

ProHawk Vision Server Quick Start Guide

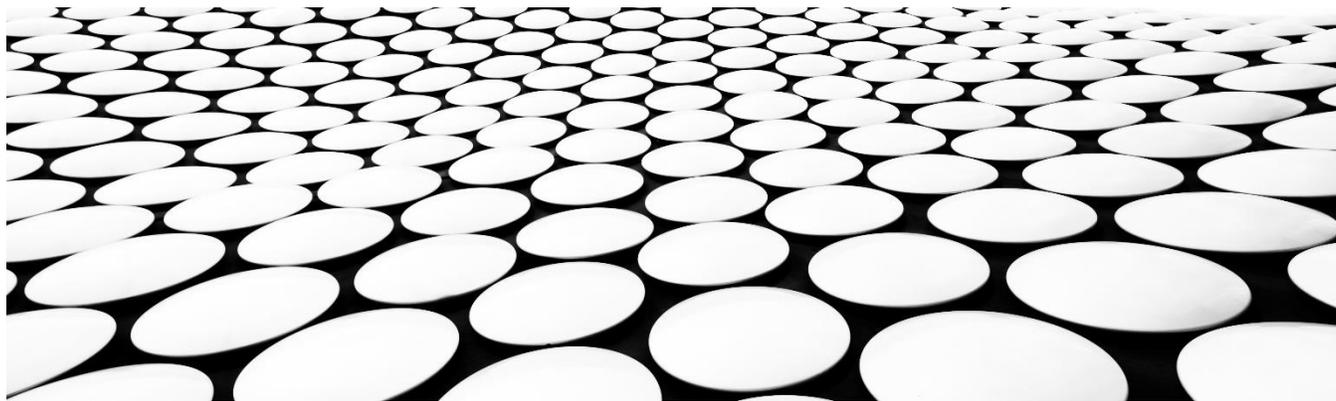


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1 Introduction

The ProHawk® Vision Server application Quick Start Guide provides an overview for the ProHawk Vision Server Application on how setup and configure them. We have tried to make this overview clear, easy to understand, and informative. We value the relationship that we have with our users and believe this guide will be valuable in expediting the setup of the Tools.

ProHawk Vision Server receives video from a live RTP/RTSP camera stream to improve. ProHawk Vision Server provides various computer vision restoration preset and detailed enhancement parameters that can be changed by accessing the browser based Graphical User Interface (GUI). One-Click filter preset radio buttons assist users in clarifying challenging visual conditions. ProHawk Vision Server advanced filters settings allow users to adjust the ProHawk parameters individually. These are specific adjustments that may have an impact on details to be revealed.

Once the video stream is selected, ProHawk Vision Server provides several options to view the original and/or improved picture or video: Improved; Original and improved picture or video side-by-side; Improved with original preview.

The ProHawk Vision Server Client GUI provides media player controls for video control and record capabilities. This allows users to Play, Pause, Stop, or Record the input video.

ProHawk Vision Server outputs the computer vision restored video through an RTSP stream on a web server port.

The ProHawk Vision Milestone XProtect Smart Client Plugin is designed to directly integrate with Milestone XProtect Smart Client. The features and functions are similar or the same as the ProHawk Vision Server Client GUI application.

This is the v6.0.0 release of the ProHawk Vision Server application.

2 System Requirements

Following are the systems requirements for the ProHawk Vision Server application to operate properly:

- 64-bit Multicore CPU
- 8GB RAM (16GB or more recommended)
- Windows Server 2012, Windows Server 2016, Windows Server 201, or Windows Server 2022
- NVIDIA Quadro, Tesla, GRID, GeForce, or RTX products with Kepler, Maxwell, Pascal, Turing, Volta or Ampere generation GPUs

The ProHawk Vision Server application includes and requires the following external libraries:

- Microsoft Visual C++ 2015-2019 Redistributable (x64) runtime
- Microsoft .NET Framework 4.8 Redistributable
- NVIDIA CUDA 11.0
- OpenCV 4.4.0 – OpenCV 4.4.0 and lower versions are licensed under the 3-clause BSD license. See license information at <https://opencv.org/license/>
- Poco 1.7.7 - POCO C++ libraries distributed under the Boost Software License, Version 1.0. See license file at https://www.boost.org/LICENSE_1_0.txt
- FFmpeg - This software uses libraries of [FFmpeg](#) licensed under the [LGPLv2.1](#)

The ProHawk Vision Server application supports 64-bit x64 architectures. The ProHawk Vision Server Application does not support 32-bit x86 architectures.

3 Installer

First, open the installer with the file ProHawk Vision Server Setup.exe.

