

In-Sight® Explorer 5.9.1 Release Notes

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Overview

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

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

Note: For the latest release notes and documentation, visit: support.cognex.com/documentation/in-sight.

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 disk space	8GB of available 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 multiple In-Sight vision systems

Operating System Requirements

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

- Microsoft Windows 7 Professional, Service Pack 1 (64-bit)
- Microsoft Windows 10 Professional (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 5.9.1 software contains two firmware versions:

- In-Sight 5.9.1
- 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 5.9.1

- 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 4.5.2

In-Sight software requires Microsoft .NET Framework 4.5.2. Optionally, Microsoft .NET Framework 3.5 SP1 can be installed. If the In-Sight software installer fails to detect Microsoft .NET Framework 4.5.2, 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 SP1 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.

Changes & Fixes

Notes:

- 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-2200	If using the Web HMI or FTP, the PROFINET connection between the PLC and the vision system is no longer disconnected when using a 100 Mbps network. Note: When the network speed is set to 100Mbps or below, the Web HMI or FTP might perform at a slower network speed.	5.9.1
IS-2348 IS-3195 IS-3196 IS-3451	The following improvements were made for the network speed and duplex mode settings: <ul style="list-style-type: none"> • Fixed an issue where the Current Speed was not shown correctly in the In-Sight Explorer after setting the network speed and duplex mode in the Network Settings dialog. • Fixed an issue where users were not able to connect to an In-Sight 7000 Gen2, 8000 or 9000 series vision system when the Link Speed was set to 10 Mbps Full Duplex in the Network Settings dialog. • Fixed an issue where users could not set the duplex mode through a network switch. • Allows users to set the network speed and duplex mode on an In-Sight vision system via PROFINET. The vision system needs to be restarted after setting the network speed and duplex mode. • Fixed an issue where users could not set the In-Sight 2000 vision sensor's network speed via the Network Settings dialog in In-Sight Explorer. 	5.9.1
IS-2711	Fixed an issue where the In-Sight vision system could crash when running a job with a script cell containing an expression that produces a value of NaN.	5.9.1
IS-2769	Fixed an issue where obfuscated pixels would appear along the bottom and right borders of the Web HMI display when images were scaled in the Web HMI application.	5.9.1
IS-3078	Port 80 is disabled by default and no longer restricted. Previously, port 80 was enabled by default.	5.9.1
IS-3348	Fixed an issue where graphics were not updated immediately after modifying a numeric entry in the property sheet.	5.9.1
IS-3805	The following issues have been fixed for the Location Tools - Pattern and Identification Tools - Patterns (1-10) in EasyBuilder. <ul style="list-style-type: none"> • Fixed an issue where the Identification Tools - Patterns (1-10) was not available on the In-Sight 2000-230/230C and In-Sight 2001-230/230C vision sensors. • Fixed an issue where a legacy pattern tool was used when adding a Pattern Location tool in In-Sight Explorer 5.9.0 on In-Sight 2000 series vision sensors. 	5.9.1
FFP - 1311	Removed the order number "-XX" suffix in the GSD file. Previously, order numbers with the "-XX" suffix could cause a mismatch error between the PROFINET online project and offline project.	5.9.1

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
N/A	The In-Sight 2000 series vision sensors running In-Sight firmware version 5.9.1 are not certified for PROFINET Conformance. To run In-Sight 2000 series vision sensors with PROFINET Conformance, you can downgrade the In-Sight 2000 series vision sensors' firmware version to In-Sight 5.9.0 or 5.8.x.	5.9.1
IS-2195	<p>If In-Sight Explorer is installed to a PC with a Microsoft Windows 10 operating system and the Beta: Use Unicode UTF-8 for worldwide language support is checked in the Region dialog, the vision system or emulator may not be able to connect to the In-Sight Explorer Spreadsheet View.</p> <p><i>Workaround:</i> Uncheck the Beta: Use Unicode UTF-8 for worldwide language support checkbox.</p> <ol style="list-style-type: none"> 1. In the search box on the Windows taskbar, type Control Pane and select the Control Panel App. 2. From the Windows Control Panel search box, type Region and select the Region text. 3. In the Region dialog that opens, click the Administration tab and click the Change system locale... button. 4. In the Region Settings dialog that opens, uncheck Beta: Use Unicode UTF-8 for worldwide language support and click OK to close the Region Settings dialog. 5. Click OK to close the Region dialog. 6. Reboot the PC. 	N/A
FFP-1053	<p>When the vision system is configured to load a job at startup (Sensor menu > Startup) and the EV SetSystemConfig OPCUA.TimeSync Extended Native Mode command is issued, OPC UA Job Tags are missing in the OPC UA client when browsing the address space (Objects > Server > VisionSystem > Results > JobTags node).</p> <p><i>Workaround:</i> Use the LoadJob method to reload the job file to the vision system/sensor. For more information, see the <i>In-Sight® Explorer Help</i> file.</p>	5.9.1
FFP-875	Sending the communication settings, such as the IP address, from Mitsubishi iQ Sensor Solution (GX Works) to the In-Sight vision system/sensor is not supported.	5.9.1
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>	5.9.1
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>	5.9.1
45581	For In-Sight 7000 Gen2 series and 9000 series vision systems configured for CIP-Sync/PTP, 1588 synchronization accuracy through a transparent clock-switch might increase to more than 10µs offset from master.	5.9.1
35828	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 once the Communication application step has been configured.	5.9.1

Issue#	Issue	Affected Firmware Version
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