

COGNEX

VisionView[®] Application Note

Beijer HMI Panels

05/11/2017

Version: 1.6.8.16

Legal Notices

The software described in this document is furnished under license, and may be used or copied only in accordance with the terms of such license and with the inclusion of the copyright notice shown on this page. Neither the software, this document, nor any copies thereof may be provided to, or otherwise made available to, anyone other than the licensee. Title to, and ownership of, this software remains with Cognex Corporation or its licensor. Cognex Corporation assumes no responsibility for the use or reliability of its software on equipment that is not supplied by Cognex Corporation. Cognex Corporation makes no warranties, either express or implied, regarding the described software, its merchantability, non-infringement or its fitness for any particular purpose.

The information in this document is subject to change without notice and should not be construed as a commitment by Cognex Corporation. Cognex Corporation is not responsible for any errors that may be present in either this document or the associated software.

Companies, names, and data used in examples herein are fictitious unless otherwise noted. No part of this document may be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose, nor transferred to any other media or language without the written permission of Cognex Corporation.

Copyright © 2012 - 2014 Cognex Corporation. All Rights Reserved.

Portions of the hardware and software provided by Cognex may be covered by one or more U.S. and foreign patents, as well as pending U.S. and foreign patents listed on the Cognex web site at: <http://www.cognex.com/patents>.

The following are registered trademarks of Cognex Corporation:

Cognex, 2DMAX, Advantage, Alignplus, Assemblyplus, Check it with Checker, Checker, Cognex Vision for Industry, Cognex VSOC, CVL, DataMan, DisplayInspect, DVT, EasyBuilder, Hotbars, IDMax, In-Sight, Laser Killer, MVS-8000, OmniView, PatFind, PatFlex, PatInspect, PatMax, PatQuick, SensorView, SmartView, SmartAdvisor, SmartLearn, UltraLight, Vision Solutions, VisionPro, VisionView

The following are trademarks of Cognex Corporation:

The Cognex logo, 1DMax, 3D-Locate, 3DMax, BGAI, CheckPoint, Cognex VSoC, CVC-1000, FFD, iLearn, In-Sight (design insignia with cross-hairs), In-Sight 2000, InspectEdge, Inspection Designer, MVS, NotchMax, OCRMax, PatMax RedLine, ProofRead, SmartSync, ProfilePlus, SmartDisplay, SmartSystem, SMD4, VisiFlex, Xpand

Other product and company trademarks identified herein are the trademarks of their respective owners.

Table of Contents

- Legal Notices** i
- Introduction** 1
 - VisionView Support 1
- Installation and Configuration** 3
 - Install the Software to the PC 3
 - Install the Software to the Panel 3
 - Install the Project to the Panel 4
 - AutoRun Project 4
 - Integration Sample Project 4
- License** 7
 - License the VisionView Application 7

Introduction

This application note describes the necessary steps to integrate the Cognex VisionView[®] application onto a Windows[®] CE-based Beijer HMI panel.

The VisionView application can be configured for the run-time environment of the machine HMI panel. The VisionView application can be deployed on the following Beijer devices:

- iX Panel T10A (640 x 480)

⚠ WARNING: The VisionView application cannot be uninstalled from Beijer panels. If necessary, you can re-install the VisionView application to the panel and overwrite the existing installation.

Note:



- The VisionView application can be deployed on Beijer panels running Windows CE 6.0.
- Beijer CE-based HMI panels do not include Asian fonts. In order to display some languages, it may be required to install the necessary resources, including fonts, on the panel.

VisionView Support

Cognex online support is available to assist you in using the VisionView application software. For online support, documentation, and downloads, visit:

<http://www.cognex.com/Support/VisionView>.

Installation and Configuration

Install the Software to the PC

1. Install the VisionView CE-SL software to the PC. This will automatically install the following to the PC:
 - A **VisionView_1.6.6_Beijer.cab** file provided by Cognex and used to install VisionView and its required components onto the Beijer panel.
 - An **Installer** package that includes required components to install the iXDeveloper software and the VisionView_1.6.6.Beijer.cab file onto the Beijer panel.
 - An **AutoRun** package that includes required components to install the AutoRun project onto the Beijer panel. This project allows you to launch the VisionView application automatically when the panel starts.
 - An **Integration Sample** package that includes the VisionView Integration Sample project for use in iXDeveloper. This project allows you to customize the VisionView application's screen size and mode and launch the VisionView application manually on the panel.
2. Optionally, install **iXDeveloper 1.3.1** to the PC when using the Integration Sample project. For more information, refer to [Integration Sample Project on page 4](#).

Install the Software to the Panel

1. From the PC, navigate to the **TransferClient.exe** file contained in the Installer folder (the default location is C:\Program Files (x86)\Cognex\VisionView\CE-SL x.x.x\Beijer\Tools For Panel\Installer\T10A\Transfer Package).
2. Double-click the **TransferClient.exe** file to open the Project Transfer dialog that automatically displays the available HMI panels on the network.

