DRIVER VERSION: 25.20.100.6519

DATE: January 17th, 2019

HIGHLIGHTS:

- New Intel Audio Driver (10.26.00.05)
- Windows* ML Optimization
- Better support for Windows* 10 Ambient light sensor framework
- Power and performance improvements

Are you a survival of the fittest? If yes, join this unforgiving, authentic, open-world sandbox online game where each one of 60 players on a server follows a single goal i.e., to continue as long as you can, by all means necessary in the new DayZ* survival game.

Be a part of GRIS* a wonderful, stunning puzzle-platformer with a unique art-style, a phenomenal score and a powerful, yet subtle message. Be there to experience a tale of vengeance or redemption, in an action Ancient China game, bringing players addictive experiences with its unique Chinese traditional art-style and sound design in the Bladed Fury*. If nothing else matters, be the only survivor of a nuclear holocaust, where your mission is to explore the wild and wondrous world of the Soviet Wasteland, earn your place under the sun and to investigate a shadowy conspiracy, aimed at destroying all that is left of life on Earth in ATOM RPG: Post-apocalyptic indie game* on Intel® UHD Graphics 620 or better.

Enhanced support for Windows* 10 Ambient light sensor framework requires nits (light luminance/brightness unit) level driver interface support. This new interface allows much more precise brightness control by the operating system (when desired) to adjust panel brightness based on actual ambient light luminance nits instead of applying mere percentage-based values. More details can be found here.

Be sure to check out gameplay.intel.com, where you'll find recommended game settings for many more of your favorite PC games.

Get a front row pass to gaming deals, contests, betas, and more with Intel® Software Gaming Access.

Install the Intel® Driver & Support Assistant (previously called Intel® Driver Update Utility), which now automatically checks for drivers on a regular basis and can provide notifications when new drivers are available.
This document provides information about Intel's Graphics Driver for:

- 9th Generation Intel® Core processors, related Pentium®/Celeron® Processors, and Intel® Xeon processors, with Intel® UHD Graphics 630.
- Intel® Xeon® processor E3-1500M v5 family with Intel® HD Graphics P530
- Pentium®/Celeron® Processors with Intel® HD Graphics 500, 505 and Intel® UHD Graphics 600, 605
- Pentium®/Celeron® Intel UHD 600, 605

CONTENTS OF THE PACKAGE:

- Intel® Graphics Driver
- Intel® Display Audio Driver (10.26.00.05)
- Intel® Media SDK Runtime
- Intel® OpenCL® Driver

Operating System Support

On 9th Generation Intel® Core processors, 8th Generation Intel® Core processors, 7th Generation Intel® Core processors, 6th Generation Intel® Core and Intel® Mobile Xeon processors and related Pentium/Celeron:

- Microsoft Windows® 10-64 - Fall Creators Update (1709)
- Microsoft Windows® 10-64 - April 2018 Update (1803)
- Microsoft Windows® 10-64 - October 2018 Update (1809)

Note: Intel Graphics Control Panel is not supported in Windows® 10 S.

PERFORMANCE IMPROVEMENTS:

| Improved shader cache performance of DirectML metacommands for Microsoft WinML- based applications on 7th Generation Intel® Core processor and higher. |
| Performance improvements and optimizations for F1 2018® (DX 12*) on 6th Generation Intel® Core processors or higher. |
| Functional and performance improvements in Vulkan driver. |

NEW FEATURES:

| Enhanced support for Windows® 10 Ambient light sensor framework. |
KEY ISSUES FIXED:

Intermittent crashes or hangs may occur in Battlefield V* (DX12*).

Minor graphics anomalies may be observed in Farming Simulator 2019*.

Optimization checkbox for gaming tuning in the Graphics Control Panel does not refresh after restoring settings in some systems.

Video profile settings in Intel® Graphics Control Panel may not apply after white balance or color balance.

Power consumption may be higher after disconnecting HDMI 2.0 display.

4K resolution may be lost when switched between HD and 4K monitors during sleep mode.

Brightness compensation may be applied when in SDR (Standard Resolution) mode.

Performance may be slightly lower on certain graphics workloads in full screen after resuming from sleep.

SUPPORTED PRODUCTS:

HARDWARE

All platforms with the following configurations are supported:

<table>
<thead>
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<th>Intel® Graphics</th>
<th>DirectX*²</th>
<th>OpenGL*</th>
<th>OpenCL*</th>
<th>Vulkan*</th>
<th>Quick Sync Video</th>
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<tbody>
<tr>
<td>9th Generation Intel® Core™ processors with Intel® UHD Graphics 630</td>
<td>12</td>
<td>4.5</td>
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<td>Shader Version</td>
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Note:
1. If you are uncertain of which Intel® processor is in your computer, Intel® recommends using the Intel Processor Identification Utility or Install the Intel® Driver & Support Assistant (previously called Intel® Driver Update Utility) to identify your Intel® processor.

2. In the Intel® Iris®, UHD, 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.

**KNOWN ISSUES**
- Intermittent crashes or hangs may occur in Cinema4D® application, and some games.
- Minor graphics anomalies may be observed in Battlefield V® (DX11*), and other games.

**DEVELOPER HIGHLIGHTS**
For further information on the below extensions, click [here](#).

- GL_ARB_texture_filter_anisotropic
- GL_ARB_pipeline_statistics_query
- GL_ARB_transform_feedback_overflow_query
- GL_ARB_gl_spirv
More on Intel® Core™ processors
For more information on the Intel® Core™ processor family, Intel® Xeon® processor E3 family, and 9th Generation Intel® Core processors, please visit:

Intel® 9th Generation Core Processors
http://www.intel.com/graphics

Work and play in high resolution with Intel® UHD Graphics, Iris® Graphics, Iris® Plus Graphics, and Iris® Pro Graphics. Watch captivating 4K Ultra HD (UHD) video on up to three screens, edit photos and videos like a pro, and immerse yourself in vividly rendered, seamless 3D gameplay - all with the added power boost of an Intel® Core™ processor. Intel® Graphics bring stunning visuals to thinner and lighter portable devices, like laptops, 2 in 1s, and desktop computers.

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.