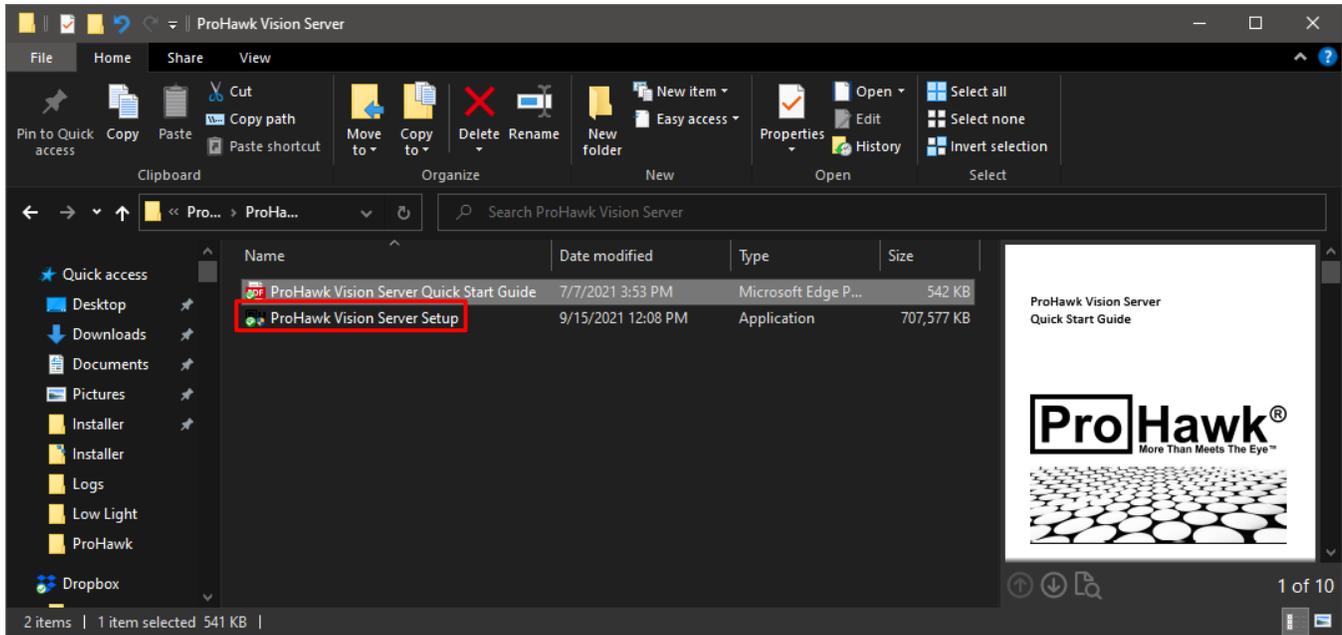


Figure 1

3.1 Welcome

Once opened the Installation Wizard will begin to guide you through the installation process. (Figure 2)

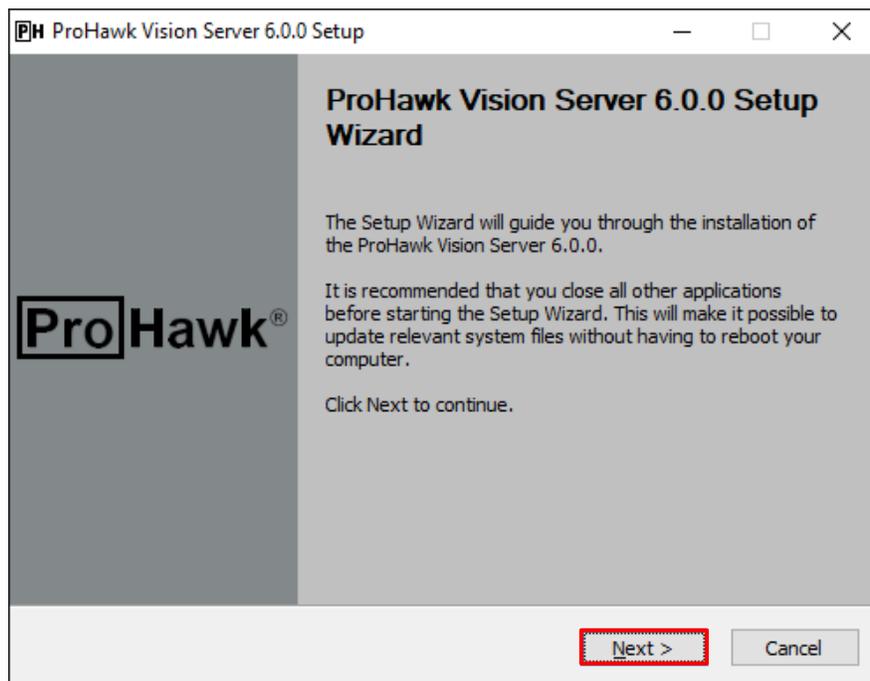


Figure 2

3.2 License Key

Enter the 25-character license key, then *click* the **Next >** button. (Figure 3)

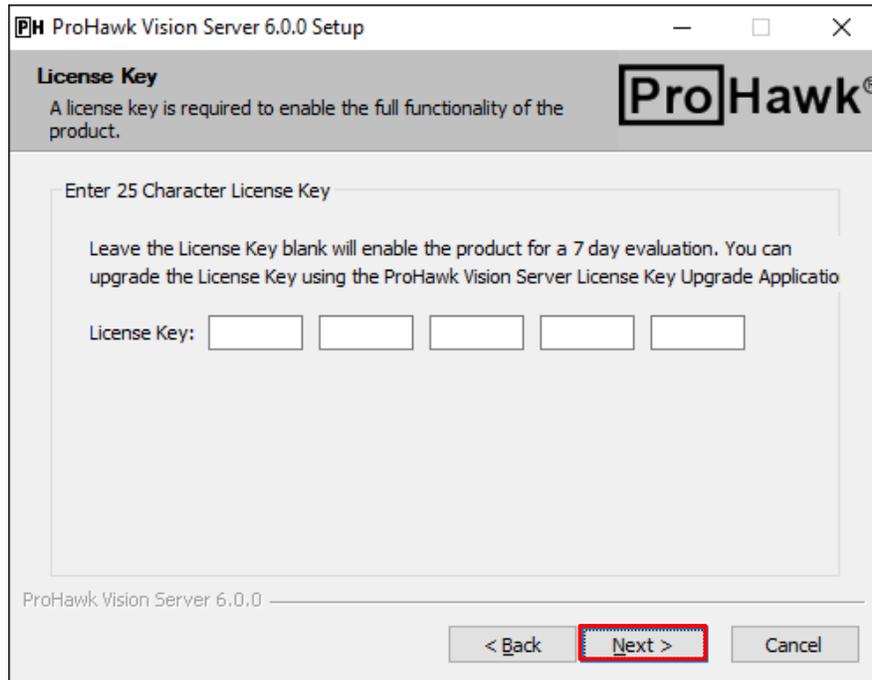


Figure 3

3.3 License Agreement

After *clicking* the **Next >** button on the Welcome page, the license agreement will appear. (Figure 4)

