

In-Sight® Explorer 5.7.3 Release Notes

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Revision: 5.7.3.5, 08/02/2019

Overview

This document describes the In-Sight Explorer software, including the following topics:

- [System Requirements](#)
- [New Features](#)
- [Changes & Fixes](#)
- [Known Issues](#)

Note: Visit the [In-Sight Online Support Center](#) to download the latest release notes and documentation, including localized editions. To access the updated documentation from the In-Sight Explorer user interface and Microsoft® Windows® Start menu, complete the following steps:

1. Log on to the PC with administrative privileges.
2. Copy the downloaded documentation to the appropriate location in the installation directory. The default location is: C:\Program Files (x86)\Cognex\In-Sight\In-Sight Explorer 5.x.x\Documentation.

System Requirements

This section describes system requirements for In-Sight Explorer software.

PC Hardware Minimum and Recommended Requirements

Notes:

- The following minimum hardware requirements are for PCs that are connected to a single low-resolution In-Sight vision system running at a slow production speed.
- The following recommended hardware requirements are for PCs that are simultaneously connected to up to four In-Sight vision systems.

Minimum	Recommended
Intel® Celeron® 1000M processor running at 1.8GHz (or equivalent)	Intel Core™ i7 processor running at 2.7GHz (or equivalent)
2GB of available RAM	4GB of available RAM
4GB of available hard-disk space	8GB of available hard-disk space
Video card that can display 1024 x 768 resolution at 24-bit color depth (the DPI Display setting must be set to 96 DPI)	Video card that can display 1920 x 1080 resolution at 32-bit color depth (the DPI Display setting must be set to 96 DPI)
Network interface card (at least 100Mbps) for connecting to an In-Sight vision system	Gigabit network interface card for connecting to In-Sight vision systems

Operating System Requirements

In-Sight software has been tested on the following operating systems:

- Microsoft Windows 10 Professional (64-bit)
- Microsoft Windows 7 Professional, Service Pack 1 (64-bit)
- Microsoft Windows Server 2016

Although you can install and run In-Sight Explorer on other Windows operating systems, PCs that do not meet the preceding requirements are not officially supported.

Supported Languages

- Chinese (Simplified)
- English
- French
- German
- Japanese
- Korean
- Spanish (European)

Firmware Version Support

In-Sight 5.7.3 software contains two firmware versions:

- In-Sight 5.7.3
- In-Sight 4.10.5 PR1

In-Sight vision systems that have older firmware versions might work properly. However, some features are unsupported with older firmware versions and are not fully tested. For optimal performance, update vision systems that run older firmware to the most recent, supported firmware versions. For a list of models and supported firmware versions, see the Firmware Versions topic in the *In-Sight® Explorer Help* file.

In-Sight Firmware 5.7.3

- In-Sight 2000 series vision sensors
- In-Sight 5705 and 5705C vision systems
- In-Sight 7000 Gen2 series vision systems
- In-Sight 8000 series vision systems
- In-Sight 9000 series vision systems
- In-Sight Advantage Engine

In-Sight Firmware 4.10.5 PR1

- In-Sight Micro 1000 series vision systems
- In-Sight 5000 series vision systems (except In-Sight 5705 and 5705C vision systems)
- In-Sight 7000 series vision systems (except In-Sight 7000 Gen2 series vision systems)

Microsoft .NET Framework 4.5

In-Sight software requires Microsoft .NET Framework 4.5. If the In-Sight software installer fails to detect Microsoft .NET Framework 4.5, it attempts to download and install it.

Note: If you attempt to install In-Sight Explorer on a system with Microsoft .NET Framework 3.5 disabled while Windows updates are being installed, you may receive the following error message: Error installing Microsoft .NET Framework; Error code 0x800f081f. If this occurs, wait for the Windows updates to complete, reboot if necessary, and then install In-Sight Explorer.

New Features

New Feature	Applicable Firmware Version
Supports the following new In-Sight 2000 vision sensor models: In-Sight 2000-230/230C, In-Sight 2000-230 Mini/230C Mini, In-Sight 2001-230/230C, and In-Sight 2001-230 Mini/230C Mini.	5.6.0
Supports the following new In-Sight 2000 vision sensor models with PoE (Power over Ethernet) models: In-Sight 2000-110 Mini/120 Mini/120C Mini/130 Mini/130C Mini/230 Mini/230C Mini/23M Mini and In-Sight 2001-230 Mini/230C Mini.	5.6.0
Supports the new 7500 vision system.	5.4.0
Supports the new 7501 vision system.	5.5.0
Added HTTPS mode to the Web HMI application, enabling secure communication between In-Sight devices and web browser HMIs. The HTTPS connection is secured through the Cognex Network Server software, which can be downloaded from the Cognex support website .	5.7.3
Added a new Web HMI customize column to the In-Sight Network Pane to indicate the Web HMI connection mode.	5.7.3
Added the Change Emulator Model right-click option to the In-Sight Network pane operations menu, allowing you to more quickly change the In-Sight model type to emulate.	N/A
Added a Filter search box to the Model drop-down list for emulators. This Filter search box is available in the Options dialog (Emulation panel) and the Emulator Options dialog.	N/A

