



# **NIS File Checker User's Manual**

# Introduction

This manual explains how to use NIS File Checker.

This manual describes how to install and uninstall NIS File Checker, how to use it, and the meaning of the results.

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# 1. Description of the Software

## 1.1 Purpose

Some image files may contain risks that could adversely affect the operating system or the computer itself.

NIS File Checker is a software designed to check for the vulnerabilities listed under "■ Vulnerabilities to be Checked."

This software can check for the vulnerabilities listed in the table below.

### ■ Vulnerabilities Checked

Vulnerability Category	Vulnerability Impact	CVE-ID	Affected Image Files
out-of-bounds read	execute malicious code	<a href="#">CVE-2022-40656</a>	ND2 file
		<a href="#">CVE-2022-40662</a>	TIFF files
		<a href="#">CVE-2022-40663</a>	TIFF files
heap-based buffer overflow	execute malicious code	<a href="#">CVE-2022-40661</a>	BMP files
		<a href="#">CVE-2022-40660</a>	PSD files
		<a href="#">CVE-2022-40655</a>	ND2 file
out-of-bounds write	execute malicious code	<a href="#">CVE-2022-40657</a>	PSD files
		<a href="#">CVE-2022-40658</a>	TIFF files
		<a href="#">CVE-2022-40659</a>	TIFF files

If NIS-Elements V5.00.00 to V5.42.06 is being used and an update to V5.42.07 or later is not possible, please install this application separately.

When opening untrusted image files with NIS-Elements, be sure to check their safety in advance using this software.

## 1.2 Supported File Extensions

NIS File Checker supports image files with the following extensions:

### ■ Supported Extensions by NIS File Checker

- ND2
- BMP
- PSD
- TIFF (including ome.tif)

File extensions other than those listed above are not supported.

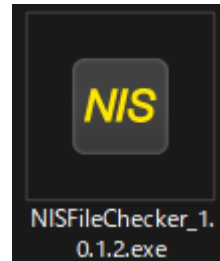
Please do not open image files with unsupported extensions, such as JPEG or JPEG2000, or untrusted image files, with NIS-Elements.

## 2. Installation

### 2.1 Installation Procedure

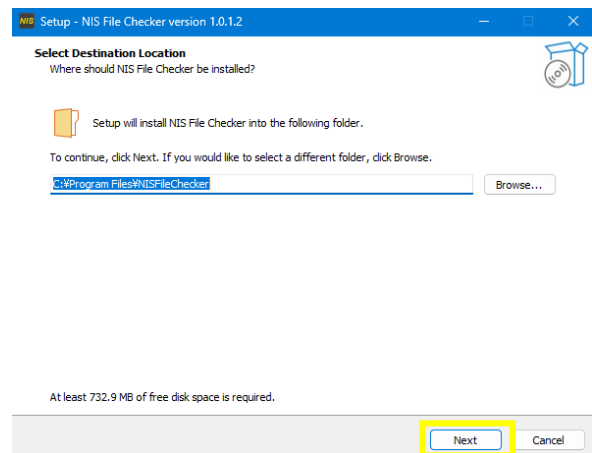
To install NIS File Checker, perform the following steps.

- 1 Double-click “NISFileChecker\_1.0.1.2.exe” to run it.



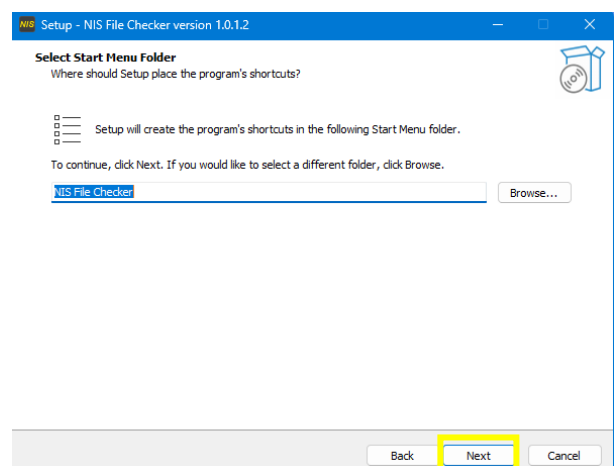
*Fig. 1 Launching the installer*

- 2 The installation screen will appear. Click “Next” to proceed to the Select Start Menu Folder screen.