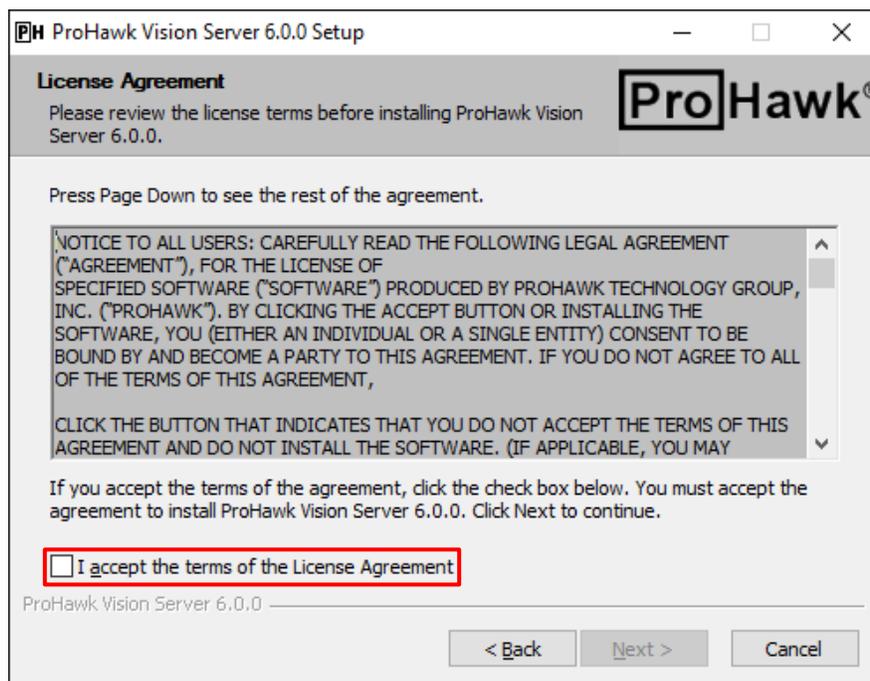


Figure 4

The license agreement must be accepted to continue with the installation and *clicking* the **Next >** button. (Figure 5)

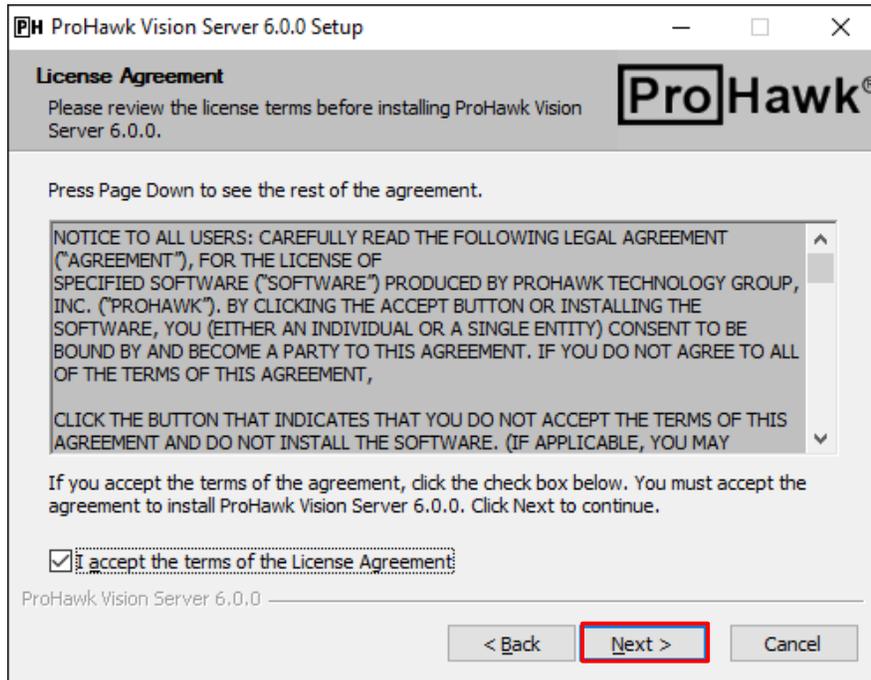


Figure 5

3.4 Choose Components

You will then be brought to the component selection dialog, *click* on the **Next >** button. (Figure 6)

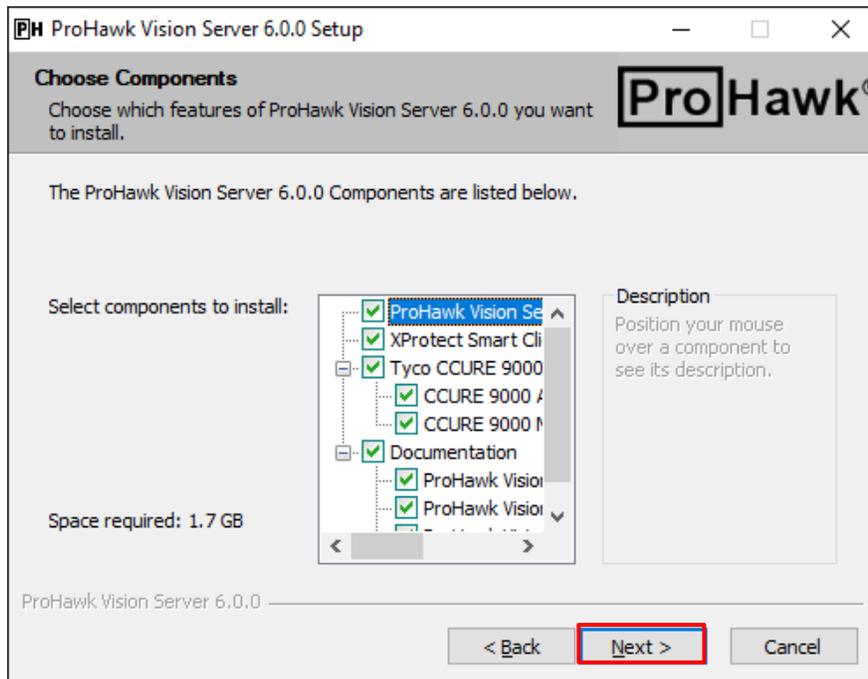


Figure 6

3.5 Install Location

The next screen will ask you to select a location to install the application. Select a destination then *click* the **Next >** button to continue. (Figure 7)

