

# BitRaser®

## BitRaser Drive Eraser & Diagnostics

User Guide for version 3.0

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## 1. ABOUT BITRASER DRIVE ERASER & DIAGNOSTICS

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**BitRaser Drive Eraser & Diagnostics** software is a complete solution for permanent data erasure for storage devices and diagnostic of the computer system's health. This application erases data to prevent the recovery of sensitive data that is no longer required. Moreover, it also serves as a comprehensive diagnostic tool designed to detect issues in key components of the computer system, including the CPU, Memory, Battery, Storage, GPU, Monitor, CMOS, System Board, Keyboard, Microphone, Audio, and more. Users commonly face hardware problems such as overheating of the CPU and GPU, memory (RAM) issues, motherboard failures, and overall slow performance. BitRaser swiftly identifies these issues, providing users with timely insights into their hardware's condition.

This software features a user-friendly interface that meets statutory compliance needs with tamper-proof audit trails for data security and privacy – SOX, GLB, HIPAA, ISO27001, EU-GDPR, and PCI-DSS. The application allows the user to generate an erasure report containing the result of the process. The report can be saved to a drive/external media or collected by the BitRaser Cloud Console. Additionally, it presents component scans and diagnostic information in a grid view for easy interpretation. For each hardware component, predefined comprehensive tests are executed to detect potential issues such as bad sectors in storage drives, RAM utilization, free space, total memory, CPU usage, and temperature monitoring of the GPU and CPU. Furthermore, users can access detailed information about their hardware components, including the processor model, speed, BIOS version, vendor, and sub-vendor details.

**BitRaser Drive Eraser & Diagnostics** is a product of **Stellar**.

### **What is drive erasing and diagnosing, and how do they work?**

**Drive Erasing:** Drive erasing is the process of permanently deleting the data from a drive. In its simplest form, a drive erasure method will write all fixed values, but in more advanced algorithms, a combination of filling up a drive with random data (either 1s or 0s) plus multiple passes ensures the impossibility of retrieving the data from an erased drive.

**Diagnosing:** Diagnosing is the process that performs a comprehensive assessment of a computer's hardware, identifying potential issues and generating detailed, tamper-proof reports for effective troubleshooting and asset management.

### **Key Features of BitRaser Drive Eraser & Diagnostics**

- **Permanent Data Erasure:** Securely and permanently erase sensitive data from drives.
- **Supports Multiple Drive Types:** Supports the erasure of drives like SATA and SSD.
- **Multiple Erasure Methods:** Equipped with 20 world-class erasure methods. You can also add up to 5 custom erasure methods as per your requirement.
- **Erasure Validation:** Option to verify the erasure through Random verification or Total verification method.

- **Automatic Device Detection:** Automatically detects connected devices and provides information about them.
- **Customize Test Settings:** Option to select or deselect the pre-defined tests based on user preferences.
- **Diagnostic Analysis:** Generates both detailed and short reports of diagnostic tests.
- **Flexible Testing Options:** Provides support for Automatic and Manual tests.
- **Access to Multiple Tests:** Runs multiple tests for different components to check their functionality.
- **Non-Expiring Licenses:** Licenses never expired- Pay-per-use.
- **BitRaser Cloud Integration:** Cloud integration for user management, licenses and reports. The software saves reports on **BitRaser Cloud**.
- **Flexible Report Saving Formats:** Flexibility to save reports in **PDF**.

## 2. ABOUT THE GUIDE

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**BitRaser Drive Eraser & Diagnostics** user guide contains sequential steps to assist you through various functions. Each function is explained in detail in the corresponding sections. It covers the following major topics:

1. [About BitRaser Drive Eraser & Diagnostics](#)
2. [About the Guide](#)
3. [Getting Started](#)
4. [How To](#)
5. [Frequently Asked Questions \(FAQs\)](#)
6. [Legal Notice](#)
7. [About Stellar](#)

This guide is helpful if you are using the **BitRaser Drive Eraser & Diagnostics** application with license information on the cloud.

There are Notes in some topics of this guide for better understanding and ease of work. These Notes are given in italics.

### Acronyms used in this guide with their definitions:

ITEM	EXPLANATION
Bad Sectors/Bad Blocks	Bad sectors/bad blocks are the areas of the drive that can't be used due to permanent damage or Operating System (OS) is unable to access them.
HD	Hard disk drive (HDD) storage is made up of magnetic tape and has mechanical parts inside. This type of drive is cheaper and available with more storage space than SSDs.

KB, MB, GB and TB	This measure is used to describe memory capacity and drive storage. A kilobyte (KB) is 1,024 bytes, and one megabyte (MB) is 1,024 kilobytes. One gigabyte (GB) is equal to 1,024 megabytes, while a terabyte (TB) is 1,024 gigabytes.
PDF	Portable Document Format (PDF) is a file format designed to present documents consistently across multiple devices and platforms.
PNG	Portable Network Graphics (PNG) is a raster-graphics file format for image compression.
SSD	A solid-state Drive (SSD) is flash storage and has no moving parts whatsoever. As a result, they're smaller and take up less space in a PC. They are much faster to read and write in comparison to HDD.
User ID	Stands for User identification, which by default is the e-mail address of the user in this guide.

## 3. GETTING STARTED

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Navigate to the different sections of the manual by clicking on the links below:

- 3.1. [System Requirements](#)
- 3.2. [Boot and Run BitRaser Drive Eraser & Diagnostics](#)
- 3.3. [Getting Familiar with the User Interface](#)
  - 3.3.1. [Getting Familiar with Buttons](#)
- 3.4. [Connect to BitRaser Cloud Server](#)
- 3.5. [BitRaser Contact Information](#)

### 3.1. SYSTEM REQUIREMENTS

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Before you start the installation of **BitRaser Drive Eraser & Diagnostics**, make sure that your computer meets the following requirements

Minimum System Requirements:

- **Processor:** x86 or x64 Processor
- **RAM:** 2 GB minimum (4 GB recommended)

**Note:** For the **BitRaser Drive Eraser & Diagnostics** with BitRaser cloud licensing, you need an active internet connection.



## 3.2. BOOT AND RUN BITRASER DRIVE ERASER & DIAGNOSTICS

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**BitRaser Drive Eraser & Diagnostics** for Mac is your solution for booting for a variety of Mac systems.

Whether your Mac runs on Intel, T2, M1, M1 Max, M1 Pro, M2, M3 or M4 chipset, this tool has you covered.

Click on the respective topic below for step-by-step guidance on booting your Mac system:

1. [Boot Mac System \(T2 and lower\)](#)
2. [Boot Mac System \(M1 and higher\)](#)

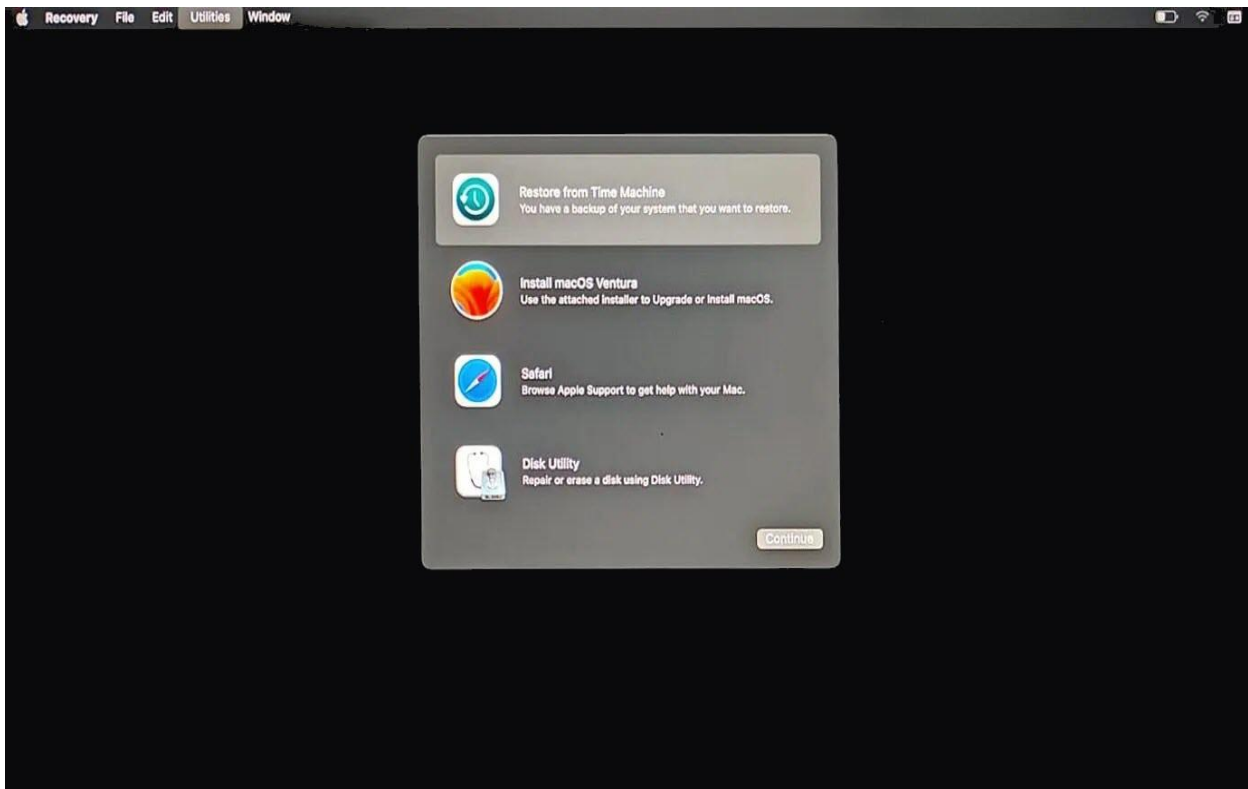
### 3.2.1. BOOT MAC SYSTEM (T2 AND LOWER)

