

ProHawk Vision
Quick Start Guide

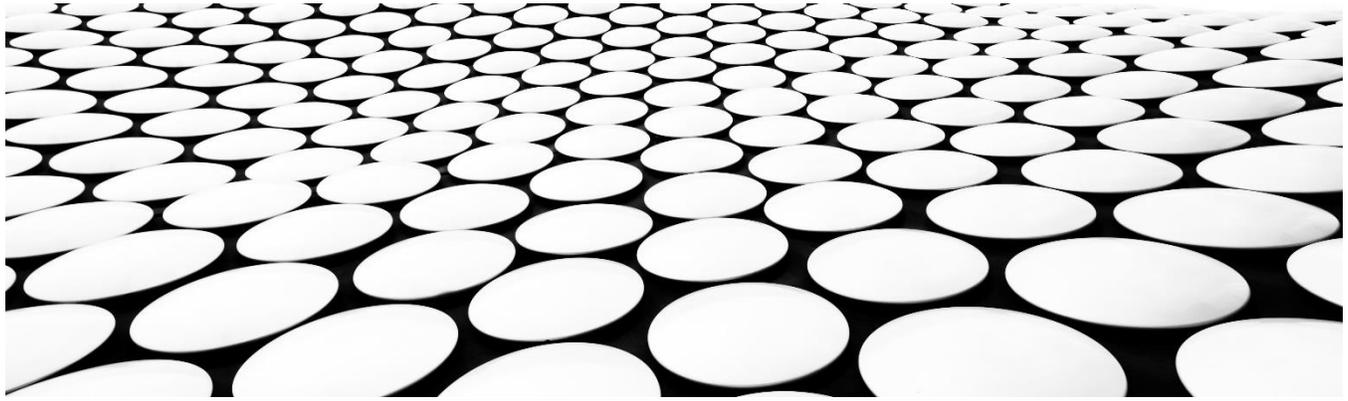


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1 Introduction

The ProHawk® Vision Quick Start Guide provides an overview on how to setup and configure the ProHawk Vision Windows application. 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. This is the v6.0.0 release of the ProHawk Vision Windows application.

ProHawk Vision receives video from a recorded file, live RTP/RTSP camera stream, or a Milestone XProtect VMS Server to improve. ProHawk Vision provides various computer vision restoration preset and detailed enhancement parameters that can be changed by accessing the Windows User Interface. The new ProHawk Vision automatic restoration and one-click filter preset radio buttons assist users in clarifying challenging visual conditions. ProHawk Vision computer vision 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 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 current video frame or picture can be saved to the Windows clipboard and users Pictures\ProHawk folder on both video ProHawk improved and original stream types. The ProHawk Vision Windows Application provides media player controls for video control and record capabilities. This allows users to Play, Pause, Forward, Rewind, Stop, or Record the input video. The improved video can also be recorded to a file for future use.

2 System Requirements

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

- 64-bit Multicore CPU
- 8GB RAM (16GB or more recommended)
- MS-Windows 7, MS-Windows 10 or MS-Windows 11
- NVIDIA Quadro, Tesla, GRID, GeForce, or RTX products with Kepler, Maxwell, Pascal, Turing, Volta or Ampere generation GPUs

ProHawk Vision 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/>
- FFmpeg - This software uses libraries of [FFmpeg](#) licensed under the [LGPLv2.1](#)

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

3 Installer

Open the installer by *clicking* the **ProHawk Vision Setup.exe** file. (Figure 1)

