

## Portable Malware Scanner



## Instruction Manual

Thank you very much for your purchase of Vaccine USB3 (hereinafter called “Vaccine USB”)

This instruction manual provides information on how to install and use Vaccine USB. Be sure to read this manual for proper use of Vaccine USB. Please keep the instruction manual for future reference.

For Linux version software, please check [here](#).



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# 1 Before Use

The Vaccine USB is a licensed product that contains anti-malware application program with the scan engine of Trellix of the United States (hereinafter called “Trellix”) and updates, including virus definition files (hereinafter called “Trellix Programs”). Before start to use your Vaccine USB, we ask you to read and acknowledge the license conditions (including definition of Vaccine USB, licensing, prohibitions and limitations, disclaimers, and warrantee) bundled with Vaccine USB that provides the terms of use between Hagiwara Solutions Co., Ltd., and you on Trellix Programs contained on Vaccine USB. The start of your using Vaccine USB shall constitute your agreement to the license conditions.

## Precaution Instructions for Use

For proper use of Vaccine USB, be sure to read the precaution instructions given below and thoroughly understand the instructions when using Vaccine USB. Be advised beforehand that malfunctions, problems, or loss/damage of data of the devices to which Vaccine USB is connected for use, as well as malfunctions or problems of Vaccine USB caused by improper use are out of the scope of warranty.

### Indications of Warning Signs

<b>Caution</b>	This sign indicates possibilities of causing human death or injuries.
<b>Warning</b>	This sign indicates possibilities of causing human injuries or damage to property.

## Caution

- When using Vaccine USB while connecting it to a device, follow the warnings and cautions provided by the manufacturer of the device to which Vaccine USB is connected.
- Never use at voltages other than instructed. Ignition, fire, heat generation, or electric shock can result.
- Do not use Vaccine USB while the device for which Vaccine USB is applied for virus scan, deletion, or isolation is in operation. The performance of the device might be affected
- Do not use Vaccine USB with wet hands. Electric shock or malfunctions can result.
- Do not leave Vaccine USB within reach of small children or infants. Swallowing it or its cap poses danger of choking. If swallowed, immediately seek medical consultation
- Do not use while walking or driving. Accidents might result.
- Do not use Vaccine USB where water is used or humidity is high. Electric shock, fire, or malfunctions can result.
- In case liquids or foreign objects enter Vaccine USB or the device to which Vaccine USB is connected, or in case smoke or an unusual smell comes out of Vaccine USB or the connected device, immediately turn off the power supply to the device and plug off the power cable from the outlet. Continued use can result in electric shock or fire.
- Before touching Vaccine USB, remove the static electricity from the body by touching metals, etc. The static electricity can cause damage or erase the data.
- Do not bend forcibly, drop, scratch, or load down with heavy objects. Malfunctions can result.
- In case the connector of Vaccine USB is soiled or dusted, remove with a dry, clean cloth. Use in the soiled state can result in malfunctions.
- Do not remove Vaccine USB from the device or turn the device off while data is written on or read from Vaccine USB. The data can be damaged or deleted, and Vaccine USB can be out of order.

## Warning

- When using Vaccine USB while connecting it to a device, follow the warnings and cautions provided by the manufacturer of the device to which Vaccine USB is connected.
- Be sure to back up the data that is saved or to be saved on Vaccine USB. Be advised that Hagiwara Solutions Co., Ltd. bears no responsibility for the loss or damage of the programs or data saved in Vaccine USB.
- The Vaccine USB has a lifespan due to its use of flash memory. (Warranty is valid for the licensed period of Vaccine USB. The maximum warranty period is five years.) After use over a long period of time, data will not be saved or retrieved properly.
- When formatting Vaccine USB, be sure that necessary data is not saved on Vaccine USB.
- We grant you a nonexclusive, nontransferable right to use the Product containing the Trellix programs. The Product is provided solely for your use or any affiliated company to which you may authorize us or our distributors to perform the audits set forth in the License Agreement. In no event, whether in Japan or abroad. The Product may not be rented or transferred to any third party under any circumstances, whether in Japan or abroad. If you intend to export the Product overseas, you must comply with all applicable export laws, regulations, and procedures, both domestic and international. If you should export the Product overseas, you must fully comply with all relevant export laws, regulations, and procedures, both domestic and foreign.
- The Vaccine USB is packaged for delivery inside Japan. When exporting overseas, be advised that you package the goods for exporting.
- When you are to execute virus scan on your own, be sure to download the latest virus definition files. The latest virus information shall be confirmed on Trellix's or other related websites.
- The Trellix Programs embedded in Vaccine USB do not remove the detected computer viruses but instead delete or isolate the infected files. (The infected files will not be deleted when it was set to Virus Scan Only mode.) If the OS was infected, the program deletes or isolates the infected OS file, and the host device may be left unusable until it is reinstalled with an uninfected OS.
- Viruses that have infected a system file cannot be deleted or isolated at times. However, dedicated deletion tools available for download at Trellix's Website might be able to delete such viruses.
- Viruses that have infected the system memory cannot be deleted or isolated. Confirm the deletion method on Trellix's Website.
- New viruses are being discovered on a daily basis. Execute virus scans with the latest definition files, otherwise viruses may not be detected, deleted or isolated.
- In case the registry has been overwritten by a virus and such virus has been deleted or isolated, the system may not reboot properly since Vaccine USB does not have a function for restoring the registry.
- Once the licensed period of Vaccine USB has expired, the latest virus definition file will no longer be available for download. After the termination of the license period, Trellix Programs provide no protection and will not be guaranteed. Hagiwara Solutions Co., Ltd., or the retailer bears no responsibility for any damage caused by continued use of Vaccine USB after the license period
- There are viruses that cannot be deleted or isolated by Vaccine USB. For such viruses, check the Trellix database and other information to take necessary actions.
- The Vaccine USB can detect the viruses addressed by Trellix when the pattern files were updated to the latest ones. It does not guarantee the detection of every virus. There are cases where it fails to detect a virus in some files including encrypted files or compressed files with password.

## Cautions for Storage

Do not keep the product in the following locations. The Vaccine USB can be deteriorated, or electric shock or fire can result.

- Where exposed to direct sunlight
- Where water might leak and wet
- Around heating equipment or fire
- Under high temperatures (over 50°C) and high humidity (over 85%) where dew condensation can occur or temperature can change drastically
- Where it is not level, or the foundation is unstable, or vibration is generated.
- Where strong magnetic field or static electricity can be generated
- Dusty place

## Product Warranty Regulations

For defects found within the warranty period of Vaccine USB, free repair or replacement is available provided such defect is determined to be attributed to Vaccine USB. For damage or malfunctions caused during delivery transport, free repair or replacement is available provided such damage or malfunction is clearly attributed to Hagiwara Solutions Co., Ltd.

The compatibility of Application Programs with your specific purposes cannot be warranted.

Hagiwara Solutions Co., Ltd. shall not be liable for any of the following situations.

Malfunctions or damage due to your mishandling such as drops or impacts during transporting after delivery

Malfunctions or damage due to such natural disasters as earthquakes, lightning, wind, and flood damage or fire for which

Hagiwara Solutions Co., Ltd. is not responsible.

Repairs or modification performed by persons other than Hagiwara Solutions Co., Ltd. staff

Hagiwara Solutions Co., Ltd. Malfunctions or damage due to handling that disregards the appropriate methods of use or precautions described in this Manual

Malfunctions or damage due to the malfunctions or problems of the target device to which Vaccine USB is connected

Loss of or damage to the programs or data recorded on Vaccine USB (Hagiwara Solutions Co., Ltd. shall assume no liability for loss of or damage to the programs or data recorded in the memory, even in case such damage or deletion was caused by a defect in Vaccine USB.)

In case Vaccine USB is lost or stolen and comes into possession of third parties, the recorded data can be leaked. Be sure to secure

Vaccine USB since Hagiwara Solutions Co., Ltd. takes no responsibility for indemnifying any loss and damage arising out of such a situation.

## Limited Indemnity

In any case, Hagiwara Solutions Co., Ltd. or the retailer accepts no liability for any incidental, indirect, special, or consequential damage, including the loss of profit, use, data, trust or confidence, business interruption, or other similar damage caused in relation to Vaccine USB or liability for lost profit.

## 2 License Agreement

This document outlines the conditions under which VaccineUSB Software (hereinafter referred to as "the Software") is provided for customer use. Please read this document carefully before installing the Software. This agreement establishes the terms under which the use of the software provided by Hagiwara Solutions Co., Ltd. (hereinafter referred to as "the Company") to the customer (hereinafter referred to as "the Customer") is licensed. The Company grants the Customer the right to use the licensed software in accordance with the following terms. The Customer should read the content of this agreement carefully and may use the licensed software at their own risk only if they agree to the content of this agreement. By using the licensed software, the Customer is deemed to have agreed to each term of this agreement. If the Customer does not agree to each term of this agreement, the Company cannot grant the Customer the right to use the licensed software.

### **\*\*Article 1 (General Provisions)\*\***

The licensed software is protected by copyright and other intellectual property laws and treaties, both domestically and internationally. The licensed software is licensed to the Customer by the Company under the terms of this agreement, and the intellectual property rights of the licensed software, including copyrights, belong to the Company and are not transferred to the Customer.

### **\*\*Article 2 (License)\*\***

1. The Company grants the Customer a non-exclusive right to use the licensed software.
2. The right to use the licensed software arising from this agreement refers to the right to use the licensed software on electronic devices that support the licensed software, for the Customer's devices, etc.
3. The Customer may not modify, add to, or otherwise alter any part of the licensed software.

### **\*\*Article 3 (Restrictions on Rights)\*\***

1. The Customer shall not re-license, transfer, lend, lease, or in any other way allow a third party to use the licensed software.
2. The Customer shall not use the licensed software to infringe on the copyright or other rights of the Company or any third party.
3. The Customer shall not engage in reverse engineering, disassembling, decompiling, or any other source code analysis work in relation to the licensed software.
4. Based on this agreement, the Customer may transfer all rights related to the licensed software, as an integral part of the electronic device on which it is installed, to a transferee, provided that the transferee agrees to the terms of this agreement. However, in such cases, the Customer may not retain any copies of the licensed software and must transfer all aspects of the licensed software (including all components, media, electronic documents, and this agreement).

### **\*\*Article 4 (Rights to the Licensed Software)\*\***

All rights related to the licensed software, including copyrights, belong to the Company or the original rights holder (hereinafter referred to as the "Original Rights Holder") who has granted the Company the right to license the use of the software to the Customer under this agreement. The Customer shall not have any rights to the licensed software other than the rights to use granted under this agreement.

## **\*\*Article 5 (Scope of Liability)\*\***

1. The Company and the Original Rights Holder do not guarantee that the update data defined in Article 6, Section 2 can be installed correctly, nor do they guarantee that the installation of such update data will not cause damage to the Customer.
2. The Company and the Original Rights Holder do not guarantee that the licensed software is free from errors, bugs, or other defects, that it will operate without interruption, or that its use will not cause damage to the Customer or third parties. They also do not guarantee that the licensed software does not infringe on the intellectual property rights of third parties or that manuals and other documents are error-free.
3. Products, software, or network services other than the licensed software on which the operation of the licensed software depends (including those provided by third parties, the Company, or the Original Rights Holder) may be discontinued or interrupted at the discretion of the provider of such software or network services. The Company and the Original Rights Holder do not guarantee that these products, software, or network services will operate without interruption and normally in the future.
4. The liability of the Company and the Original Rights Holder for damage to the Customer is limited to direct and actual ordinary damages that have occurred to the Customer, except in cases of intentional or gross negligence by the Company or the Original Rights Holder, and is limited to the purchase price of the licensed software that the Customer can prove.
5. The Company and the Original Rights Holder shall not be liable for any lost profits, consequential damages, indirect damages, or damages related to data loss or corruption, regardless of the cause of the obligation or tort.
6. The Company provides technical support related to the licensed software licensed to the Customer only through the Company's designated inquiry contact point. However, the Company may change the reception hours of the contact point and the availability of support at any time without the consent of the Customer. Furthermore, unless a separate contract is concluded between the Customer and the Company, the Company is under no obligation to provide or continue to provide such support.