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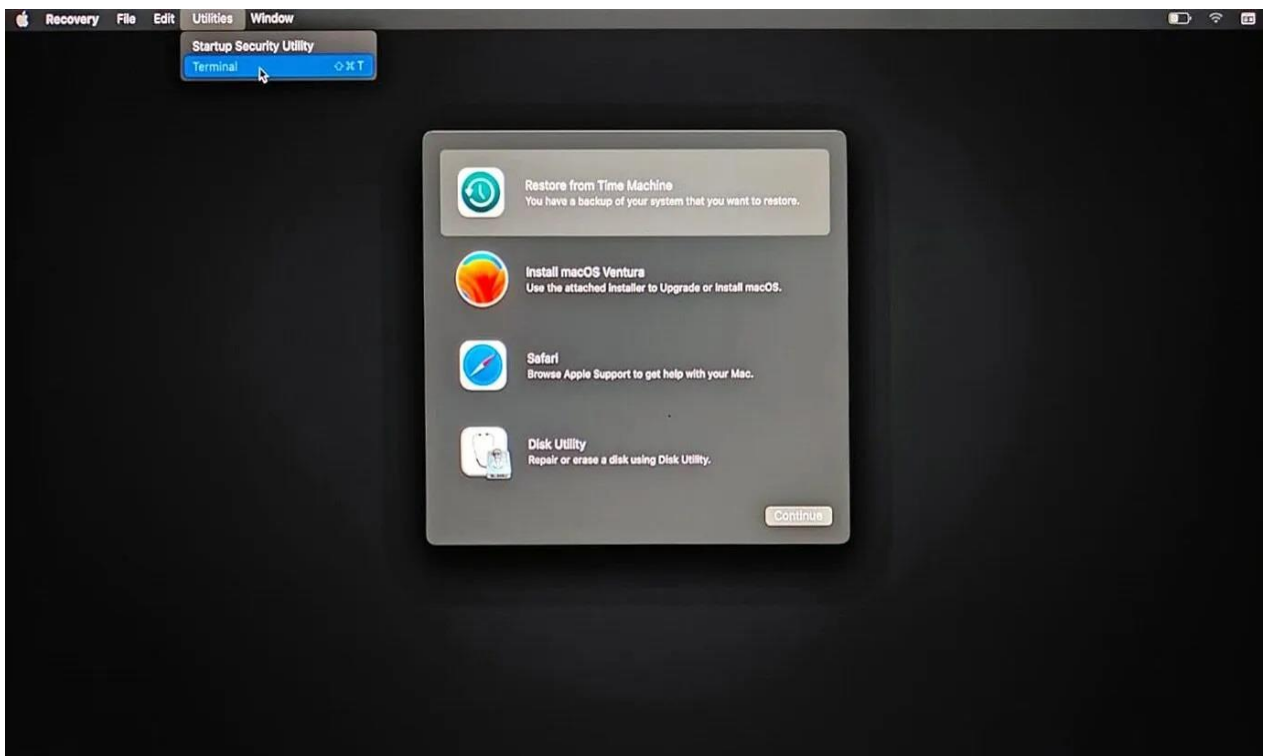
The T2 chip in Macs makes them safer by using special technology to protect your data and keep the system secure. It does this by encrypting data, making sure the system starts up securely, and keeping your information safe in real time. This chip is like a guardian for your Mac, making sure everything stays safe and sound.

**To boot Mac System (T2 and lower), follow the steps given below:**

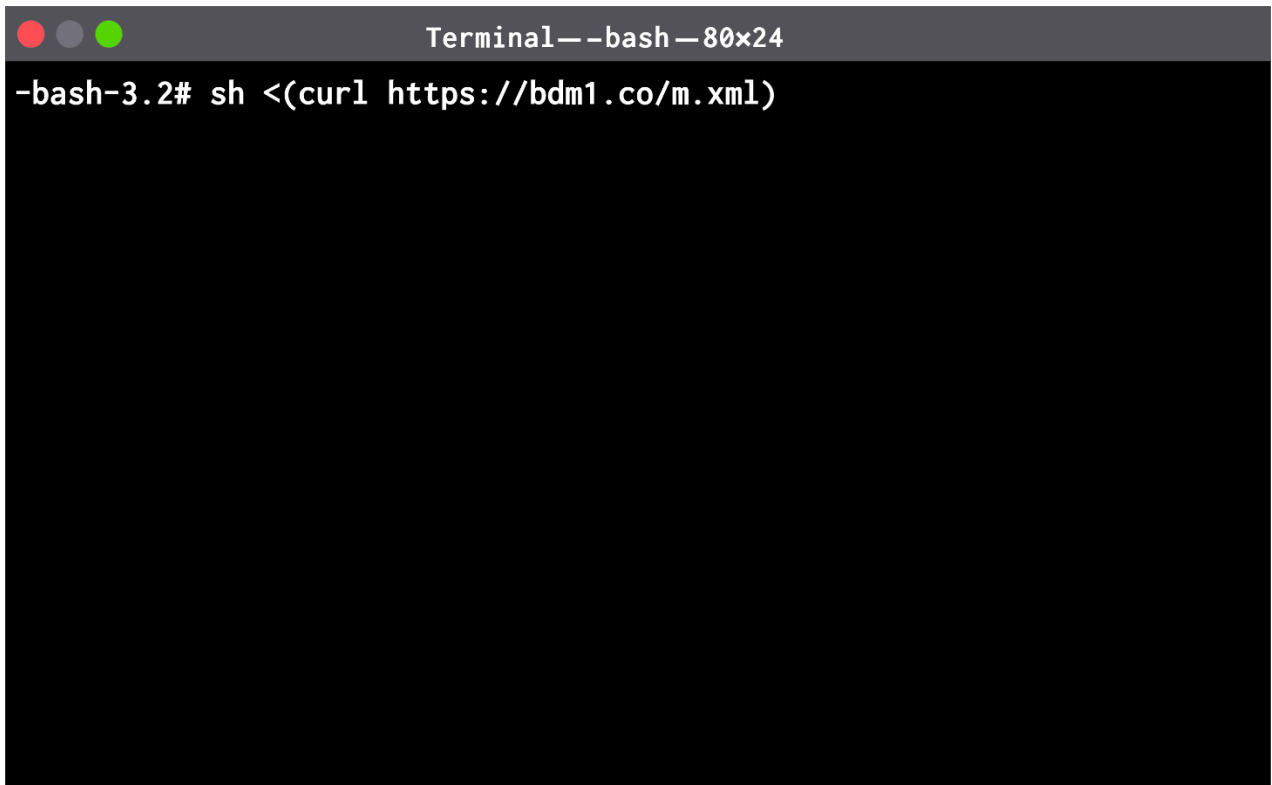
1. Press the power button, then hold the **Command + R** button until the process bar appears on the screen. After completing the booting process, the system enters in the recovery mode.
2. Connect the system to a stable Wi-Fi network.



3. Navigate to '**Utilities**' in the menu bar and click '**Terminal**'.



5. In the Terminal, enter `sh <(curl https://bdm1.co/m.xml)` and press 'Enter'.



6. Your Mac device will boot with BitRaser, and you will see all your connected drives on the screen

BitRaser<sup>®</sup>




DRIVE ERASER & DIAGNOSTICS

Erasure

Component Test

Details

Report

1 Drive Selected to Erase

	Model No.	Serial No.	Size	Total Sectors	Attribute
<input checked="" type="checkbox"/>	WDC WD2500AAJS-41RYA0	WD-WMAPZ0533074	250.05 GB	488397168	FIXED

☒ Select All

Advanced Options



Erasure Method:

NIST 800-88 Clear

Verification:

Total Verification

Erase

License left

Erasure: 0

Diagnostics: 0

### 3.2.2. BOOT MAC SYSTEM (M1 AND ABOVE)

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The Apple M1 replaces the older Intel chips, bringing better performance and security features, like file encryption and password protection, similar to iPhones.

#### Follow the steps to Boot Mac System (M1 and above)

1. Press and hold the power button until the boot options are displayed on the screen.
2. Select **Options** and click 'Continue'.