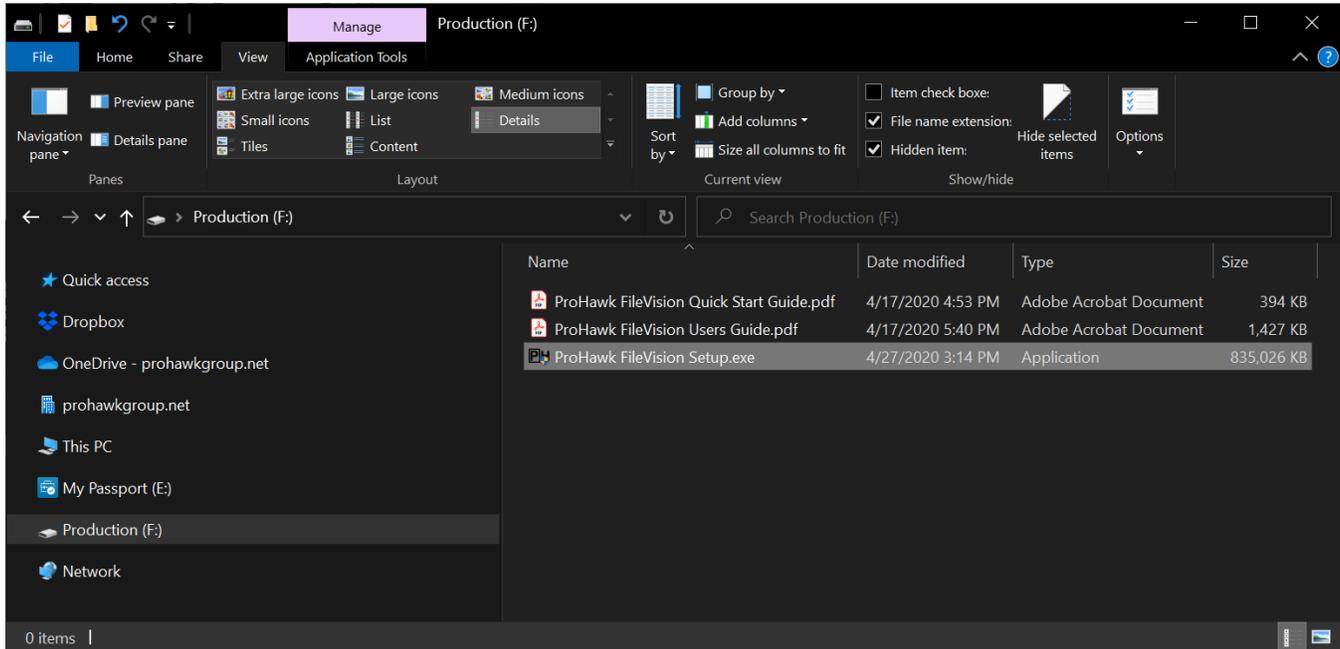


Figure 1

3.1 Language Selection

Once opened, the installer will prompt for the language to install. Select the appropriate language and *Click* on **OK** to continue. (Figure 2)

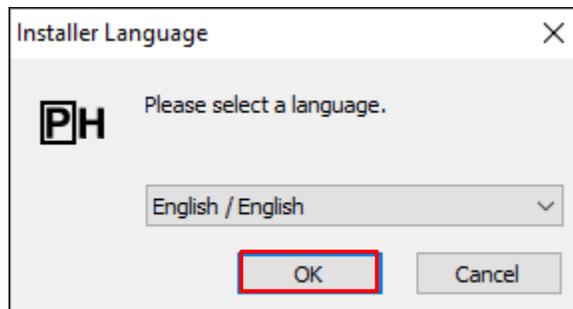


Figure 2

3.2 Welcome

Once opened, the Installation Wizard will begin to guide you through the installation process. *Click the **Next >** button to continue.* (Figure 3)