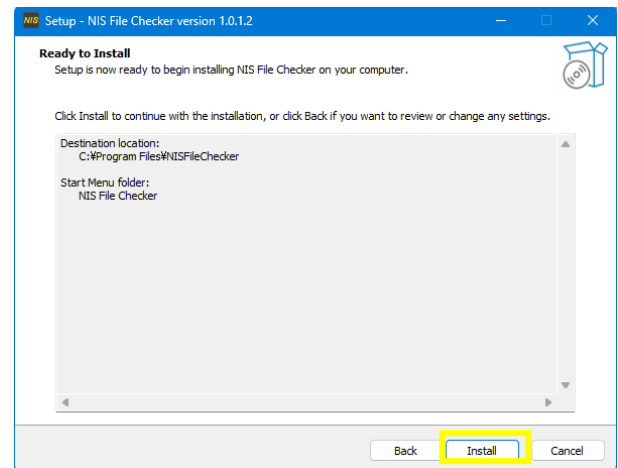
*Fig. 2 Installation screen opens*

- 3 Click “Next” again to proceed to the pre-installation confirmation screen.



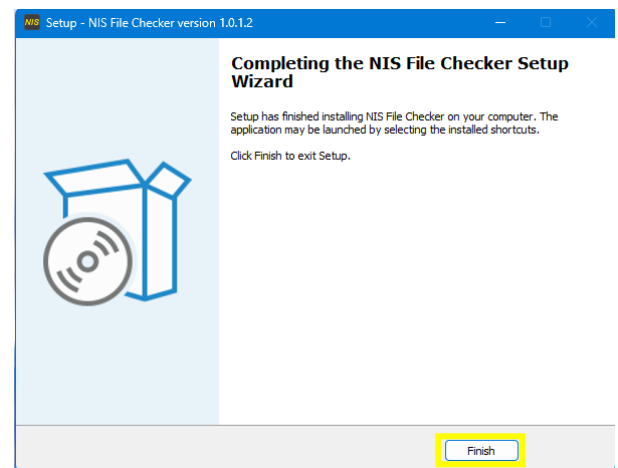
*Fig. 3 Select Start Menu Folder screen*

- 4 Click “Install” to begin the installation.



*Fig. 4 Pre-installation confirmation screen*

- 5 When the installation complete screen appears, click “Finish” to exit setup.



*Fig. 5 Installation completion screen*

## 2.2 Uninstallation Procedure

To uninstall NIS File Checker, perform the following steps.

- 1 From the Windows Start menu, right-click “NISFileChecker” and click “Uninstall.”

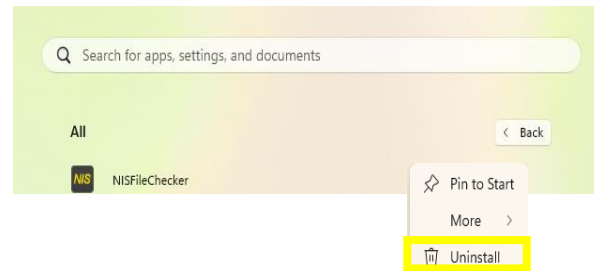


Fig. 6 Start Menu

- 2 The Windows settings screen will appear. Select the three-dot menu (...) next to “NIS File Checker version 1.0.1.2” and click “Uninstall.”

