Release Notes

DRIVER VERSION: Intel® Graphics Driver PV 15.40.28.4501 32bit & 64bit

DATE: September 02, 2016

SUMMARY:

Whether you're a casual gamer, power user, or gamer, this driver is aimed to improve your overall experience. We've fixed many hangs, crashes, and graphics corruptions across a wide spectrum of games and applications. We're especially pleased to report that this driver also fixes some long standing and frequently reported graphics issues on Intel's Support Community, including a scaling issue with Windows 10®, and an error found when playing a particular game title. Please see below for additional details on fixed issues.

SUPPORTED PRODUCTS:

HARDWARE
All platforms with the following configurations are supported:

Intel® Graphics[1]	DirectX*[2]	OpenGL*	OpenCL*	Intel® Quick Sync Video	Intel® Wireless Display
6th Generation Intel® Core™ processors with Intel® HD Graphics 520/530	12	4.4	2.0	Yes	Yes
6th Generation Intel® Core™ processors with Intel® Iris™ Graphics 540/550	12	4.4	2.0	Yes	Yes
6th Generation Intel® Core™ processors with Intel® Iris™ Pro Graphics 580	12	4.4	2.0	Yes	Yes
Intel® Xeon® processor E3-1500M v5 family with Intel® HD Graphics P530	12	4.4	2.0	Yes	Yes
Intel® Xeon® processor E3-1500M v5 family with Intel® Iris Pro Graphics P580	12	4.4	2.0	Yes	Yes
Intel® Core™ M processors with Intel® HD Graphics 515	12	4.4	2.0	Yes	Yes
Pentium Processors with Intel® HD Graphics 510	12	4.4	1.2	Yes	Yes
5th Generation Intel® Core™ Processors with HD Graphics 5500	12	4.4	2.0	Yes	Yes
5th Generation Intel® Core™ Processors with HD Graphics 6000	12	4.4	2.0	Yes	Yes
5th Generation Intel® Core™ Processors with Iris™ Graphics 6100	12	4.4	2.0	Yes	Yes
5th Generation Intel® Core™ Processors with Iris™ Pro Graphics 6200	12	4.4	2.0	Yes	Yes
Intel® Core™ M with Intel® HD Graphics 5300	12	4.4	2.0	Yes	Yes

4th Generation Intel® Core™ Processors with Intel® Iris™ Pro Graphics 5200	12	4.3	1.2	Yes	Yes
4th Generation Intel® Core™ Processors with Intel® Iris™ Graphics 5100	12	4.3	1.2	Yes	Yes
4th Generation Intel® Core™ Processors with Intel® HD Graphics 5000/4600/4400/4200	12	4.3	1.2	Yes	Yes
Intel® Pentium® and Celeron® Processors with Intel® HD Graphics based on 4th and 5th Generation Intel® Core™	12	4.3	1.2	Yes	Yes
Pentium®, Celeron®, and Atom™ processors based on Braswell and CherryTrail.	12	4.3	2.0	Yes	Yes

SOFTWARE

On 6th Generation Intel Core and Intel Mobile Xeon processors and related Pentium/Celeron:
- Microsoft Windows 10® 64-bit
- Microsoft Windows 8.1* 64-bit
- Microsoft Windows 7* 64-bit, 32-bit

On 5th Generation Intel Core processors and related Pentium/Celeron:
- Microsoft Windows 10® 64-bit
- Microsoft Windows 8.1* 64-bit, 32-bit
- Microsoft Windows 7* 64-bit, 32-bit

On 4th Generation Intel Core processors and related Pentium/Celeron:
- Microsoft Windows 10® 64-bit, 32-bit

On Braswell/CherryTrail family processors:
- Microsoft Windows 10® 64-bit
- Microsoft Windows 8.1* 64-bit
- Microsoft Windows 7* 64-bit

Note:
1. If you are uncertain of 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. The DirectX 12 API is supported but some optional features may not be available. Applications using the DirectX 12 API should query for feature support before using specific hardware features. Please note that DirectX12 is only supported on Windows 10 and DirectX11.3 support is also available on supported Microsoft* operating systems.

