

# **VIDARscanNDT*PRO*** **Software**

## **Installation and User's Guide**



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# Intended Use

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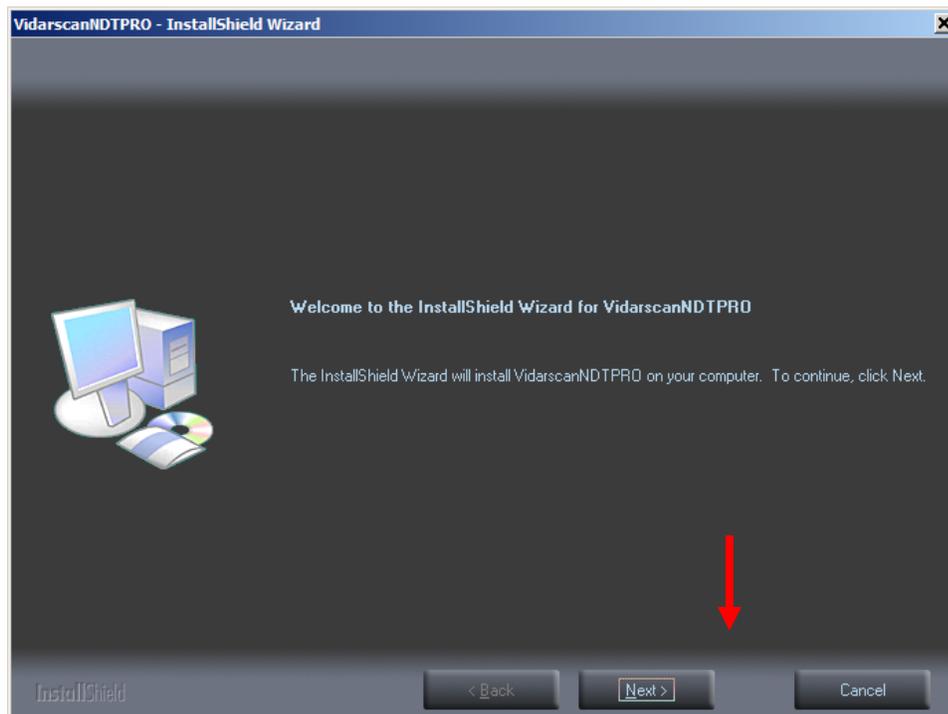
VIDARscanNDT*PRO* software is intended for making digital copies of x-ray films for non-destructive testing applications. This software is not intended for medical use.

# Installing VIDARscanNDTPRO

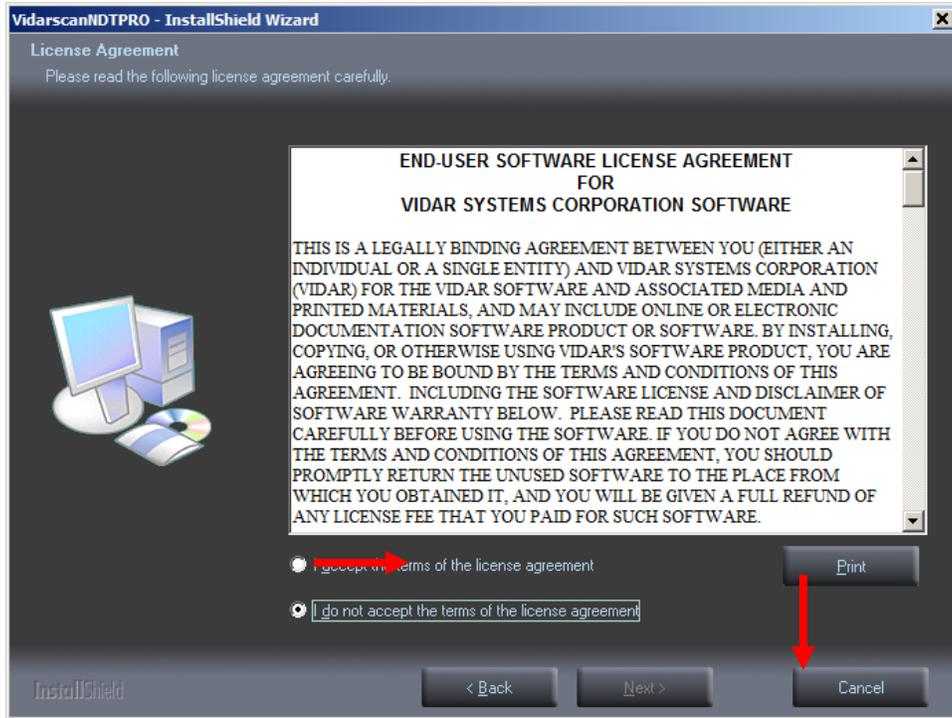
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**Note:** The VIDAR NDTPRO digitizer must be installed and properly communicating with the computer before this software can be installed. See the VIDAR NDTPRO Installation Guide for instructions.

