RTX64 Vision SDK

INSTALL GUIDE

IntervalZero

RTX64

RTX64 Vision SDK Install Guide   IZ-DOC-X64-0264-R1

IntervalZero

400 Fifth Avenue   www.intervalzero.com

Fourth Floor

Waltham, MA 02451

Phone: 781-996-4481

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Requirements

This chapter describes system requirements for RTX64 4.1 Vision SDK Software Development Kit (SDK).

Software Requirements

This section lists software requirements for RTX64 4.1 Vision.

Operating System Requirements

The RTX64 4.1 Vision SDK is supported on any 64-bit operating system supported by the RTX64 4.x SDK.

NOTE: The RTX64 4.1 Vision SDK cannot be installed on a 32-bit operating system. Attempts to do so will result in an error.

RTX64 SDK Requirements

The RTX64 Vision SDK requires the RTX64 4.1 SDK for development.

Development Requirements

Microsoft Visual Studio Requirements

The RTX64 4.1 Vision SDK requires that you have one of the following versions of Microsoft Visual Studio installed if you wish to build or debug RTX64 programs with the Visual Studio IDE:

- **Visual Studio 2019** (Enterprise, Professional, and Community editions supported)

- **Visual Studio 2017** version 15.9 (Enterprise, Professional, and Community editions supported)

- **Visual Studio 2015** with Update 3 (Ultimate, Premium, Pro, and Community editions supported)

  Visual Studio 2015 has been deprecated and will be removed from the next major release.

See the *RTX64 Operating System and Visual Studio Compatibility Matrix* for a detailed listing of Visual Studio support for each RTX64 version.

https://www.intervalzero.com/technical-support/guides-and-minitutorials/

CMake

CMake is required if you plan to build OpenCV applications. You can download the latest release from https://cmake.org/

Supported Cameras

See the *RTX64 Vision Supported Cameras* document for a complete list.

Tested OpenCV Modules

RTX64 4.1 Vision SDK has been tested with these OpenCV 3.4.6 modules:

- Core

- imgproc

- videoio

- objdetect

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Installation

Before You Begin

Before you begin the installation, do the following:

- Verify that your configuration meets the requirements described earlier in this document.

- Install Microsoft Visual Studio (see Software Requirements for supported versions). This is required if you plan to use supported features.

  IMPORTANT!

  A *Typical* installation of Visual Studio 2019, 2017, or 2015 does not include the Visual C++ programming language required by the RTX64 project wizard. If the Visual C++ feature is not installed, the RTX64 project wizard fails with an exception. You can add the Visual C++ feature to Visual Studio 2019/2017/2015 via Programs and Features in the Windows Control Panel.

- Install RTX64 4.1 SDK

- Exit all Windows programs, including any open instances of Visual Studio.

Installation Instructions

TO INSTALL RTX64 4.1 VISION SDK:

1. Place the zip file `RTX64_4.1_Vision_SDK.zip` in a location of your choice.

2. Extract all files to a directory of your choice.

3. Run the file `RTX64_4.1_Vision_SDK_Setup.exe` and follow the prompts to complete the installation.

4. Click **Finish** in the installation Completed screen.

Product Activation

The RTX64 4.1 Vision SDK requires an activated version of RTX64 4.1 (or later) SDK on the same system.

NOTE: Licenses for RTX64 3.7 will not work with RTX64 4.1 Vision. You must purchase a new license to activate RTX64 4.1 Vision.

Uninstalling

Follow the steps below to uninstall the RTX64 4.1 Vision SDK from your machine.

STEPS:

1. Close Microsoft Visual Studio if it is open.

2. Navigate to the **Windows Control Panel**.

3. Under *Programs*, click **Uninstall a Program**.

4. Select the **IntervalZero RTX64 4.1 Vision SDK** program and click **Uninstall**.

5. Click **Yes** to confirm.

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Installing RTX64 4.1 Vision SDK from the Command Line

The silent installer provides the ability to install the RTX64 4.1 Vision SDK from the command line. This makes it possible to install the RTX64 4.1 Vision SDK within another product installation. Take note of the following information before you begin.

- **Administrator privileges are required** — Installation must be done from an account that has administrator privileges. This can be done in one of several ways:

Before You Begin

Before you begin the installation, do the following:

- Verify that your configuration meets the requirements described earlier in this document.

- Install Microsoft Visual Studio (see Software Requirements for supported versions). This is required if you plan to use supported features.

  IMPORTANT!

  A *Typical* installation of Visual Studio 2019, 2017, or 2015 does not include the Visual C++ programming language required by the RTX64 project wizard. If the Visual C++ feature is not installed, the RTX64 project wizard fails with an exception. You can add the Visual C++ feature to Visual Studio 2019/2017/2015 via Programs and Features in the Windows Control Panel.

- Install RTX64 4.1 SDK

- Exit all Windows programs, including any open instances of Visual Studio.

Installing RTX64 Vision Silently

You can install the RTX64 Vision SDK silently using a response file. The response file contains information on the data and system customizations selected by the user at run time.

IntervalZero-Provided Response File

IntervalZero provides a default response file for silent installation of the RTX64 Vision SDK, available from the ResponseFiles folder.