NEW FEATURES:

Features Added in Baseline 15.40		
Description	**Affected OS(s)**	**Affected Project(s)**
6th Gen camera pipe Windows* 7 support	Windows* 7	6th Gen Intel® Core™ processor family
3 DVI/HDMI displays support on 6th Gen	Windows* 7 Windows* 7 – 64 Windows* 8.1 – 64	6th Gen Intel® Core™ processor family
LACE: Local Adaptive Contrast Enhancement	Windows* 8.1 – 64 Windows* 10 – 64	6th Gen Intel® Core™ processor family
Unify color for different panels	Windows* 8 Windows* 8 – 64 Windows* 8.1 Windows* 8.1 – 64 Windows* 10 – 64	5th Gen Intel® Core™ processor family 6th Gen Intel® Core™ processor family
Support 5K3K Panels with content protection for both Overly and non-Overlay 15.36 drivers for 4th, 5th, 6th Gen and beyond	Windows* 7 Windows* 7 – 64 Windows* 8 Windows* 8 – 64 Windows* 8.1 Windows* 8.1 – 64	6th Gen Intel® Core™ processor family
User to select which outputs to make active when more display connections are available than can be driven by Intel graphics	Windows* 7 Windows* 7 – 64 Windows* 8 Windows* 8 – 64, Windows* 8.1 Windows* 8.1 – 64 Windows* 10 – 64	6th Gen Intel® Core™ processor family
x2 DP mode support in display driver for type-C support	Windows* 7 Windows* 7 – 64 Windows* 8 Windows* 8 – 64 Windows* 8.1 Windows* 8.1 – 64 Windows* 10 – 64	6th Gen Intel® Core™ processor family

KNOWN ISSUES:

Known Issues in Build 4501		
Description	**Affected OS(s)**	**Affected Project(s)**
Power Director 14 Error Message when Rendering the project in "Produce" mode	Windows* 8.1 – 64 Windows* 10 64 bit	5th Gen Intel® Core™ processor family 6th Gen Intel® Core™ processor family
Sandra OCL Benchmark - GP Image Processing GPU+CPU stay in 60% and still running benchmark without finish	Windows* 7 - 64 Windows* 8.1 – 64 Windows* 10 - 64	5th Gen Intel® Core™ processor family 4th Generation Intel® Core™ processor family 6th Gen Intel® Core™ processor family
Blankout observed on eDP panel while launching overlay in three display configuration	Windows* 7 – 64 Windows* 10 - 64	6th Gen Intel® Core™ processor family
Overlay is closing when resume from sleep	Windows* 7	4th Generation Intel® Core™ processor family