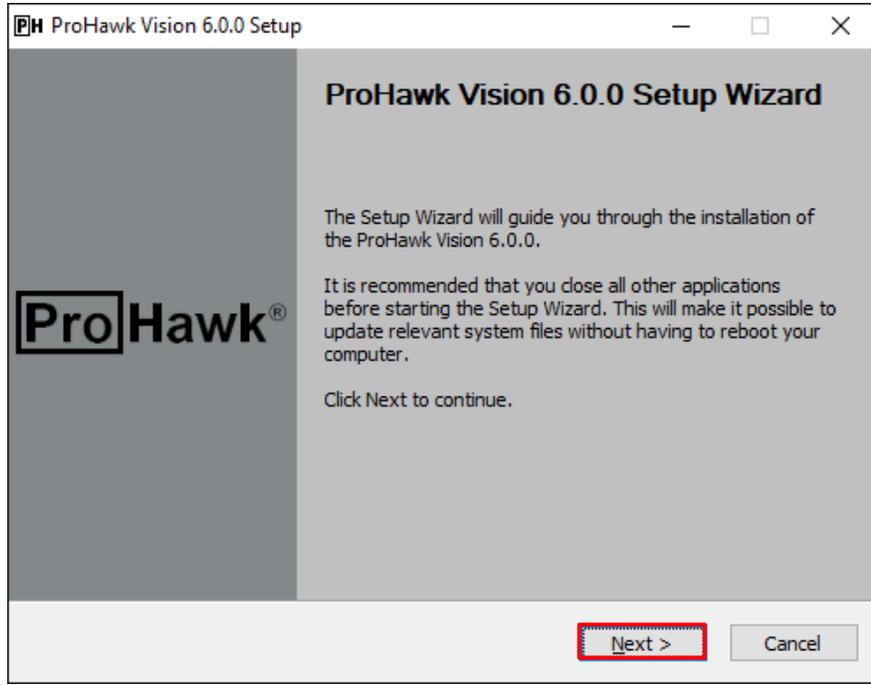


Figure 3

3.3 License Key

Enter the 25-character license key, then *click the **Next >** button.* (Figure 4)

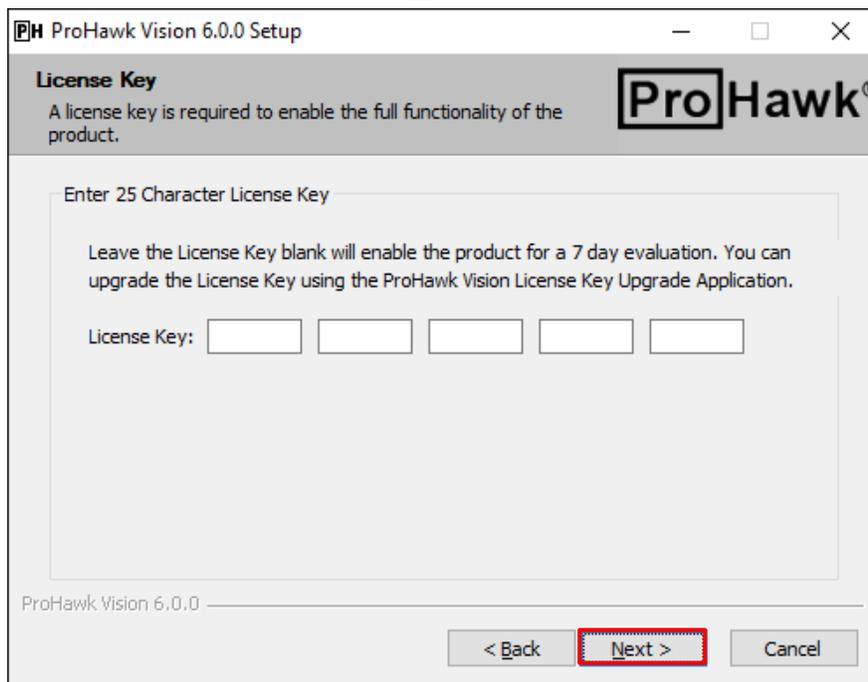


Figure 4

3.4 License Agreement

After *clicking* the **Next >** button at the bottom of the dialog, the license agreement dialog will appear. (Figure 5)