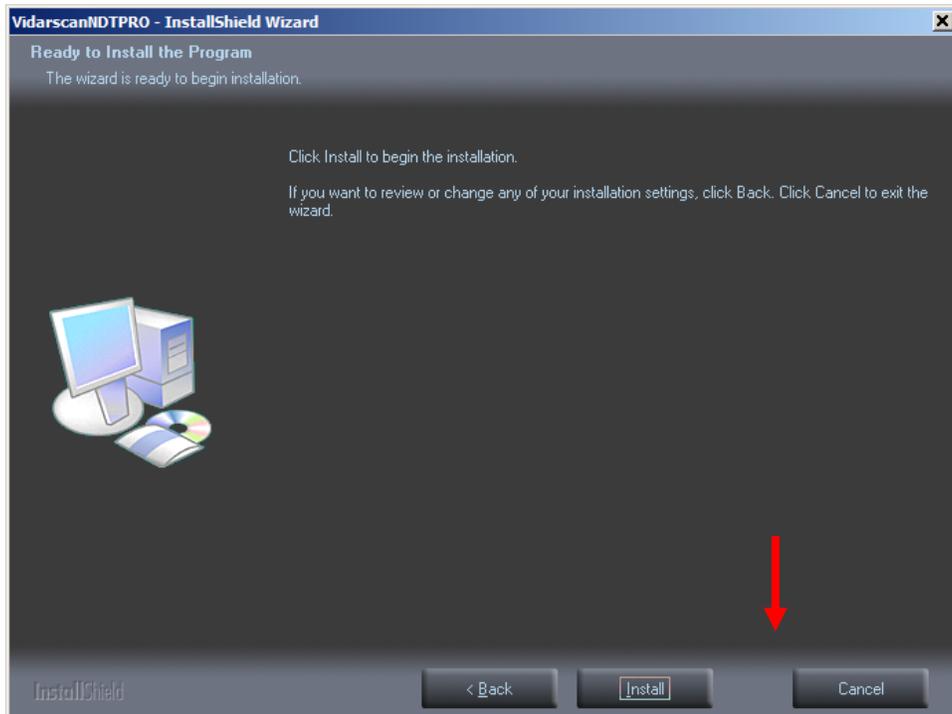
1. Insert the **VIDAR NDTPRO Installation & Users CD** into the CD-ROM drive. Browse to the CD and double-click on *Setup.exe* on the CD to launch the installer.
2. In the **Welcome** screen, click the **Next >** button.