## **\*\*Article 6 (Copyright Protection and Automatic Updates)\*\***

1. The Customer agrees to comply with all relevant domestic and international copyright and other intellectual property laws and treaties when using the licensed software.
2. The Customer must update the licensed software within 90 days following the publication of update data (hereinafter "Update Data") by the Company or a third party designated by the Company on the web for the purpose of improving security features, correcting errors, enhancing update functions, etc. of the licensed software. If more than 90 days pass after the Update Data has been published, the Customer cannot use the old version of the licensed software for any purpose other than updating it. The Customer agrees that (i) the functionality of the licensed software may be added, changed, or removed as a result of such updates, and (ii) the updated licensed software will also be subject to this agreement.

## **\*\*Article 7 (Termination of Agreement)\*\***

1. The Company may immediately terminate this agreement if the Customer violates any terms set forth in this agreement.
2. Upon termination of this agreement pursuant to the provisions of the preceding paragraph, the Customer must dispose of or return all of the licensed software to the Company within two weeks from the date of termination. If the Customer disposes of the licensed software, they must immediately submit documentation proving such disposal to the Company.

3. The provisions of Articles 4 and 5, Sections 2 and 3 of Article 7, and Sections 1, 3, 4, and 5 of Article 8 shall remain in effect even if this agreement is terminated pursuant to Section 1 of this Article.

**\*\*Article 8 (Consent to Use of Data)\*\***

The Customer agrees that the Company may collect and use technical information related to the usage of this product (excluding information about the Customer's devices), which is not limited to these, for the purposes of software updates related to the Company's products, product support, and other services to be smoothly provided to the Customer. This information will be collected on a regular basis. The Company may use this information in a manner that does not personally identify the Customer, for the purpose of improving products or providing services or technology to the Customer.

**\*\*Article 9 (Miscellaneous)\*\***

1. This agreement shall be governed by the laws of Japan.
2. If the Customer takes the licensed software outside of the country, they must comply with the applicable ordinances, laws, export control regulations, and orders.
3. Any disputes related to this agreement shall be subject to the exclusive jurisdiction of the district court or summary court located at the Company's head office location in the first instance.
4. If any provision of this agreement is rendered invalid by law, such provision shall remain effective to the extent that it is deemed valid by law.
5. If there are any matters not stipulated in this agreement or any doubts arise regarding the interpretation of this agreement, the Customer and the Company shall discuss and resolve the matter in good faith.



## 3 Package Contents

The Vaccine USB package contains the following. Be sure to find them first. In case any of the items are missing, contact the retailer where you purchased the product.

Vaccine USB3 (Product) ..... 1unit

## 4 About VaccineUSB

The Vaccine USB is a USB memory device equipped with a malware search engine and virus definition file from Trellix, as well as application programs from Hagiwara Solutions Co., Ltd., (hereinafter, "Application Programs") that detects and deletes computer malwares infecting the device to which Vaccine USB is to be connected (hereinafter, referred to as the "Target Device").

In this manual, **Virus Scanning** is defined as the process of detecting malware (including viruses).

\***Malware** is short for "Malicious Software" and refers to any software designed to harm or exploit computers, networks, or users. It's a broad term that encompasses various types of harmful software, including viruses, worms, Trojans, spyware, ransomware, and more.

Essentially, any software that performs unwanted and harmful actions on a computer can be classified as malware.

### License of Application Programs

Application Programs can be used only during the license period. For continued use after the expiration of the license, the license needs to be renewed (purchased). Contact the retailer for more details.

\* The license covers updates for virus definition files, minor version updates for Application Programs and other technical support.

### Features of Vaccine USB

#### ✓ **Virus Scanning Function**

Once Vaccine USB is connected to a Target Device, Application Programs start automatically to scan the Target Device for viruses.

Virus scan in progress      ... Red ● LED and blue ● LED on Vaccine USB blink alternately.

When virus is detected      ... Red ● LED lights up.

When virus is not detected      ... Blue ● LED lights up.

When viruses are detected and successfully deleted/isolated      ... Blue ● LED lights up.

When an error occurred      ... Red ● LED blinks.

#### ✓ **Scan Mode Selection Function**

Selection can be made from the three scan modes on the Menu Screen.

Virus Scan Only:

Vaccine USB scans for viruses but not deletes or isolates them.

Virus Scan + Deletion No Prompt:

Vaccine USB immediately deletes the viruses detected while scanning.

Virus Scan + Quarantine No Prompt:

Vaccine USB immediately quarantines the viruses detected while scanning.

✓ **Memory Process Scanning Function**

In addition to files, this software also has the capability to perform virus scans on processes running in memory.

Process scanning is conducted before file scanning

✓ **Multi-platform support for Windows / Linux *New!***

Vaccine USB3, which has been a Windows-exclusive product beloved by customers for many years, has evolved to support cross-platform use. Linux platform customers can now also use Vaccine USB.

You can check the manual for the Linux version software [here](#).

✓ **Boot Scan *New!***

Typical anti-malware software runs on operating systems like Windows, making it difficult to access malware deeply embedded in the OS. The "Vaccine USB Boot Scan" directly boots the PC from a USB flash drive, bypassing the device's OS to directly access disks and file systems.

It detects and removes hidden malware within the OS and malware activated during OS startup.

It is also effective for use on devices running older operating systems.

✓ **SEMI E187/188-Compliant Malware Diagnostic Report *New!***

This feature generates malware diagnostic reports (in PDF format) compliant with semiconductor security standards SEMI E187/188. It is particularly useful for semiconductor equipment manufacturers, their suppliers, and semiconductor fabrication facilities. Additionally, it can serve as a general malware diagnostic report for industries beyond the semiconductor sector. Click [here](#) to view a sample report

✓ **Log Saving Function**

After a virus scan, information about the detected viruses and the computer on which the scan was executed are saved as log files on Vaccine USB.

✓ **Virus Definitions File Update Function**

The virus definition files embedded in Vaccine USB can be updated manually by connecting Vaccine USB to a PC connected to the Internet.

✓ **Application Programs Updating Function**

When the virus definition file updating function is executed while Vaccine USB is connected to the Internet via PC, the information on updates for Application Programs will be automatically retrieved. Once the update information is confirmed, the update process of the software is executable. It starts updating with the user's permission.

✓ **Virus Infection Prevention Function for Vaccine USB**

Data cannot be written onto the removable disk space, except for saving the scan setting, updating the virus definition files, or updating the software. It is a feature to prevent Vaccine USB from infection with a virus, including unknown ones, even when it was connected to a virus-infected PC.

✓ **Log view / Log output / Log Deletion Function**

Log files in Vaccine USB can be viewed, output to a given folder or be deleted all at once.

✓ **Setup the Scan Target Function**

Any given disk drive or folder can be configured as scan target.

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✓ ***Setup the Scan Target Function for the Application Program***

Any given disk drive or folder can be configured as scan target.

## Operation Environment / Product Specifications

<b>USB Interface</b>	USB 1.1 (Full Speed)/USB 2.0 (High Speed/Full Speed)	
<b>Operating Environment (*1 *2 *3 )</b>	DOS/V PC equipped with USB interface as standard equipment Over 1GB of free physical memory space (*10) Paging file (virtual memory) needs to be created. (*10) CD-ROM drive is recognized Autorun from CD-ROM drive is enabled	
<b>Compatible OS (*2 *3 *5 *7)</b>	<p>Windows 7 (*4) Windows 8/8.1 Windows10 Windows11</p> <p>ServerOS: Windows Server 2008 SP2(*8) Windows Server 2008 R2(*8) Windows Server 2012,2012R2(*8) Windows Server 2016(*8) Windows Server 2019(*8) Windows Server 2022(*8) Windows Server 2025(*8) Windows Storage Server 2008 Windows Storage Server 2012 Windows Storage Server 2016</p> <p>EmbeddedOS : Windows Embedded Standard 7(*10) Windows Embedded POSReady 7(*10) Windows 7 for Embedded Systems Windows Embedded 8.1 Industry Professional Windows10 Enterprise LTSC/LTSC Windows10 IoT Enterprise LTSC/LTSC Windows11 Enterprise LTSC Windows11 IoT Enterprise LTSC</p> <p>Linux OS *Please check <a href="#">here</a> for supported Linux OS versions</p> <p>* Supported OS depends on the virus scanning engine.</p>	
<b>User Account *9</b>	Administrator of PC (Administrator) Limited User Account Type(Administrator / Standard User)	
<b>Compatible Screen Resolution</b>	640 x 480 or higher. * At 800 x 600 or lower resolution, some screens switch to touch panel friendly screen.	
<b>Operation Voltage</b>	5V±5%	
<b>Consumption current</b>	During scan	Maximum of 220 mA
	On standby	Maximum of 140 mA
<b>Operation temperature</b>	0 – 50 °C	
<b>Operation humidity</b>	30 - 80% (no dew condensation)	
<b>Acquisition specification</b>	CE, FCC, VCCI, RoHS	
<b>Weight</b>	11 g	
<b>External dimensions (with cap)</b>	79.0 mm (length) × 18.0 mm (width) × 9.4 mm (height)	

\*1 Not compatible with USB interfaces expanded with expansion boards.

\*2 USB Mass Storage Class driver and CD-ROM driver need to be installed in advance.

\*3 For starting up the application by Autorun, the Autorun function needs to be enabled by OS.

\*4 An elevation UI pops up. When it is declined, viruses detected in the system folders cannot be deleted or isolated.

\*5 Compatibility with a 64-bit OS

• In Vista or later versions of the Windows OS, access to "Windows\System32" will be redirected to "Windows\SysWOW64."

\*6 The system needs to be installed with the following relevant components (\*Operation criteria have been determined after operations were confirmed under the operating environment at Hagiwara Solutions Co., Ltd.)

• All USB relevant components

• Drive related components

• Network related components

• Application API related components


\*7 For displaying in English in the English Edition OS, the Multilanguage Pack needs to be installed on the OS.

\*8 Process scan function does not work.

\*9 The VaccineUSB software can only scan, delete, and quarantine viruses in files for which it has been granted permission.

Additionally, whether virus scanning, deletion, and quarantine are possible depends on the access permissions (settings) configured for individual folders and files.

\*10 The operations have been confirmed with components fully installed. In environment where some components are missing, users need to make confirmation. (1.5GB or more available memory space is recommended.)

 <b>NOTE</b>	<p>Virus definition file size increases daily to correspond to increases in viruses. Memory capacity necessary for operation also increases.</p> <p>It becomes possible to process data greater than physical memory by creating a paging file (virtual memory).</p> <p>*Usually a paging file is automatically created by the OS.</p>
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## Communication Environment

For updating the virus definition files or the software and for managing the license, a PC connected to the Internet needs to be prepared. The following configurations are necessary for connecting to the Internet:


[Domain]

- Access to the domain <http://www.udrw.com/> shall be permitted.
- Access to the domain <http://update.nai.com/> shall be permitted.
- Access to the domain <http://dl.hscjpn.co.jp/> shall be permitted.
- Access to the domain <https://www.hagisol.co.jp> shall be permitted.