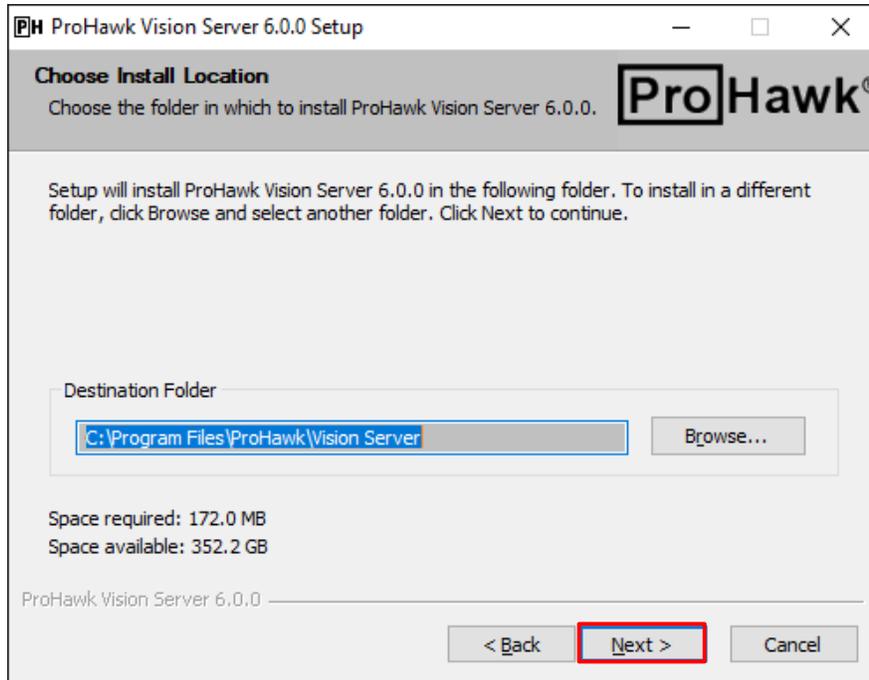


Figure 7

3.6 Milestone XProtect Smart Client Plugin Install Location

If the ProHawk Vision Milestone XProtect Smart Client Plug-in is selected, the system will ask you to select a location to install the application. Select a destination then *click* **Next >** to continue. (Figure 8)

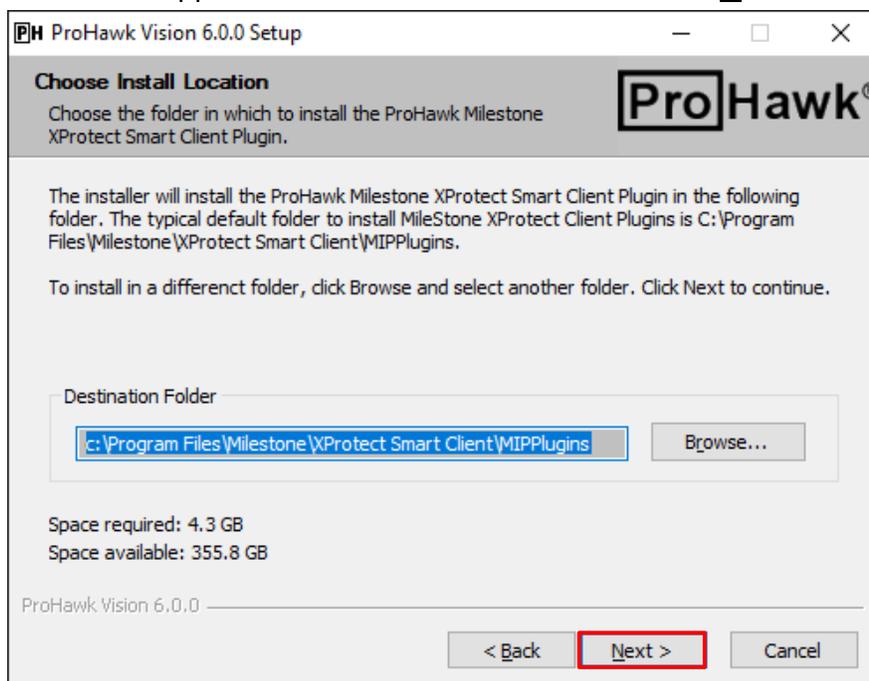


Figure 8

3.7 Tyco CCure 9000 Plugins Install Locations

If the ProHawk Vision Tyco CCure 9000 Plug-in(s) are selected, the system will ask you to select a location to install the application plug-in(s).

