

**COGNEX®**

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**VisionPro 9.5**

**About This Release**

**1/25/2019**  
**Version 1.0**

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## VisionPro

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## OMNIVIEW

6215915, 6381375, 6408109, 6421458, 6457032, 6459820, 6594623, 6804416, 6959112, 7383536

## CVL Vision Library

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## BGA II and BGA III

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## Wire Bonder

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## About This Release

VisionPro 9.5 contains new or changed features since the previous release of VisionPro 9.3 SR1.

## Supported Operating Systems

VisionPro 9.5 supports development and deployment on single or multiprocessor machines using native languages (English, Japanese, German, Korean, and Simplified Chinese) with the following Windows 64-bit operating systems:

- Windows 10; Windows 10 IoT Enterprise
- Windows 8.1, Update 1
- Windows 7 Premium, Professional and Ultimate (Service Pack 1)

## Supported Development Environments

VisionPro 9.5 supports development and deploying using the following compilers that target the .NET Framework version 4.7.1:

- Microsoft Visual Studio 2013 (v. 12.0), Update 5
- Microsoft Visual Studio 2015 (v. 14.0), Update 2
- Microsoft Visual Studio 2017 (v. 15.10)

## Acquisition Platforms

Refer to the VisionPro Camera Support website (<https://www.cognex.com/products/machine-vision/vision-software/visionpro-software/visionpro-camera-support>) for a complete list of cameras VisionPro supports. Be aware that not all acquisition platforms are supported on all operating systems. The following table summarizes acquisition platform support for this release.

- GigE Vision and related performance drivers
- 3D-A5000 3D Sensor
- DS1000 Series 3D Sensors
- DS900 Series 3D Sensors
- MVS-851x series (Only MVS-8511, MVS-8511e, MVS-8514, MVS-8514e)
- CFG-8700 series

**Note:** This release does not support the MVS-8602e. Be aware that existing applications that use an MVS-8602e may still operate with this version, but future VisionPro releases will remove this ability entirely.

## Security Key Firmware

VisionPro uses a USB security key attached to your computer to ensure the software is properly authorized for use. This release supports firmware version 4.10 for VisionPro security keys. See your installed VisionPro documentation for how to check the firmware version on your security key.

If you are using a security key with a previous version of firmware, contact Cognex Support for assistance in upgrading to the latest version. Keep your security key firmware up to

# About This Release

date to take advantage of the latest features and improvements to Cognex software security.

## New Features in This Release

This release contains a set of new features:

- Support for the 3D-A5000 Sensor
- Enhancements to Assorted Vision Tools

### Support for the 3D-A5000 Sensor

This release supports the Cognex 3D-A5000 sensor for acquiring *point clouds*: sets of data points in 3D space. Point clouds offer higher accuracy than 3D range images, especially for 3D PatMax applications.

VisionPro includes the A5000 Viewer utility for configuring many of the custom acquisition parameters necessary for your vision application. Configure a 3D-A5000 sensor in your QuickBuild application with a CogAcqFifo tool, or use the CogAcqCustomProperty class API with your Visual Studio application.

A 3D-A5000 sensor can convert the point clouds it acquires into 3D range images suitable for analysis by other 3D vision tools such as 3D height calculation and 3D volume calculation.

### Enhancements to Assorted Vision Tools

This release contains runtime execution performance enhancements for the following vision tools:

- Fixture tool
- PMAAlign tool
- Find Line and Find Circle tools
- SearchMax tool
- SurfaceFX tool
- PatInspect tool

See your installed VisionPro documentation for more information on any vision tool.

## Find Additional VisionPro Documentation Online

The [VisionPro Support website](#) contains additional VisionPro documentation not included with your VisionPro installation.

## Needed Instruction Sets

The following table lists the specific instruction set your processor must support for various vision tools:

Tool	Instruction Set	Notes
PMAAlign	SSE4.1	Instruction set needed for 16-bit image analysis only
PMRedLine	SSE4.1	
3D PatMax	AVX2	Any AVX instruction sets prior to AVX2 are not sufficient for 3D PatMax and may cause your 3D PatMax application to stop responding.