[Port]

- 80/8080
- 443

- Connection via http protocol shall be enabled.

 <b>NOTE</b>	<p>Able to download the virus definition file through a proxy server.</p> <p>"User Authentication" may be displayed.</p> <p>Able to connect to the internet by entering the User ID and Password.</p> <p>Please ask for a User ID and Password from your System Manager.</p> <p>Monitor and Keyboard are required for User Authentication.</p>
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## 5 Limitations

### ✓ **Operation on PCs with Security Software Installed**

This software may not function properly on PCs with security software installed. This is because security software may restrict the operation of our software or limit access to devices.

If the security software mistakenly detects our software as a threat, please add the Vaccine USB software to the exclusion list.

### ✓ **Operation When Access to Compatible Devices is Restricted by OS or Software**

When access to devices is restricted (e.g., by device control) due to OS or software settings, Vaccine USB may experience operational limitations. In such cases, please add Vaccine USB to the exclusion list.

### ✓ **Internet Connection**

An internet connection is not required to run this software. However, an internet connection is necessary for updating definition files and obtaining software updates. If internet access is restricted, please allow access to the following:

#### **For definition file updates:**

Allow access to <http://update.nai.com/>

#### **For software updates:**

Allow access to <http://dl.hscjpn.co.jp/>

Allow access to <http://www.hagisol.co.jp/>

Allow access to <https://www.hagisol.co.jp/>

#### **For license renewal:**

Allow access to <http://www.udrw.com/>

Allow access to <http://dl.hscjpn.co.jp/>

### ✓ **Virus Scan Range**

Vaccine USB can only scan (delete or quarantine) files for which it has been granted permission.

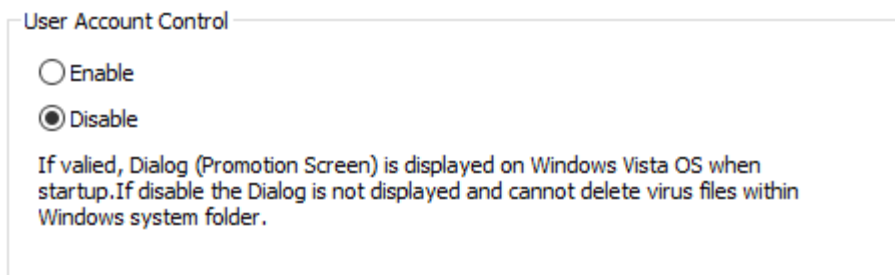
User login permissions for the OS are not the same as the permissions held by the software.

In such cases, right-click on the Vaccine USB software (*Startup.exe*) and select "Run as administrator," or configure the software to elevate permissions in the Vaccine USB settings.

[How to Configure Vaccine USB Settings]

Select Tools → Settings from the top of the Vaccine USB main screen.

In the settings screen, select the "Display" tab, set "User Account Control" to [Enabled], and save.



With this setting, the Vaccine USB permission elevation screen will be displayed each time the software is launched. Please select the administrator username and enter the password if necessary.

### ✓ **About Using in Virtual Environment**

While this product has been tested in certain virtual environments (undisclosed), we do not guarantee operation in all virtual environments. When using in a virtual environment, please verify operation in your specific environment before use.

In some virtualization software, the Vaccine USB3 may not be recognized properly.

Additionally, USB device recognition and mounting processes in virtual environments are not supported.

For any questions or issues related to virtual environments, please contact your virtualization software provider directly.

We do not provide support for these matters.

#### [Troubleshooting Recognition Issues]

The following methods may improve device recognition:

- Change the USB settings in your virtualization software to USB 2.0 mode
- Try one of these alternative connection methods:
  - Direct connection to a USB 2.0 port
  - Connection via a USB 2.0 compatible hub
  - Connection using a USB 2.0 cable

#### ✓***About Logout and Suspend***

VaccineUSB3 does not support OS logout or suspend (e.g., sleep, hibernation). Please ensure that you always remain logged in while using this product.

## 6 Usage Flow and Tutorial Video

Below is the flow from setting up this product to using it.

### License Activation

License Activation (Activation)	Update the definition files on a PC connected to the internet. Activation will be performed, and the license will start.
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### Using the Product

Execute Virus Scan	Connect to the target device and perform a virus scan.
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Check Virus Scan Results (Log)	When the virus scan is complete, the virus detection results will be displayed on the screen. The results are also indicated by two LEDs (blue and red) on this product. By checking the log, you can confirm the status of virus infection.
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(If a virus is found) Execute Virus Deletion/Quarantine	If a virus is discovered, confirm from the virus scan results that it is safe to delete the virus file. After confirming there are no issues, select "Scan + Immediate Removal" or "Scan + Immediate Quarantine" to delete or quarantine the virus.
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We have prepared videos on VaccineUSB Tutorial.

Press [View Online Help(Video)] on the VaccineUSB's startup screen. Please check Tutorial Video on the Vaccine USB3 webpage.



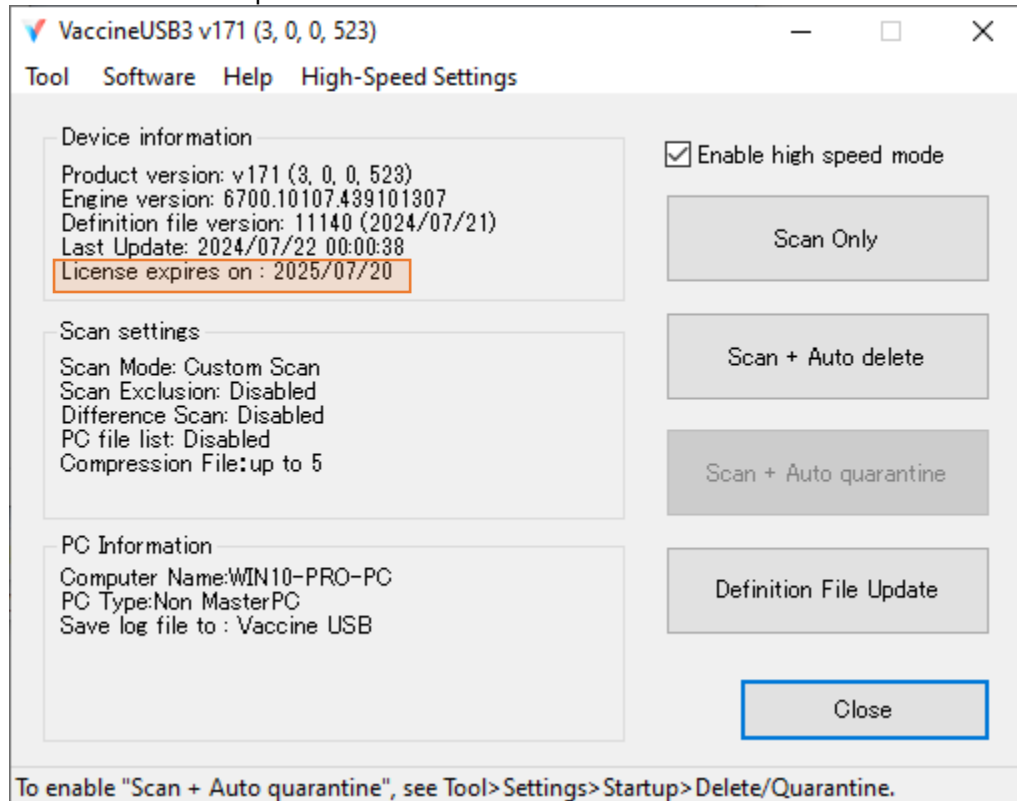
# 7 Activation and Definition File Update

Always update the virus definition files before performing a virus scan, and use the latest virus definition files.

## License Activation Method (Activation)

When you update the definition files for the first time, the license will automatically start (activation).

Check the license expiration date on the main screen. \*Please refer to the next section for how to update definition files.




## How to Update Definition Files

1: Connect this product to a PC connected to the internet, target this product as the device, open the [CD-ROM] icon on the OS computer, and double-click the [*StartUp.exe*] icon.

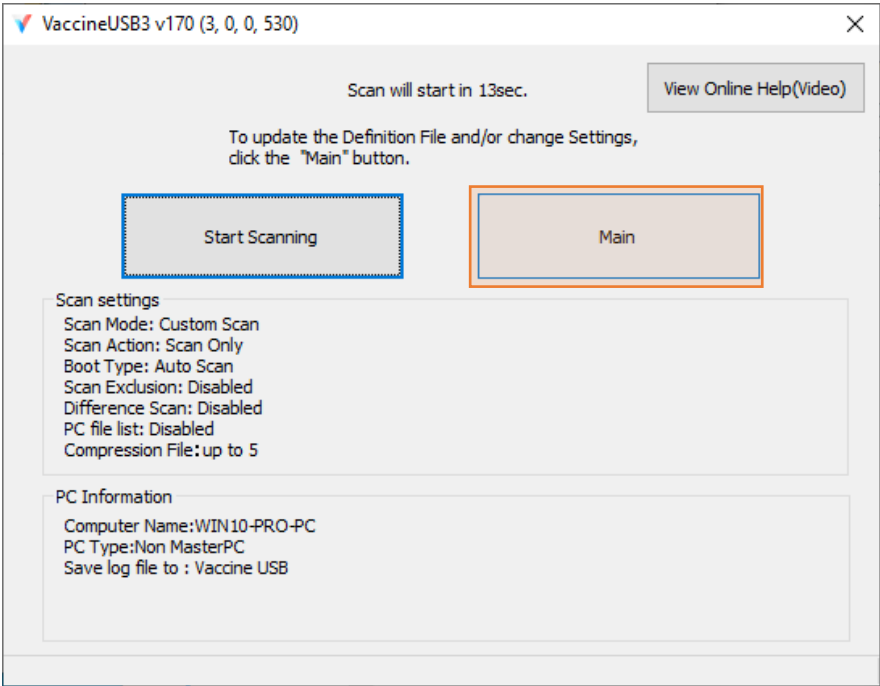
For the first time, the license agreement will be displayed. Please check the content and if there are no issues, press the [OK] button.



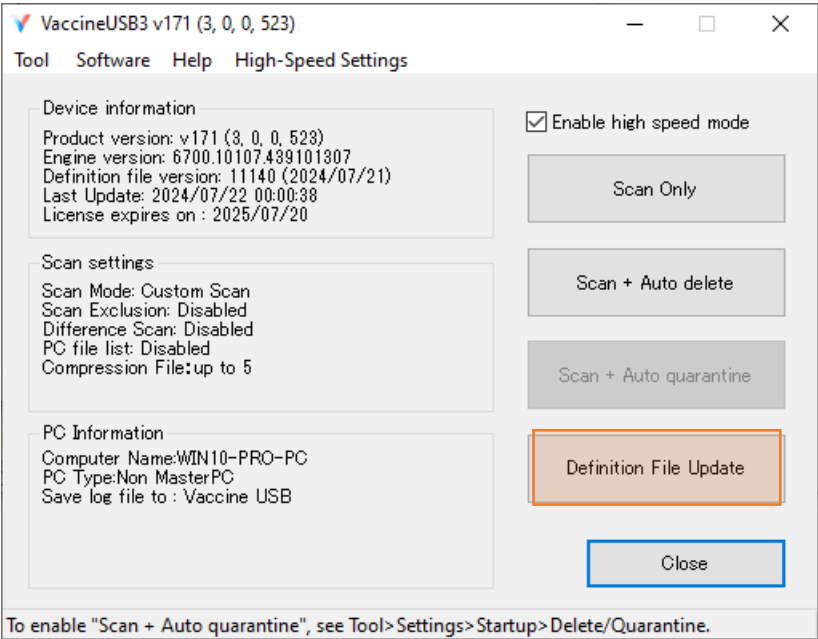
 <b>NOTE</b>	A message prompting you to restart may appear, but you don't need to restart. If displayed, click the [No] button.
	If the definition file update fails, please check with your administrator that access to <a href="http://update.nai.com/">http://update.nai.com/</a> is allowed.