3.7.1 Tyco CCure 9000 Administration Workstation Plugin Install Location

Select a destination folder for the CCure 9000 Administration Workstation Plugin, then *click* **Next >** to continue. (Figure 9)

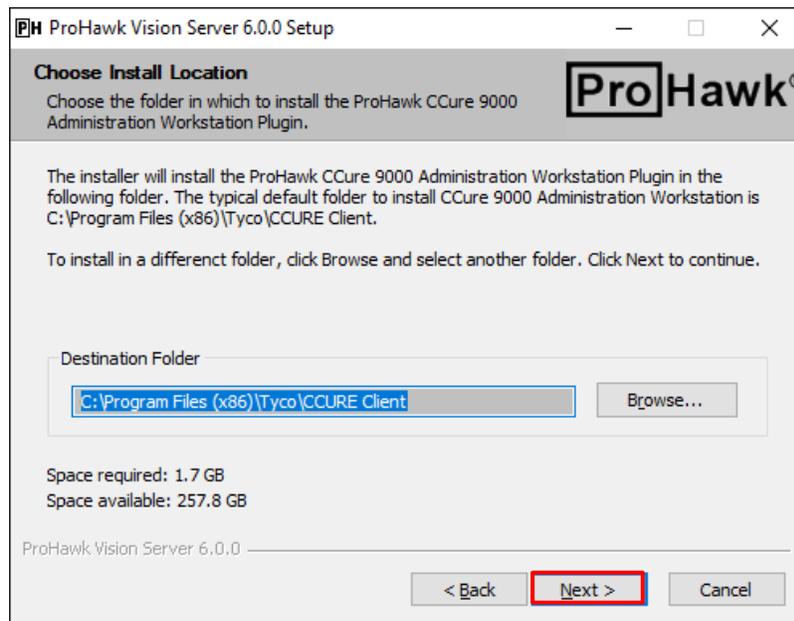


Figure 9

3.7.2 Tyco CCure 9000 Administration Workstation Plugin Install Location

Select a destination folder for the CCure 9000 Administration Workstation Plugin, then *click* **Next >** to continue. (Figure 10)

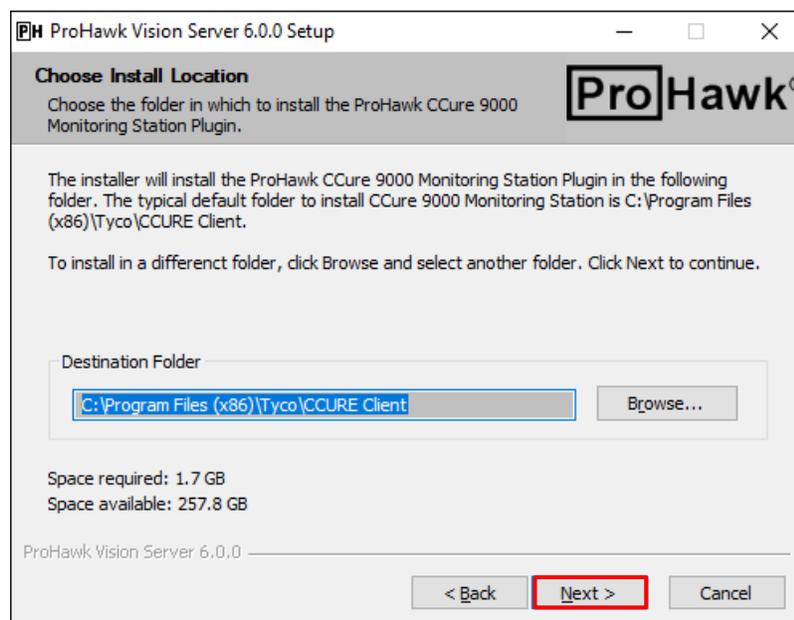
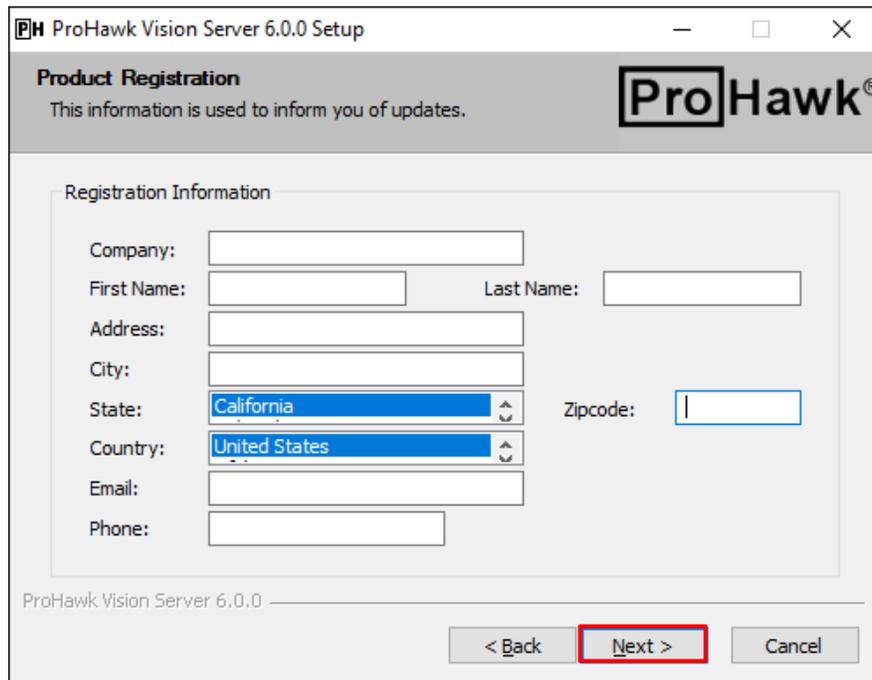


Figure 10

3.8 Product Registration

Fill in the registration information form, then *click* the **Next >** button to continue. (Figure 11)