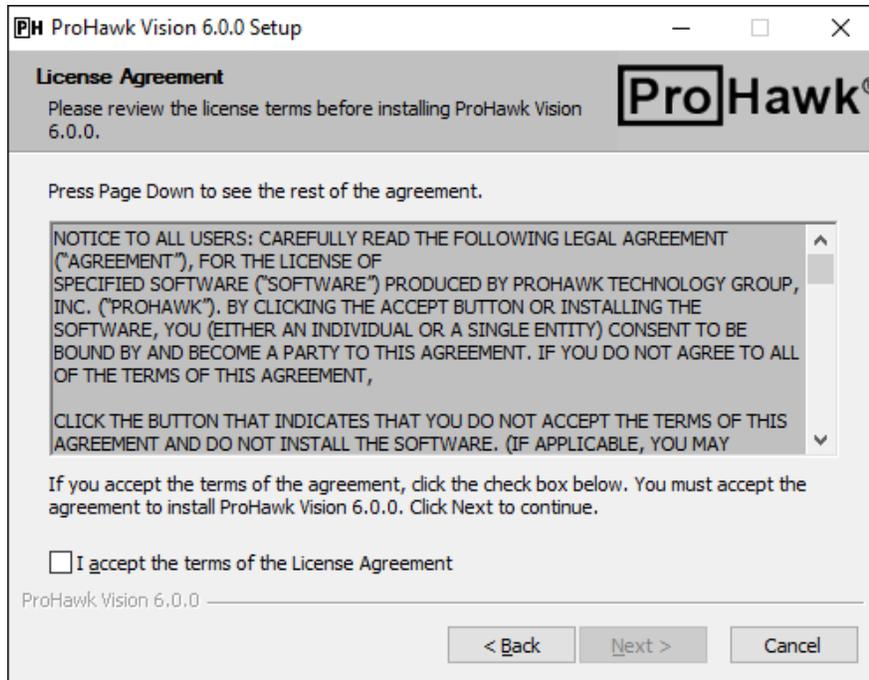


Figure 5

The license agreement must be accepted to continue with the installation. *Click* the **check box** to accept the agreement, then *click* the **Next >** button to continue. (Figure 6)

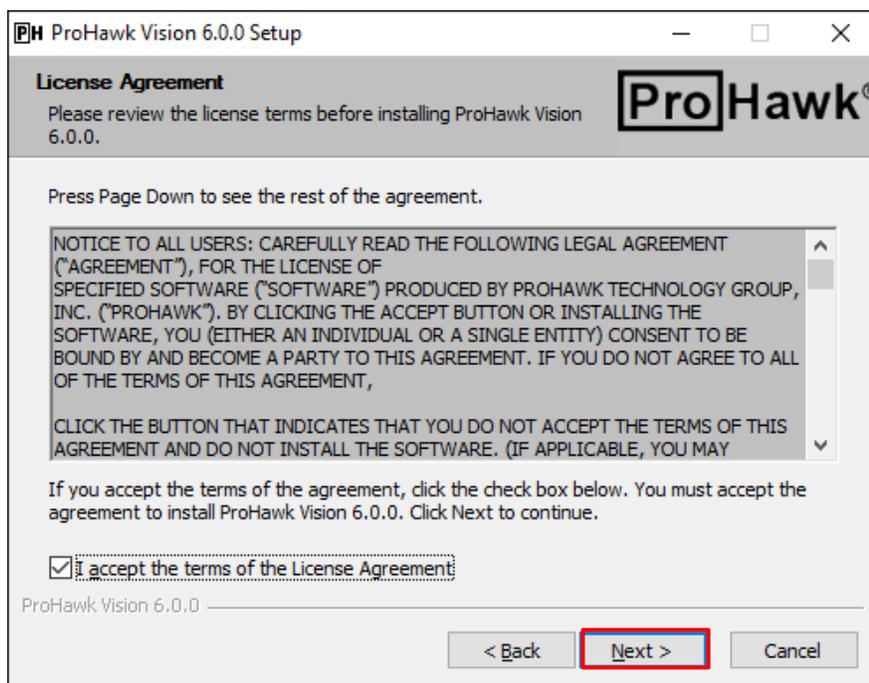


Figure 6

3.5 Components

The component selection dialog allows you to select components to install. *Click* the **checkboxes** for all three items., then *click* the **Next >** button to continue. (Figure 7)

