

**COGNEX®**

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# VisionPro 9.5 SR1

## About This Release

5/29/2019  
Version 1.0

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## BGA II and BGA III

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## Wire Bonder

5495537, 5532739, 5581632, 5602937, 5640199, 5640200, 5642158, 5676302, 5754679, 5757956, 5768443, 5825483, 5835622, 5850466, 5859923, 5861909, 5949905, 5978080, 5991436, 5995648, 6002793, 6005978, 6035066, 6061467, 6075881, 6137893, 6141033, 6157732, 6167150, 6215915, 6289492, 6324299, 6381375, 6408109, 6411734, 6421458, 6457032, 6459820, 6490375, 6516092, 6563324, 6658145, 6690842, 6748110, 6751361, 6771808, 6804416, 6836567, 6850646, 6856698, 6959112, 6975764, 6985625, 6993192, 7006712, 7016539, 7043081, 7058225, 7065262, 7088862, 7164796, 7171036, 7190834, 7242801, 7251366

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## About This Release

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

## Supported Operating Systems

VisionPro 9.5 SR1 supports development and deployment on single or multiprocessor machines using native languages (English, Japanese, German, Korean, and Simplified Chinese) on a variety of Windows 64-bit operating systems:

### Operating Systems for 2D Features

VisionPro supports the following operating systems for 2D vision tools and features:

- Windows 10 and Windows 10 IoT Enterprise
- Windows 8 Embedded for Vision Controllers
- Windows 7 Premium, Professional and Ultimate (Service Pack 1)

### Operating Systems for 3D Features

VisionPro supports various 3D sensors and 3D vision tools based on your operating system:

3D Hardware/Feature	Required OS
VisionPro with the DS1000 and DS900 series sensors	Windows 10 Pro and Windows 10 IoT Enterprise Windows 7 Premium, Professional and Ultimate (Service Pack 1)
VisionPro with the DSMax series sensors	Windows 10 Pro Windows 7 Premium, Professional and Ultimate (Service Pack 1)
3D-A5000 sensor with A5000 Viewer and 3D HandEye Field Calibrator	Windows 10 Pro
CAD Import Tool	Windows 10 Pro
Cognex 3DExpress	Windows 10 Pro Windows 7 Premium, Professional and Ultimate (Service Pack 1)

## Supported Development Environments

VisionPro 9.5 SR1 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 3
- Microsoft Visual Studio 2017 (v. 15.0)

## 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.

# About This Release

- GigE Vision and related performance drivers
- 3D-A5000 3D Sensor
- DS1000 Series 3D Sensors
- DS900 Series 3D Sensors
- DSMax 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 details on how to check the firmware 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 date to take advantage of the latest features and improvements to Cognex software security.

## New Features in This Release

The release supports the following new features:

- New Mask Creator Tool
- New VisionPro Edit Control Extension
- New QuickBuild Security Reminder
- Smaller Model Regions for CNLSearch
- Enhanced AlignPlus 2D Hand-Eye Calibration Tool
- New CFG-8724 Frame Grabber

### New Mask Creator Tool

This release adds support for the Mask Creator tool for creating mask images that can be added as a runtime parameter for other vision tools. Regions in a mask image can cause features in the images you acquire to be either included or excluded from analysis. In addition, a Mask Creator tool can accept the output image from a Fixturing tool so that the position of the regions match those of the desired features of your runtime images.

### New VisionPro Edit Control Extension

This release replaces the **VisionPro Controls Wizard** utility with a VisionPro Edit Controls extension to populate the tool palette in Microsoft Visual Studio with the latest set of VisionPro edit controls.

### New QuickBuild Security Reminder

This release adds a QuickBuild reminder for security keys that have expired or are about to expire. The reminder includes the number of days remaining on the key.

# About This Release

## Smaller Model Regions for CNLSearch

This release supports a smaller train model region depending on the algorithm you use to perform a CNLSearch inspection and the VisionPro security licenses installed on your security key.

## Enhanced AlignPlus 2D Hand-Eye Calibration Tool

This release enhances the 2D hand-eye calibration tool to allow using motion devices with translation capability only.

## New CFG-8724 Frame Grabber

This release supports the CFG-8724 4-port GigE Vision frame grabber with integrated security licensing.

If you install your Cognex vision software after installing the CFG-8724, be aware you must turn off the power to your computer after the software has been installed. Performing only a warm reboot can prevent the CFG-8724 from functioning correctly.

## 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.