Click the [Main] button on the following screen.

\*When this startup screen is displayed, the scan will start automatically after about 15 seconds, so please perform the operation before then.



Click the [Update Definition File] button on the main screen and follow the on-screen instructions.



After updating the virus definition file, a software update check will be performed. If a higher version than the current one is found, a software update announcement screen will be displayed.

Caution	Depending on the communication environment, downloading virus definition files may take time. Do not remove this product from the target device or PC while downloading virus definition files. Confirm that the access LED (green) is not blinking before removing. Forcibly removing it may damage the data and cause this product to malfunction.
---------	---

## Update virus definition files on multiple Vaccine USBs simultaneously

We provide the DatCharger3 software, which updates virus definition files on multiple Vaccine USBs at the same time. DatCharger3 is designed to assist with updating definition files on Vaccine USB3 devices.

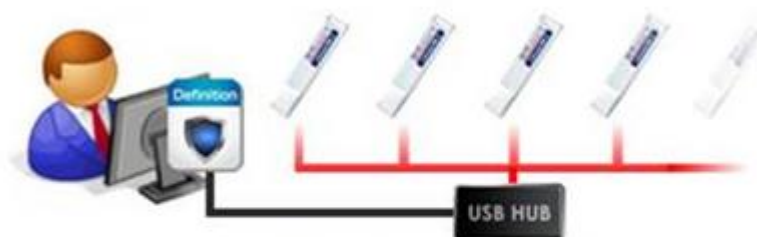
It can update the definition files of up to eight devices at once, thereby reducing your working time and effort.

\*Note: Software updates are not available.

\*Japanese text only



Now



Use DatCharger3

### Download

Please download Dat Charger3 from [here](#).

\*This software is Japanese text only.

# 8 Virus Scan

## Types of Virus Scans

This product offers three types of virus scans detailed as follows

Type	Description
Scan Only	Scans files on the PC to detect viruses. Viruses are detected but not removed. It is recommended to start with this mode to ensure that it is safe to delete the detected viruses, then proceed to use the Scan + Auto Delete or Scan + Auto quarantine mode for removing or quarantining the virus.
Scan Auto Delete	Scans files on the PC, and deletes any detected viruses immediately. Note that this will delete the virus even if it is found in a critical file, so please be cautious.
Scan Auto Quarantine	Scans files on the PC, and quarantines any detected viruses immediately. Note that this will quarantine the virus even if it is found in a critical file, so please be cautious. Quarantined files will be stored in a specific folder on your PC.


\*\*SD cards and USB drives are scanned for viruses by default.\*\*

\*\*Network drives are not scanned by default.

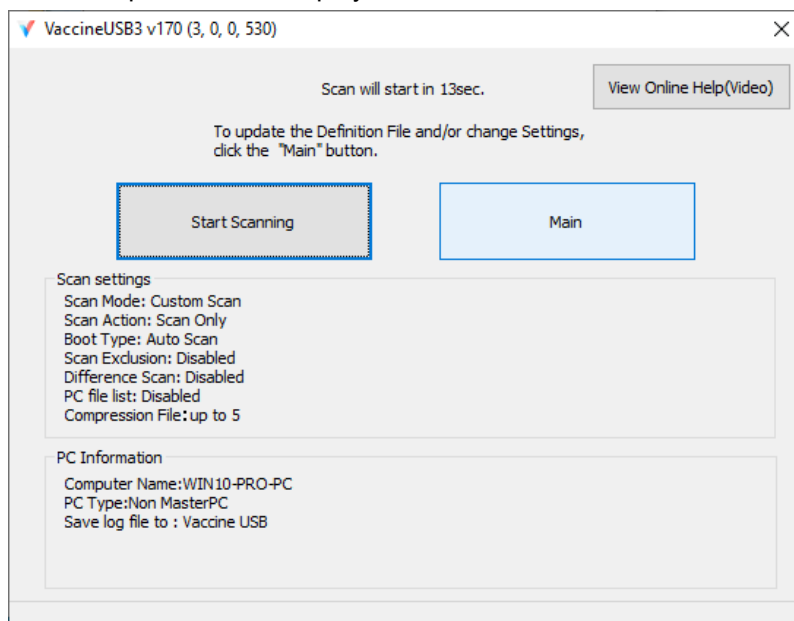
## Virus Scan

Connect the product to the target, open the OS's [CD-ROM] icon, and double-click the [*Startup.exe*] icon.



 <b>NOTE</b>	A message prompting you to restart may appear, but there is no need to restart. If it appears, click the No button
--	--

The startup screen will display



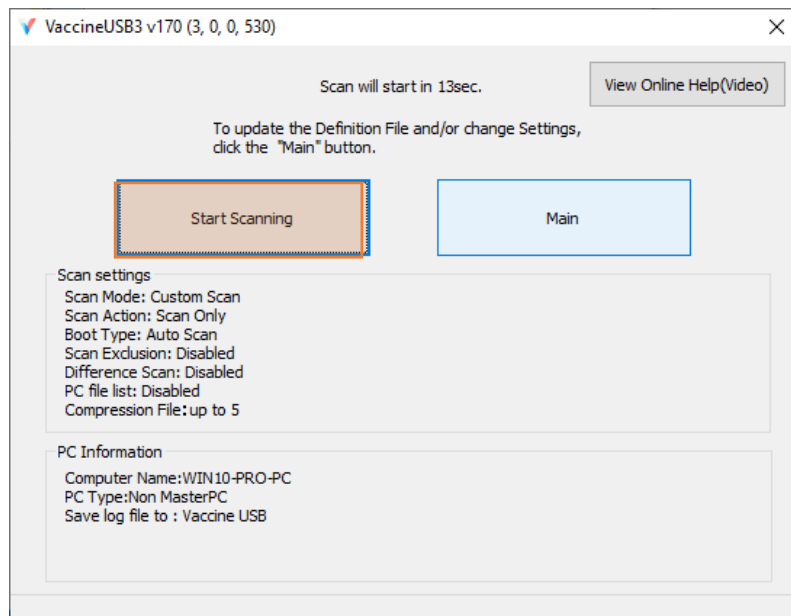
There are three ways to initiate a virus scan.

1	Click the [Start Scanning] button on the startup screen to conduct the preset virus scan.
2	Wait for 15 seconds on the startup screen, and the virus scan will start automatically.
3	Navigate to the main screen and select [Scan Only] or [Scan Auto Delete /Quarantine] to start the virus scan.

## Each Virus Scan Method

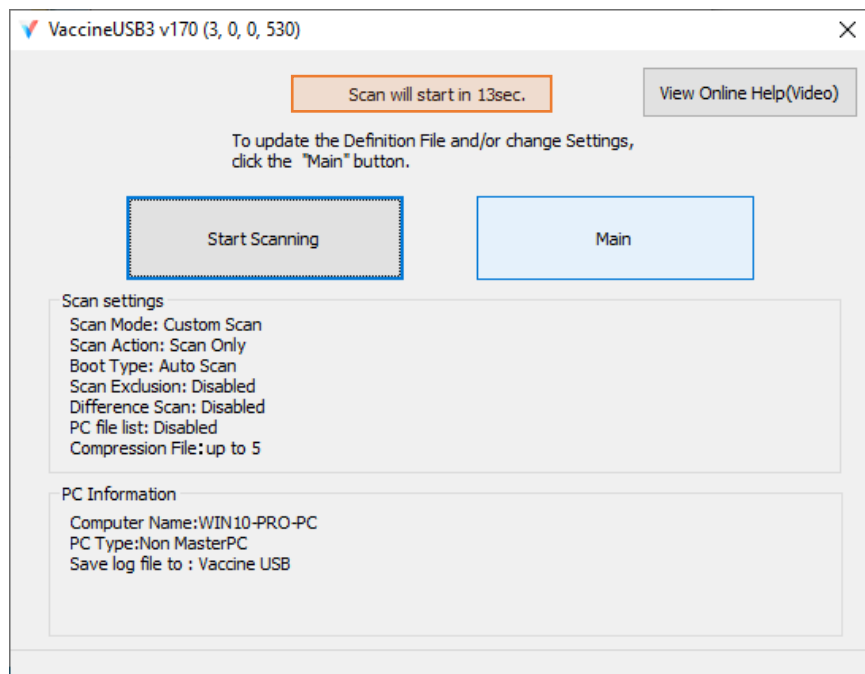
- 1 Click the [Start Scanning] button on the startup screen to conduct the preset virus scan.

Click the [Start Scanning] button on the startup page to start scanning.



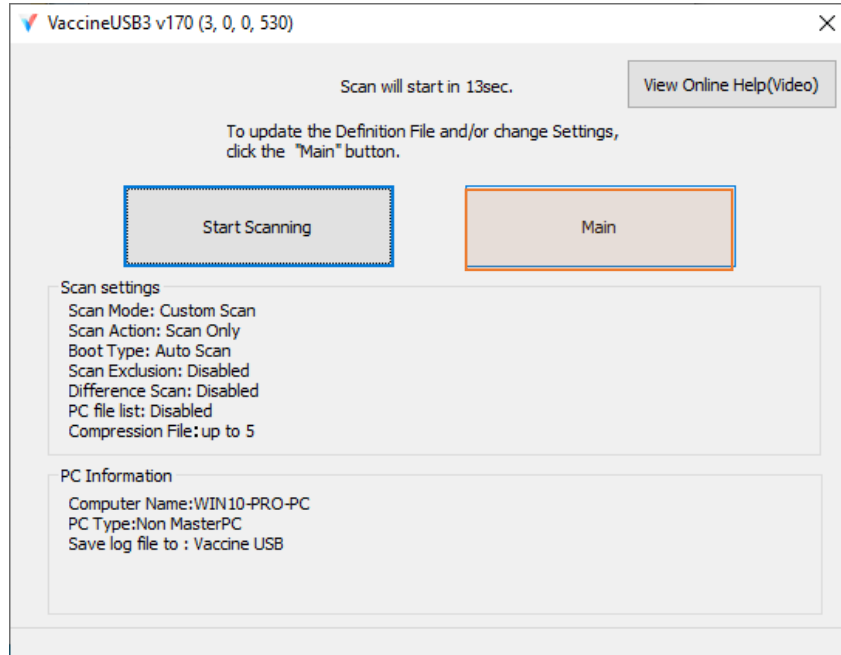
- 2 Wait for 15 seconds on the startup screen, and the virus scan will start automatically.

Wait for 15 seconds on the startup screen to automatically begin the virus scan.