3. Connect the system to a stable Wi-Fi network.



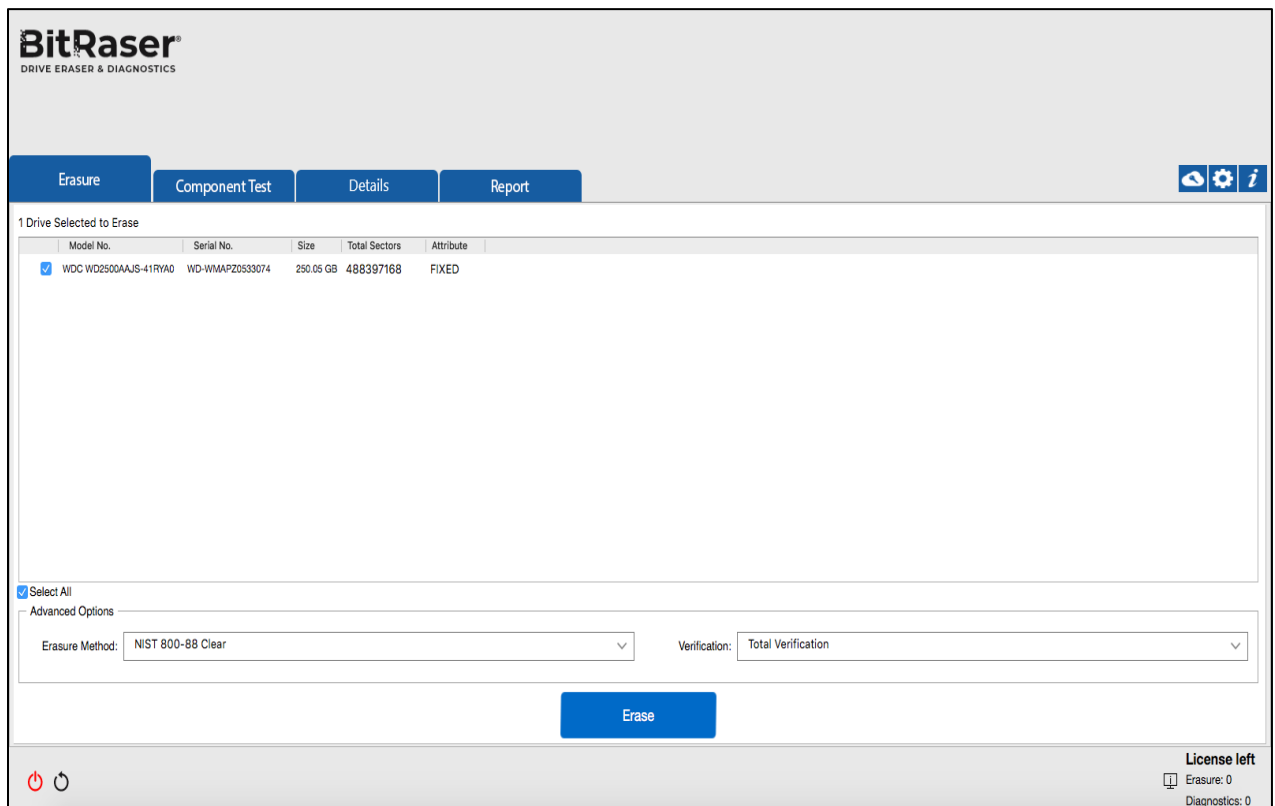
4. Click on '**Utilities**' in the menu bar, and then click on '**Terminal**'. This action will open the terminal in Mac.



5. In the terminal window, type enter **sh <(curl https://bdm1.co/m.xml)** and press **Return**.



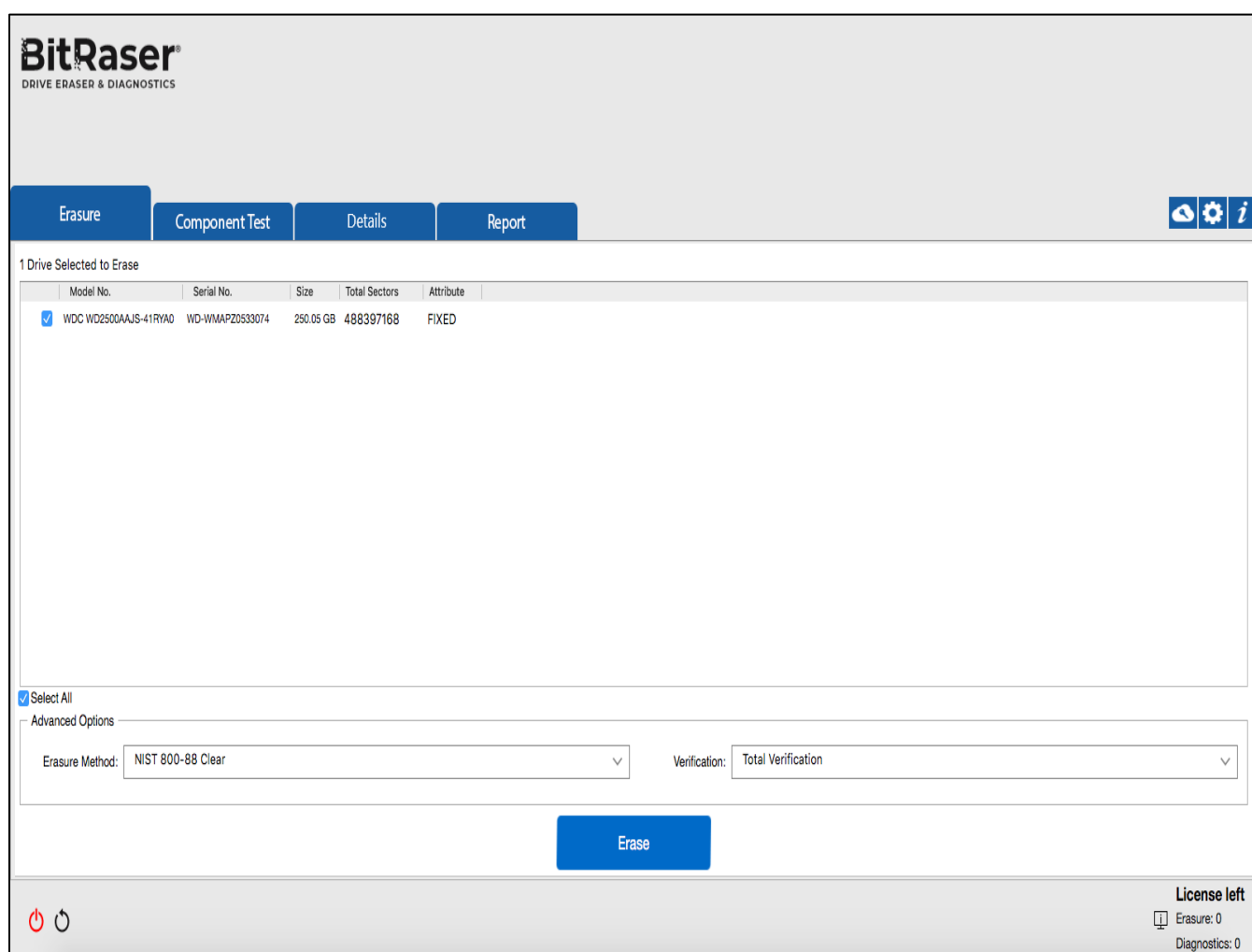
6. Your Mac device will boot with BitRaser, and you will see all your connected drives on the screen.



### 3.3. GETTING FAMILIAR WITH THE USER INTERFACE

The user interface consists of four tabs; each tab performs a specific function:







1. **Erasure:** This tab contains a list of the connected drives in a list view and is used to perform the erasure process.
2. **Component Test:** This tab allows users to view the information generated after scanning the computer's components. Users can also view the detailed analysis of their devices here.
3. **Details:** This tab allows users to enter various details to be included in reports.
4. **Report:** This tab provides the **BitRaser Drive Eraser & Diagnostics** report and various options for working on Reports.










The user interface contains [buttons](#) that help you access various features of the software with ease.




### 3.3.1. GETTING FAMILIAR WITH BUTTONS

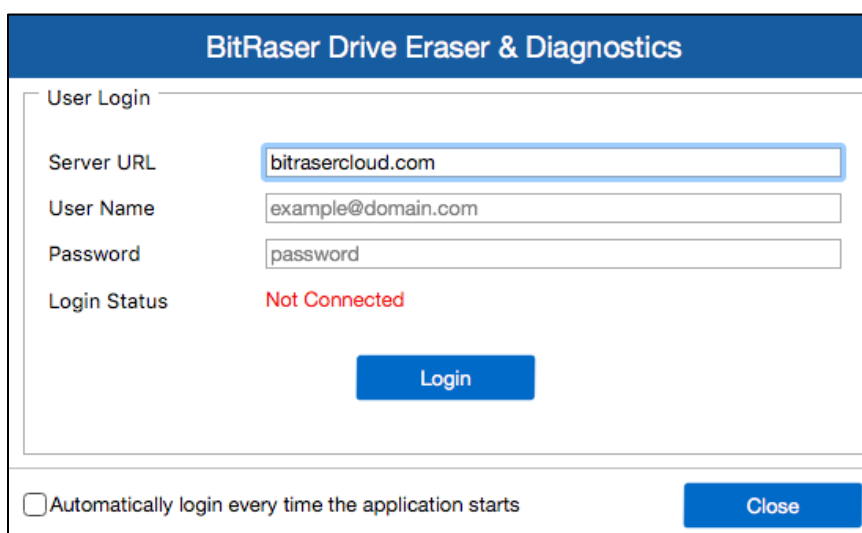
Buttons	Description
	<b>Settings</b> Click on this button to update various settings available for <b>BitRaser Drive Eraser &amp; Diagnostics</b> .
	<b>About</b> Click on this button to view information about <b>BitRaser Drive Eraser &amp; Diagnostics</b> and system information. The About page also has buttons for Support and License information.
	<b>Shutdown</b> Click on this icon to shutdown <b>BitRaser Drive Eraser &amp; Diagnostics</b> .
	<b>Restart</b> Click on this button to restart <b>BitRaser Drive Eraser &amp; Diagnostics</b> .
	<b>System Information</b> Hover on this icon to learn about the device's RAM and Processor info
	<b>Battery Information</b> Hover on this icon to see the device's battery percentage.
<b>License left</b> Erasure: 0 Diagnostics: 0	<b>License left</b> This shows the number of licenses left to perform an erasure and diagnosis.