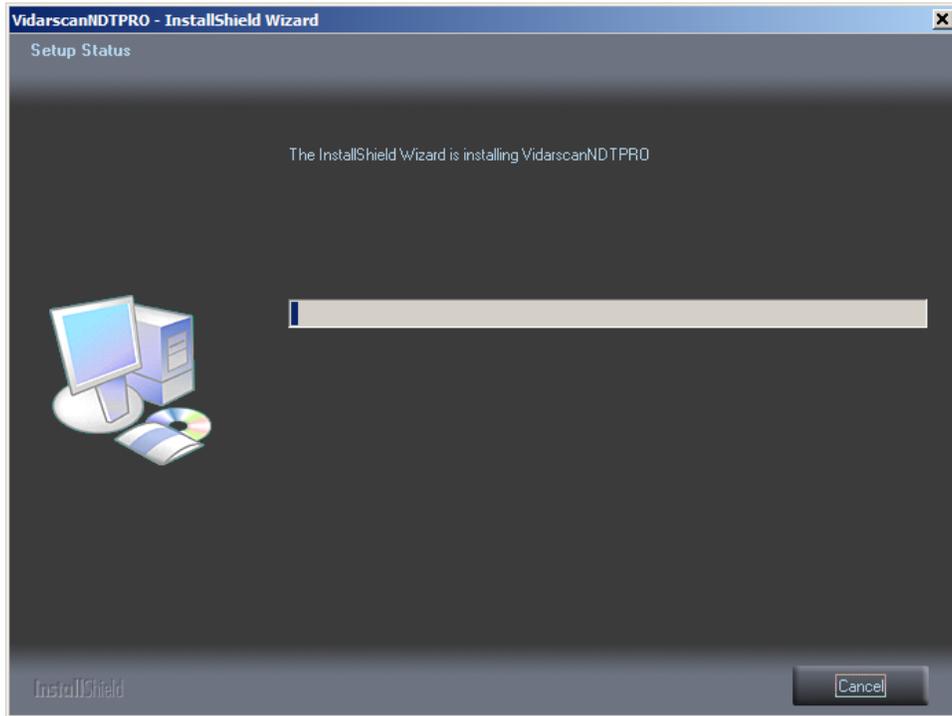
3. In the **License Agreement** screen:
  - a. Read the license agreement.
  - b. Optional: Click the **Print** button to print a copy of the license agreement.
  - c. Click **I accept the terms of the license agreement**.
  - d. Click the **Next >** button.



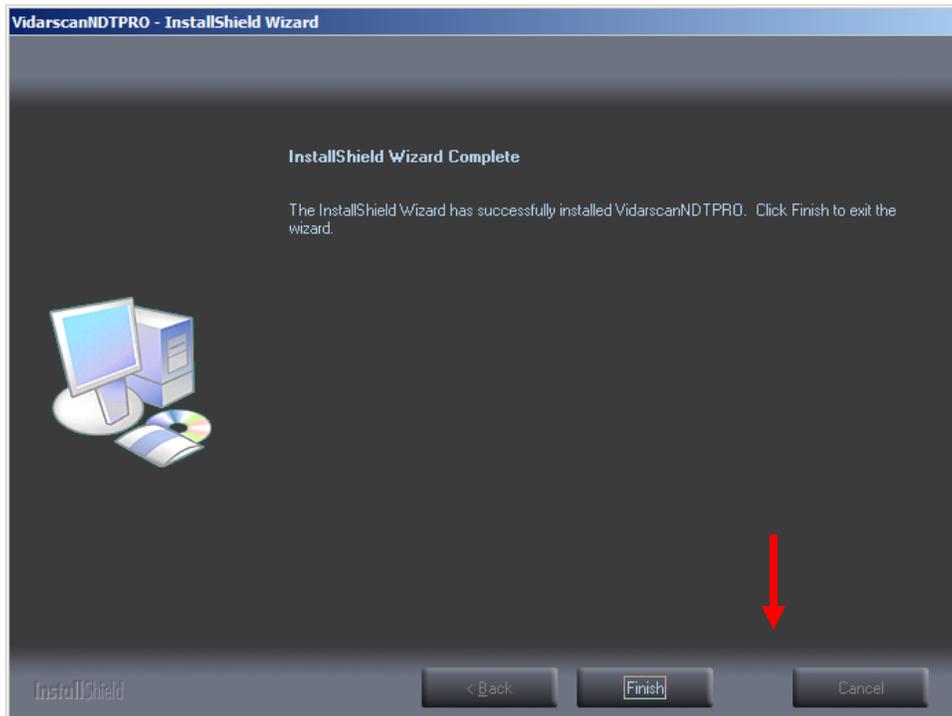
4. In the **Ready to Install the Program** screen, click the **Install** button.