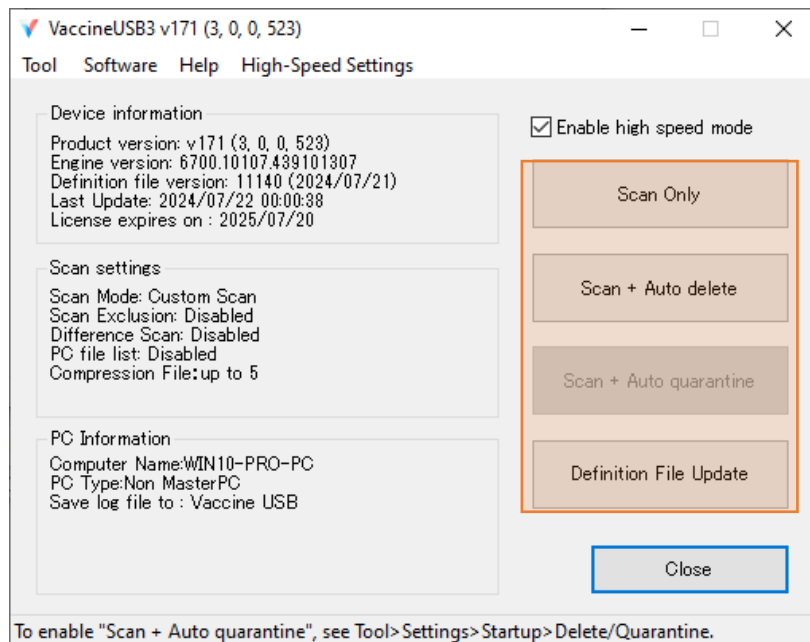


3 Navigate to the main screen and select [Scan Only] or [Scan Auto Delete /Quarantine] to start the virus scan.

Press the [Main] button on the startup screen to go to the main screen.

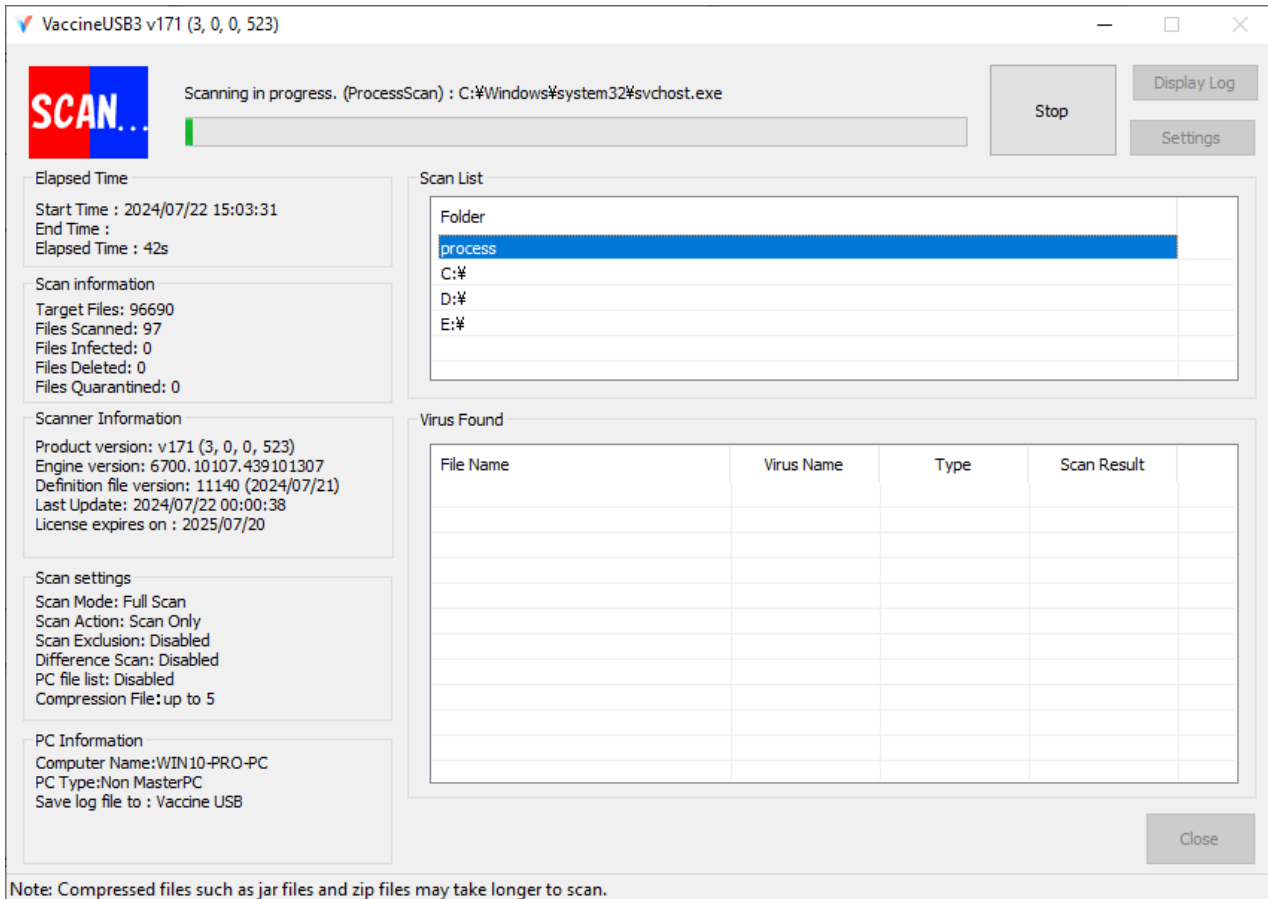


On the main screen, select [Scan Only], [Scan Auto Delete], or [Scan Auto Quarantine], and click the desired option. The selected virus scan mode will start.

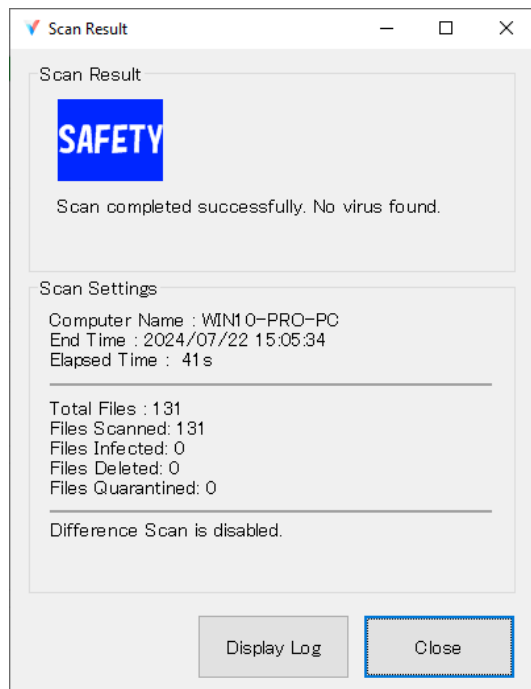


\* To switch to [Scan + AutoQuarantine], please set from the settings menu.

The scan screen opens and the scan will start.








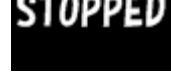


The result of the scan will be indicated on the screen.






## Virus Scan Result




### Scan Result

Scan result on the screen	Message	Description
	The scan completed normally. No virus detected.	This message is displayed when no virus was detected.
	The scan completed normally. Viruses detected and all of them deleted.	This message is displayed when viruses were detected and all of them were deleted.
	The scan completed normally. Viruses detected and all of them isolated.	This message is displayed when viruses were detected and all of them were isolated.
	Viruses detected.	This message is displayed when viruses were detected. * This message is displayed when the scan mode is set to [Scan Only]
	Some viruses not deleted.	This message is displayed when viruses were detected and not all of them were deleted. * This message is displayed when the scan mode is set to [Scan+Delete].
	Some viruses not isolated.	This message is displayed when viruses were detected and not all of them were isolated. * This message is displayed when the scan mode is set to [Scan+Isolation].
	Error in Vaccine USB.	This message is displayed when an error occurred to Vaccine USB. * The result up to the occurrence of the error will be displayed on the scan information.
	Vaccine USB aborted by user.	This message is displayed when operation of Vaccine USB was terminated by the user. * The result up to the cancellation will be displayed on the scan information.

### Scan Result (LED)

When a virus scan is completed, the result will be determined. The red LED on Vaccine USB will light when viruses are detected and the blue LED will light when none are detected.

Blue LED	Red LED	Operation Status
Blinking alternately		Scan in progress
	-	Scan completed: No infection detected or infected files were successfully deleted or isolated.
-		Scan completed: <b>Infection detected</b>
-		Program error has occurred

	indicates blinking
	indicates lighting up
	indicates no light





### When viruses are detected

When viruses are detected, check the virus scan result to ensure that deleting the infected files poses no issue. After confirming that it is okay to delete the files, select [Scan+Delete], [Scan+Quarantine] to delete or isolate the viruses.

To remove Vaccine USB, click the [Close] button and click the [Close] button on the main screen.

**\* Hagiwara Solutions Co., Ltd., does not respond to inquiries on virus information. Thank you for your understanding.**

## In Case Virus Cannot Be Deleted

If a virus cannot be deleted even by repeated VirusScan Deletion No Prompt or VirusScan Quarantine No Prompt, the virus may have infected system files or system memory. In such a case, the virus needs to be handled properly depending on its type.

### [If the virus cannot be removed]

#### Boot Scan:

Regular anti-malware software runs within an operating system like Windows, which may make it difficult to access malware deeply embedded in the OS. "Vaccine USB Boot Scan" directly boots the PC from a USB drive. It provides direct access to disks and file systems without interacting with the installed operating system, enabling it to detect and eliminate hidden malware or malware that activates during OS startup. This method can also be effective on devices running older operating systems.

For instructions on how to perform a Boot Scan, please click [here](#).

## VirusTotal: A Free Online Service for Examining Suspicious Files

*Introducing VirusTotal: A Free Online Service for Examining Suspicious Files Information current as of December 2024*

**Note:** Please use this service at your own discretion. We cannot answer questions regarding this site.

VirusTotal is a free online service that allows you to analyze suspicious files and URLs using multiple antivirus engines. It is operated by Chronicle, a security division of Google. It's a convenient website that performs multiple virus checks in one go. URL: <https://www.virustotal.com/>

### Key Features and Characteristics:

- **File Scanning:** You can upload files from your computer to check for viruses and malware infections.
- **URL Scanning:** You can enter a website's URL to check if the site is safe.
- **Uses Multiple Antivirus Engines:** It displays results from over 60 antivirus engines (including well-known ones like Kaspersky, McAfee, Norton, Avast, and Trend Micro), increasing the chances of detecting threats that a single engine might miss.
- **File and URL Search:** You can search the database for information on files and URLs that have been scanned in the past.
- **Community Features:** Users can share information and discuss analysis results with each other.

- **API Availability:** An API is provided for developers, allowing them to integrate VirusTotal's functionality into their own applications.
- **Free:** Basic features are all available for free.

## Benefits of VirusTotal:

- **High Detection Rate:** Using multiple antivirus engines increases the probability of detecting threats compared to using a single engine.
- **Objective Evaluation:** Comparing the results from multiple engines allows for a more objective assessment.
- **Convenience:** It's easily accessible via a website, requiring no special software installation.
- **Up-to-Date Threat Information:** The constantly updated database ensures scans are based on the latest threat information.

## Points to Note Regarding VirusTotal:

- **Not a 100% Guarantee of Safety:** It should be used as a reference, and even files or URLs deemed safe by VirusTotal may not be absolutely safe.
- **Possibility of False Positives:** Some antivirus engines may incorrectly flag safe files as threats.
- **Privacy:** Uploaded files are stored in VirusTotal's database, so avoid uploading files containing sensitive information.
- **File Size Limit:** There's a limit to the size of files that can be uploaded.
- **Requires Internet Connection:** An internet connection is needed to use the service.

## How to Use:

1. Access the VirusTotal website: <https://www.virustotal.com/>
2. Click "Choose file" to upload the file you want to examine, or enter the URL you want to check in the URL field.
3. Click "Search" or "Confirm."
4. The inspection results will be displayed.

