

April 22, 2016

Impact Vision SDK 11.8.1 Readme file

Welcome to Datalogic's Vision SDK (Software Development Kit), a set of interfaces that provide you access to Datalogic vision devices using standard Microsoft® .NET languages.

These Vision SDK interfaces work on our line of machine vision devices. Impact vision programs are developed using the Vision Program Manager on a PC (the Client Computer). The software components you develop using Vision SDK can then access and control the vision programs. You need to install Impact software on the Client Computer only if you want to use it to modify the vision programs on the Datalogic hardware.

The Vision SDK software is installed on the client computer.

Information about Datalogic cameras and the other software in the Impact family is available on our website: <http://www.datalogic.com/>

This document is divided into the following sections:

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System Requirements

System Requirements for the Client Computer

- Intel, AMD, or VIA x86-class processor -minimum 1.2 GHz; 64-bit processors are supported with Microsoft Windows Vista and Windows 7 operating systems
- Microsoft® Windows Vista or Windows 7
- 512MB or more of RAM, 1 GB required for Vista and Windows 7 (2 GB recommended)
- Microsoft® .NET Framework 3.5 or later installed
- 800MB or more of available hard disk space
- 10/100Mbps Ethernet connection
- Display resolution of 1024 x 768 or greater
- A PDF reader is required to read the software and hardware manuals

System Requirements for the Datalogic camera

- The Datalogic camera and the client computer must have the same version of Impact software installed. (You need to install Impact software on the Client Computer only if you want to use it to modify the vision programs on the Datalogic hardware.)

System Requirements for Vision SDK

- The development computer must have Microsoft Visual Studio® (2008 or later) or similar Integrated Development Environment (IDE) software installed.
- The development computer must have Microsoft® .NET Framework 3.5 or later installed.

Enhancements in release 11.8.0

Enhancements in this release include support for all Impact Data types, porting of all the Impact enumerations, reorganization and clarification of namespaces and classes, and better documentation and code suggestions.

- 1. Improved navigation and use.**
New and reorganized namespaces and methods ease navigation and use. (6672)
- 2. Added the ability to get the tool port type.**
A call is now available to get the type (e.g. rectangle, integer, string, etc.). (6850)
- 3. A vision program can be saved.**
An API call is available to save a vision program. (7067)
- 4. Images can now be uploaded to the file camera.**
An API call is now available to upload images and add them to the file camera. (Not functional on the Emulator) (7068)
- 5. Shapes can now be drawn on images.**
A call is now available to draw several ROI shapes on the displayed image. (7069)
- 6. New calibration management was added.**
You can now calibrate from a target and use real-world (right-handed) coordinates. (7143)

Bugs fixed in release 11.8.0

Here is the list of bugs fixed in this release.

- 1. The complete Settings Path was not returned.**
The GetAllSettingPort Api did not return Vision System as part of the path. (6851)
- 2. The installer did not interpret the license correctly.**
The installer displayed the html code from the license. (6943)
- 3. The installer created unnecessary folders.**
Several unneeded folders and files were added. (6945)

Installation Instructions

Installing Impact software

Important Note: You need to install Impact software on the Client Computer only if you want to modify the vision programs on the Datalogic hardware.

To install the Impact software:

1. You may need to turn off automatic virus checking during the install if it causes installation problems.
2. You must have administrative privileges to install Impact software.
3. Double-click on the installation file and the installation program should start.
4. Click Next to display the End User License Agreement. You must click the radio button to accept the License Agreement to continue with the installation.
5. Click Next to display the Choose Install Set dialog. You can click Cancel to quit the installation at any time during the installation.
6. Select the desired type of installation from the menu, and then click Next.

Typical - This option installs all the Impact software modules on the client computer and updates the firmware and vision programs on one or more Datalogic Impact devices. All programs (VPM, CPM, CPMRE, Settings stand-alone, and Emulator) are installed on the client computer, but only the VPM and Emulator shortcut icons will appear on the desktop after the installation.

Custom - This option installs all the Impact software modules on the client computer and/or updates the firmware and software on one or more Datalogic Impact devices. You can also uninstall client settings and device firmware with this option. **A special installation selection exists to create the CPM desktop icon during client installation.** Users need to select either the “WITHOUT CPM” or “WITH CPM” option. If both are selected, the CPM shortcut will not be created.

Uninstall Client Settings and Device(s) - This option uninstalls the client settings from the computer and the firmware from Datalogic Impact devices. It does not install any software or remove a user’s vision programs.

7. Select the default directory for the Impact software, click Choose to browse to the desired directory, or type in the directory name. Click next when you are done.
8. Select the default directory for the Impact software data files (Root directory) or click Choose to browse to the desired directory. You can put the Root directory on the client computer or on a network device so multiple clients can share it. Click next when you are done.
9. If you have selected Typical, or Custom with a device installation, you must select one or more Datalogic devices from the list of devices. Click Refresh to update the device list. If the device does not appear in the list, check its power and Ethernet connections. (The default IP address for each device is 192.168.0.128 when it is shipped.) Click Next when you are done selecting devices.

The installation will fail if the client computer and device IP addresses are not correctly configured or the indicated Datalogic Impact device is not connected to the client computer.

Note: If security is enabled on the device, you will not be able to install new software on it. You must exit the install program, disable security on the device, and restart the installation program.

10. When the Pre-installation Summary is displayed, click Next and the installation will begin.
11. Next, you can start Impact software. Refer to the Impact Reference Guide for more details.

Installing Impact Vision SDK software

Important Note: The Impact Vision SDK installer installs software only on the Client Computer. See Installing Impact Software in the previous section.

1. You may need to turn off automatic virus checking during the install if it causes installation problems.
2. You must have Administrative privileges to install Vision SDK software.
3. Double-click on the Impact Vision SDK setup program icon and the installation program should start.

4. When the License screen is displayed, click I Agree to accept the License Agreement and continue with the installation. You can click Cancel to quit the installation at any time during the installation.
5. The Select Installation Folder dialog is displayed. Click Install to use the default install directory and continue. If you want to choose the install directory, click Browse to browse to the desired directory or type in the directory name.
6. The installation will begin.
7. When the installation has completed, click Close.
8. If you are using a programming language to create interfaces to Impact Vision SDK, you must import the Impact Vision SDK component into the programming language environment you are using. Refer to the Vision SDK Reference Guide and the Getting Started Guide for the appropriate Vision SDK programming environment for more details.

Uninstalling Impact software

To uninstall Impact software, follow these steps:

1. From the Windows Start menu select Settings - Control Panel – Programs and Features.
2. Select either Impact (64-bit or 32-bit, depending on the version of Impact software installed) and press the Add/Remove button.

Uninstalling Vision SDK software

To uninstall Vision SDK software, follow these steps:

1. Using Windows Explorer, navigate to the following folder:
C:\Datalogic\VisionSDK
2. Double-click the uninstall program file “Uninstall.exe.”

General Notes about this release

A PDF reader is required to open Impact software PDF manuals and online help

To access the Vision SDK Reference Guide and other manuals you must install a PDF reader on the client computer. Datalogic Automation, Inc. is not responsible for the performance or reliability of any PDF reader software.