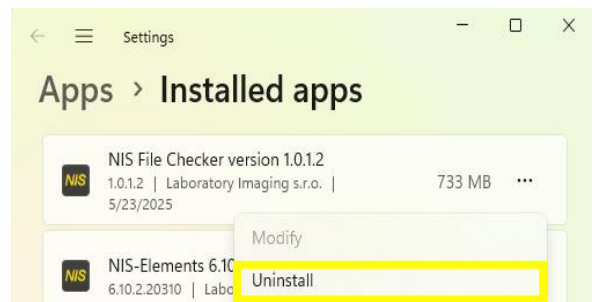


Fig. 7 Windows setting screen

- 3 A message will appear: “This app and its related information will be uninstalled.” Click “Uninstall”.

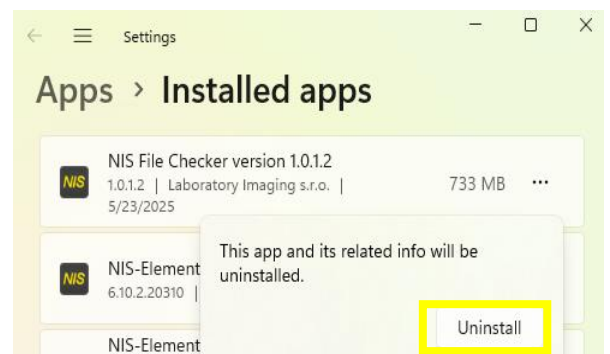
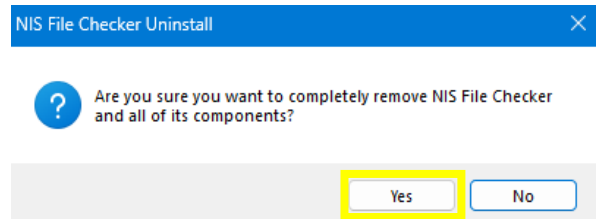


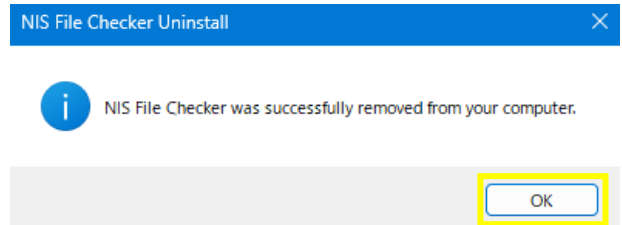
Fig. 8 Select Uninstall

- 4** A confirmation screen will appear before uninstallation.  
Click “Yes” to start the uninstallation.



*Fig. 9 Pre-uninstallation confirmation screen*

- 5** When the uninstallation complete screen appears, click “OK” to finish the process.



*Fig. 10 Uninstallation completion screen*



## 3. Usage

### 3.1 File Check Procedure

Follow the steps below to check files.

- 1 Launch NIS File Checker.



Fig. 11 Shortcut

- 2 Drag and drop the image you want to check into the NIS File Checker window.

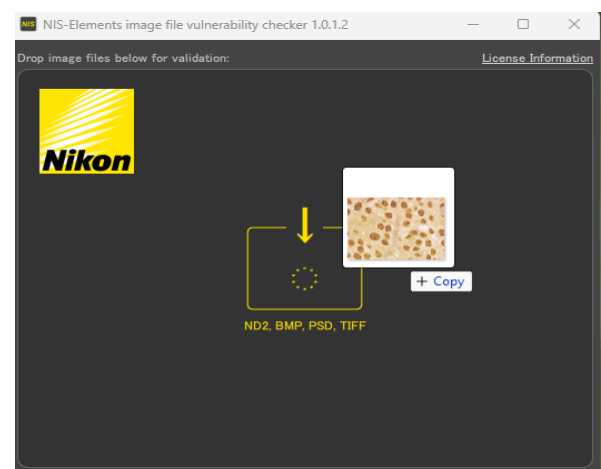


Fig. 12 Drag and Drop Images

- 3 The check result will be displayed at the bottom of the window.  
\*For details on each result, please refer to “3.2 Judgment Results and Their Meanings.”

