, a wirelessly connected display might freeze while upgrading the graphics device driver on the system with Windows\* 7
- The Intel® Display Refresh Rate Switching option does not show up in Intel® Graphics Control Panel on 3rd Generation Intel® Core™ Processor
- The graphics power plans do not get updated when any saved power plans are applied in the Intel® Graphics Control Panel
- Running some benchmarks in full-screen may not fit the full display's size

\*Other names and brands may be claimed as the property of others.