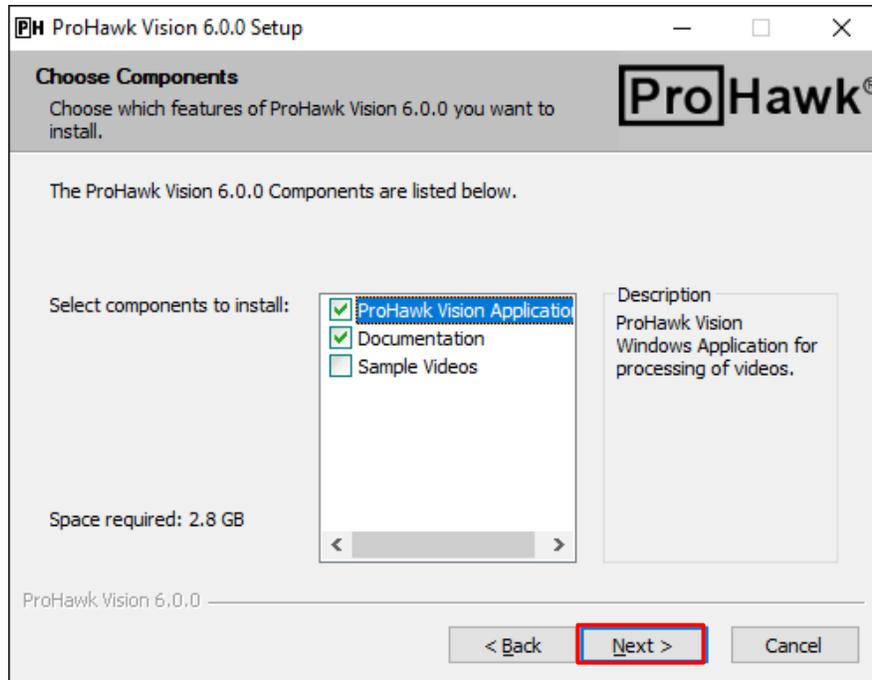


Figure 7

3.6 Install Location

The next screen will offer a destination folder to install the application, or you can select another. Then *click* the **Next >** button to continue. (Figure 8)

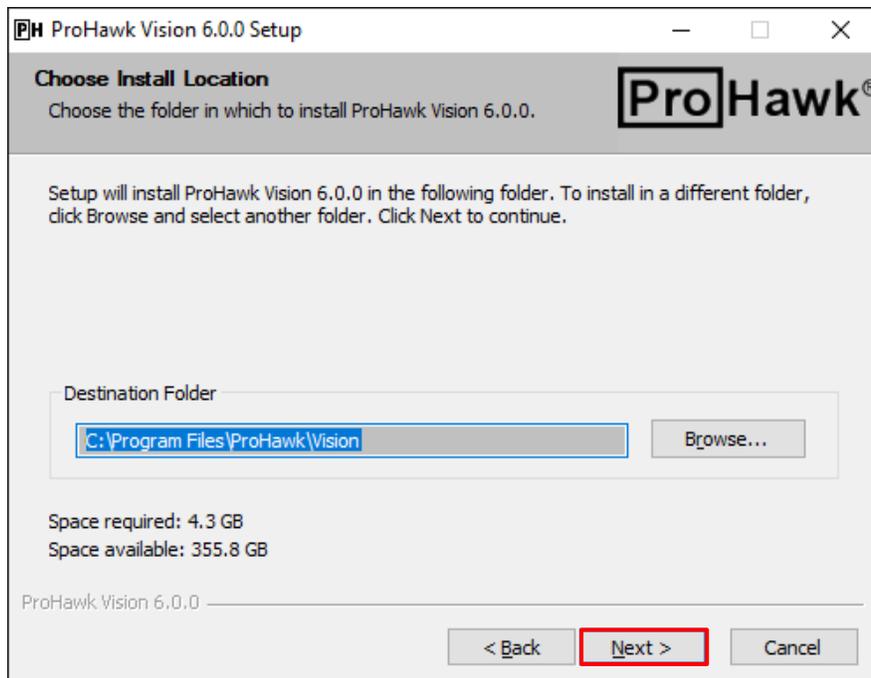
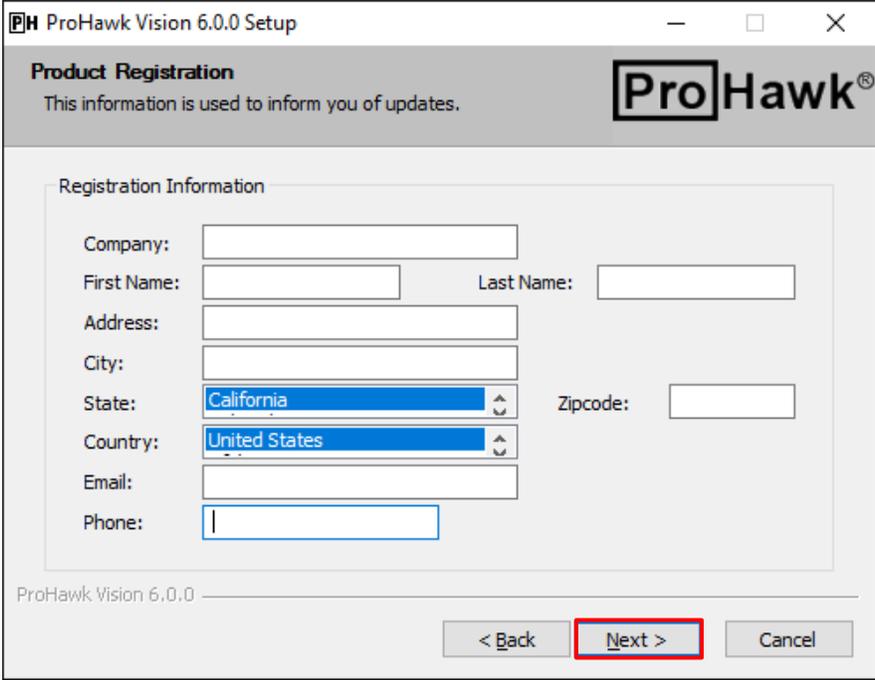