## Summary:

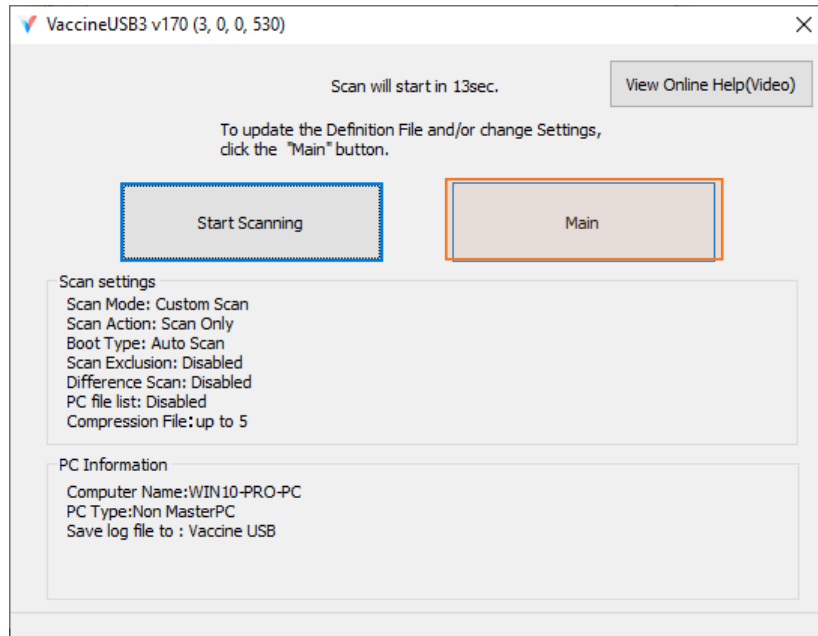
VirusTotal is a very useful tool for checking the safety of files and URLs. However, it's important to understand that it's not perfect and should be used in conjunction with other security measures.

## 9 Checking Logs

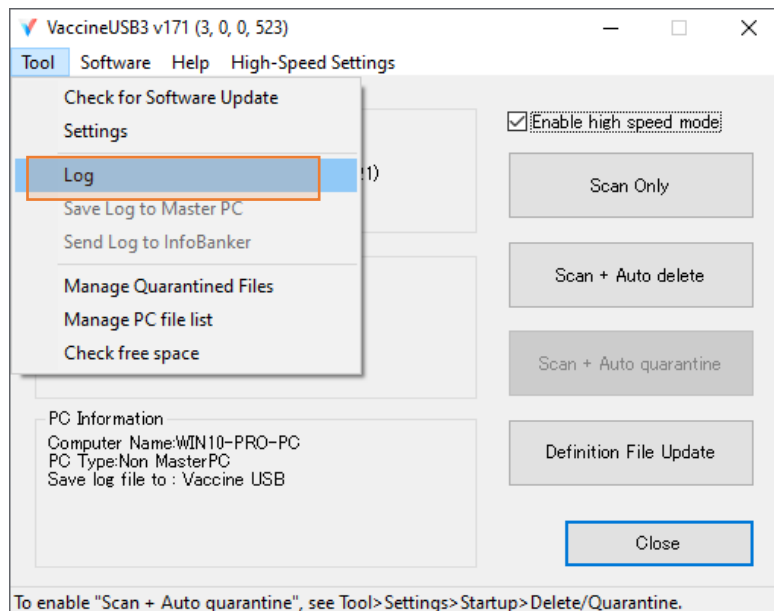
Scan results are saved as log files within the Vaccine USB. A log file is generated each time a scan is performed. Please follow the steps below to check the logs:

1: Connect this product to your PC and click the [Main] button on the startup screen.

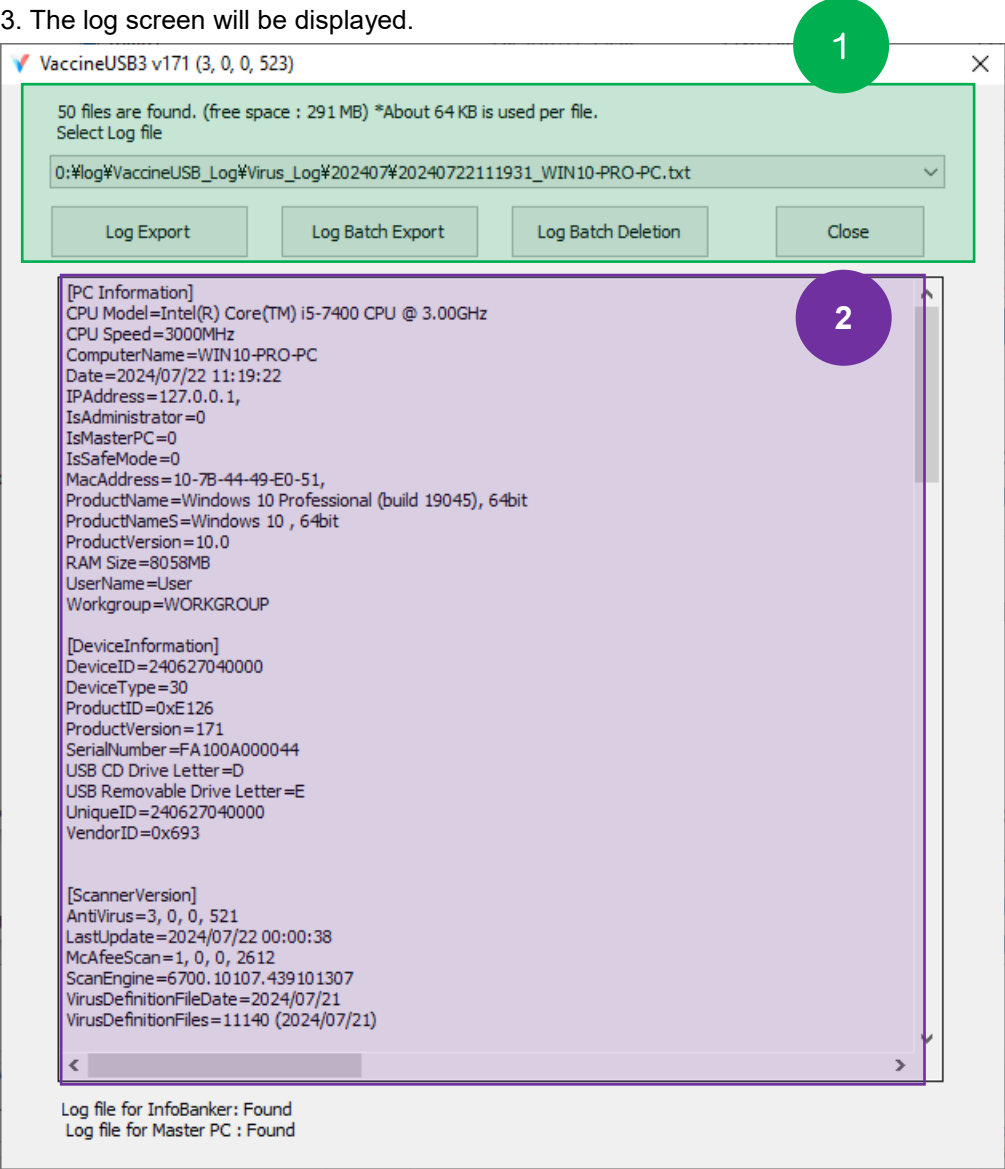
*Note: If approximately 15 seconds pass after this screen is displayed, the scan will start automatically, so please perform the operation before then.*



2. Select [Tools] from the toolbar and click [View Logs].



3. The log screen will be displayed.



1

Displays the number of log files and available space in the log file storage area  
Displays log file storage location / log file name

Item	Description
Log file name	YYYYMMDDHHMMSS_ScannedComputerName.txt
Log storage folder	Stored under the YYYYMM folder, separated into virus-present/virus-absent. Virus present: Stored in the Virus_Log folder. Virus absent: Stored in the NoVirus_Log folder.  Example: For a virus scan conducted in September 2012 with a virus present, the storage folder would be: Folder: VaccineUSB\Virus_Log\201209

Log control buttons

Item	Description
Log Exports	Exports the displayed log as a file to a specified location *1 Note: Exporting the report format(PDF) to a PC requires Windows 10 or higher.
Log Batch Exports	Exports all saved logs as files to a specified location *1 Note: Exporting the report format(PDF) to a PC requires Windows 10 or higher.
Log Batch Deletion	Management service logs and management PC log files are also deleted
Close	Closes the log screen and returns to the main screen

\*1: You can choose from text, CSV, and report format (PDF) as the log output format.  
The log output format can be set from the settings (Log Settings2 tab).

2

Display contents of selected log file

## 10 Saving Logs as Malware Diagnostic Report/CSV Format

You can choose from the following three file formats when saving logs from the Vaccine USB to a PC:

File Format	Description
Text Format	Standard text format used up to Vaccine USB3-v201.
CSV File Format <b>New!</b>	CSV file format that is easy to manage and edit. It can also be imported into SIEM (Security Information and Event Management) products.
Malware Diagnostic Report (PDF) <b>New!</b>	Optimal format (PDF) for human review. Check a sample of the report <a href="#">here</a> . *This report format is stored in both Japanese and English versions. It can also be used as a "Malware-Free Report" compliant with semiconductor security standards (SEMI-E187/E188).

[File Format Storage Settings]

In Vaccine USB3-v210 and later, by default, text format, CSV format, and malware diagnostic report formats (both Japanese and English versions) are generated when saving logs to a PC.

You can select the file format for saving logs from the [Log Settings 2] section in the settings.

Log File Save Format

You can set the format when saving logs from the log viewing screen to your PC.  
If multiple formats are selected, multiple files will be saved.

☒ Text file format \*Standard

☒ CSV file format

☒ Malware diagnostic report format (PDF) \*Recommended

# 11 About the Malware Diagnostic Report

The Malware Diagnostic Report (in PDF format) is generated from scan results (logs) obtained using Vaccine USB3, presented in a structured report format. It can also serve as a "Malware-Free Report" compliant with semiconductor security standards (SEMI E187 and E188).

Click [here](#) to view a sample of the Malware Diagnostic Report.

## [Issuing Company Name, Device/Product Name, and Vaccine USB3 Management Number for the Report]

This report is intended to serve as a Malware Investigation Report that users can submit to their business partners or other stakeholders.

Users can freely configure the "Issuing Company," "Scanned Device/ Product Name" and "Vaccine USB3 Management Number" to appear on the report. These settings can be configured in the settings interface under [Log Settings 2].

VaccineUSB3 Malware Diagnostic Report

Powered by HAGIWARA Solutions

Issue Date: 2025/04/07  
Certificate ID: FA100A000779\_2025\_0407\_094205  
Issuing Company: Hagiwara Semicon

Malware scan has been executed on the target device. This document certifies the implementation of the scan.

Diagnostic Results (Overview)

Scan Result  
No Issues

Scanned Files  
235

Detected Malware  
0

Scanned Device/Product Name

ABC0123456789-Z model-H

Scan Execution Date/Time

2025/04/07 09:39:49

Anti-Malware Product Name

VaccineUSB3

Anti-Malware Product Version

210

Anti-Malware Product Definition File Version

11391 (2025/04/01)

Scanned Device Computer Name

DESKTOP-39N5LFV

Scan Range

C:\Users\HSOL\Desktop\ログ\

Number of Scanned Files

235

Number of Detected Malware

0

Scan Result

No malware detected. (Scan Only Setting)

Anti-Malware Product Information

Product Name

VaccineUSB3

Product Serial Number

FA100A000779

Management Number

AssetID 2011

Product Version

210

## 12 Performing a Fast Scan (Time-saving Method 1)

Fast Scan mode is a mode that accelerates virus scanning and can shorten scan time.

