



Intel® RealSense™ Depth Camera Manager (DCM) 2.2

Release Notes

October 2020

Intel products described herein. You agree to grant Intel a non-exclusive, royalty-free license to any patent claim thereafter drafted which includes subject matter disclosed herein.

No license (express or implied, by estoppel or otherwise) to any intellectual property rights is granted by this document.

Intel technologies' features and benefits depend on system configuration and may require enabled hardware, software or service activation. Performance varies depending on system configuration. No computer system can be absolutely secure. Check with your system manufacturer or retailer or learn more at intel.com.

Intel technologies may require enabled hardware, specific software, or services activation. Check with your system manufacturer or retailer.

The products described may contain design defects or errors known as errata which may cause the product to deviate from published specifications. Current characterized errata are available on request.

Intel disclaims all express and implied warranties, including without limitation, the implied warranties of merchantability, fitness for a particular purpose, and non-infringement, as well as any warranty arising from course of performance, course of dealing, or usage in trade.

All information provided here is subject to change without notice. Contact your Intel representative to obtain the latest Intel product specifications and roadmaps.

Copies of documents which have an order number and are referenced in this document may be obtained by calling 1-800-548-4725 or visit www.intel.com/design/literature.htm.

Intel and the Intel logo, Intel RealSense, Core trademarks of Intel Corporation in the U.S. and/or other countries.

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

© 2020 Intel Corporation. All rights reserved.

Contents

1	Preface.....	5
	1.1 Components.....	5
	1.2 Hardware Requirements	5
	1.3 Installation.....	5
2	Summary Table of Changes	6

Table

Table 2-1. Resolved/Known Issues Summary Table.....	6
Table 2-2. New Features in This Release.....	7

Revision History

Description	Revision Date
DCM 2.2.98.5272	September 2020

§§

1 Preface

This document is an update to the release of the Intel® RealSense™ Depth Camera Manager.

This document may also contain information that was not previously published.

The Intel® RealSense™ Depth Camera Manager (DCM) system is intended to expose interface to streaming video from a depth camera, for both color and depth.

1.1 Components

Component	Details
Intel® RealSense™ Depth Camera Manager Service	The camera service is a Microsoft* Windows* based service that runs on the client machine. The camera service allows multiple Intel RealSense SDK applications and a single non SDK application to access data from the camera simultaneously, without blocking each other.
Intel® RealSense™ 3D Camera Virtual Driver	The camera virtual driver is a Microsoft Windows based AVStream driver that runs on the client machine. The camera virtual driver allows non-SDK application to access camera streams as if they are connecting directly to the camera and without blocking other SDK applications.

1.2 Hardware Requirements

- 6th generation Intel® Core™ processor
- 150 MB free hard disk space, 4GB RAM
- Intel® RealSense™ R200 3D Camera
- A free USB 3 port for the Intel® RealSense™ 3D Camera, or a dedicated connection for integrated camera.

IMPORTANT NOTE: To support the bandwidth needed by the camera, a USB3 interface is required. This interface must be connected to a dedicated USB3 port within the client system (do not use a hub).

1.3 Installation

- Remove Intel® RealSense™ Depth Camera Manager from Programs and Features if it is present on the system and reboot the system
- Option #1 – Install via .EXE installer
- Option #2 – Install via .INF installer



2 Summary Table of Changes

Table 2-1. Resolved/Known Issues Summary Table

Number	Status	Description
N/A	Fixed in DCM 2.1 HF3	Resolved an issue where the R200 camera was mistakenly identified by the Windows OS as a supported camera to be used with Windows Hello
N/A	Fixed in DCM 2.1 HF3	On OEM systems where the Intel® RealSense™ camera (R200) RGB endpoint is exposed, using legacy DirectShow applications can block the camera from being used by RealSense SDK applications
N/A	Fixed in DCM 2.1 HF3	In stress tests of multiple camera start and stop scenarios a memory leak may be observed
N/A	Fixed in DCM 2.1 HF3	The following resolution combination will fail to stream: rectified RGB 320x240x30 or RGB 320x240x15 color and 320x240x90 depth
N/A	Fixed in DCM 2.1 HF3	The stream is aborted after large number of Sleep/Hibernate cycles
N/A	Fixed in DCM 2.1 HF3	When using Intel® RealSense™ camera (R200) RGB endpoint directly & simultaneously trying to stream over SDK Application, any further attempt to stream over SDK Application will fail even after closing the application that is using the camera directly
N/A	Fixed in DCM 2.1 HF3	Yellow bang on DPTF with DCM2.1HF1
N/A	Fixed in DCM 2.1 HF3	Change the Platform camera image time stamps from QPC to UTC, allowing platform camera enabled devices to synchronize frames with other HW devices
N/A	Fixed in DCM 2.1 HF3	Added support for Windows 10 anniversary update (Redstone 1)
N/A	Fixed in DCM 2.1 HF3	Fixing potential error when querying temperature using DPTF occasionally returning 0
N/A	Fixed in DCM 2.1 HF3	Uninstalling driver from Device Manager doesn't remove DCM from Programs and Features
N/A	Fixed in DCM 2.1 HF3	Added some installer security improvements
N/A	Known Limitation	When a number (higher than max number of supported streams) of applications are using the camera simultaneously and the camera is stopped and started in random across these applications, the service may crash Service is restarted automatically.
N/A	Known Limitation	Frame Provider doesn't return correct error when setting property with out of range value Check the property info range before setting it's value
N/A	Known Limitation	All color+depth combinations are exposed by SDK (without filtering the unsupported combinations) over the frame provider Iterate over all combinations until the profile is working
N/A	Known Limitation	DCM service may crash when camera is disconnected while being used by the application Service is restarted automatically
N/A	Known Limitation	Available profiles are not updated

Summary Table of Changes

Number	Status	Description
		Stop the other stream before start streaming
N/A	Known Limitation	NUI application is not preempted while a SDK application starts streaming with a profile that does not have a matching depth profile Restart NUI application
N/A	Known Limitation	Low FPS with multi SDK applications If an application is not working properly, leave only the required application open.
N/A	Known Limitation	Stream is not working after disable from device manager Enable the device from the device manager and restart the service
N/A	Known Limitation	Service fails to restart when device is disabled from device manager Enable the device from the device manger and restart the service
N/A	Known Limitation	After Init\ Close of another stream, FPS drops to ~7 for a second Wait a few seconds for FPS to stabilize
N/A	Known Limitation	ResetProperties() doesn't reset R200 properties Manually call the needed API to reset individual APIs
N/A	Known Limitation	Two adaptive applications which try to stream profiles that cannot coexist fail Stop the second adaptive stream
N/A	Known Limitation	MirrorMode does not work for color on platform camera
N/A	Known Limitation	On OEM systems where the Intel® RealSense camera (R200) RGB endpoint is exposed, using legacy DirectShow applications can block the camera from being used by RealSense SDK applications Close the legacy application, which is using the camera before opening the SDK application.
N/A	Known Limitation	In case of system shut down in the middle of DCM or INF installation (power off, user action, etc.), system may stay in inconsistent installation state. For example, Intel driver for R200 L/R node is installed but there is no R200 DCM record in Programs & Features. Remove the driver for R200 L/R node manually in Device Manager by right-clicking R200 L/R node and selecting "Uninstall". After the driver is uninstalled, right-click on R200 L/R node again, select "Update Driver Software..." and click "Search automatically or updated driver software". Wait until driver gets installed again.

Table 2-2. New Features in This Release

Number	Feature
N/A	Installer will block downgrade to a lower or equal DCM version

§§