- `RTX64_4.1_Vision_SDK_Install_Response_File.iss` – installs RTX64 4.1 Vision SDK product to the default location and includes all features.

Creating a Custom Response File

Follow these instructions to create a new response file called `Setup.iss`. This file is similar to an INI file.

TO CREATE A NEW RESPONSE FILE:

Run this command:

```
RTX64_4.1_Vision_SDK_Setup.exe /r
```

This launches the RTX64 Vision SDK installer, records the selections and customizations you make, and saves the data to a custom .iss file called `Setup.iss` in the system's Windows folder.

TO SPECIFY A NEW NAME AND LOCATION:

To specify an alternative response file name and location, use the */f1* option.

For example, to create a response file named `RTX64VisionRuntime.iss` in the `C:\temp` directory, you would run:

```
RTX64_4.1_Vision_SDK_Setup.exe /r /f1"C:\temp\RTX64VisionSDK.iss"
```

TO CUSTOMIZE FEATURES:

The sections of a response file must be ordered as follows:

1. Dialog Sequence Section

2. Dialog Data Sections (one per dialog)

Data entries consist of <name=value> pairs, as in the following example:

```
Dlg0={35FFCE40-6B78-422A-8012-85C8B466D941}-SdWelcome-0
```

For more information on manually creating a response file, visit
https://helpnet.flexerasoftware.com/installshield22helplib/helplibrary/CreatetheResponseFile.htm

Installing with a Response File

TO SILENTLY INSTALL WITH THE INTERVALZERO-PROVIDED DEFAULT RESPONSE FILE:

Run `RTX64_4.1_Vision_SDK_Setup.exe /s /f1"<path to the ResponseFiles folder>\RTX64_4.1_Vision_SDK_Install_Response_File.iss"`

TO SILENTLY INSTALL WITH A CUSTOM RESPONSE FILE:

Run `RTX64_4.1_Vision_SDK_Setup.exe /s /f1"<path to your custom response file>"`

For example:

```
RTX64_4.1_Vision_SDK_Setup.exe /s /f1"C:\temp\RTX64VisionSDK.iss"
```

NOTE: The InstallShield icon appears on the system Task Bar during silent installation.

Log Files

When running an RTX64 installation in silent mode (using the */s* option), the log file `Setup.log` is created in the same directory as the response file. To specify an alternative log file location and/or file name, use the */f2* option.

For example:

```
RTX64_4.1_Vision_SDK_Setup.exe /s /f2"C:\Setup.log"
```

Uninstalling Using the Command Line

You can uninstall the RTX64 Vision SDK silently using a response file. The response file contains information on the data and system customizations selected by the user at run time.

IntervalZero-Provided Response File

IntervalZero provides a default response file for silent uninstall of the RTX64 Vision SDK, available from the ResponseFiles folder.

- `RTX64_4.1_Vision_SDK_Uninstall_Response_File.iss`

Uninstalling with a Response File

TO SILENTLY UNINSTALL WITH THE INTERVALZERO-PROVIDED DEFAULT RESPONSE FILE:

Run `RTX64_4.1_Vision_SDK_Setup.exe /s"<path to the ResponseFiles folder>\RTX64_4.1_Vision_SDK_Uninstall_Response_File.iss"`

TO SILENTLY UNINSTALL WITH A CUSTOM RESPONSE FILE:

Run `RTX64_4.1_Vision_SDK_Setup.exe /s /f1"<path to your custom response file>"`

For example:

```
RTX64_4.1_Vision_SDK_Setup.exe /s /f1"C:\temp\RTX64SDK.iss"
```

NOTE: The InstallShield icon appears on the system Task Bar during silent installation.

The same system configuration changes will result when performing a silent install as would occur when using the Windows Add/Remove program utility. For more information, see Uninstalling.

NOTE: Silent uninstall of RTX64 results in an automatic reboot of the system. To install silently without forcing a reboot of the system, use the `/norestart` command.

Getting Support

IntervalZero offers a number of support options for RTX64 Vision users, including technical support and the IntervalZero Website.

Third-Party Support

If you are a customer who purchased an IntervalZero product through a third-party reseller, contact the reseller for support.

Contacting Technical Support by Phone

Location	Number	Hours
United States	1-781-996-4481 At the prompt, press 3 for Support.	Monday - Friday, 8:30 a.m. – 5:30 p.m. US Eastern Time (GMT-500), excluding holidays.
R.O.C. Taiwan	+ 886-2-2556-8117	Monday - Friday, 9:00 a.m. – 5:00 p.m. Taipei Standard Time (GMT+8), excluding holidays.

Before Calling Technical Support

Please have the following information ready before calling IntervalZero Technical Support:

Your Support ID

Customers who purchase direct support receive an e-mail address and password for use when accessing the IntervalZero support web site. Please check to make sure you have a valid maintenance contract.

IntervalZero Website

The IntervalZero Customer Support Web page is located at:

http://www.intervalzero.com/technical-support/

The IntervalZero support web pages provide electronic access to the latest product releases, documentation, and release notes. With a valid e-mail address and password, you can access the online problem report database to submit new issues or to obtain the status of previously reported issues.

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