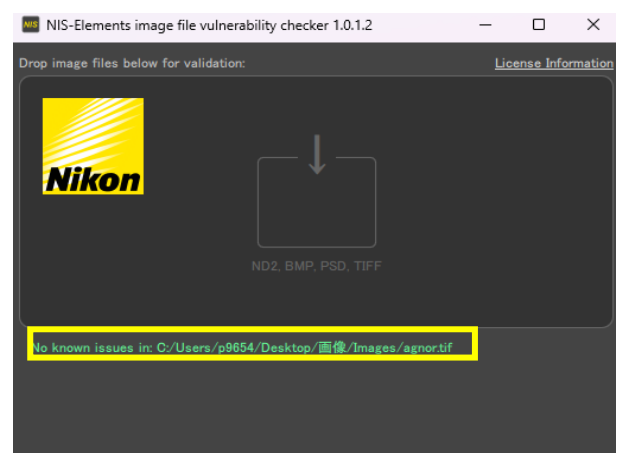


Fig. 13 The judgment result is displayed

## 3.2 Judgment Result and Their Meaning

When you load an image with NIS File Checker, one of the following judgment results will be displayed.:

- "Not known issue in: [Image file path]"
- "Potentially Dangerous: [Image file path]"
- "Not supported by this File Checker: [Image file path]"

The details and meanings of each judgment result are as follows:

### ■ "Not known issue in: [Image file path]"

This result indicates that the loaded image file has no issues and can be trusted.

If this judgment result is displayed, it is safe to open the image file with NIS-Elements.

This result will be displayed in green if both of the following conditions are met:

- The image file is normal (i.e., it is free of vulnerabilities or corruption).
- The image file has an extension supported by NIS File Checker (see "1.2 Supported File Extensions").

