ProHawk Vision Quick Start Guide



Table of Contents

Introduction	3
System Requirements	4
Installer	5
Language Selection	. 5
Welcome	. 6
License Key	. 6
License Agreement	. 7
Components	. 8
Install Location	. 8
Product Registration	. 9
Start Menu Folder	. 9
Progress	10
0Sample Video Progress	10
1Finish	11
Directories	L 2
	Introduction System Requirements Installer. Language Selection Welcome License Key License Agreement Components Install Location Product Registration. Start Menu Folder Progress OSample Video Progress 1Finish 1 Directories 1



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 with 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 <u>FFmpeg</u> licensed under the <u>LGPLv2.1</u>

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 **<u>Next</u> >** button. (*Figure 4*)

PH ProHawk Vision 6.0.0 Setup	- 🗆 X
License Key A license key is required to enable the full functionality of the product.	ProHawk
Enter 25 Character License Key Leave the License Key blank will enable the product for a 7 upgrade the License Key using the ProHawk Vision License I License Key:	day evaluation. You can Key Upgrade Application.
ProHawk Vision 6.0.0	Next > Cancel

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*)

PH ProHawk Vision 6.0.0 Setup	_		×
License Agreement Please review the license terms before installing ProHawk Vision 6.0.0.	Pro	Hav	∧k ®
Press Page Down to see the rest of the agreement.			
NOTICE TO ALL USERS: CAREFULLY READ THE FOLLOWING LEGAL ("AGREEMENT"), FOR THE LICENSE OF SPECIFIED SOFTWARE ("SOFTWARE") PRODUCED BY PROHAWK T INC. ("PROHAWK"). BY CLICKING THE ACCEPT BUTTON OR INSTA SOFTWARE, YOU (EITHER AN INDIVIDUAL OR A SINGLE ENTITY) (BOUND BY AND BECOME A PARTY TO THIS AGREEMENT. IF YOU D OF THE TERMS OF THIS AGREEMENT,	AGREEMENT TECHNOLOGY LLING THE CONSENT TO DO NOT AGRE	GROUP, BE E TO ALL	~
CLICK THE BUTTON THAT INDICATES THAT YOU DO NOT ACCEPT AGREEMENT AND DO NOT INSTALL THE SOFTWARE. (IF APPLICAE	THE TERMS (BLE, YOU MA)	OF THIS (~
If you accept the terms of the agreement, click the check box below agreement to install ProHawk Vision 6.0.0. Click Next to continue.	w. You must a	accept the	:
I accept the terms of the License Agreement			
ProHawk Vision 6.0.0			
< <u>B</u> ack	<u>N</u> ext >	Cano	el

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*)

PH ProHawk Vision 6.0.0 Setup —	×
License Agreement Please review the license terms before installing ProHawk Vision 6.0.0. ProHa	wk®
Press Page Down to see the rest of the agreement.	
NOTICE TO ALL USERS: CAREFULLY READ THE FOLLOWING LEGAL AGREEMENT ("AGREEMENT"), FOR THE LICENSE OF SPECIFIED SOFTWARE ("SOFTWARE") PRODUCED BY PROHAWK TECHNOLOGY GROUF INC. ("PROHAWK"). BY CLICKING THE ACCEPT BUTTON OR INSTALLING THE SOFTWARE, YOU (EITHER AN INDIVIDUAL OR A SINGLE ENTITY) CONSENT TO BE BOUND BY AND BECOME A PARTY TO THIS AGREEMENT. IF YOU DO NOT AGREE TO AL OF THE TERMS OF THIS AGREEMENT,	, Â
CLICK THE BUTTON THAT INDICATES THAT YOU DO NOT ACCEPT THE TERMS OF THIS AGREEMENT AND DO NOT INSTALL THE SOFTWARE. (IF APPLICABLE, YOU MAY	~
If you accept the terms of the agreement, click the check box below. You must accept the agreement to install ProHawk Vision 6.0.0. Click Next to continue.	ne
< <u>B</u> ack <u>N</u> ext > Ca	ncel