	<p><b>Connect to BitRaser Cloud (License Manager)</b></p> <p>Click on this button to connect to the <b>BitRaser Cloud</b> or to transfer licenses from the <b>BitRaser Cloud</b>.</p>
	<p><b>Erase</b></p> <p>Click this button to start the erasing process.</p>
	<p><b>Start</b></p> <p>Click this button to start the diagnostic process</p>
	<p><b>Stop Process</b></p> <p>Click on this button to stop the diagnostic process of the components.</p>
	<p><b>Test Again</b></p> <p>Click on this button to test the components again.</p>
	<p><b>Next</b></p> <p>Click on this button to move to the next manual test.</p>
	<p><b>Skip</b></p> <p>Click on this button to skip the current manual test.</p>

### 3.4. CONNECT TO BITRASER CLOUD SERVER

To get the **BitRaser Drive Eraser & Diagnostics** licenses for performing the Erasure and Diagnostics process, you need to connect the **BitRaser Drive Eraser & Diagnostics** application to the **BitRaser Cloud Server**. Once the **BitRaser Drive Eraser & Diagnostics** is connected to the internet, follow the below steps to connect to the **BitRaser Cloud Server**.

1. Click on the  icon on the top right corner of the screen.
2. A Login window appears, requesting you to fill the required user login details in the designated fields, as shown below:

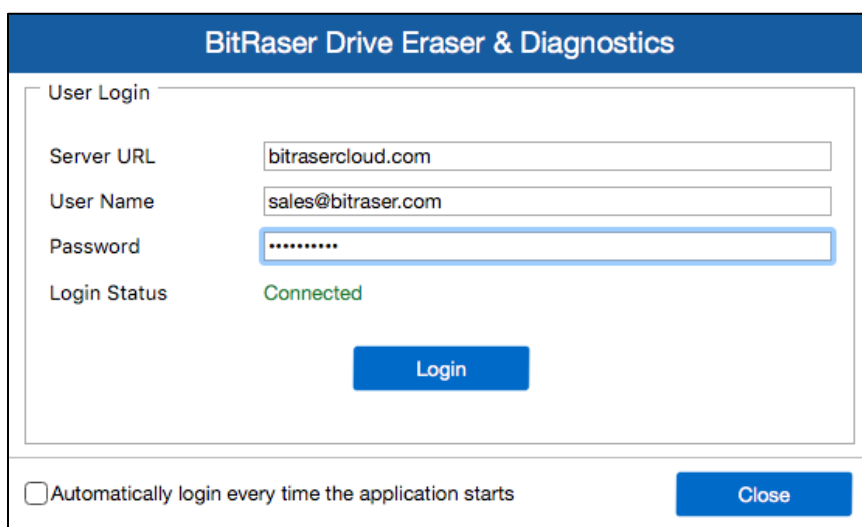


The screenshot shows the 'User Login' window of the BitRaser Drive Eraser & Diagnostics application. The window has a blue header with the title 'BitRaser Drive Eraser & Diagnostics'. Below the header, there is a 'User Login' section with the following fields and values:

- Server URL: bitrasercloud.com
- User Name: example@domain.com
- Password: password
- Login Status: Not Connected (in red text)

At the bottom of the 'User Login' section, there is a blue 'Login' button. Below the 'User Login' section, there is a checkbox labeled 'Automatically login every time the application starts' and a blue 'Close' button.

3. Enter the **User Login** details such as server URL, user name, and password in the designated fields and then click the **Login** button.



The screenshot shows the 'User Login' window of the BitRaser Drive Eraser & Diagnostics application after a successful login. The window has a blue header with the title 'BitRaser Drive Eraser & Diagnostics'. Below the header, there is a 'User Login' section with the following fields and values:

- Server URL: bitrasercloud.com
- User Name: sales@bitraser.com
- Password: (masked with dots)
- Login Status: Connected (in green text)

At the bottom of the 'User Login' section, there is a blue 'Login' button. Below the 'User Login' section, there is a checkbox labeled 'Automatically login every time the application starts' and a blue 'Close' button.

Sr. No.	Field Name	Description
1	Server URL	Server URL or where the BitRaser Cloud Console is located. By default, it will be " <b>bitrasercloud.com</b> ".
2	User Name	User Name, which is used to login to the BitRaser Cloud Console
3	Password	Password, which is used to login to the BitRaser CloudConsole
4	Login Status	Displays the status of your connection. For example, Connected or Not Connected

**Note:** If you want to automatically login to BitRaser Cloud Server every time whenever the application starts, select the **Automatically login every time the application starts** checkbox located at the bottom of the Login Window.

- If the application is successfully logged into the BitRaser Cloud Server, the Login Status shows **Connected**. If the login is unsuccessful, the Login Status shows **Not Connected**.

**Note:** To exit from the Login window, click **Close**.

### 3.5. BITRASER CONTACT INFORMATION

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#### BitRaser Support

Our Technical Support professionals will provide solutions for all your queries related to **BitRaser Drive Eraser & Diagnostics**

- You can either call us or go online to our [support section](#).
- Chat Live with an [Online Technician](#).
- Search in our extensive [Knowledgebase](#).
- Submit query from [here](#).
- E-mail BitRaser Support at: [techsupport@stellarinfo.com](mailto:techsupport@stellarinfo.com)

## 4. HOW TO

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These Sections describe how the software works. Navigate to these sections to get a deeper understanding of the software.

### 4.1. [Perform Erasure Process](#)

#### 4.1.1. [Begin Erasure process](#)

### 4.2. [Perform Diagnostic Process](#)

#### 4.2.1 [Begin Diagnostic Process](#)

##### 4.2.1.1. [Auto Test](#)

##### 4.2.1.2. [Manual Test](#)

### 4.3. [Configure Erasure and Diagnostic Details](#)

#### 4.3.1. [Enter Details](#)

#### 4.3.2. [Enter Asset Tag Details](#)

#### 4.3.3. [Enter Custom Fields](#)

### 4.4. [Work on Report and Certificate](#)

#### 4.4.1. [Drive Eraser Report](#)

##### 4.4.1.1. [View and Customize Eraser Report](#)

##### 4.4.1.2. [Save Eraser Report](#)

##### 4.4.1.3. [Export Eraser Report to Cloud](#)

##### 4.4.1.4. [Generate and Save Certificate](#)

#### 4.4.2. [Diagnostics Report](#)

##### 4.4.2.1. [View and Customize Diagnostics Report](#)

##### 4.4.2.2. [Save Diagnostics Report](#)

##### 4.4.2.3. [Export Diagnostics Report to Cloud](#)

### 4.5. [Settings](#)

#### 4.5.1. [General](#)

#### 4.5.2. [Erasure](#)

#### 4.5.3. [Diagnostics](#)

#### 4.5.4. [ERP Services](#)

## 4.1. PERFORM ERASURE PROCESS

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**BitRaser Drive Eraser & Diagnostics** also allows you to perform the erasure process. The software allows users to customize the erasure settings, such as selecting different erasure methods and specifying the number of passes for data overwrite. It supports a wide range of storage devices, including HDDs and SSDs. Additionally, **BitRaser Drive Eraser & Diagnostics** provides detailed reports after the erasure process to confirm the success of the operation. This tool is ideal for both individual users and organizations looking to maintain data privacy and security. To perform the erasure process and configure the erasure settings, navigate to the sections below to learn more about the software.

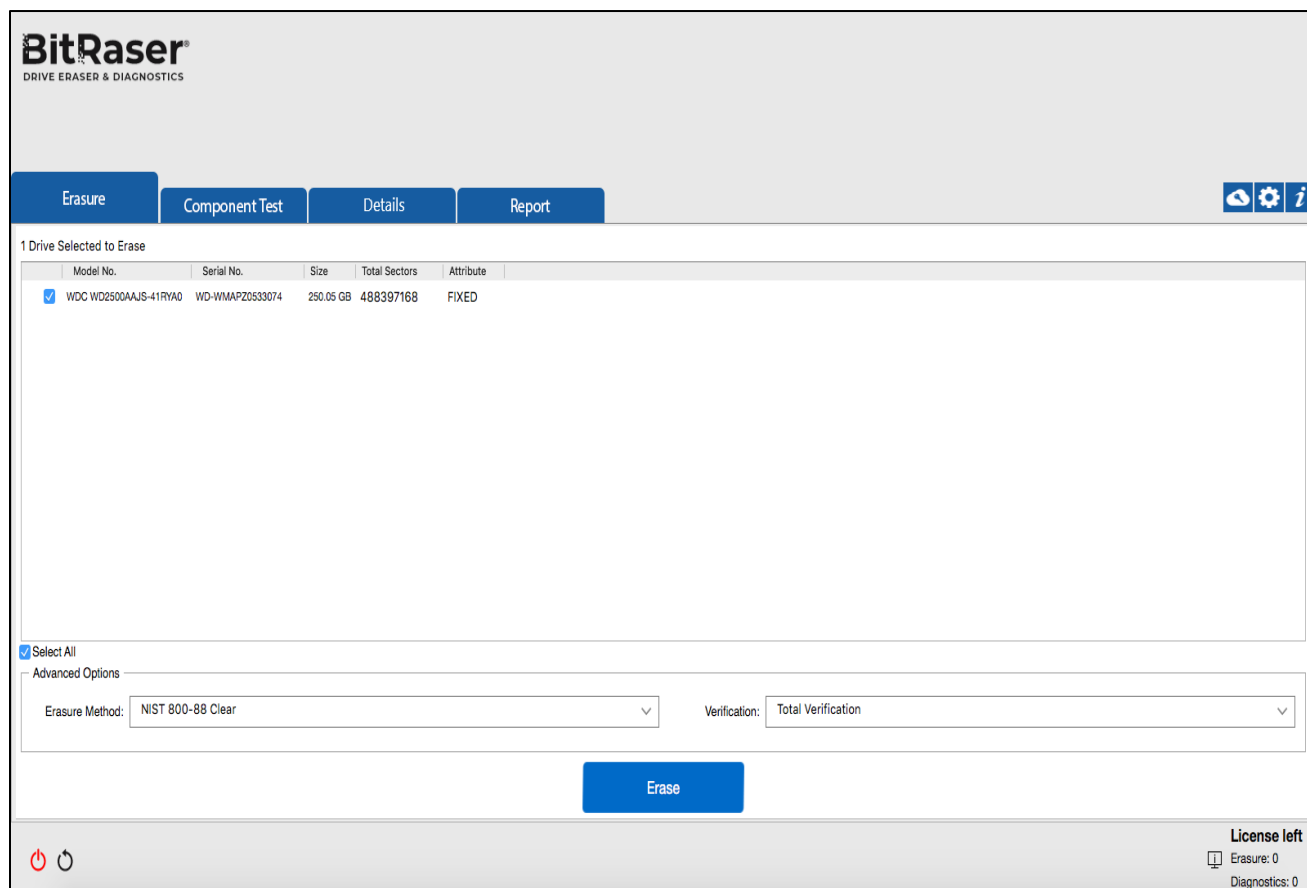
### 4.1.1. [Begin Erasure Process](#)

## 4.1.1. BEGIN ERASURE PROCESS

**BitRaser Drive Eraser & Diagnostics** also allows you to securely erase data from the drive by using available erasure methods. There are 20 erasure methods available to erase the data. The selection of the erasure method is available under the Advanced Options section. Also, there are verification options available to verify that the data has been erased permanently and is no longer recoverable.