S3\S4 in Win* 7 OS	Windows* 7 - 64	6th Gen Intel® Core™ processor family
Multiwinia- Survival of the Flattest - Corruption is seen on main menu	Windows* 7 – 64 Windows* 10 - 64	6th Gen Intel® Core™ processor family
TDR and corruption seen when selecting x8 anti-aliasing in 3DsMax2015	Windows* 8.1 – 64 Windows* 10 - 64	5th Gen Intel® Core™ processor family 4th Generation Intel® Core™ processor family 6th Gen Intel® Core™ processor family
Blur and flicker seen while playing Doom3 BFG	Windows* 8.1 – 64 Windows* 10 - 64	5th Gen Intel® Core™ processor family 6th Gen Intel® Core™ processor family
Corruption is observed after press 'display it' button on Direct X true cove app	Windows* 8.1 - 64	5th Gen Intel® Core™ processor family
Tessmark benchmark does not perform well	Windows* 8.1 – 64 Windows* 10 - 64	6th Gen Intel® Core™ processor family
Ashes of Singularity game has some	Windows* 10 - 64	6th Gen Intel® Core™ processor family
D3D11 - Corruption During the switching of Full screen-windowed or vice versa mode in Detail Tesselation11 sample	Windows* 10 - 64	6th Gen Intel® Core™ processor family
Lighting effects are missing from the Division game	Windows* 10 - 64	6th Gen Intel® Core™ processor family
TDR in story mode seen when running Naruto Shippuden Ultimate Ninja Storm 4	Windows* 10 - 64	6th Gen Intel® Core™ processor family
corruption seen in Trackmania Turbo	Windows* 10 - 64	6th Gen Intel® Core™ processor family
TDR and corruption seen when selecting x8 anti-aliasing in 3DsMax2015	Windows* 10 – 64 Windows* 8.1 - 64	6th Gen Intel® Core™ processor family 5th Gen Intel® Core™ processor family
Blur and flicker seen while playing Doom3 BFG	Windows* 10 – 64 Windows* 8.1 – 64 Windows* 7 - 64	6th Gen Intel® Core™ processor family
Tessmark benchmark does not perform well	Windows* 10 – 64 Windows* 8.1 - 64	6th Gen Intel® Core™ processor family
Graphics processor option is disabled when running Photoshop	Windows* 10 – 64	6th Gen Intel® Core™ processor family 5th Gen Intel® Core™ processor family
Wrong output with Adobe Illustrator CC 2015	Windows* 10 – 64	6th Gen Intel® Core™ processor family 5th Gen Intel® Core™ processor family
Cursor orientation is wrong after it's moved to edge of the panel in multidisplay configuration and if displays are set in different independent rotations	Windows* 8.1 – 64	6th Gen Intel® Core™ processor family
TDR or game crash may occur when playing Rainbow Six Siege	Windows* 10 – 64	6th Gen Intel® Core™ processor family
Display corruption is seen when disabling graphics driver after resuming from S4	Windows* 10 – 64	6th Gen Intel® Core™ processor family
Texture corruption may be seen when playing Doom 2016	Windows* 7 – 64	6th Gen Intel® Core™ processor family

ISSUES RESOLVED

Description	Affected OS(s)	Affected Project(s)
DX12 performance enhancement	Windows* 10 – 64	6th Gen Intel® Core™ processor family
Root Cause/Resolution Implemented optimizations in the driver to improve the DX12 performance of some benchmarks		
Color blocks seen when playing video with DPST enabled	Windows* 10 – 64	6th Gen Intel® Core™ processor family
Root Cause/Resolution: Enabled Dithering for eDP even if panel bpc is same as frame bpc to resolve this issue		
TDR seen when running 3D-CAD application, "FJICAD/SX"	Windows* 10 – 64	6th Gen Intel® Core™ processor family
Root Cause/Resolution: Command stack at a function caused the TDR; fix is implemented in the OGL component to resolve this.		
Brightness dims when pressing hot key to restore default CUI values although brightness level shows at 100%	Windows* 10 – 64	6th Gen Intel® Core™ processor family
Root Cause/Resolution OS and driver gamma values were not synchronized causing this issue; fix was implemented to sync the values		
Display will not switch back to LCD-only when hot unplug HDMI cable from Type C to HDMI dongle	Windows* 10 – 64	6th Gen Intel® Core™ processor family
Root Cause/Resolution Hot plug detect was not getting sent and read properly causing the driver to assume panel was still connected. Fix added to correct this.		

More on Intel® Core™ processors

For more information on the Intel® Core™ processor family, Intel® Xeon® processor E3 family, and 6th Generation Intel Core processors, please visit:

http://www.intel.com/content/www/us/en/processors/core/core-processor-family.html

http://www.intel.com/content/www/us/en/processors/xeon/xeon-processor-e3-family.html

http://www.intel.com/graphics

http://www.intel.com/content/www/us/en/processors/core/6th-gen-core-family-mobile-brief.html

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. If you have an issue to submit, ***please follow the guidance found here*** Default level information for reporting Graphics issues.

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