Figure 8

3.7 Product Registration

Fill in the registration information form, then *click* the **Next >** button to continue. (Figure 10)

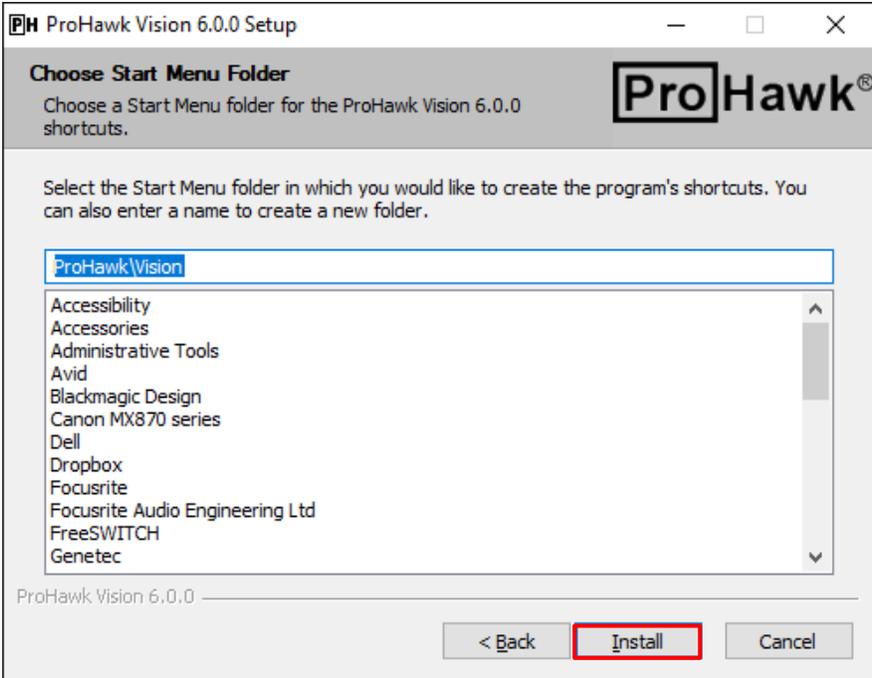


The screenshot shows the 'Product Registration' window of the ProHawk Vision 6.0.0 Setup. The window title is 'ProHawk Vision 6.0.0 Setup'. The main heading is 'Product Registration' with a sub-heading 'This information is used to inform you of updates.' and the ProHawk logo. The 'Registration Information' 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 showing 'California'), Country (dropdown menu showing 'United States'), Zipcode (text box), 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 6.0.0' is displayed in the bottom left corner.