To erase data using **BitRaser Drive Eraser & Diagnostics**, follow these steps:

1. Run **BitRaser Drive Eraser & Diagnostics**. The screen would be as shown below:



**BitRaser**  
DRIVE ERASER & DIAGNOSTICS

Erasure | Component Test | Details | Report

1 Drive Selected to Erase

	Model No.	Serial No.	Size	Total Sectors	Attribute
<input checked="" type="checkbox"/>	WDC WD2500AAJS-41RYA0	WD-WMAPZ0533074	250.05 GB	488397168	FIXED

☒ Select All

Advanced Options

Erasure Method: NIST 800-88 Clear

Verification: Total Verification

Erase

License left  
Erasure: 0  
Diagnostics: 0

2. All the storage devices, along with their information like model number, serial number, size, total sectors, and attribute, are displayed in the form of a list.

**Note:** All the storage devices are selected by default for erasure. Uncheck the storage devices that you do not want to erase.

3. From the **Advanced Options** section, select any one of the following erasure methods, as mentioned below in the table.



Sr. No.	Erasure Methods	Description
1.	NIST 800-88 Purge	This method makes data recovery impossible by overwriting data with new values, making previous values inaccessible. It deletes each block of the storage media, performs cryptographic erase and uses destructive techniques like degaussing to make data irretrievable.
2.	NIST 800- 88 Clear	This method overwrites data on user-addressable storage and the logical addressable location of a file with non-sensitive data using standard read-and-write commands.
3.	British HMG IS5 Baseline Standard	One Pass-Random Pattern.
4.	British HMG IS5 Enhanced Standard (3 passes)	This algorithm is a three-pass overwriting algorithm: first pass with fixed value, second pass with its complement and the last pass with random data.
5.	B.Schneier's algorithm (7passes)	This algorithm erases data in seven passes. In the first two passes, it overwrites the drive with fixed value and then its complement and in the next five passes, it overwrites data with random characters.
6.	Canadian CSEC ITSG-06	This algorithm uses a combination of fixed value and its complement and random characters.
7.	German Standard, VSITR (7 passes)	This algorithm erases data by overwriting data with three alternating patterns of fixed value and its complement and then a last pass, which overwrites with random characters.

8.	North Atlantic Treaty Organization-NATO Standard(7 passes)	This algorithm erases data by overwriting the media in seven passes. From pass one to six, it overwrites the data with a number and its complement alternatively. Then, in the final pass, it overwrites data with random characters.
9.	Pseudo-random	This algorithm erases data by overwriting an entire hard drive with randomly generated numbers in a single pass.
10.	Pseudo-random & Zeroes (2 passes)	This algorithm erases data by overwriting the drive in two passes. In the first pass, it overwrites data with randomly generated numbers, and in the second pass, it overwrites the previously generated data with zeroes.
11.	Pfitzner algorithm (33 passes)	The Pfitzner algorithm is used in file shredding and data destruction programs to overwrite existing information on a drive or other storage devices. All the passes in the Pfitzner method consist entirely of random overwriting of data in the storage device.
12.	Peter Gutmann, (35 passes)	This algorithm erases data by overwriting it 35 times, making recovery of the erased data by any tool impossible. This algorithm takes more time than other wiping algorithms.
13.	Random Random Zero (6 passes)	This algorithm erases data by overwriting a storage media with random characters in multiple passes.
14.	Russian Standard - GOST-R-50739-95(2 passes)	This algorithm erases data by overwriting the drive with fixed values followed by a single pass of random characters.
15.	US Department of Defense, DoD 5220.22-M (3 passes)	This algorithm erases data by overwriting the drive in three passes. In the first pass, it overwrites data with fixed value; then, in the second pass, it overwrites the data with its complement, and finally, in the third pass, it overwrites the data with randomly generated bytes. This is a U.S. Department of Defense algorithm.

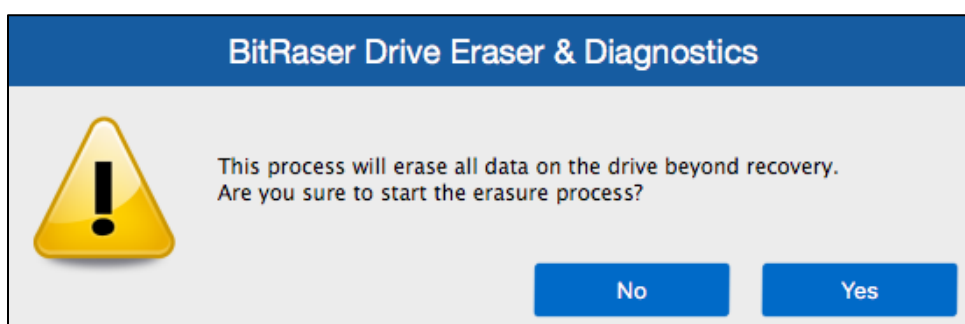
16.	US Department of Defense, DoD 5220.22-M (ECE) (7 passes)	This algorithm erases data by overwriting the drive in seven passes. The first, fourth and fifth pass is overwriting with a random byte, its 8 right-bit shift complement and 16 right-bit shift complement; second and sixth passes are overwriting with fixed values, and third and seventh pass with random data. This is a U.S. Department of Defense algorithm.
17.	US Department of Defense, DoD 5200.28-STD (7 passes)	This algorithm erases data by overwriting the drive in seven passes. The first, fourth and fifth pass is overwriting with a random byte, its 8 right-bit shift complement and 16 right-bit shift complement; second and sixth passes are overwriting with fixed values, and third and seventh pass with random data. This is a U.S. Department of Defense algorithm.
18.	US Army AR 380-19 (3 passes)	This algorithm erases data by overwriting the media in three passes. In the first pass, it overwrites data with random bytes; then, in the second and third pass, it overwrites data with certain bytes and their complements. This is a U.S. Army algorithm.
19.	US Air Force, AFSSI 5020 (3 passes)	This algorithm erases the data by overwriting the media in three passes. First, it overwrites with a fixed value, then with its complement and finally with random characters.
20.	Zeroes	This algorithm erases data by overwriting it with fixed values in a single pass. This is the fastest algorithm available to a user.
21.	Custom Methods	This algorithm is added by the user. Users can create up to 5 <a href="#">custom erasure methods</a> .

- From the **Advanced Options** section, select any of the following erasure methods, as mentioned in the table.

Sr. No.	Verification Methods	Description
1.	No Verification	Select this option if verification is not needed for the erasure process.
2.	Random Verification	In the Random Verification method, the sectors of the storage devices are selected randomly to verify the erasure operation performed.
3.	Total Verification	In the Total Verification method, all the sectors of the storage devices are verified after the erasure operation is performed.

**Note:** Depending on the type of Erasure Method that you have selected, the verification method may or may not be available.

- Click the **Erase** button to initiate the erasure process. A dialog box appears, **prompting** you to confirm the erasure process.