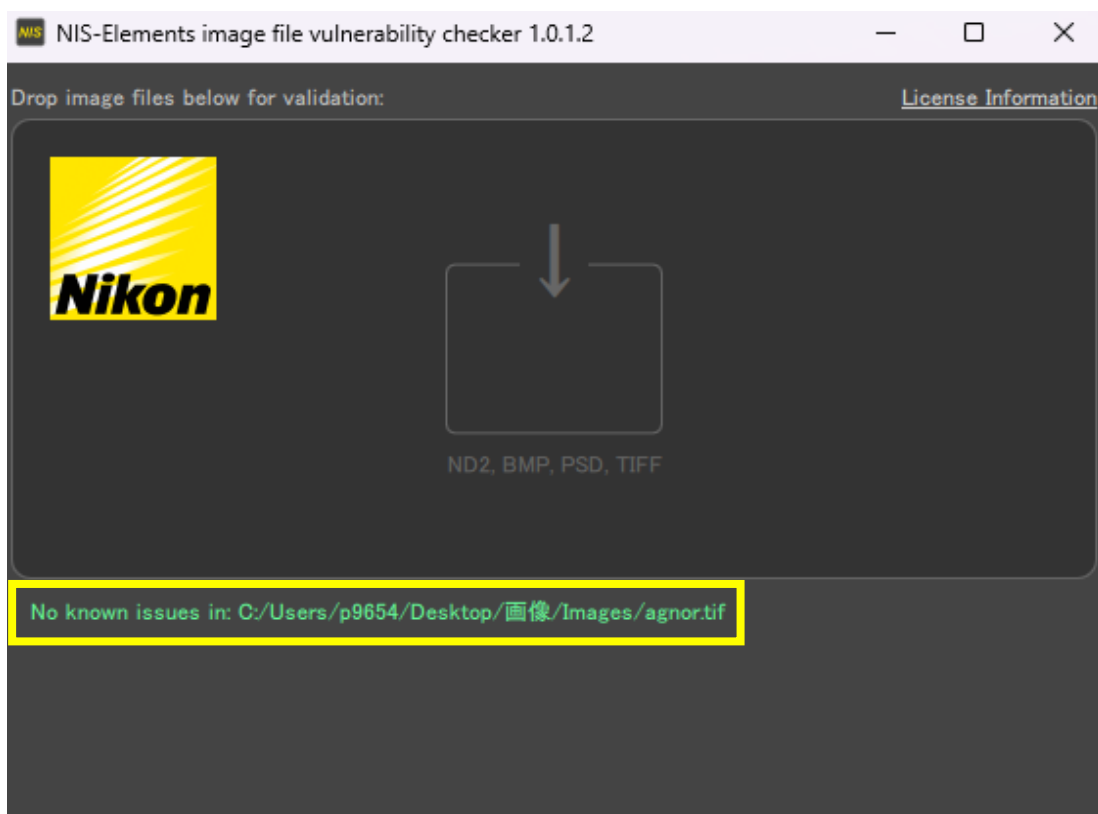


Fig. 14 When there is no problem with the image

■ "Potentially Dangerous: [Image file path]"

This result indicates that the loaded image file contains potential risks.

If this judgment result is displayed, do not open the image file with NIS-Elements, as it may adversely affect NIS-Elements.

This result will be displayed in red if either of the following conditions is met:

- The image file contains vulnerabilities.
- The image file is corrupted.

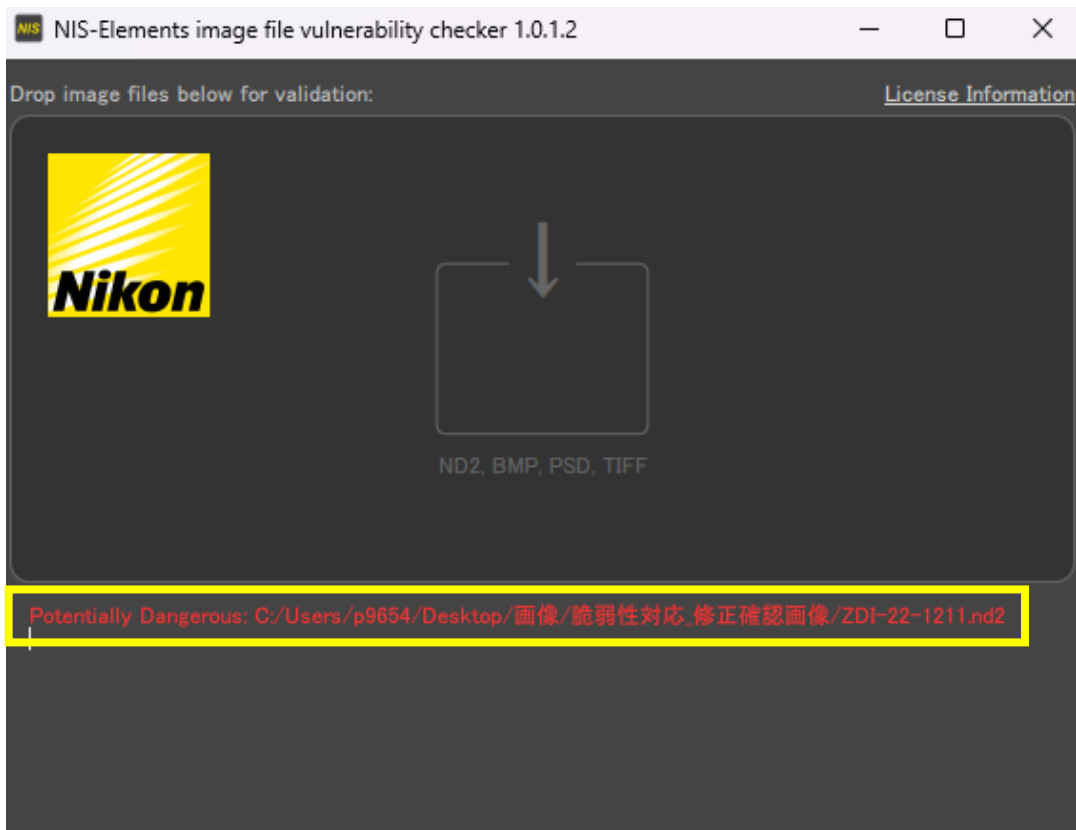


Fig. 15 In the case of an image containing

■ "Not supported by this File Checker: [Image file path]"

This result indicates that the loaded image file has an extension that is not supported by NIS File Checker.