Figure 10

3.8 Start Menu Folder

Before installation begins, the installer will ask you to select a start menu folder. Use the folder that is offered or select another, then *click* the **Install >** button to continue. (Figure 11)



The screenshot shows the 'Choose Start Menu Folder' window of the ProHawk Vision 6.0.0 Setup. The window title is 'ProHawk Vision 6.0.0 Setup'. The main heading is 'Choose Start Menu Folder' with a sub-heading 'Choose a Start Menu folder for the ProHawk Vision 6.0.0 shortcuts.' and the ProHawk logo. The text below reads: '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 input field containing 'ProHawk\Vision'. Below it is a list box with the following items: Accessibility, Accessories, Administrative Tools, Avid, Blackmagic Design, Canon MX870 series, Dell, Dropbox, Focusrite, Focusrite Audio Engineering Ltd, FreeSWITCH, and Genetec. At the bottom, there are three buttons: '< Back', 'Install >' (highlighted with a red box), and 'Cancel'. The version 'ProHawk Vision 6.0.0' is displayed in the bottom left corner.

Figure 11

3.9 Progress

The Installer will display a progress window of the installation taking place. (Figure 12)

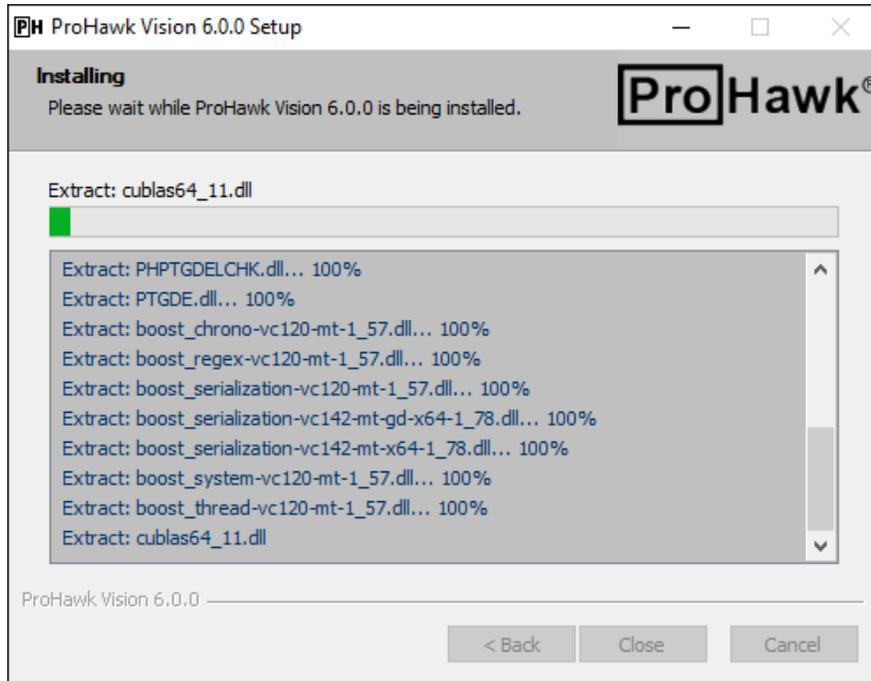


Figure 12

3.10 Sample Video Progress

If the sample video component was selected, the system will require an active internet connection to download the sample video files from the ProHawk website to your local system. (Figure 13)