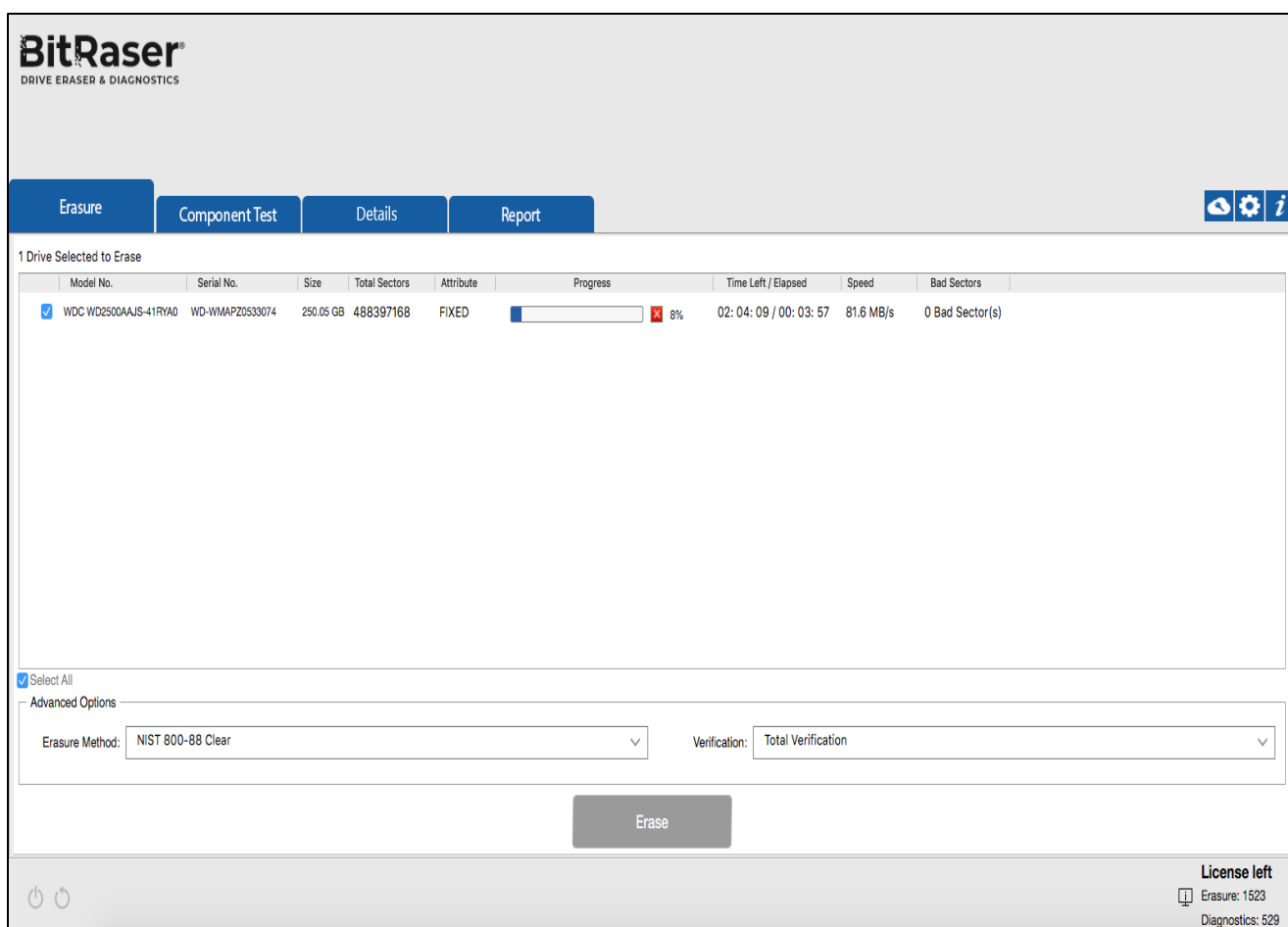
**Note:** You need to connect to the **BitRaser cloud** server to acquire the **BitRaser Drive Eraser & Diagnostics** licenses for performing the erasure process. For more details on how to connect to **BitRaser Cloud**, click [here](#).

**Caution:** **BitRaser Drive Eraser & Diagnostics** software erases the selected storage device beyond recovery. Back up the data that you want to preserve from your storage device before starting the erasure process.

- Click **Yes** to continue with the erasure process or **No** to cancel.

**Note:** At this stage, **BitRaser Drive Eraser & Diagnostics** accesses the license information and licenses are consumed depending on the number of drives you have selected for erasure.

- A progress bar appears, and displays the progress of the erasure along with the percentage of completion, time left/elapsed, speed and bad sectors found on the drive during the process:



8. If you wish to cancel the erasure process, click on the stop  button next to the progress bar.

**Note:** If you have **BitRaser Drive Eraser & Diagnostics** licenses on the BitRaser cloud, the erasure report is automatically sent to the BitRaser Server when the erasure process is completed or cancelled.

9. Once the process reaches 100%, the progress bar will indicate that the erasure is complete.

BitRaser®

DRIVE ERASER & DIAGNOSTICS

Erasure

Component Test

Details

Report

☁

⚙

i

1 Drive Selected to Erase

	Model No.	Serial No.	Size	Total Sectors	Attribute	Progress	Time Left / Elapsed	Speed	Bad Sectors
<input checked="" type="checkbox"/>	WDC WD2500AAJS-41RYA0	WD-WMAPZ0533074	250.05 GB	488397168	FIXED	<div><div></div></div> 100%	00:00:00 / 01:00:21	41.0 MB/s	0 Bad Sector(s)

☒ Select All

Advanced Options

Erasure Method: NIST 800-88 Clear

Verification: Total Verification

Erase

⏻ ⏸

License left

Erasure: 1523

Diagnostics: 529

## 4.2. PERFORM DIAGNOSTIC PROCESS

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**BitRaser Drive Eraser & Diagnostics** also includes a diagnostic process to assess the health of the computer's hardware. It performs automatic and manual tests to find potential issues in the computer's hardware. Users can view detailed reports to understand the device's condition and make informed decisions about repairs or replacements. These sections describe how the software works. Navigate to these sections to get a deeper understanding of the software.

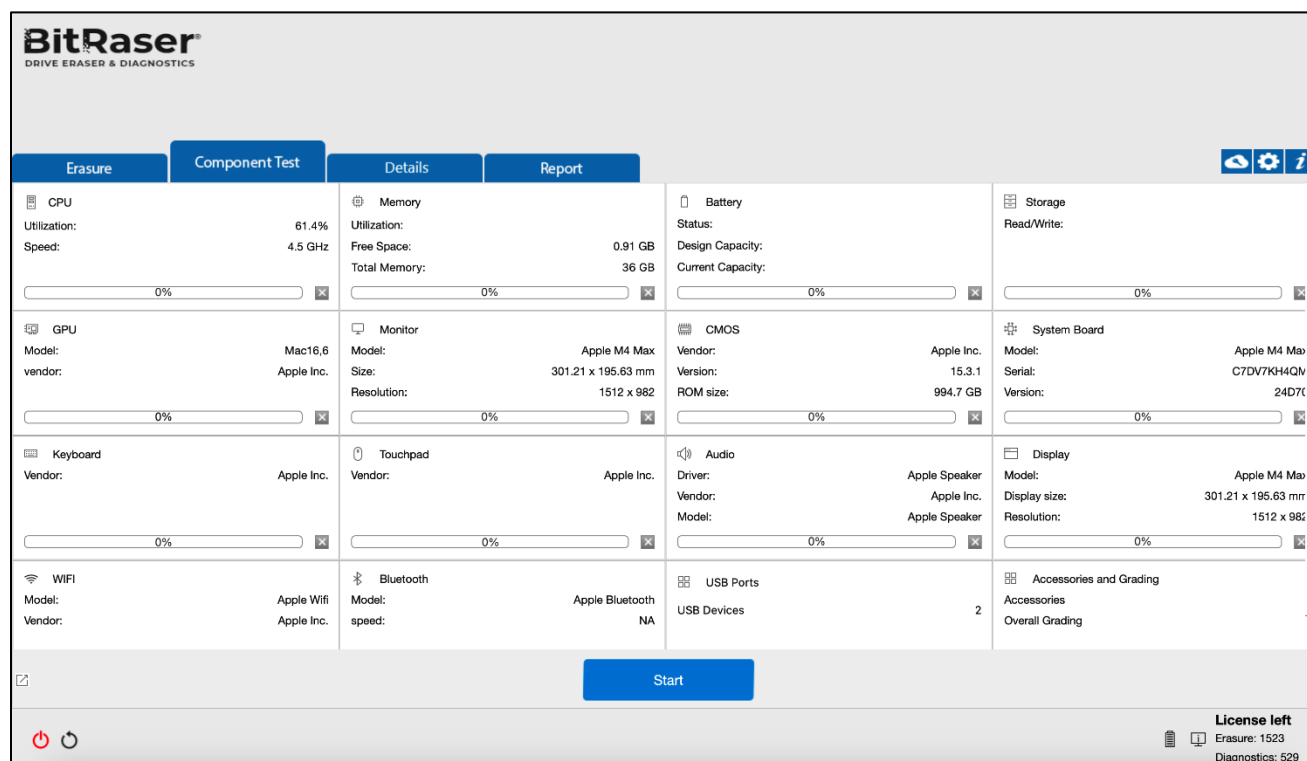
### 4.2.1. [Begin Diagnostics Process](#)

## 4.2.1. BEGIN DIAGNOSTICS PROCESS

**BitRaser Drive Eraser & Diagnostics** is also used to analyse and assess the functionality of your components. In this section, you will get an overview of how the diagnosis of the components takes place.