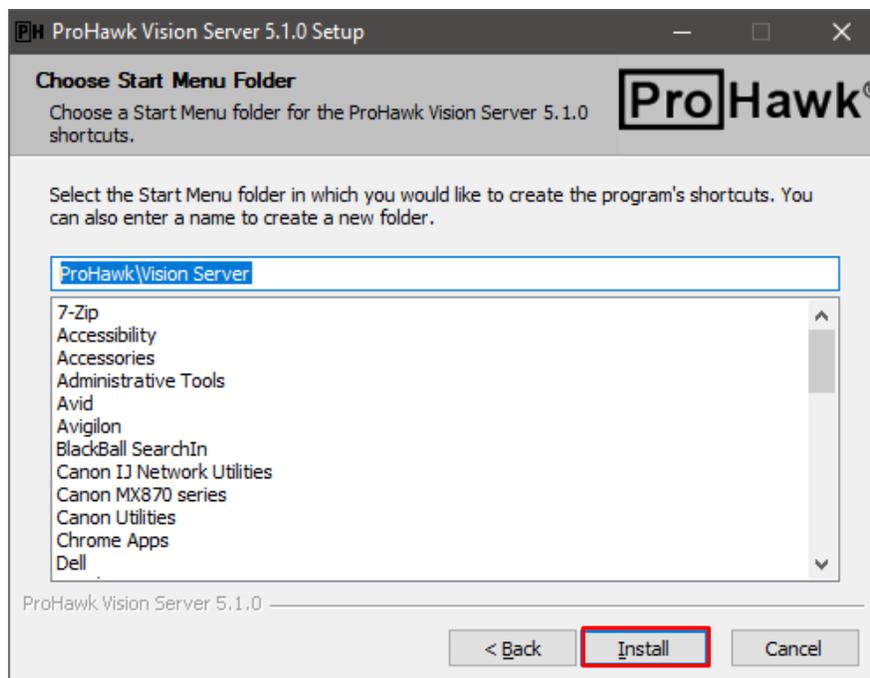


The screenshot shows the 'Product Registration' window for ProHawk Vision Server 6.0.0. The window title is 'ProHawk Vision Server 6.0.0 Setup'. The main heading is 'Product Registration' with a sub-heading 'This information is used to inform you of updates.' and the ProHawk logo. The 'Registration Information' section contains the following fields: Company (text box), First Name (text box), Last Name (text box), Address (text box), City (text box), State (dropdown menu with 'California' selected), Zipcode (text box), Country (dropdown menu with 'United States' selected), Email (text box), and Phone (text box). At the bottom, there are three buttons: '< Back', 'Next >' (highlighted with a red box), and 'Cancel'. The version 'ProHawk Vision Server 6.0.0' is displayed at the bottom left.

Figure 11

3.9 Start Menu Folder

Before installation begins the installer will ask you to select a start menu folder. Choose the destination then *click* the **Install** button to begin the installation. (Figure 12)



The screenshot shows the 'Choose Start Menu Folder' window for ProHawk Vision Server 5.1.0. The window title is 'ProHawk Vision Server 5.1.0 Setup'. The main heading is 'Choose Start Menu Folder' with a sub-heading 'Choose a Start Menu folder for the ProHawk Vision Server 5.1.0 shortcuts.' and the ProHawk logo. Below the heading, it says 'Select the Start Menu folder in which you would like to create the program's shortcuts. You can also enter a name to create a new folder.' There is a text box containing 'ProHawk\Vision Server' and a list box showing various folders: 7-Zip, Accessibility, Accessories, Administrative Tools, Avid, Avigilon, BlackBall SearchIn, Canon IJ Network Utilities, Canon MX870 series, Canon Utilities, Chrome Apps, and Dell. At the bottom, there are three buttons: '< Back', 'Install' (highlighted with a red box), and 'Cancel'. The version 'ProHawk Vision Server 5.1.0' is displayed at the bottom left.

Figure 12

3.10 Progress

The Installer will display a progress window of the installation taking place. (Figure 13)

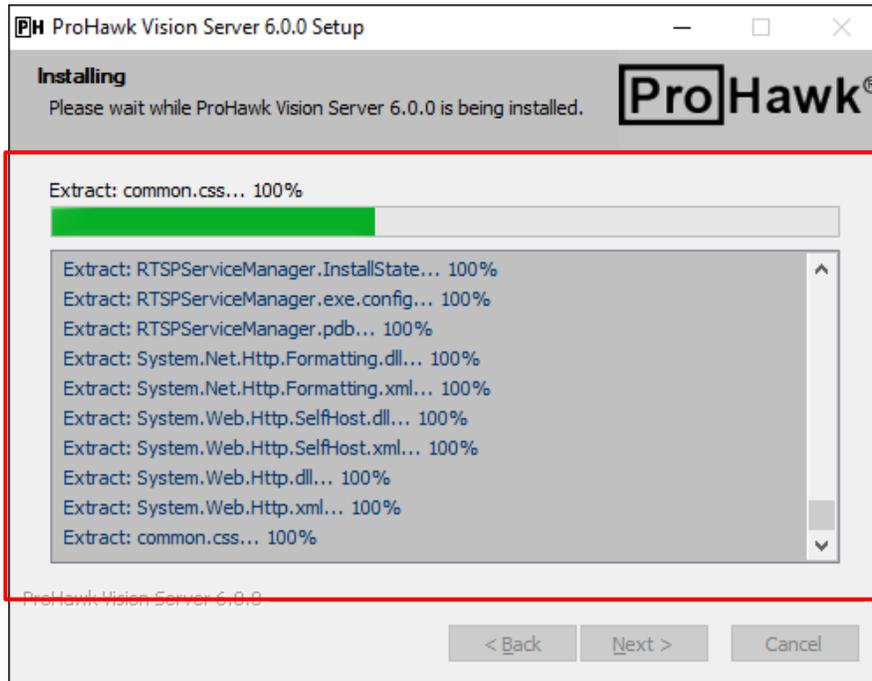


Figure 13

3.11 TCP Ports Used

ProHawk Vision Server uses various ports to function properly. Ports 44324 & 44325 are used by the ProHawk Vision Server Client and ProHawk Vision Server Manager respectively. The dialog below indicates that these ports need to be opened, *click* on the **Yes** button to continue. (Figure 14)