The Fast Scan mode is optimized for PCs with high CPU specifications (number of cores) and more available memory (RAM).

Please note that this mode uses the CPU and memory to the maximum extent, so the PC may become very slow during use.

- It is recommended to use Fast Scan mode for all but very old PCs.

- The number of files scanned and various settings remain the same as in normal mode.

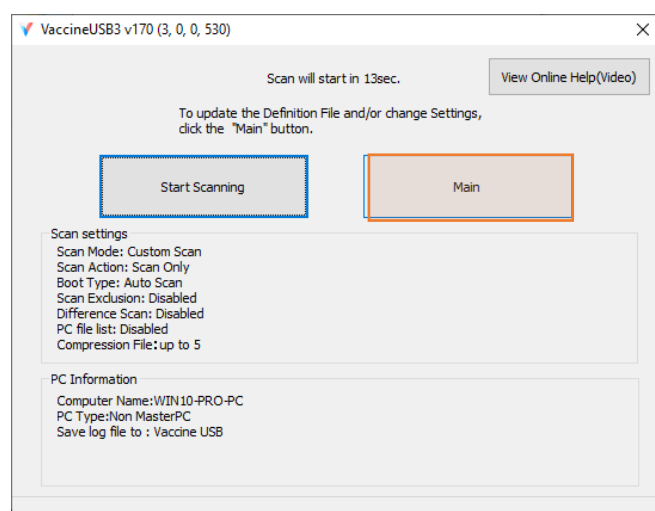
Item	Fast Scan Mode	Normal Scan Mode
Scan Time	Short	Standard
PC CPU Usage	High	Standard
PC Memory Usage	High	Standard
Files Scanned	No change in the files scanned	
Setting	No change in how settings are applied	

### -Setting Method

Connect this product and click the [Main] button on the following screen:

Note: If approximately 15 seconds pass after this screen is displayed,

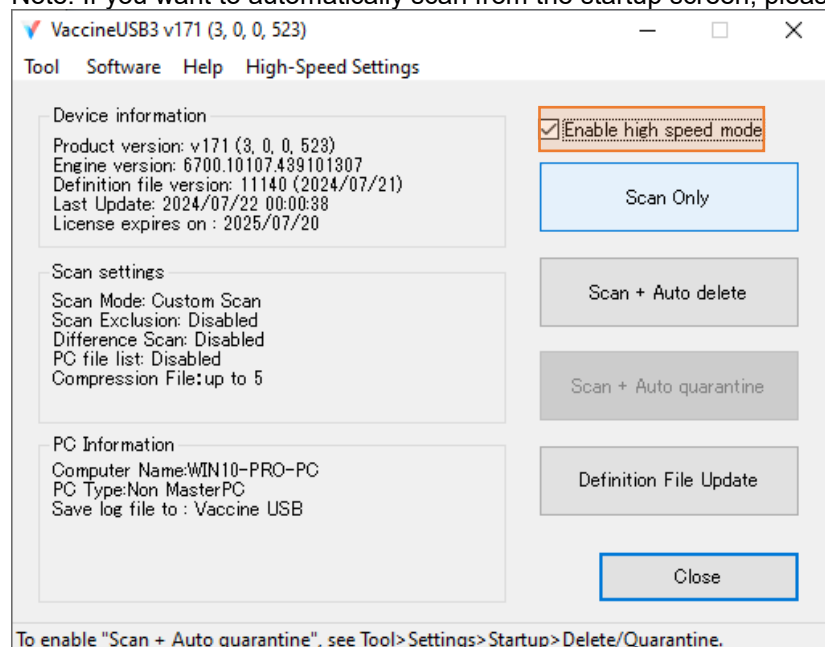
the scan will start automatically, so please perform the operation before then.



Check the [Enable Fast Scan Mode] box on the main screen. This completes the setting.

Perform the scan with this box checked.

Note: If you want to automatically scan from the startup screen, please check this box in advance.

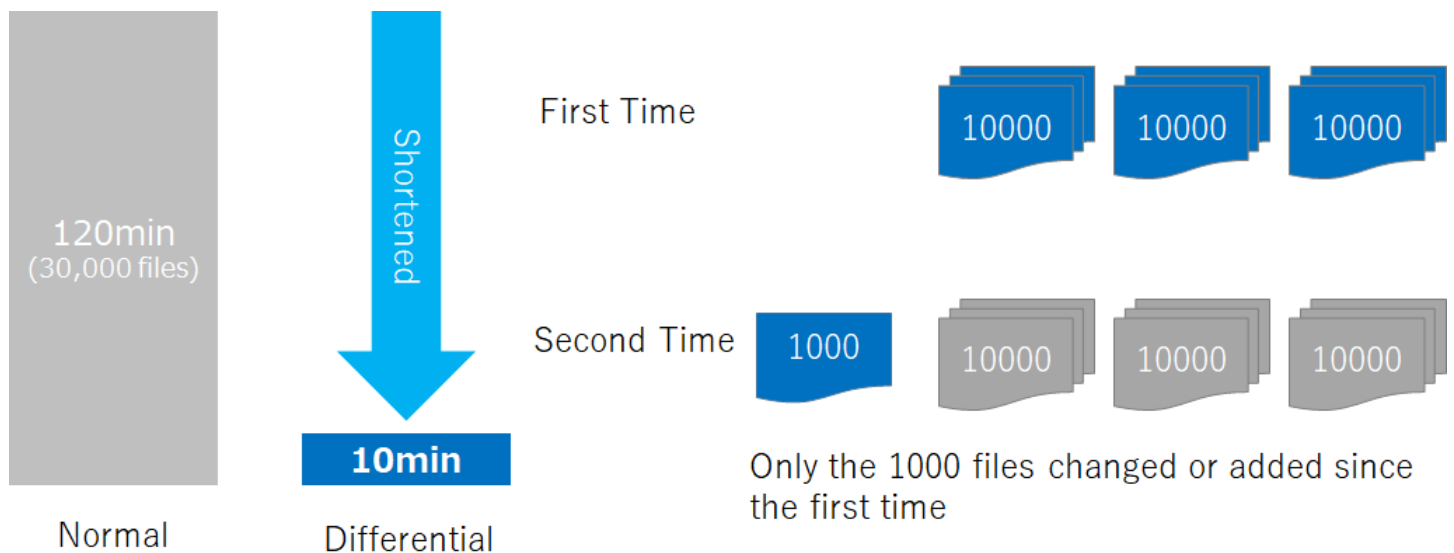


## 13 Scanning Only the Differential Scan (Time-saving Method 2)

The differential scan function is a feature that only performs virus scanning on files that have changed or been added since the last virus scan. By using this function, you can significantly reduce the virus scan time from the second scan onwards.

The criteria for files to be skipped for scanning are when the "File Name," "File Size," and "File Modified Date and Time" all match.

Example: If a PC had 30,000 files, the first virus scan took 120 minutes. If there were 31,000 files on the second scan, the target would be 1,000 files, and the virus scan would finish in less than 10 minutes.



To extract the differential files (1,000 files) in the above example, the file information (PC file list) of 30,000 files scanned in the first scan is saved on the Vaccine USB. This PC file list is compared\* with the files on the PC at the time of scan execution, and only the files that show differences are virus scanned.

\*Files with changes in creation date/time, size, or files not included in the PC file list (added files)

### -How to Set Up Differential Scan

You can set up the differential scan function from the Settings screen. Select and save [Enable differential scan] in the [Differential Scan] section.

Difference Scan

Scan only files that have been changed or added since the last scan.

☐ Disable Difference Scan (Default)

☒ Enable Difference Scan

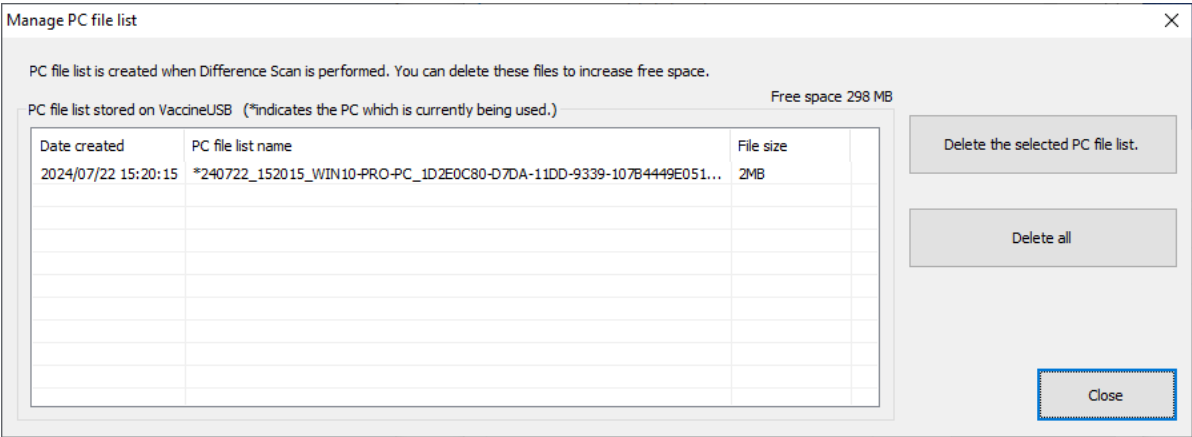
\*When enabled, scan mode will be fixed to Full Scan and Scan Exclusion will be disabled.

When differential scan is enabled, the scan mode is fixed to "Full Scan" and the exclusion list function is **disabled**.



PC File List Management

The PC file list is saved on the Vaccine USB, but you can check and delete this PC file list. Select Main screen -> Tools -> PC File List Management. You can move to the management screen.



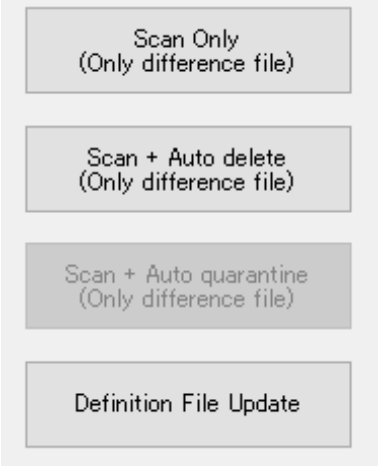
You can delete the PC file lists saved on the Vaccine USB using [Delete selected PC file list] or [Delete all PC file lists].

PC File List Specifications

Item	Description
PC File List Size	Variable
Save Location	Vaccine USB
Maximum Storage	300MB *If the total size of PC file lists exceeds 300MB, you cannot save the PC file list. An error will be displayed. In such cases, please delete from the PC file list management to free up space.
Acquisition Timing	At the end of virus scan
PC File List Name Rule	Virus scan execution date time_ Computer name_ PC unique key Example:170329_175408_WINSEV3E_40279CD-C4FE-DC11-BDEE-8E13CDB985
Other Rules	Only the latest file list is saved for one PC.  For example, if you perform virus scans 3 times on PC (A), after the 3rd scan, only the file list from the 3rd scan will be saved. The 1st and 2nd files are deleted sequentially.

Differential Scan Display

The button display changes when performing a differential scan from the second time onwards



## 14 Not Scanning Compressed Files (Time-saving Method 3)

Multilingual files, Java Archive (extension: jar), etc., may contain thousands to tens of thousands of files within a compressed file. It takes a very long time to safely decompress these and perform virus scanning.

Normally, files up to 5 layers deep in compressed files are virus scanned, but we have prepared an option to skip compressed files. Please use this when you need to shorten the virus scan time.