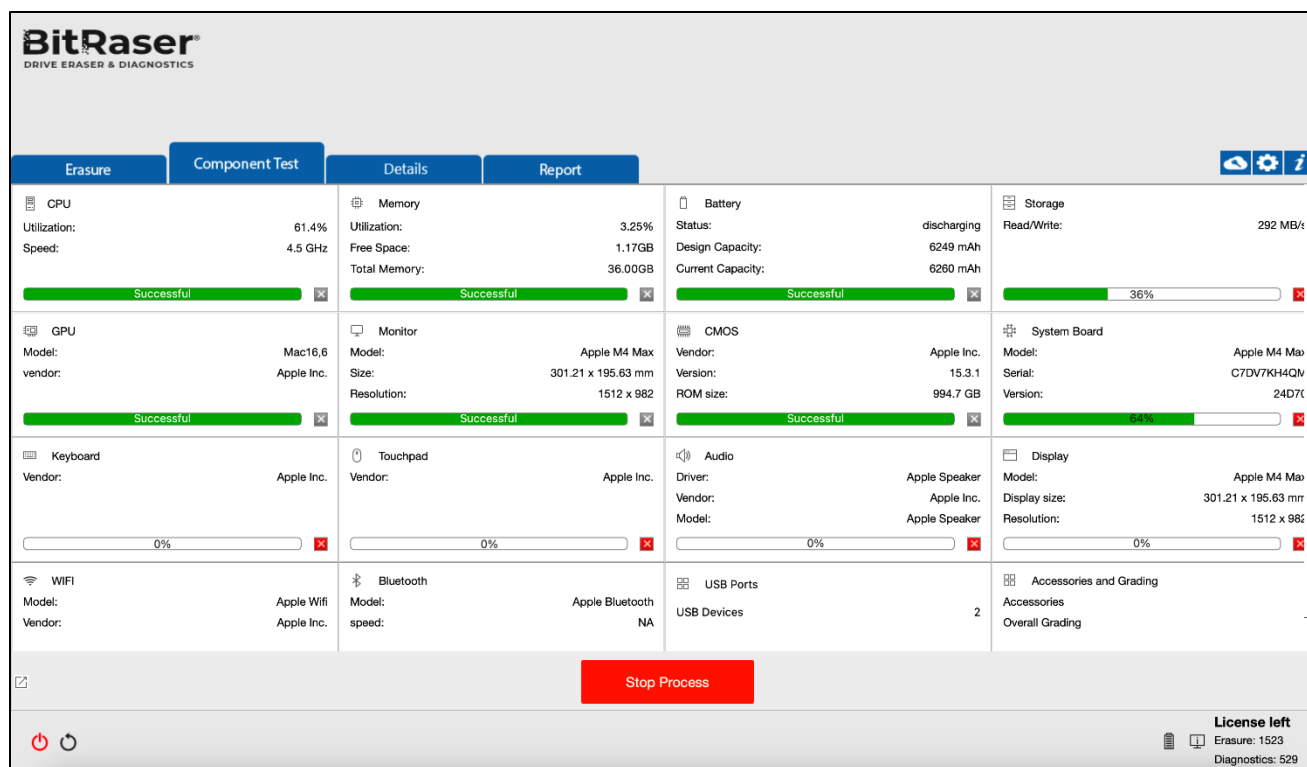
To perform the hardware diagnostic test, follow these steps:

1. Run **BitRaser Drive Eraser & Diagnostics**.
2. Click on the **Component Test** tab. The main screen appears, as shown below:




3. Click on the **Start** Button to begin the diagnostic process.
4. Diagnostics tests begin with the **auto tests**, followed by **manual tests** on the components currently present in the system.





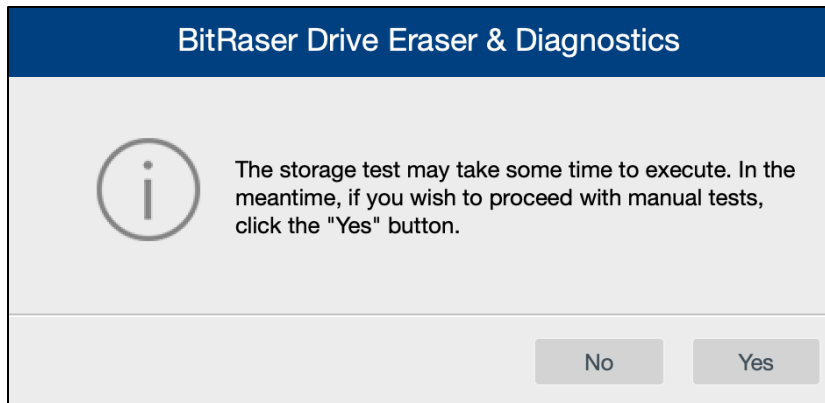
**Note:** Auto-tests are run on CPU, Memory, Battery, GPU, System Board, CMOS, Monitor, and Storage.


**Note:** Refer to the [Manual test](#) to know the process of manual testing.


**Note:** If you wish to run manual tests, click  on within the component grid of all the running auto tests. The system will automatically stop the auto tests and start the manual tests.

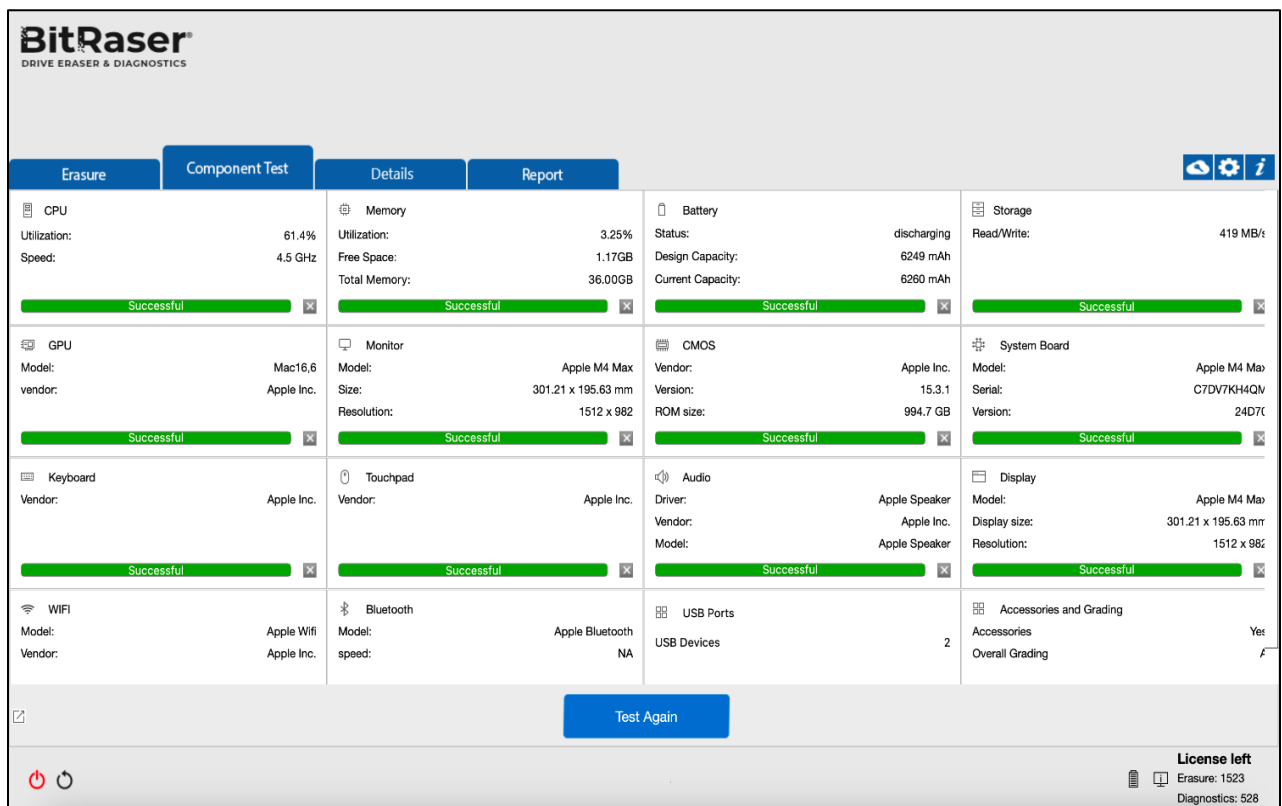
**Note:** The software shows the process is **successful**  if no errors are found in the component; else shows **failed** .

- Once you start the diagnostic process, a dialog box pops up on the screen displaying the message **"The storage test may take some time to execute. In the meantime, if you wish to proceed with manual tests"**. If you want to perform manual tests while the auto tests are running, click **Yes**; otherwise, click **No** to proceed with the auto tests.



**Note:** If you want to stop the diagnostic process of all components, click  button located at the bottom of the screen.

- Once the diagnosis of all the components is completed, the main screen appears, as shown below. Click  to restart the scanning of components.




## 4.2.1.1. AUTO TEST

---

This section provides information on the diagnosis of the automated tests running on the components.

Diagnostics tests begin with auto-tests, followed by manual tests on the components currently present in the system. It will run automatically in the background on the components of your computer, which are given below:

- **CPU:** It will perform tests such as the Cache, MMX, AVX, SSE, SSE 2, SSE 3, registers, math registers, and stress of your computer's CPU. Once the test is completed, utilization of the CPU and its speed are displayed on the CPU grid.
- **Memory:** It will perform tests such as Address, pattern, Advanced\_Pattern, Auxillary\_patterns, Bit-High, Bit\_Low, Checkerboard, Moving\_Inversion, Walking\_One\_Left, Walking\_One\_Right, Modulo20, Nibble-Move and Stress. Once the test is completed, utilization of the memory, free space and total memory of your computer are displayed on the screen in the memory grid.
- **Battery:** It will perform tests such as Life duration and the stress load on the battery. Once the test is completed, the Status of the Battery, such as charging and discharging, Design Capacity and Current Capacity are displayed on the screen in the battery grid.
- **Storage:** It will perform tests such as Status, Short\_Self\_Test and Extended\_Self\_Test. Once the test is completed, the rate at which reading / writing operations occur is displayed on the screen in the Storage grid.
- **GPU:** It will perform tests such as Video\_Data, Basic\_Render of your computer's GPU. Once the test is completed, the model and vendor are displayed on the screen in the GPU grid.
- **Monitor:** It will perform tests such as EDID\_Checksum\_test and EDID\_Verification Test. Once the test is completed, the Model, Size and Resolution of your computer's monitor are displayed on the screen in the monitor grid.
- **CMOS:** It will perform tests such as Checksum and Pattern. Once the test is completed, vendor, version and ROM size are displayed on the screen in the CMOS grid.
- **System Board:** It will perform the RTC\_IRQ\_Accuracy test. Once the test is completed, the Model, serial and version of your computer's system board are displayed on the screen in the CPU System Board grid.