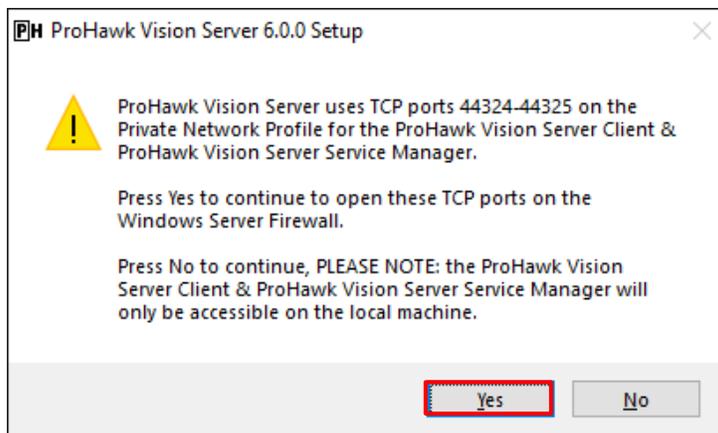


Figure 14

3.12 Firewall Ports Used

ProHawk Vision Server ProHawkRTSP.exe service uses a firewall port to function properly. The dialog below indicates that these ports need to be opened, *click* on the **Yes** button to continue. (Figure 15)

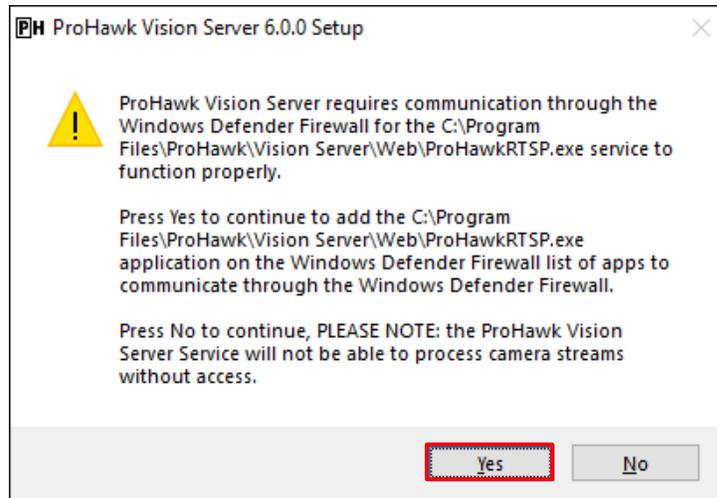


Figure 15

3.13 Enable IIS

ProHawk Vision Server uses Microsoft Internet Information Server as the web server for operating the ProHawk Vision Server Client and ProHawk Vision Server Manager. DISM will be called to enable the Windows IIS feature, as seen below. (Figure 16)

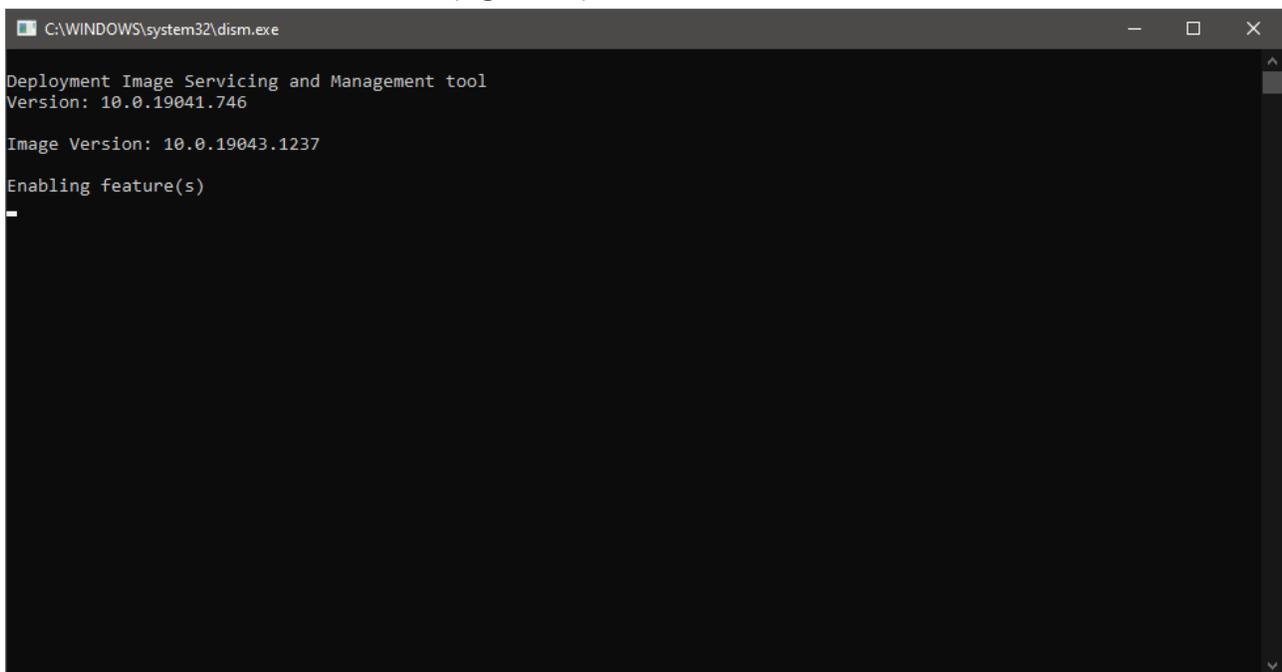


Figure 16

3.14 Start ProHawk Vision Server Service

The ProHawk Vision Server Install will automatically start the ProHawk Vision Server Service. (Figure 17)
The ProHawk Vision Server Service will automatically start on start-up.

