

April 22, 2016

Vision Device 11.8.1 Readme file

Welcome to Datalogic's Vision Device software which supports the M-Series and MX-U Series processors and from one to four cameras, depending on the processor and number of camera licenses you purchased. The M-Series and MX-E Series processors connect to GigE cameras and the MX-U Series processor connects to USB cameras.

More information about the M-Series, MX-U Series, MX-E Series, our Smart Cameras, and the software in the Impact family, is available on our website at www.datalogic.com

This document is divided into the following sections:

[System Requirements](#)

[Bugs Fixed in this release \(11.8.1\)](#)

[Bugs Fixed in Release 11.8.0](#)

[Known Issues](#)

[Installation Instructions](#)

[General notes about this release](#)

System Requirements

Vision Device System Requirements

The Vision Device Software is intended for installation only on either a Datalogic M-Series, MX-U Series, or MX-E Series processor. You must install it directly on the processor you intend to use. You cannot install it remotely.

Note: When a new processor is powered on the first time, a monitor; keyboard; and mouse must be connected to the processor to approve the license agreement.

M-Series processors have the following specifications:

MX20

- Intel® Celeron® Dual-Core CPU T3100 @ 1.90GHz
- 4 GB RAM
- 40 GB Solid State Storage
- Windows® 7 Pro SP1 for Embedded Systems, 64-bit
OR
Windows® XP Pro for Embedded Systems, SP3 32-bit
- 2 Gigabit LAN Ports
- 2-CH Gigabit PoE
- 3 USB 2.0 compliant ports
- Intel GM45 / ICH9 video chipset (up to 1600 x 1200 display)
- 2 Integrated Serial Ports

MX40

- Intel® Core™ 2 Duo CPU P8400 @ 2.26GHz, 2 core CPU

- 4 GB RAM
- 40 GB Solid State Storage
- Windows® 7 Pro SP1 for Embedded Systems, 64-bit
OR
Windows® XP Pro for Embedded Systems, SP3 32-bit
- 2 Gigabit LAN Ports
- 4-CH Gigabit PoE
- 3 USB 2.0 compliant ports
- Intel GM45 / ICH9 video chipset (up to 1600 x 1200 display)
- 2 Integrated Serial Ports

MX80

- Intel® Core™ i7-2710QE CPU @ 2.10GHz, 4 core CPU
- 8 GB RAM
- 80 GB Solid State Storage
- Windows® 7 Pro SP1 for Embedded Systems, 64-bit
OR
Windows® XP Pro for Embedded Systems, SP3 32-bit
- 2 Gigabit LAN Ports
- 4-CH Gigabit PoE
- 4 USB 2.0 compliant ports
- 2 USB 3.0 compliant ports
- Intel QM6 Express (up to 2048 x 1536 display)
- 5 Integrated Serial Ports

MX-U Series processors have the following specifications:***MX-U20***

- Intel® Celeron® Dual-Core CPU 1047UE 1.40GHz
- 4 GB RAM
- 60 GB Solid State Storage
- Microsoft OEM Embedded Standard 7 64-bit
- 2 Gigabit LAN Ports
- 4 USB 3.0 compliant ports
- 1 USB 2.0 compliant ports
- Intel HD 3000 (1920x1200) video
- 1 Integrated Serial Port

MX-U40

- Intel® Celeron™ 1020E 2.2 Ghz – dual core
- 4 GB RAM
- 60 GB Solid State Storage
- Microsoft OEM Embedded Standard 7 64-bit
- 2 Gigabit LAN Ports
- 4 USB 3.0 compliant ports
- 1 USB 2.0 compliant ports
- Intel HD 3000 (1920x1200) video
- 1 Integrated Serial Port

MX-U80

- Intel® Core™ i7 3615QE 2.3 Ghz – quad core
- 8 GB RAM
- 128 GB Solid State Storage
- Microsoft OEM Embedded Standard 7 64-bit
- 2 Gigabit LAN Ports
- 4 USB 3.0 compliant ports
- 1 USB 2.0 compliant ports
- Intel HD 3000 (1920x1200) video
- 1 Integrated Serial Port

MX-E Series processors have the following specifications:***MX-E20***

- Intel® Celeron® Dual-Core CPU 1047UE 1.40GHz
- 4 GB RAM
- 60 GB Solid State Storage
- Microsoft OEM Embedded Standard 7 64-bit
- 2 Gigabit LAN Ports
- 2-CH Gigabit PoE
- 4 USB 3.0 compliant ports
- 1 USB 2.0 compliant ports
- Intel HD 3000 (1920x1200) video
- 1 Integrated Serial Port

MX-E40

- Intel® Celeron™ 1020E 2.2 Ghz – dual core
- 4 GB RAM
- 60 GB Solid State Storage
- Microsoft OEM Embedded Standard 7 64-bit
- 2 Gigabit LAN Ports
- 4-CH Gigabit PoE
- 4 USB 3.0 compliant ports
- 1 USB 2.0 compliant ports
- Intel HD 3000 (1920x1200) video
- 1 Integrated Serial Port

MX-E80

- Intel® Core™ i7 3615QE 2.3 Ghz – quad core
- 8 GB RAM
- 128 GB Solid State Storage
- Microsoft OEM Embedded Standard 7 64-bit
- 2 Gigabit LAN Ports
- 4-CH Gigabit PoE
- 4 USB 3.0 compliant ports
- 1 USB 2.0 compliant ports
- Intel HD 3000 (1920x1200) video

- 1 Integrated Serial Port

Bugs fixed in this release (11.8.1)

Here is a list of bugs fixed in this release.

- 1. Ethernet/IP communication stopped.**
Communication would stop for up to three seconds. (7182)
- 2. Some cameras failed and logged a specific system message.**
Some M-Series and third-party cameras logged an error “VPM - aborting with error... Aborted Before Run” and failed to run tasks. (7565)
- 3. The messages for USB Hardware key errors were confusing.**
If a key was damaged or missing, the messages were very generic and not helpful. (7673)
- 4. A warning was added for an outdated USB Hardware key driver.**
If a an outdated driver is installed, the warning is displayed each time the vision device is started. (7715)

Bugs fixed in release 11.8.0

Here is a list of bugs fixed in release 11.8.0.

- 1. The vision device would crash when a camera was connected.**
It would crash on the MX-U processor when a USB camera was connected. (7290)

Issues

Downgrading from 11.8.1 to a previous version

- If a previous version of Impact vision device already exists on the processor, you must uninstall it.
 1. From the Windows Control Panel, select Uninstall a program.
 2. From the list of Currently Installed Programs, select “IMPACT Vision Device” and click the Uninstall button.

Deprecated Tools

- As of release 10.7.0, the Data Matrix and Barcode tools were deprecated and their functionality replaced by the Code Reader tool. In existing Vision Program files, deprecated tools are displayed in yellow in the task tree. They will continue to function, but they do not appear in the Toolbox and cannot be added to new Vision Program files.
NOTE: The Code Reader tool is not supported on A20 and T3x cameras.

M-Series Bandwidth Restriction

- Some MX40 processors shipped prior to November, 15, 2011, have exhibited a problem of restricted bandwidth performance. These processors contain an older version of the basic input/output system (BIOS) with a Build Date prior to 11/08/11 and an ID ending in a number less than 07. The problem occurs when the system is restarted by using the Reset button or the Windows Restart command rather than using Window Shutdown followed by cycling power. Contact Datalogic support or your distributor for more details about updating the BIOS.

M-Series processor Core Assignment

- In the 10.3.0 release, the way that camera processes are assigned to the processor cores on an M-Series processor was changed. **This can affect the performance of existing three and four camera applications when they are upgraded from previous Impact releases.**

As of the 10.3.0 release, all vision program task processing for cameras number one and three is assigned to the first core (core0), while processing for cameras number two and four is assigned to the second core (core1). In one and two camera applications there will be little difference in performance, since each of the two cameras has a single core to use exclusively. On three and four camera applications this change may have a noticeable effect on performance, since camera one and camera three must share core0, and camera two and camera four must share core1.

For more details, refer to the M-Series CPU Assignment Application Note.

Installation Instructions

Processor Type

This Software will install only on an Impact M-Series, MX-E Series, or MX-U Series processor. If you attempt to install it on any other processor, the following text is displayed in a dialog:

IMPACT Vision Device files only install to IMPACT Vision Processors. This computer is not an IMPACT Vision Processor. The install will end now. To purchase an IMPACT Vision Processor email info.vision.ia@datalogic.com. For technical support email Datalogic Automation at mvsupport@datalogic.com. For other contact information see www.datalogic.com.

Operating System Type

This release of Impact Software is available in two separate versions, one for a 32-bit operating system (OS) and one for a 64-bit OS. You must use the software version that matches your M-Series, MX-E SERIES, or MX-U Series processor OS. If you attempt to install the 64-bit version on a 32-bit OS, the following text is displayed in a dialog:

You cannot install the 64-bit version of IMPACT Vision Device on a 32-bit Operating System. Use the 32-bit installer on the Vision Processor. The install will end now. To obtain an installer for this Vision Processor email info.vision.ia@datalogic.com. For technical support email mvsupport@datalogic.com. For other contact information see www.datalogic.com.

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

This 32 bit installer does not install to 64 bit operating systems. Use an x64 installer on this Vision Processor. The install will end now. To obtain an installer for the Vision Processor email info.vision.ia@datalogic.com. For technical support email mvsupport@datalogic.com. For other contact information see www.datalogic.com.

Updating a 32-bit or 64-bit version

If you are updating an existing installation, you cannot install a 32-bit version into the same directory as an existing 64-bit version or a 64-bit version into the same directory as an existing 32-bit version. If you attempt this type of installation, text similar to the following is displayed in a dialog:

A 32 bit install on top of a 64 bit install is not allowed.
Your chosen destination directory has a 64-bit install of IMPACT.
This is the 32-bit IMPACT installer.
Installing the 32-bit IMPACT on top of the 64-bit install is not allowed.
Three choices are:
a) To install the 32-bit IMPACT to this directory, press Cancel to exit this installer. Uninstall the 64-bit IMPACT from this directory.
b) To install IMPACT 32-bit to another directory, press Previous. Change the install directory to that directory.
c) To install the 64-bit IMPACT, press Cancel to exit this installer. Get the 64-bit IMPACT installer and install it to this directory.

You must install this software on the M-Series, MX-E Series, or MX-U Series processor you intend to use. You cannot install remotely to a processor.

Installing Vision Device software

To install the Impact Vision Device 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 this software.
3. Double click on the Installer file (IMPACTVisionDeviceSetup_nn_nn_nn_nn.msi) and the installation program should start. (The letters “nn” are the installer file version number. For example, IMPACTVisionDeviceSetup_11_4_0_75.msi) You can click Cancel to quit the installation at any time during the installation.
4. When the Welcome screen is displayed, click Next
5. When the End User License Agreement is displayed, you must click the “I Agree” button to continue with the installation.
6. Select the default directory for the Impact Vision Device software. Click Browse to browse to a different directory, or type in the directory name. Click Install when you are done.

If the following message is displayed in a dialog, the same version of vision device is already installed on the processor. You can repair or remove it.

Same version detected

Impact Vision Device (64-bit) is already installed on this computer. Select whether you want to repair or remove Impact Vision Device (64-bit).

If the following message is displayed in a dialog, a different version of vision device is already installed on the processor. You must remove it.

Existing version detected

Impact Vision Device (64-bit) is already installed on this computer. You must remove the current Impact Vision Device (64-bit).

7. The installer checks for the most recent version of the USB Hardware Key Runtime Software. If an update is required, the following dialog is displayed. Click Yes to update the software.

Install has detected a newer version of the USB Hardware Key driver and is recommended for an update to prolong system lifetime. Update the USB Hardware Key driver now?	Yes	No
--	-----	----

8. When the Confirm Installation Summary is displayed, click Next and the installation will begin.
9. When the installation is complete, choose whether this file should be displayed. Refer to the Impact Reference Guide for more details on using the Impact Software Suite.

Uninstalling Impact software

To downgrade software on an M-Series, MX-E Series, or MX-U Series processor

1. Copy the following folders (in the “install folder”) to a safe location (this will back up some of your existing Impact files). The default “install folder” is “Datalogic.”
 - C:\install folder\IMPACT\Applications\Device
 - C:\install folder\IMPACT\Applications\Root
2. From the Windows Control Panel, select Uninstall a program.
3. From the list of Currently Installed Programs, select “IMPACT Vision Device” and click the Uninstall button.
4. When the uninstall is complete, delete the files named “settings.xml” from the following default directories, if they are present there:
 - C:\install folder\IMPACT\Applications\Device\IMPACTDevice\cf\
 - C:\install folder\IMPACT\Applications\Device\IMPACTDevice 2\cf\
 - C:\install folder\IMPACT\Applications\Device\IMPACTDevice 3\cf\
 - C:\install folder\IMPACT\Applications\Device\IMPACTDevice 4\cf\
5. Run the IMPACTVisionDeviceSetup and IMPACTSetup executables to install the desired earlier version of Impact software that you want on the M-Series or MX-U Series processor.

General Notes about this release

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