

COGNEX®

VisionPro 9.3 SR1

About This Release

10/19/2018
Version 1.0

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VisionPro

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OMNIVIEW

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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 9.3 SR1 contains new or changed features since the previous release of VisionPro 9.2.

Supported Operating Systems

VisionPro 9.3 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 9.3 supports development and deploying using the following compilers that target the .NET Framework version 4.6 & 4.6.1:

- 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)

Note: This release officially removes support for Microsoft Visual Studio 2012. Contact your Cognex sales representative for any concerns.

Acquisition Platforms

Refer to the VisionPro Camera Support website

(<https://www.cognex.com/products/machine-vision/vision-software/visionpro/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
- 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.

New Features in This Release

This release contains a set of new features:

- New USB License Keys
- PatMax RedLine Tool
- Multiple Line Finding with LineMax Tool
- Updated 3D Align Tool
- VisionPro Documentation Relocated to the VisionPro Support Site

New USB License Keys

This release requires you use a new Cognex USB security key attached to your hardware platform to ensure the software is properly licensed. None of the security options supported in previous releases (Cognex frame grabber, Cognex Communication Card, existing Cognex USB security key) will work with this VisionPro release. Be aware that Cognex frame grabbers and the Communication Cards will still perform their respective image-acquisition and I/O functions, as in previous releases.

Cognex supports security keys on a time-limited basis for application development as well as deployment keys for use with applications in a production environment.

Contact your Cognex sales representative for more information. See your installed VisionPro documentation for details on using Cognex USB security key.

Be aware of the following changes in the VisionPro API for the new security support:

- All security API methods are now in the CogLicense class.
- API previously located in the CogMisc class can now be found in the CogLicense class
- API security methods report a license is valid based on the expiration date and whether the VisionPro release date is within the new software update maintenance period
- API security methods that previously returned a Boolean value have an extra argument allowing you to choose between getting an exception if the device communication failed or return false as in previous VisionPro releases.

PatMax RedLine Tool

This release adds support for the PatMax RedLine tool for pattern location. For many applications, the PatMax RedLine tool contains performance improvements over the PMAAlign tool.

See your installed VisionPro documentation for more information.

Multiple Line Finding with LineMax Tool

This release adds the ability to detect multiple line segments in a single image using the LineMax tool. In addition, you can configure the tool to return just the detected edge points in your images without fitting the edge points to candidate line segments. See your installed VisionPro documentation for more information.

VisionPro supports this new LineMax tool functionality with the *VisionPro.LineMaxMulti* security license. Contact your Cognex sales representative for details.

About This Release

Updated 3D Align Tool

This release updates the 3D Align tool with improvements that define how your 3D models might be rotated about the about the X, Y and Z axes in successive runtime images. See your installed VisionPro documentation for more information for details on creating 3D applications.

Be aware, however, that the 3D Align tool in this release is not compatible with the 3D Align tool from previous releases. Loading an existing application with a 3D Align tool created with an earlier VisionPro release can result in unpredictable behavior. Cognex recommends the following steps to migrate to the 3D Align tool in this release:

1. Remove the 3D Align tool from your application created using a previous VisionPro release.
2. Install this VisionPro release.
3. Recreate the 3D Align tool for your application.

VisionPro Documentation Relocated to the VisionPro Support Site

This release removes many documentation titles from the installation. For any VisionPro documentation not included with this release, refer to the [VisionPro Support](#) website.