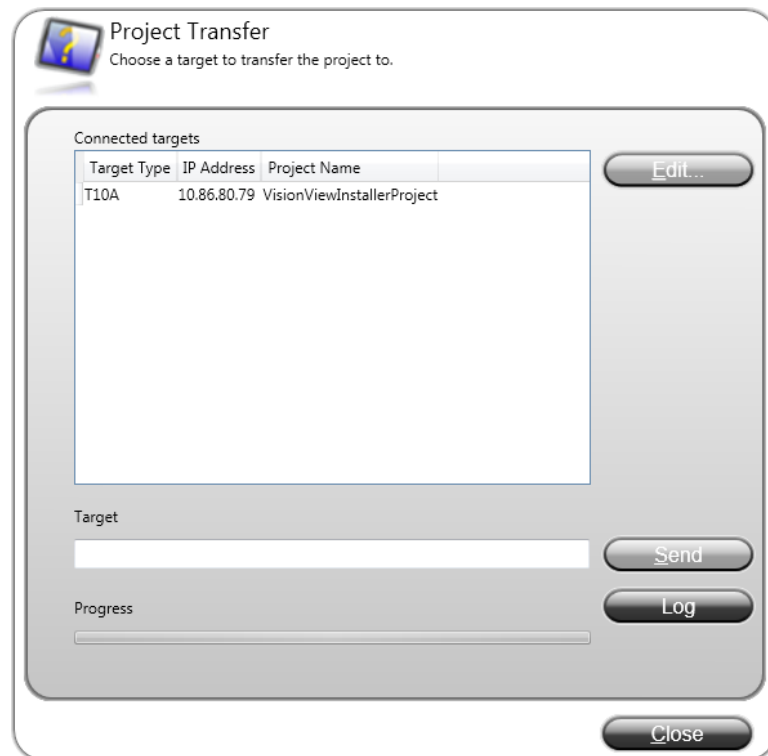


Figure 2-1: Project Transfer Dialog

3. Select the panel to install the software.

4. Click the **Send** button to start the transfer.
5. Once the transfer is successfully completed, the panel restarts and the VisionView Installer screen appears.
6. From the panel, click the **Install VisionView** button to install the VisionView application and its related components to the panel.

Note: The VisionView application is installed to the following location: \FlashDrive\VisionView.

Install the Project to the Panel

There are two projects available to launch the VisionView application on the HMI panel: AutoRun or Integration Sample. The AutoRun project allows you to launch the VisionView application automatically when the panel starts. When using this project, VisionView is the only application run on the panel and has more free memory compared to the Integration Sample project; however, VisionView's screen size and mode cannot be customized. The Integration Sample project allows you to launch the VisionView application manually by clicking the button. When using this project, VisionView's screen size and mode can be customized using command line arguments; however, less free memory is available compared to the AutoRun project.

AutoRun Project

1. From the PC, navigate to the **TransferClient.exe** file contained in the AutoRun folder (the default location is C:\Program Files (x86)\Cognex\VisionView\CE-SL x.x.x\Beijer\Tools for Panel\AutoRun\T10A\Transfer Package).
2. Double-click the **TransferClient.exe** file to open the Project Transfer dialog that automatically displays the available HMI panels on the network.
3. Select the panel to install the AutoRun project.
4. Click the **Send** button to start the transfer.
5. Once the transfer is successfully completed, the panel restarts. The VisionView application is also launched on the panel automatically at the startup.

Note: When using the AutoRun project, VisionView is always launched in full-screen and topmost mode, without a windows frame.

Integration Sample Project

Note:

- You need to install the iXDeveloper software 1.3.1 to the PC to use this project.
- When attempting to open the Integration Sample project using iXDeveloper on Windows Vista or Windows 7 and the PC's User Account Control (UAC) is enabled, an error message is displayed and iXDeveloper may shut down unexpectedly. In this case, do the one of the following to open the project successfully:



- Disable UAC before launching iXDeveloper.
- Right-click the iXDeveloper desktop shortcut icon and select the **Run as administrator** option to open iXDeveloper.
- Copy the Integration Sample folder (the default location is C:\Program Files (x86)\Cognex\VisionView\CE-SL x.x.x\Beijer\Tools for Panel\) to a location outside of the Program Files folder, and open the Integration Sample project from the copied folder.

1. From the PC, launch iXDeveloper (typically found by clicking *Start menu > All Programs > iXDeveloper >*

iXDeveloper).

2. Open the **VisionViewIntegrationSample.neoproj** file contained in the Integration Sample folder (the default location is C:\Program Files (x86)\Cognex\VisionView\CE-SL x.x.x\Beijer\Tools for Panel\Integration Sample\T10A).
3. Select the **Actions Ribbon** tab.
4. Select the **Run** option within the Others group from the Select Action drop-down list. The Enter Executable and Enter Arguments fields appear within the same group box.
5. Enter **Program Files\VisionView\VisionView.exe** in the Enter Executable field.
6. Optionally enter command line arguments in the Enter Arguments field to specify VisionView's size and/or mode.