Changes & Fixes

Note

- For changes and fixes in previous releases, see past In-Sight Explorer release notes. Release notes for previous 5.x.x releases are available in the *In-Sight Explorer® Help* file.
- The release notes include issue numbers (where applicable) to better track known issues reported by Cognex Technical Support.

Issue#	Change/Fix	Applicable Firmware Version
IS-525	Fixed an issue that caused an error when attempting to send a String data type from the In-Sight OPC Server to an In-Sight vision system.	5.7.3
IS-856	The WriteImageFTP, WriteFTP and WriteImageSFTP functions now save a file to the correct sub-directory in an FTP server's root directory.	5.7.3
IS-918	The time to load images to high resolution In-Sight vision system models, including emulators, has been improved. Note: A Gigabit Ethernet connection is required to load images faster on an In-Sight 9912 vision system.	5.7.3
IS-1243	Fixed an issue that prevented tools in the EasyBuilder Results Palette from being reordered.	5.7.3
IS-1279	In-Sight vision systems with Trigger set to Network are now correctly triggered when the Master vision system on the network is triggered. Previously, the vision systems were not correctly triggered regardless of the Master Name and Master Data argument values.	5.7.3
IS-1319	Fixed an issue that could cause the first inspection to take longer than expected after importing an OCRMax font and going Online.	5.7.3
IS-1408	The In-Sight vision system no longer experiences a partial firmware lock up when a remote FTP server occasionally disconnects or fails to respond. Previously, when this issue occurred, the In-Sight vision system could not connect to the GUI.	5.7.3

Known Issues

Note: The release notes include issue numbers (where applicable) to better track known issues reported by Cognex Technical Support.

Issue#	Issue	Affected Firmware Version
IS-1539	<p>The In-Sight 7000 Gen2 series vision system and In-Sight 9912 vision system occasionally disconnect from the CIO-1400 I/O module, requiring a reboot of the CIO-1400.</p> <p><i>Workaround:</i> The disconnect occurs due to signal noise on the input lines. Make sure that the input signals are clean of noise, and are debounced. Do not use a relay. If possible, use a CIO-MICRO I/O module, instead.</p>	5.7.3
IS-334	<p>When you try to connect your vision system/sensor to the Web HMI for the first time, you may receive an error message: Permission error appears and connection is denied.</p> <p><i>Workaround:</i> Reinstall or update the firmware on the vision system/sensor and then retry the web HMI connection.</p>	5.7.3
48478	<p>If an In-Sight vision system that runs firmware 5.6.0 or later has a job with many instances of the ReadIDMax function, the job might require more memory than is available on the vision system. Any instances of the ReadIDMax function that exceed the available memory returns #ERR. For example, if an In-Sight 8405 vision system job contains more than 100 instances of the ReadIDMax function, you might encounter this problem.</p>	5.7.3
45581	<p>For In-Sight 7600/7800 series and 9902L vision systems configured for CIP-Sync/PTP, 1588 synchronization accuracy through a transparent clock-switch might increase to more than 10µs offset from master.</p>	5.7.3
35828	<p>If an industrial Ethernet communication protocol triggers the vision system, the JobPass signal is sent only if the job contains a WriteResultsBuffer function. This issue does not occur with EasyBuilder applications.</p>	5.7.3
32479	<p>If you update the In-Sight vision system firmware while it is connected to a POWERLINK network, it results in a code 13710, with the vision system needing to be power cycled and the files restored (the firmware will be successfully updated, however).</p> <p><i>Workaround:</i> Before you update the vision system firmware, complete the following steps:</p> <ol style="list-style-type: none"> 1. Remove the vision system from the POWERLINK network and connect the vision system to a network port on the same subnet as the computer that runs In-Sight Explorer. 2. Power cycle the vision system. 3. Update the firmware while the vision system in Ethernet mode. 4. Place the vision system back onto the POWERLINK network. 5. Power cycle the vision system. 	4.10.5 PR1