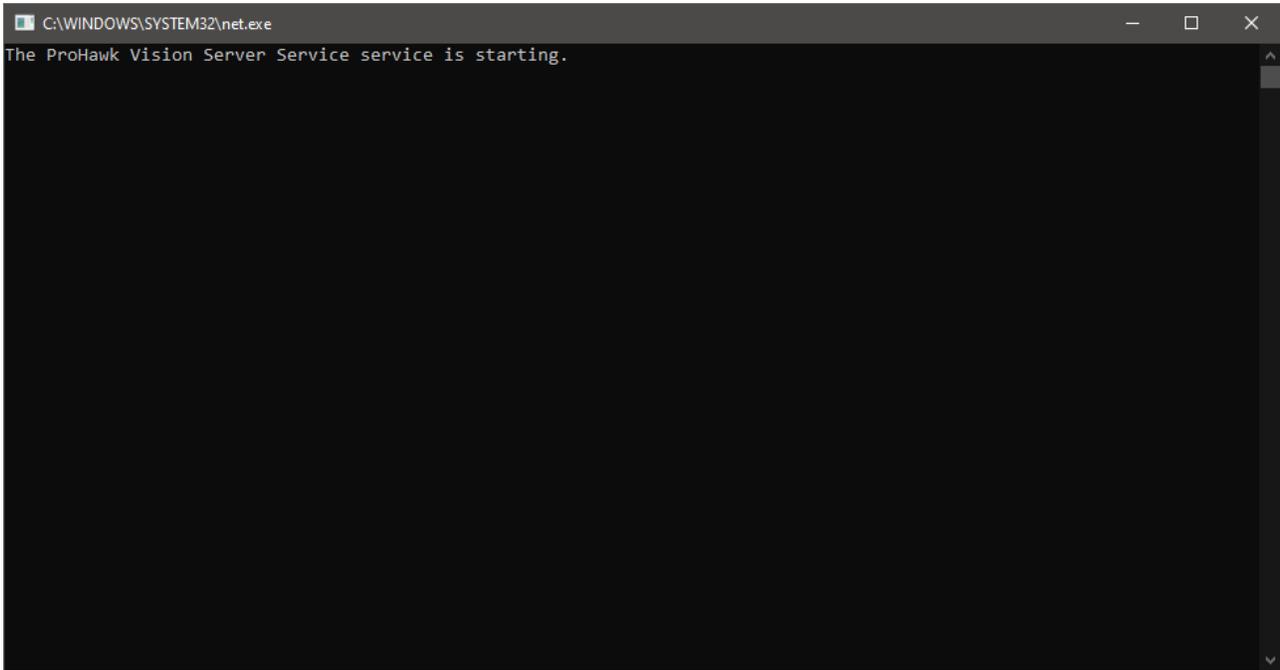


Figure 17

3.15 Finish

The Display Release Notes checkbox will open the release notes in Notepad to display the contents. Once the installation is complete the product will be ready to use. Click on the **Finish** button to begin using ProHawk Vision Server to restore and clarify your live RTSP video streams. (Figure 18)

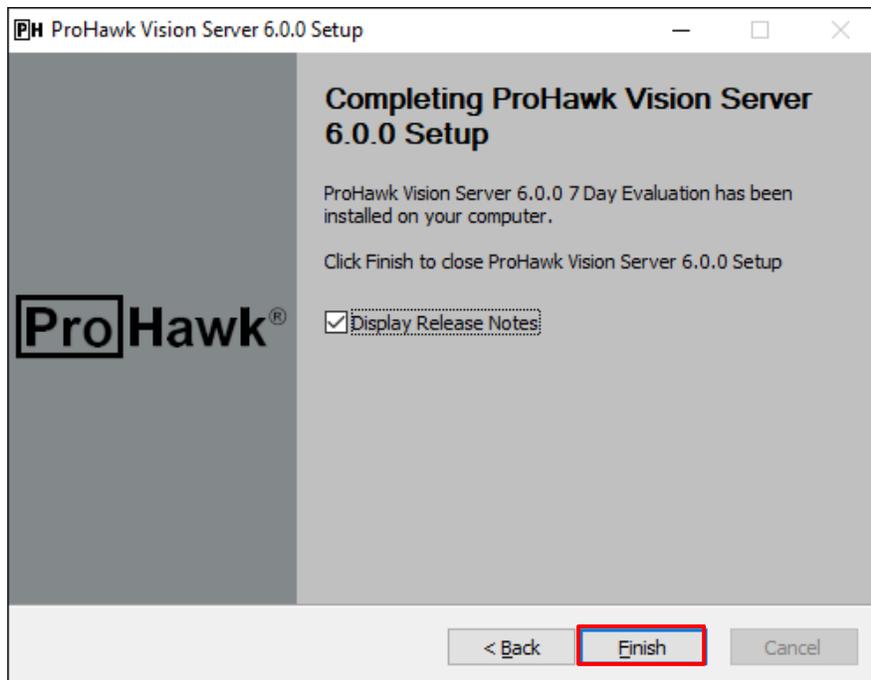


Figure 18

3.16 Directories

There will be several directories created after extracting the ProHawk Vision Server setup into the C:\Program Files\ProHawk\Vision Server main folder. If you selected the ProHawk Vision Milestone XProtect Smart Client Plugin, the plugin files will be installed by default into the Milestone\XProtect Smart Client\MIPPlugins\ProHawk.InstantVisualClarity.Plugin directory. Following are the folders and their descriptions:

Folder	Description
docs	Documentation files: ProHawk Vision Server Users Guide.pdf.
VisionServerClientService	A folder containing the ProHawk Vision Server client and associated files.
VisionServerService	A folder containing the ProHawk Vision Server web server service and associated files.
Web	Runtime client web page files.
C:\Milestone\XProtect Smart Client\MIPPlugins\ProHawk.InstantVisualClarity.Plugin	A folder containing the ProHawk Vision Milestone XProtect Smart Client Plugin and associated files and folders to run. This is typically located off the Milestone\XProtect Smart Client\MIPPlugins directory