

OPC Server 11.8 Readme file

Welcome to Datalogic's OPC Server, a program that provides access to Datalogic Impact devices using standard OPC communications protocol.

This OPC Server works with Datalogic's line of machine vision devices. Impact vision programs are developed using the Impact Vision Program Manager (VPM) on a PC. Software clients on the network can then access and control the vision programs using standard OPC commands. You need to install Impact software on a PC only if you want to use the software to create or modify vision programs on the Datalogic hardware. You can install and run the OPC server on any PC that fulfills the system requirements.

NOTE: In VPM, there is a check box on the General System Object Setup – Communication panel (Enable OPC/ActiveX Server). When enabled, the DPWS server (used by OPC) on the Datalogic device starts automatically when the device boots. When you upgrade to this release from release 10.3.0.75 or earlier, this setting is enabled by default.

In new installations of this release, this setting is disabled by default. If you are going to use OPC, you must enable this setting. Refer to the Impact Reference Guide (843-0093) for more details.

Information about Datalogic devices 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:

[System Requirements](#)

[Installation Instructions](#)

[General notes about this release](#)

System Requirements

System Requirements for Impact software on 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 XP, Vista, or Windows 7 operating systems
- 512MB or more of RAM, 1 GB required for Vista and Windows 7 (2 GB recommended)
- 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 Impact OPC Server software

- Intel, AMD, or VIA x86-class processor – minimum 1.2 GHz; 64-bit processors are supported with Windows Vista and Windows 7
- Microsoft Windows XP, Vista, or Windows 7

- Microsoft .NET framework (will be installed if not present)
- 512MB or more of RAM, 1 GB required for Vista and Windows 7 (2 GB recommended)
- 800MB or more of available hard disk space
- 10/100Mbps Ethernet connection
- The Datalogic device and the OPC Server computer must have the same version of Impact software installed. (You need to install Impact software only if you want to use it to modify the vision programs on the Datalogic hardware.)
- The Datalogic Impact device must have Impact Release 9.0 or later installed on it.

NOTE: ActiveX cannot be used on the Datalogic model A30, T4x-Series, P-Series or other Smart Cameras.

Installation Instructions

Installing Impact software (PC and/or Datalogic Impact device)

Important Note: You need to install Impact software only if you want to modify the vision programs on the Datalogic hardware. To use the OPC Server, you must install at least the firmware part of the Impact software on the device. (Select Custom from the Install menu. See Step 5.)

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. Insert the Impact OPC Server Installation CD in the drive and the installation program should start.
4. Click Next to display the End User License Agreement. Click the radio button if you want to accept the License Agreement and 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.
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 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.

CPM Shortcut - 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 device firmware from Datalogic Impact devices. It does not install any software or remove a user's vision programs.

6. To select the default directory for the Impact software make no changes. You can also click Browse to browse to the desired directory or type in the directory name. Click next when you are done.
7. 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.
8. If you have selected Typical or Custom with a device installation, you can 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 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.
9. When the Pre-installation Summary is displayed, click Next and the installation will begin.
10. If you installed the Impact Software, you can start it when the installation has completed. Refer to the Impact Reference Guide for more details.

Disabling User Account Control

On Vista and Windows 7 operating systems you must disable User Account Control (UAC) for the OPC Server software installer to complete successfully.

Important Note: Disabling UAC will make the system less secure. It is not recommended that you run Vista and Windows 7 computers with UAC disabled. You should enable UAC after the OPC server install is complete.

To disable UAC

1. Click the Start button
2. Click Control Panel
3. If you are connected to a network domain, click "User Accounts." If you are not, click "User Accounts and Family Safety."
4. In the User Accounts window, click "User Accounts."
5. In the User Accounts task window, click "Turn User Account Control on or off". If you are prompted for an administrator password or confirmation, type the password or provide confirmation.
6. Clear the "Use User Account Control (UAC) to help protect your computer" check box to turn off UAC.
7. Click OK.
8. Click Restart Now to restart your computer and apply the change.

Installing OPC Server software

Important Note: The OPC server installer installs software only on the OPC Server Computer. To use the OPC Server, you must install at least the firmware part of the same Impact software version on the Datalogic Impact device. See Installing Impact Software in the previous section of this document. (Select Custom from the Impact Software Install menu.)

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 OPC Server setup program icon and the installation program should start.
4. If the Microsoft .NET Framework license is displayed, click Accept. The .NET Framework will be installed. This may take a long time (more than 30 minutes). If the .NET installation license is not displayed, skip to step 6.
5. When the .NET Framework installation is complete, and the OPC Server Reboot screen is displayed, click Yes to restart your computer.
6. When the reboot is complete, the OPC Server install Welcome screen is displayed. Click Next to display the License Agreement. Click the radio button labeled “I Agree” if you want to accept the License Agreement and continue with the installation.
7. Click Next to display the OPC Server auto-start option dialog. If you want the OPC Server to start when the computer starts, click the check box. The server will start automatically when it is needed, even if you do not select this option.
8. Click Next to display the Select Installation Folder dialog. To select the default directory for the OPC Server make no changes. You can also click Browse to browse to the desired directory or type in the directory name.
9. Click Next to display the Confirm Installation screen.
10. Click Next to begin the installation.
11. When the installation has completed, a dialog should be displayed indicating that the IMPACTOPCServer registered OK.
12. Click OK to display this Readme file. Click Next to continue.
13. When the Installation Complete screen is displayed, click Close to close the installation program. Refer to the OPC Server Reference Guide for more details.

Uninstalling Impact software

To uninstall the most recently installed version of Impact software, follow these steps:

1. From the Windows Start menu select Settings - Control Panel - Add/Remove Programs.
2. Select either Inspection Builder or Impact (depending on the version of Impact software installed) and click the Add/Remove button.

Uninstalling OPC Server software

To uninstall OPC Server software, follow these steps:

1. From the Windows Start menu select Control Panel - Add/Remove Programs.
2. Select OPC Server and press the Add/Remove button.

General Notes about this release

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

For your convenience, an Open Source PDF reader is installed so you can open the Reference Guide and other manuals.

Datalogic Automation, Inc. is not responsible for the performance or reliability of this PDF reader software. For support, refer to the reader documentation.