### Setting Method

You can set the differential scan function from the Settings screen. Select and save [Do not virus scan compressed files] in the [Compressed File Scan Settings] section.

#### Compressed File Scan Settings

Compressed files may contain thousands to tens of thousands of files, which can increase virus scan time.  
Use this option if you need to reduce virus scan time.

- ☐ Scan up to 5 layers (default)
- ☒ Do not scan compressed files
- ☐ Scan up to 300 layers

## 15 Inspecting Files That Take Time to Scan (Time-saving Method 4)

We have prepared a mode (Long-time File Inspection Mode) where customers can check files that take time to scan.

When you perform a virus scan using this mode, it will save a log (file name and seconds) of files that take more than 10 seconds to scan.

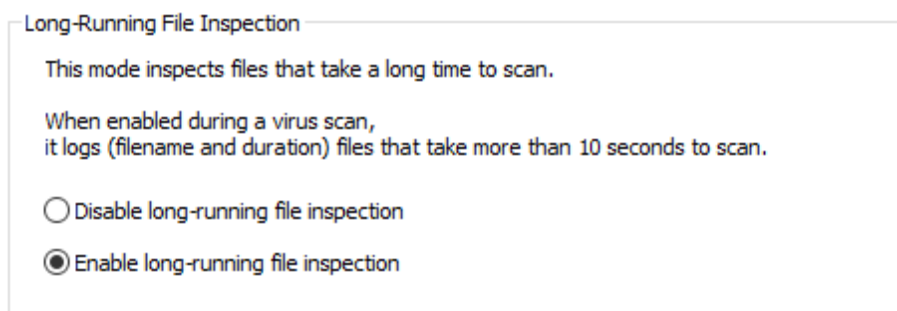
If there are files that take a significantly long time, please consider setting exclusions for those files.

Virus scanning using the long-time file inspection mode takes longer than usual.

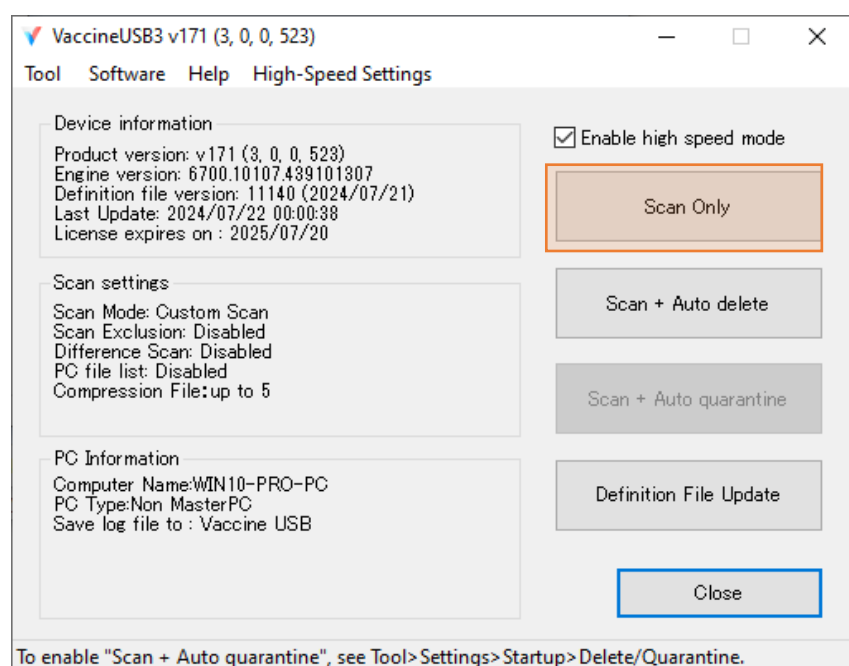
Please use this only when you need to check files that take a long time to scan.

### Setting Method

You can set the differential scan function from the settings screen. Select and save "Inspect long-time files" in the "Long-time File Inspection" section.



After that, please perform a virus scan.



A log is saved when the virus scan is completed.

Log save location	Desktop
Log folder name	VaccineUSB_Log
Log file contents	- File names (file paths) that took more than 10 seconds for virus scanning - Number of seconds taken for virus scanning

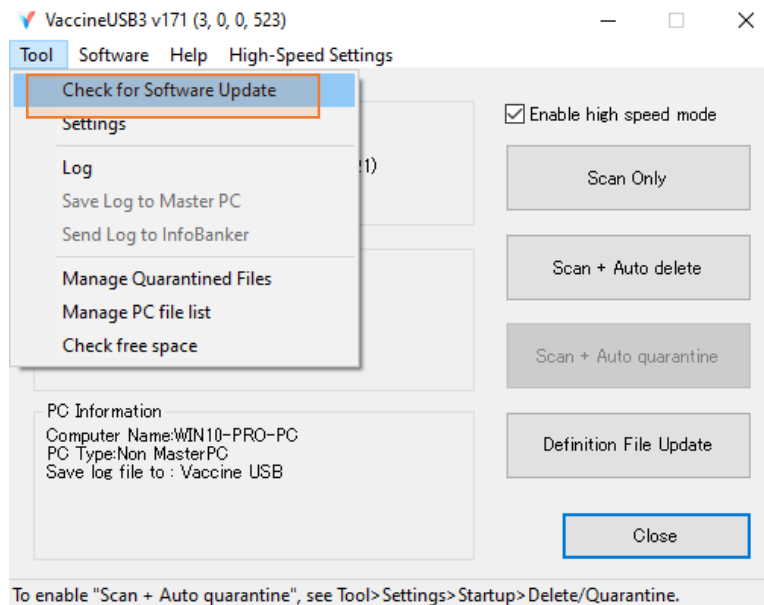
Please check the log file and, if necessary, perform file exclusions, compressed file exclusions, etc.

# 16 Other Functions

## Updating Software

Application Programs can be updated by [Software Update] under [Tool] in the menu. When there is information of an update, update the software.

Select [Check for Software Update] under [Tool] in the menu on the main screen. Follow the instructions.



## Initializing the Product

If the Vaccine USB stops functioning normally for any reason, please perform an initialization.

Please download the initialization software from [here](#).

Caution: Initializing will delete all logs and settings.

## View Instruction Manual

Open the instruction manual of Vaccine USB (this file).

Select [Open the manual] under [Help] in the main screen.

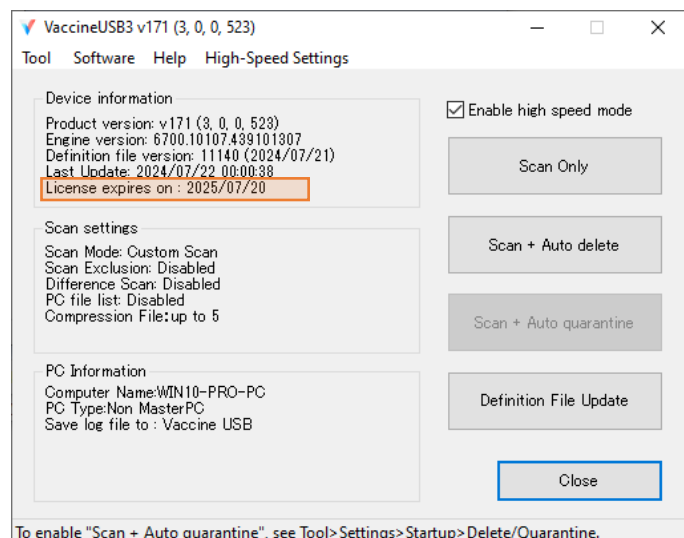
- The instruction manual of Vaccine USB opens.
- \* The instruction manual is a file in PDF format. It requires an environment to view PDF files.

# 17 License Renewal Procedure

The virus scanning software is a licensed product. When the license expires, you will no longer be able to "update definition files". Please renew your license.

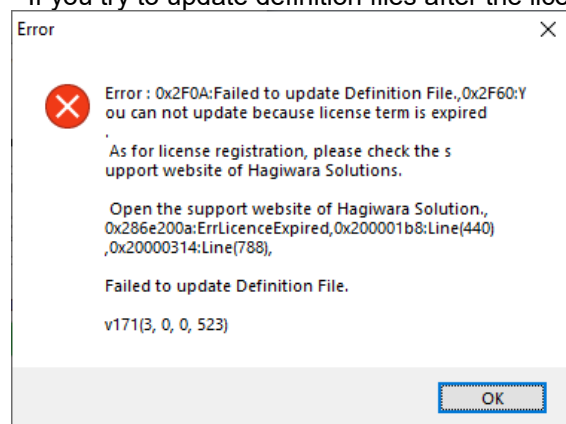
## How to check the license expiration date

Please check the license expiration date on the main screen. If it's blank, the license has not yet started.



## Behavior when the license expires

- When the license expires, you will no longer be able to update definition files.
- Functions such as virus scanning, deletion, and quarantine can still be used.
- If you try to update definition files after the license has expired, the following warning message will be displayed.



## How to renew the license

To renew your license, please check the license renewal procedure on our company's website.

\*Japanese text only

## Frequently Asked Questions about Licensing:

Can I renew my license after it has expired?	Yes, you can renew your license. The license will be extended for one year from the date of renewal.
Can I renew my license while it's still valid?	Yes, you can renew your license. The license will be extended for one year from the current license end date.
There are two types of license renewal packs, Elecom brand and Hagiwara brand. Can I use either of them for both Elecom and Hagiwara brand Vaccine USB3?	Yes, you can use either.

## 18 Using on Windows XP

**Support for Windows XP has ended.**

Although it is outside our warranty, you can use the old engine: 5600, that works on Windows XP.

Please select the 5600 engine from the settings.

Please note that support for this setting ended in 2015, and we cannot accept any inquiries regarding inoperability, malfunctions, etc. Please use it with this understanding.

## 19 Virus Infection Prevention Measures for the Vaccine USB Itself

The Vaccine USB 3 is equipped with a virus infection prevention function for the product itself.

Due to this function, no infection cases have been reported since the release of Vaccine USB3.

You can use it with peace of mind.

Virus Infection Prevention Measures	The CD-ROM drive and removable drive of Vaccine USB3 are set to write-protected at all times. This completely prevents the writing of files containing viruses.
-------------------------------------	--

The constant write-protection setting is applied to all operations, including virus scanning, definition file updates, and software updates. Therefore, viruses cannot infect (be written to) the Vaccine USB.

Definition files and log files are safely stored in a hidden area of the Vaccine USB. Even when the drive is in a write-protected state, writing to this area is performed using a special method, ensuring security.

- Despite our best effort for improving product quality and reliability, products using semiconductors in general may malfunction or become out of order.
- In the use of our semiconductor-used products, we request that customers take full responsibility for using a product using the semiconductors to prevent any malfunction or failure from damaging human life, body, or property.
- The scanning program and Vaccine USB are not fault-tolerant (i.e. a system capable of keeping process running normally even with a failure of component part of the system). It is not intended for use in applications in critical environments requiring fail-safe performance (i.e. nature of estimating occurrence of failures due to defect in design, malfunction, incorrect operation, or other factors in advance to keep the damage to a minimum at the time of occurrence). Such applications include, but are not limited to, operation of nuclear facilities, aircraft navigation or communications systems, weapons system, direct life support devices, or other applications where a failure of Vaccine USB and the scan program can directly threaten human life or damage the human body or property (collectively referred to high-risk activities). Trellix and Hagiwara Solutions Co., Ltd., expressly deny compatibility with high-risk activities whether expressed or implied.
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- Vaccine USB is equipped with UDRW Technology, a technology of USB storage with CD-ROM partition and removable disk partition combined in one device. The technology is patented in the following countries and regions.  
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