Note: For more information on command line arguments, refer to [Command Line Arguments on page 6](#).

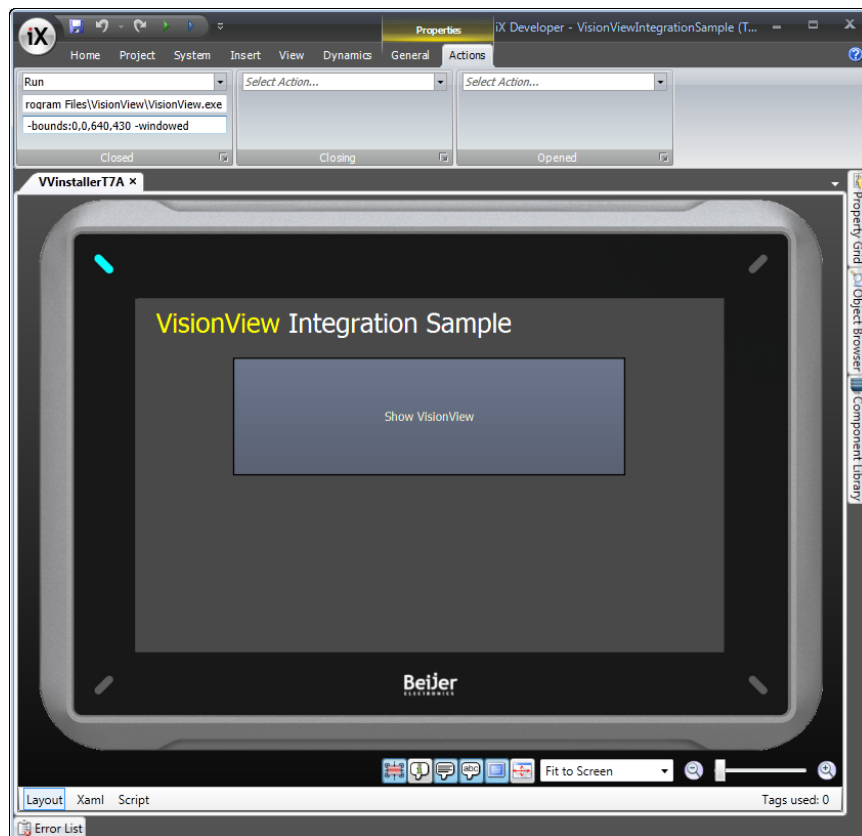


Figure 2-2: VisionView Integration Sample Screen

7. Save changes by pressing CTRL+S.
8. Open the **Project Ribbon** tab.
9. Click the **Transfer** button to open the Project Transfer dialog that automatically displays the available HMI panels on the network.
10. Select the panel to install the VisionView Integration Sample project.
11. Click the **Send** button to start the transfer.

12. Once the transfer is successfully completed, the panel restarts and the VisionView Integration Sample screen appears.

Note: If the AutoRun project has previously been installed to the panel, the panel does not restart automatically. You need to restart the panel manually to display the VisionView Integration Sample screen.

13. From the panel, click the **Show VisionView** button. You can now launch VisionView on the panel.

Command Line Arguments

By default, when the VisionView application is launched in full-screen and topmost mode, without a windowed frame. The following optional command line arguments may be specified in the Enter Arguments field to launch the VisionView application in different modes.

Table 2-1: Arguments

Argument	Description
-bounds:x,y,w,h	Launches the VisionView application as a sub-region of the screen. The x and y values represent the coordinate positioning of the screen. The w and h values represent the pixel height and width of the screen. Minimum values: 640 (width) and 430 (height).
-windowed	Launches the VisionView application with a windowed frame that has Minimize, Maximize and Close buttons. In this mode, the VisionView application's Minimum and Close buttons (displayed in the lower right of the Run Mode screen) are not displayed. The VisionView application is allowed to be hidden behind other windows.
-nottopmost	The VisionView application is allowed to be hidden behind other windows.
-nomimize	The VisionView application's Minimize button (displayed in the lower right of the Run Mode screen) is not displayed.

Note:

- If the command line argument is not formatted properly, the VisionView application will ignore it.
- If more than one argument is specified, they must be separated with a space. For example, when "-bounds:x,y,w,h" and "-windowed" arguments are specified, the Arguments should be: -bounds:0,0,640,430 -windowed.
- When specifying the bounds, spaces are not permitted within the argument. If less than the minimum value is specified for the width and/or height, VisionView uses the minimum value for the screen size. For example, if "-bounds:0,0,600,430" is specified, the screen size will be 640 x 430.
- When the VisionView application is launched using the "-windowed" command line argument and not maximized, the window may be moved. However, if moved, it may not be resized dynamically and the Minimize and Close buttons will not be displayed within the VisionView application.

License

License the VisionView Application

To deploy the VisionView application on the panel, you must purchase and install a license. To install a license, launch the VisionView application, click the green key button in the Cognex VisionView Setup screen, enter the Activation ID provided by Cognex in the Enter the Activation ID screen, and click **OK**.