If you load an image file with an unsupported extension, this judgment result will be displayed in white (see "1.2 Supported File Extensions").

If this result is displayed, it means that the loaded image file is not supported by NIS File Checker.

Do not open image files of questionable reliability with NIS-Elements.

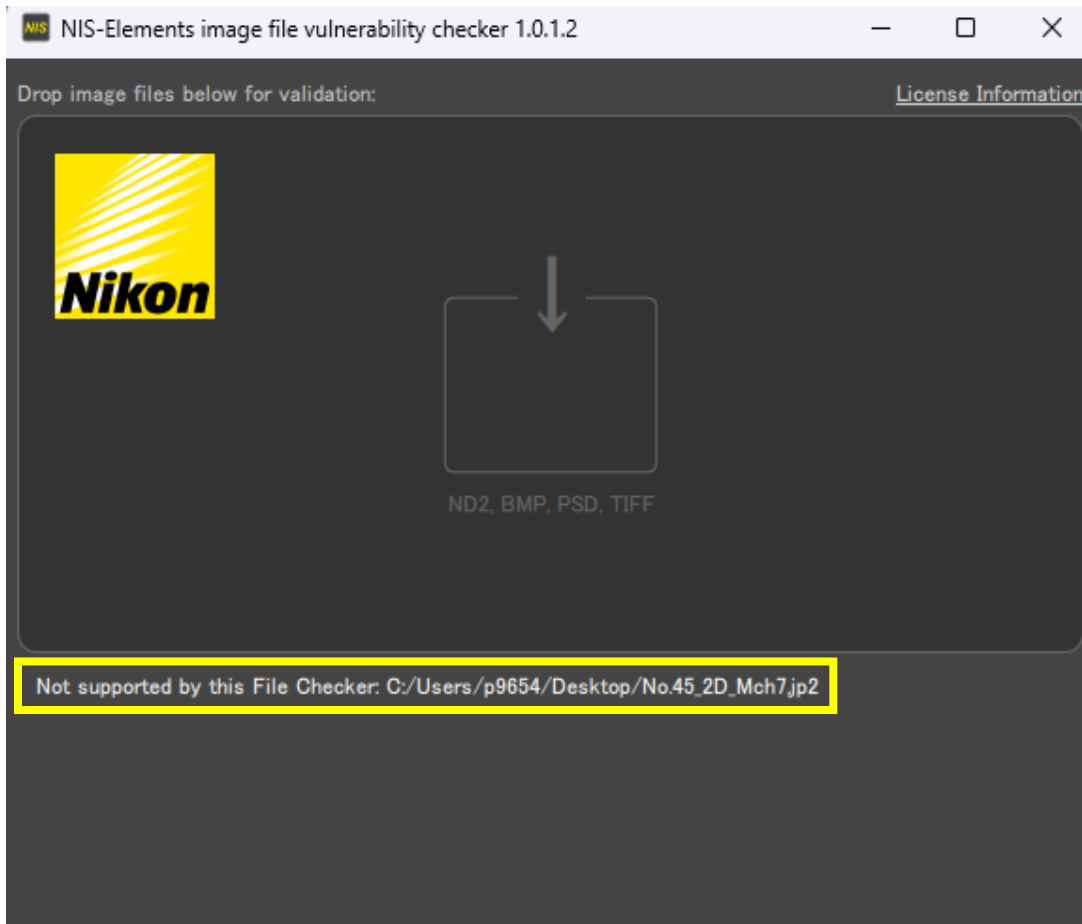


Fig. 16 In case of image with unsupported file