



Intel® RealSense™ Touchless Control Software

Specification Update

Revision 1.1

April 2021



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Revision History

Revision Number	Description	Revision Date
1.0	Initial Release	March 2021
1.1	Add TCS auto start options	April 2021

1 Preface

This document is an update to the specification contained in the [Affected Documents](#) table below. This document is a compilation of software and documentation errata, specification clarifications and changes. It is intended for software developers and system integrators.

Information types defined in Nomenclature are consolidated into the specification updates and are no longer published in other documents.

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

1.1 Affected Documents

Document Title	Location
Intel® RealSense™ Touchless Control Software User Guide	https://dev.intelrealsense.com/docs/intel-realsense-touchless-control-software

1.2 Nomenclature

Errata are design defects or errors. These may cause behavior to deviate from published specifications. Hardware and software designed to be used with any given stepping must assume that all errata documented for that stepping are present on all devices.

Specification Changes are modifications to the current published specifications. These changes will be incorporated in any new release of the specifications.

Specification Clarifications describe a specification in greater detail or further highlight a specification’s impact to a complex design situation. These clarifications will be incorporated in any new release of the specification.

Documentation Changes include typos, errors, or omissions from the current published specifications. These will be incorporated in any new release of the specification.

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2 Summary Table of Changes

The following tables indicate the errata, specification changes, specification clarifications, or documentation changes which apply to the Product Name product. Intel may fix some of the errata in a future stepping of the component and account for the other outstanding issues through documentation or specification changes as noted.

2.1 Codes Used in Summary Tables

Status

Doc:	Document change or update will be implemented
Open:	In engineering assessment
Plan Fix:	This erratum may be fixed in a future release of the product
Fixed:	This erratum has been previously fixed
No Fix:	There are no plans to fix this erratum

- Please refer to <https://dev.intelrealsense.com/docs/firmware-releases> for open Errata based on the firmware version on the D435 camera.

Table 2-1. Errata Summary Table

Number	Status	Errata
DSO-15775	Open	Very slim and dark objects, such as black pen, do not work well with TCS
DSO-16671	Open	Strong light directly facing camera at close distance reduces performance

Table 2-2. Specification Changes

Number	Specification Changes
	Windows 10 is the only operating system supported in this release. More OS will be supported in the future.
	TCS works when person directly in front of the monitor. It does not support standing behind a glass.

3 Errata

3.1 Open

DSO-15775	Very slim and dark objects, such as black pen, do not work well with TCS
Problem:	Very slim and dark objects, such as black pen, do not work well with TCS
Implication:	Click using these objects will not be reliably detected
Workaround:	Use finger or thicker and lighter objects
Status:	Refer to <i>Summary Table of Changes</i>

DSO-16671	Strong light directly facing camera at close distance reduces performance
Problem:	Lights below camera directly facing the camera negatively impact click performance in impacted area
Implication:	Click performance reduced in case lights directly facing the camera at close distance
Workaround:	Avoid lights directly facing the camera
Status:	Refer to <i>Summary Table of Changes</i>

3.2 Fixed

DSO-15960	No option to start TCS automatically after Windows restarts
Problem:	No method to start TCS service automatically after Windows restarts. Manual start required.
Solution:	Added new options in settings to allow TCS to start automatically after Windows restarts.