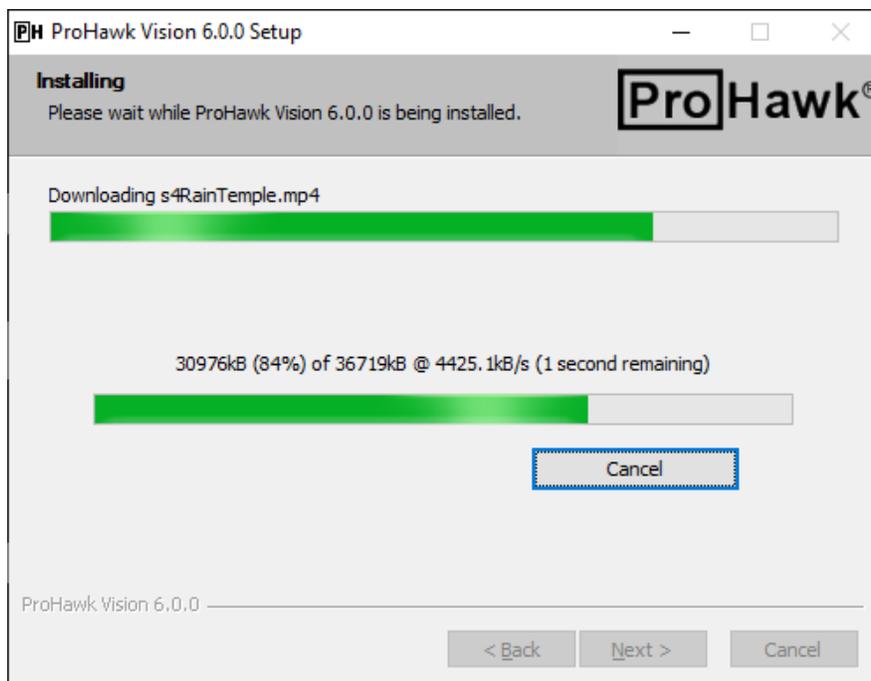


Figure 13

3.11 Finish

Once you have reached the final dialog, the product installation is complete. *Click* the Display Release Notes **checkbox** to view when done. *Click* on the **Finish** button to complete the installation. (Figure 14)

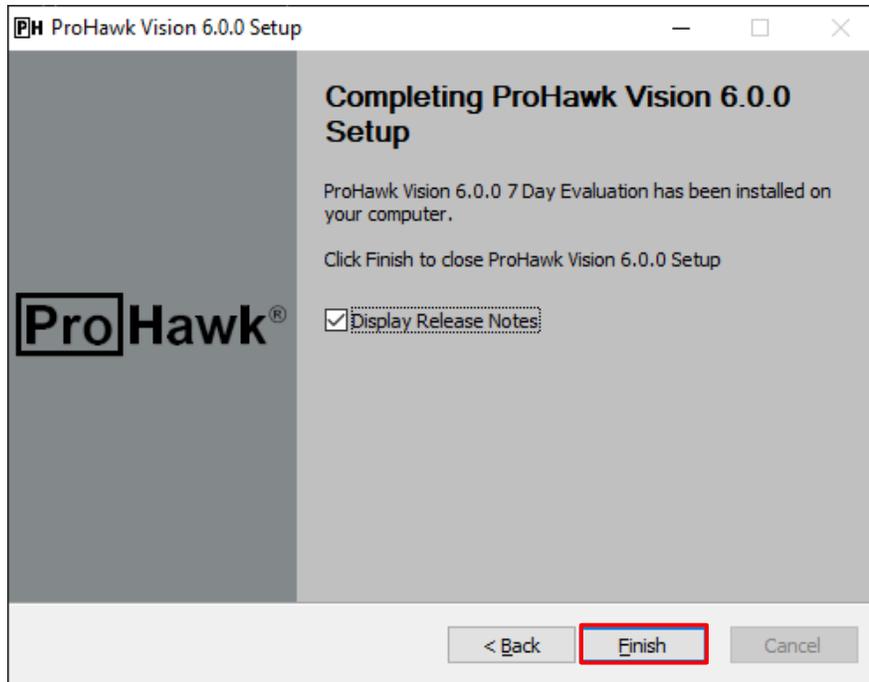


Figure 14

4 Directories

There will be several directories created after extracting the ProHawk Vision application installation. The Vision application root folder is placed into the destination folder chosen during installation, typically C:\Program Files\ProHawk\Vision. If you selected the sample videos component to install, the sample videos will be placed into your user accounts Videos folder.

Listed below are the folders and their descriptions:

Folder	Description
C:\Program Files\ProHawk\Vision	A Vision folder containing the ProHawk Vision application and associated files.
C:\Program Files\ProHawk\Vision\docs	Documentation files: ProHawk Vision Users Guide.pdf and End User License Agreement.txt.
C:\Program Files\ProHawk\Vision\logo	Icon, image, and text files used by the Vision application.
C:\Users\{UserAccountName}\Videos\ProHawkGroup\original	A collection of sample unenhanced videos. The unenhanced videos are the direct untouched source video files without any enhancement from ProHawk Vision application.
C:\Users\{UserAccountName}\Videos\ProHawkGroup\Recordings	A collection of samples of the unenhanced videos that have been enhanced by ProHawk Vision. The enhanced videos show the same footage after it is enhanced by the ProHawk Vision application.