5. Wait while the program is installed.



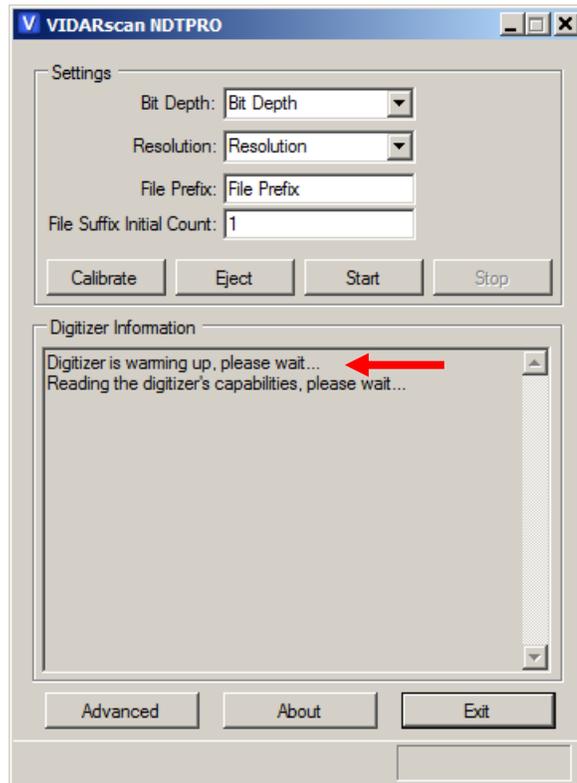
6. In the **InstallShield Wizard Complete** screen, click the **Finish** button.



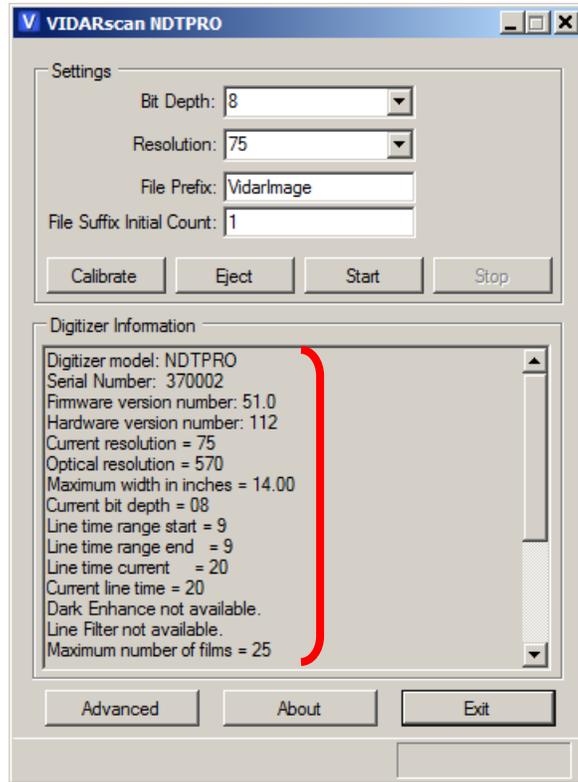
# Using VIDARscanNDTPRO

## Launch VIDARscanNDTPRO

1. Double-click the **VIDARscanNDTPRO** icon on the desktop.  
or  
Click **VIDARscanNDTPRO** in the **Start** menu.
2. The **VIDARscanNDTPRO** window will appear. The **Digitizer Information** section displays the digitizer's status:
  - If the digitizer is not ready:

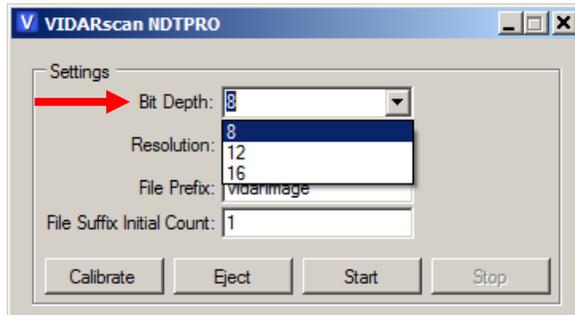


- If the digitizer is ready:

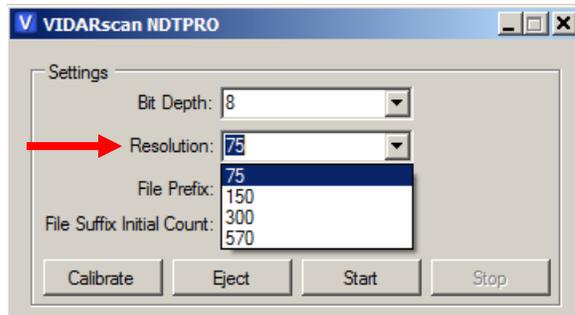


# Configure VIDARscanNDTPRO

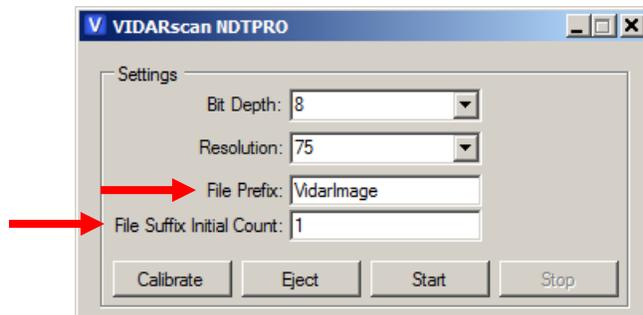
1. Open the **Bit Depth** list and click the desired bit depth.



2. Open the **Resolution** list and click the desired resolution.



3. Optional: Change the **File Prefix** and/or **File Suffix Initial Count**. These values will be used to name each file the program saves.



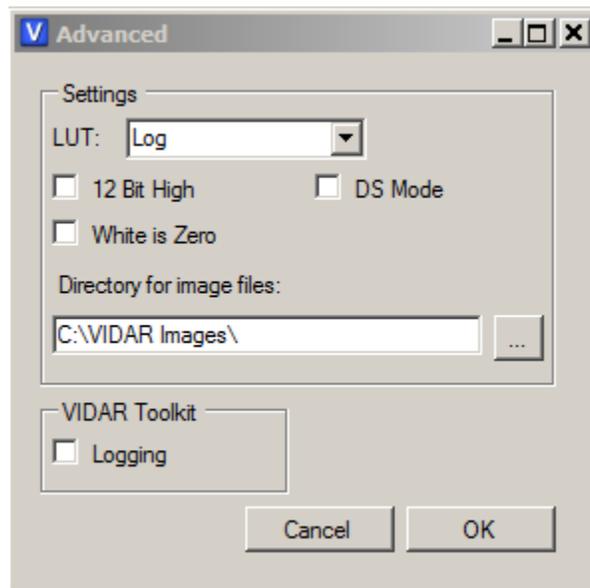
File names are constructed using this syntax:

<file\_prefix><count>.tif

**Note:** VIDARscanNDTPRO saves files in the TIFF format with extension *.tif*.

4. Optional: Configure advanced settings.

- a. Click the **Advanced** button. This opens the **Advanced** dialog.



- b. **LUT** is currently available only in **Log** format.
- c. *To allow 12-bit images to be saved as 16-bit images (for applications that can't display 12-bit images):* Activate the **12 Bit High** option.
- d. *To invert pixel data:* Activate the **White is zero** option.

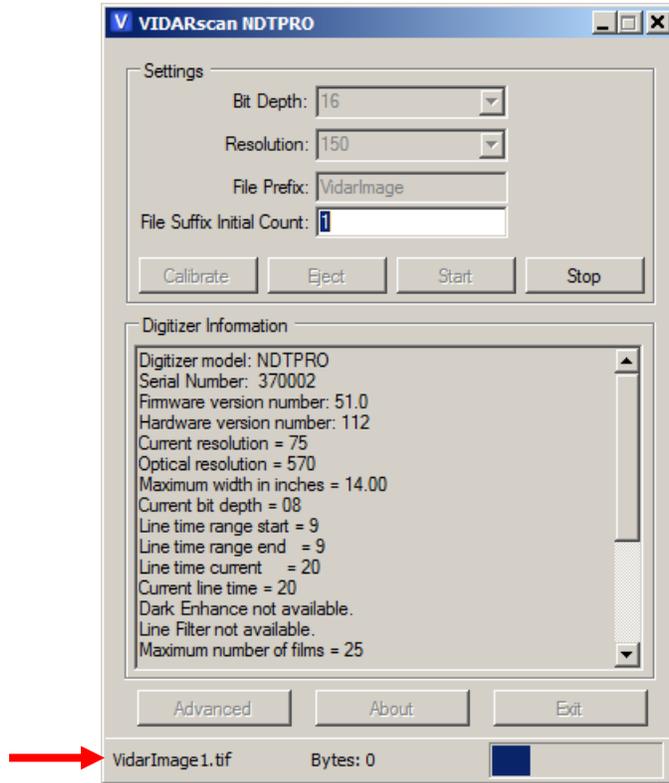
**Note:** By default, a white pixel is represented by the highest number. When **White is zero** is activated, a white pixel is represented by the lowest number, 0.

- e. *To change the mode of operation to DS Mode, activate the DS Mode Button. DS mode will provide the highest level of image quality with the lowest amount of image noise. Note digitizing a film in this mode will take 32 times longer than a typical scan.*
- f. *To change the directory where files will be saved:* Click the **More** button , then select the desired directory.
- g. Click the **OK** button.

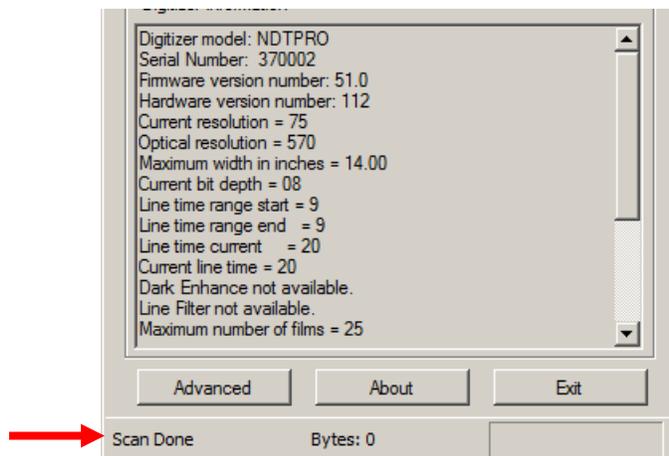
**Note:** The **Logging** option is used in troubleshooting. It logs Toolkit communication data for evaluation by VIDAR Engineering.

# Digitize Films

1. Load a film in the digitizer.
2. In **VIDARscanNDTPRO**, click the **Start** button. The file name and digitizing progress are displayed at the bottom of the window.



3. When digitizing is complete, **Scan Done** is displayed at the bottom of the window.

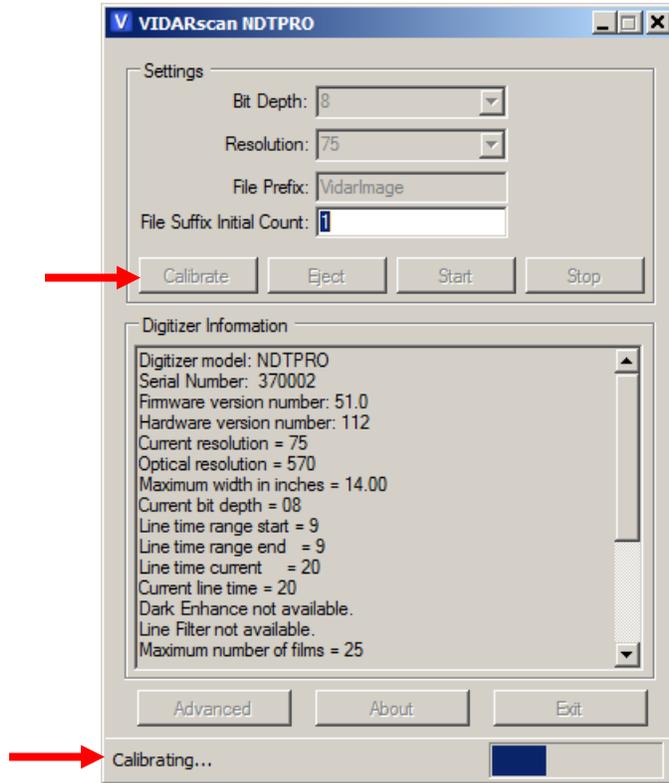


View images with an appropriate application. Recall that image files are stored in the location you selected in step 4 of the "Configure VIDARscanNDTPRO" section.

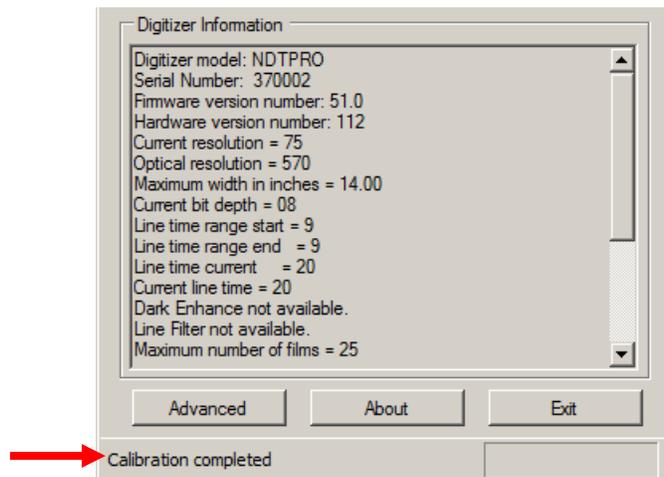
# Troubleshooting

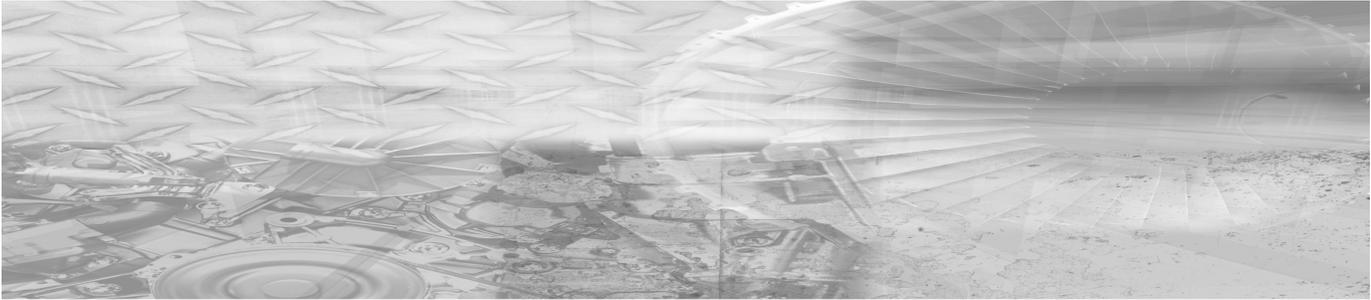
If image quality isn't optimum, you should calibrate the digitizer.

1. In the VIDARscanNDTPRO window, click the **Calibrate** button. Wait while the digitizer calibrates.



2. When the digitizer is ready to scan films, **Calibration completed** appears at the bottom of the window.





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