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 **<u>N</u>ext** > button to continue. (*Figure 7*)

■ ProHawk Vision 6.0.0 Setup		– 🗆 X
Choose Components Choose which features of ProH. install.	awk Vision 6.0.0 you want to	Pro Hawk [®]
The ProHawk Vision 6.0.0 Comp	onents are listed below.	
Select components to install:	ProHawk Vision Application Documentation Sample Videos	Description ProHawk Vision Windows Application for processing of videos.
Space required: 2.8 GB	< >	
ProHawk Vision 6.0.0		
	< <u>B</u> ack	<u>N</u> ext > Cancel

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 Page 8 of 12

3.7 Product Registration

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

PH ProHawk Vision	6.0.0 Setup		_		Х
Product Registra This information is	tion used to inform you of updates.		Pro	Hav	vk®
Registration Info	ormation				
Company:					
First Name:		Last Name:			
Address:					
City:					
State:	California	Cipcod	le:		
Country:	United States	ĉ			
Email:					
Phone:					
ProHawk Vision 6.0.0					
		< <u>B</u> ack [<u>N</u> ext >	Cance	el

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*)

PH ProHawk Vision 6.0.0 Setup	—		×
Choose Start Menu Folder Choose a Start Menu folder for the ProHawk Vision 6.0.0 shortcuts.	Pro	Hav	∧k ®
Select the Start Menu folder in which you would like to create the can also enter a name to create a new folder.	program's sho	rtcuts. You	
Accessibility Accessories Administrative Tools Avid Blackmagic Design Canon MX870 series Dell Dropbox Focusrite Focusrite Focusrite Audio Engineering Ltd FreeSWITCH Genetec			*
ProHawk Vision 6.0.0	Install	Cano	el



3.9 Progress

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

PH ProHawk Vision 6.0.0 Setup	_		\times
Installing Please wait while ProHawk Vision 6.0.0 is being installed.	Pro]Hav	wk®
Extract: cublas64_11.dll			
Extract: PHPTGDELCHK.dll 100% Extract: PTGDE.dll 100% Extract: boost_chrono-vc120-mt-1_57.dll 100% Extract: boost_regex-vc120-mt-1_57.dll 100% Extract: boost_serialization-vc120-mt-1_57.dll 100% Extract: boost_serialization-vc142-mt-gd-x64-1_78.dll 100% Extract: boost_serialization-vc142-mt-x64-1_78.dll 100% Extract: boost_serialization-vc120-mt-1_57.dll 100% Extract: boost_system-vc120-mt-1_57.dll 100% Extract: boost_thread-vc120-mt-1_57.dll 100% Extract: cublas64_11.dll			~
ProHawk Vision 6.0.0	Close	Can	cel

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 **<u>F</u>inish** button to complete the installation. (*Figure 14*)

PH ProHawk Vision 6.0.0 Setup	- 🗆 ×
	Completing ProHawk Vision 6.0.0 Setup
	ProHawk Vision 6.0.0 7 Day Evaluation has been installed on your computer.
	Click Finish to close ProHawk Vision 6.0.0 Setup
Pro Hawk [®]	Display Release Notes
	< <u>B</u> ack <u>Finish</u> Cancel

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.

Folder	Description
C) Program Files) Pro Llow() Vicion	A Vision folder containing the ProHawk Vision application
	and associated files.
C:\ Program Eilos\ ProHawk\ \/icion\ docs	Documentation files: ProHawk Vision Users Guide.pdf and
C. (Program Files (Pronawk (Vision (docs	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\	A collection of sample unenhanced videos. The
ProHawkGroup\original	unenhanced videos are the direct untouched source video
	files without any enhancement from ProHawk Vision
	application.
C:\Users\{UserAccountName}\Videos\	A collection of samples of the unenhanced videos that have
ProHawkGroup\Recordings	been enhanced by ProHawk Vision. The enhanced videos
	show the same footage after it is enhanced by the
	ProHawk Vision application.

Listed below are the folders and their descriptions:

