

Impact VPM Lite Readme

Welcome to Impact, a complete range of software and hardware to solve your machine vision needs. Impact is the most complete product line with the same software used throughout. Impact reduces your cost of ownership and provides you with the flexibility that today's quickly changing manufacturing environment requires.

This Readme file describes the User Interface software, documentation, and firmware installed by ImpactLiteSetup*.exe. See installation instructions on page 3.

NOTE: The information in this file applies exclusively to VPM Lite. There may be additional information pertaining to VPM Lite in the Impact Readme file distributed with VPM.

Vision Program Manager™ Lite (VPM Lite) is used to configure the Datalogic P-Series Impact camera and view the data collected from your inspections. VPM Lite will connect only to P-Series model cameras.

Check our website at <http://www.datalogic.com/> for possible releases newer than this release and for information on other Impact Lite software and hardware products.

This Readme file is divided into the following sections:

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Software and Documentation

Shortcuts to the software and documentation listed below are located in your computer's Start folder. Select Start, All Programs, Impact Lite.

VPM Lite

You can do all your software work with VPM Lite on Datalogic P-Series cameras.

- Configure your Camera with the Settings tab – Camera setup.
- Program your machine vision inspections with the Design Mode.
- Create an Operator Interface with the Display Mode.

Or

- Run one or more Emulators on your PC to create, test, and demonstrate your inspections without using hardware.

Translation

Impact Lite Language Resource File

Datalogic provides a file (OEM.properties) that you can use to create a language resource file so that the Impact VPM Lite user-interface text will display in any language. For

more information about Impact Lite translation, check our website <http://www.datalogic.com> or contact your distributor.

Software

Impact camera software

ImpactVisionDeviceSetup*.exe installs Impact Vision Device firmware on P-Series Smart Cameras.

Documentation

VPM Lite Readme

This file describes the software and documentation in ImpactLiteSetup*.exe.

Impact VPM Lite Reference Guide

This manual documents how to configure, program, control, and monitor Datalogic vision devices with VPM Lite. The Reference Guide also provides a Quick Setup to get a Datalogic vision device configured, connected to a network, and calibrated so you can start using it.

Sample Programs Guide

This manual contains an overview of the sample Impact Lite vision programs and images, as well as information about how to implement and learn from each of them.

P-Series Hardware Guide

This manual describes the Datalogic P-Series Smart Camera line, including the inputs and outputs available to integrate your system into a production line.

System Requirements for the P-Series

System Requirements for the Client Computer

- Intel®, AMD®, or VIA® x86-class processor -minimum 1.2 GHz; 64-bit processors are supported with Windows 7, Windows 8.1, and Windows 10
- Microsoft® Windows 7, Windows 8.1, or Windows 10
- 1 GB or more of RAM, 2 GB recommended
- 800MB or more of available hard disk space
- 10/100Mbps Ethernet connection
- Monitor 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

- To work with P-Series cameras, the camera and client computer must have the same version of Impact Lite software installed.

Release Notes

Release notes (including bugs fixed and enhancements) are distributed in a document named “Impact Lite Release Notes.” The document is available on Datalogic’s web site (www.datalogic.com).

Installation Instructions

IMPORTANT NOTE: Release 12.0.0 and later will not install on MX-Series processors

The MX20, MX40, and MX80 processors are no longer supported by Impact software upgrades. Releases 12.0.0 and later will not install on these processors. Release 11.12.0 is the latest release that supports them.

Operating System Type

The Impact Lite Software installation program (ImpactLiteSetup*.exe) is available in one version for a 64-bit operating system (OS). Refer to your computer documentation if you are unsure which operating system your computer uses. You must install the appropriate version for your operating system.

If you attempt to install the 64-bit version on a 32-bit OS, the following text is displayed in a dialog:

This Setup does not install to a 32 bit operating system. This computer is running a 32 bit operating system. The install will end now. Try the corresponding 32 bit Setup. Datalogic provides services through its website at www.datalogic.com. Click on the SUPPORT link for access to customer service, technical support, and sales.

NOTE: If security is enabled on the vision device, you will not be able to install new software on it. Before you start the installation program, you must disable security. Go to the VPM Lite Settings tab, click on the General System Object, and select the Administration panel.

Installing Impact Lite software (PC)

To install the Impact Lite software:

1. You may need to turn off automatic virus checking during install if it causes installation problems.
2. You must have administrative privileges to install Impact software. Double click on the installation executable file ImpactLiteSetup*.exe and the installation program should start.
3. Click Next to display the End User License Agreement. You must click the I Agree button to accept the License Agreement to continue with the installation.
4. Click Next to display the Destination Folder dialog. You can click Cancel to quit the installation at any time during the installation. Select the default directory for the Impact Lite software, click Choose to browse to the desired directory, or type in the directory name. Click Next when you are done. See “NOTE: If security is enabled on the vision device, you will not be able to install new software on it. Before you start the installation program, you must disable security. Go to the VPM Lite Settings tab, click on the General System Object, and select the Administration panel.
5. ” on page 3 if you are updating a previous release.
6. Select the “Device” box if you want to install Impact Lite to a camera and the client computer. Clear the box if you only want to install to the client computer. Click Install when you are done.

7. If you selected the “Device” box, you must select one or more devices from the list of devices. Click Refresh to update the device list. If the camera does not appear in the list, check its power and Ethernet connections. (The default IP address for each camera is 192.168.0.128 when it is shipped.) Click OK when you are done selecting devices.
The installation will fail if the client computer and camera IP addresses are not correctly configured or the indicated camera is not connected to the client computer.
Note: If security is enabled on the camera, you will not be able to install new software on it. You must exit the install program, disable security on the camera, and restart the installation program.
8. When the installation has completed, click Close. You can start Impact software and connect to the camera. Refer to the Impact Lite Reference Guide for more details.

IMPORTANT: Do NOT power off the camera or processor during installation. On P-Series cameras, all five status LEDs are turned ON during the installation process. When all LEDs turn off, the camera will automatically reboot.

Downgrading Impact Lite software

To downgrade software to a previous version:

1. Copy the following folder to a safe location. The “install folder” is where Impact Lite was installed. The default is “Datalogic”
C:\install folder\ImpactLite\Applications\Root
(this will back up some of your existing Impact Lite files)
2. Run ImpactLiteSetup*.exe to install the desired previous version of Impact Lite software you want on the Datalogic camera.

Configure PC firewall and antivirus software

PC Firewall

Impact Lite software requires the PC’s firewall software to be configured to allow network connections to VisionEmulator.exe and javaw.exe. The default install locations for these programs is:

C:\install folder\ImpactLite\Applications\Emulator

C:\install folder\ImpactLite\Applications\jre\bin

Datalogic Vision Devices, including the Emulator, appear as network devices to Impact Lite software. Often, configuring the firewall only requires pressing the Unblock button once or twice during the first run of Impact Lite software. At other times, configuring the PC’s firewall software to allow connections must be done explicitly.

The PC’s firewall software can leave Impact Lite software waiting forever to connect. You can fix waiting to connect issues by adding firewall exceptions for the Emulator (VisionEmulator.exe) and javaw.exe, or disabling the firewall. Microsoft warns that turning off the firewall is not recommended. Firewall exceptions are preferred.

To add exceptions, go to Start - Control Panel - Windows Firewall - Allow a program or feature through Windows Firewall. Allow exceptions for Vision Emulator and javaw.exe.

Antivirus and anti-malware settings

Restrictive settings in antivirus or anti-malware software on the PC can block communication ports that Impact Lite uses. There are several symptoms of this problem, including one or more of the following:

- The Impact Lite software installation fails
- An error (Error registering online callback) is displayed when you try to connect to the device
- The device is not displayed in the Device Connection list

You may be able to resolve some of these problems by adjusting the antivirus or anti-malware settings to work well with the ports that Impact Lite uses. Refer to the Troubleshooting section of the Impact VPM Lite Reference Guide for more details.

General Notes about this release

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

For your convenience, an Open Source PDF reader is installed on the M-Series and MX-U Series processors so you can open the Reference Guide and other manuals.

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

Camera and strobe power supply grounding

Some customers have reported problems with inconsistent strobe pulse lengths on the Datalogic camera. We have found that these problems resulted from insufficient power supply grounding. You must be sure that strobe and power supply grounds are connected securely to earth ground through the appropriate connector. Refer to the appropriate Hardware Guide or Quick Start Reference Guide for wiring diagrams.

To run Impact Lite software, you must have file modification permission.

To run any Impact Lite software module, you must have permission to modify files in the installation directory.