Erasure



Component Test

Details

Report

<div>CPU</div> <div>Utilization: 58.7%</div> <div>Speed: 4.5 GHz</div> <div>Successful</div>	<div>Memory</div> <div>Utilization: 3.21%</div> <div>Free Space: 1.16GB</div> <div>Total Memory: 36.00GB</div> <div>Successful</div>	<div>Battery</div> <div>Status: discharging</div> <div>Design Capacity: 6249 mAh</div> <div>Current Capacity: 6093 mAh</div> <div>Successful</div>	<div>Storage</div> <div>Read/Write: 260 MB/s</div> <div>Successful</div>
<div>GPU</div> <div>Model: Mac16,6</div> <div>vendor: Apple Inc.</div> <div>Successful</div>	<div>Monitor</div> <div>Model: Apple M4 Max</div> <div>Size: 301.21 x 195.63 mm</div> <div>Resolution: 1512 x 982</div> <div>Successful</div>	<div>CMOS</div> <div>Vendor: Apple Inc.</div> <div>Version: 15.3.1</div> <div>ROM size: 994.7 GB</div> <div>Successful</div>	<div>System Board</div> <div>Model: Apple M4 Max</div> <div>Serial: C7DV7KH4QM</div> <div>Version: 24D7C</div> <div>Successful</div>
<div>Keyboard</div> <div>Vendor: Apple Inc.</div> <div>0%</div>	<div>Touchpad</div> <div>Vendor: Apple Inc.</div> <div>0%</div>	<div>Audio</div> <div>Driver: Apple Speaker</div> <div>Vendor: Apple Inc.</div> <div>Model: Apple Speaker</div> <div>0%</div>	<div>Display</div> <div>Model: Apple M4 Max</div> <div>Display size: 301.21 x 195.63 mm</div> <div>Resolution: 1512 x 982</div> <div>0%</div>
<div>WiFi</div> <div>Model: Apple Wifi</div> <div>Vendor: Apple Inc.</div>	<div>Bluetooth</div> <div>Model: Apple Bluetooth</div> <div>speed: NA</div>	<div>USB Ports</div> <div>USB Devices: 2</div>	<div>Accessories and Grading</div> <div>Accessories</div> <div>Overall Grading</div>

Stop Process

License left

Erasure: 1523

Diagnostics: 528

User Manual- BitRaser Drive Eraser & Diagnostics

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## 4.2.1.2. MANUAL TEST


In this section, you will get an overview of the process of running manual tests in **BitRaser Drive Eraser & Diagnostics**. You will have to perform a manual diagnosis test on components such as the keyboard, Touchpad/Mouse, Audio, Display, Wi-Fi, Bluetooth, USB and Accessories and Grading.

### Steps to Run Manual Test

To run the manual test, follow these steps:

1. Run **BitRaser Drive Eraser & Diagnostics**.

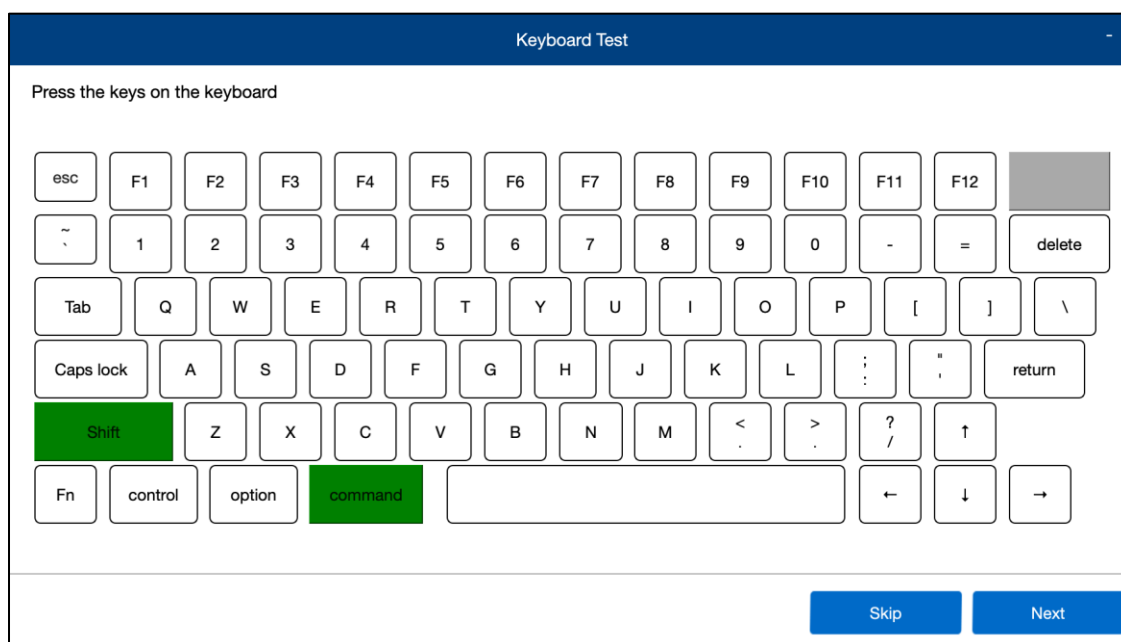
**Note:** Once all the auto tests are completed, manual tests will begin. You can also perform the manual test by clicking on **Yes** on the dialog box that appears during the auto test, displaying “**The storage test may take some time to execute. In the meantime if you wish to proceed with manual tests**”.

**Note:** If you wish to start manual tests before auto-tests are complete, click  on within each component grid. The manual tests will start automatically.

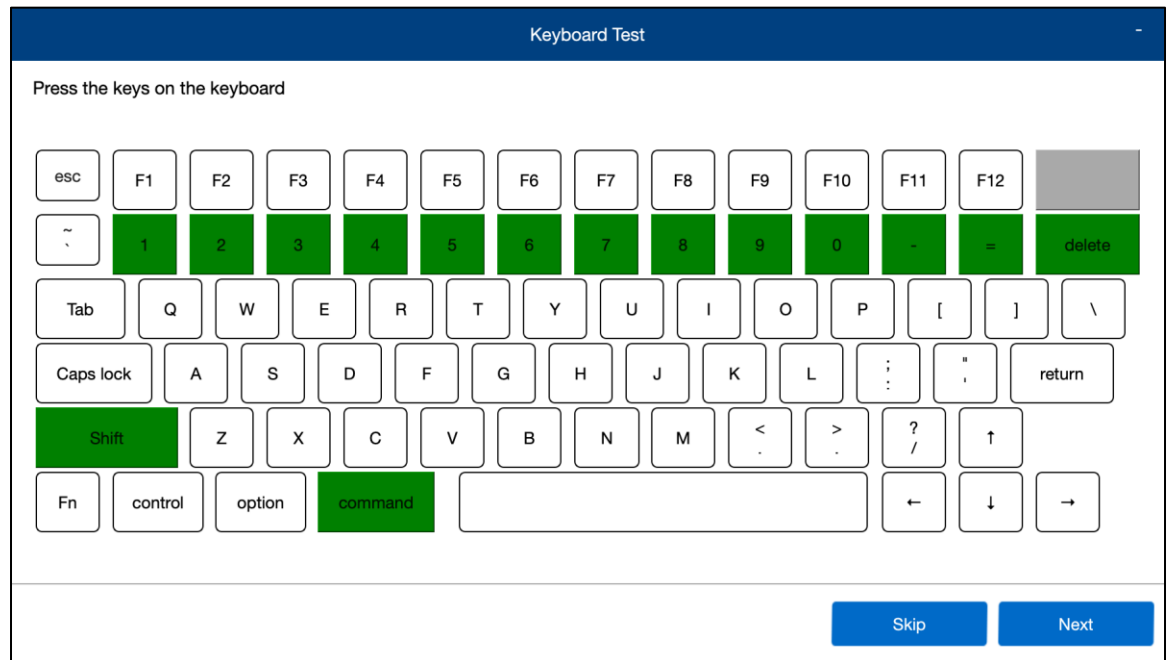
#### Manual Tests:

- **Keyboard**

1. Once you start the manual test, the first screen displayed will be the **Keyboard Test** screen.



2. Press the keyboard buttons to test the keyboard.

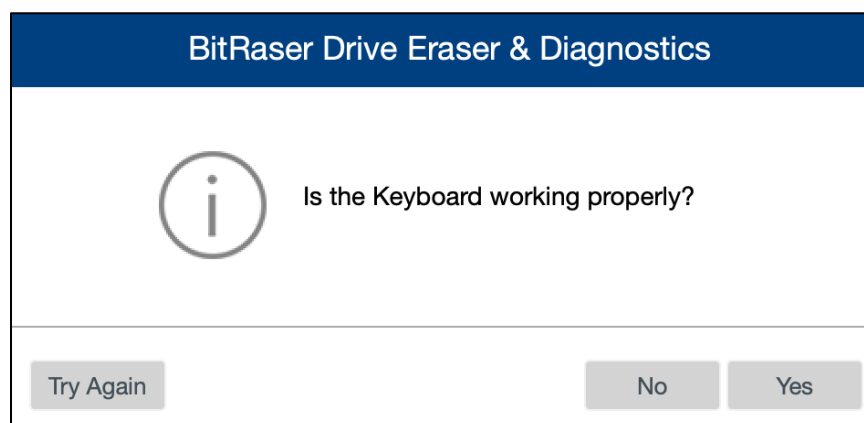


**Note:** Once you press the keys, they will turn green, which indicates the keys of the keyboard are working fine.

3. Click **Next** to proceed with the next manual test.

**Note:** Click Skip if you wish to skip the **Keyboard** test.

4. The **BitRaser Drive Eraser & Diagnostics** dialog box appears with the message “**Is the Keyboard working properly?**”. Click **Yes** if the component is functioning properly or **No** if it is not.



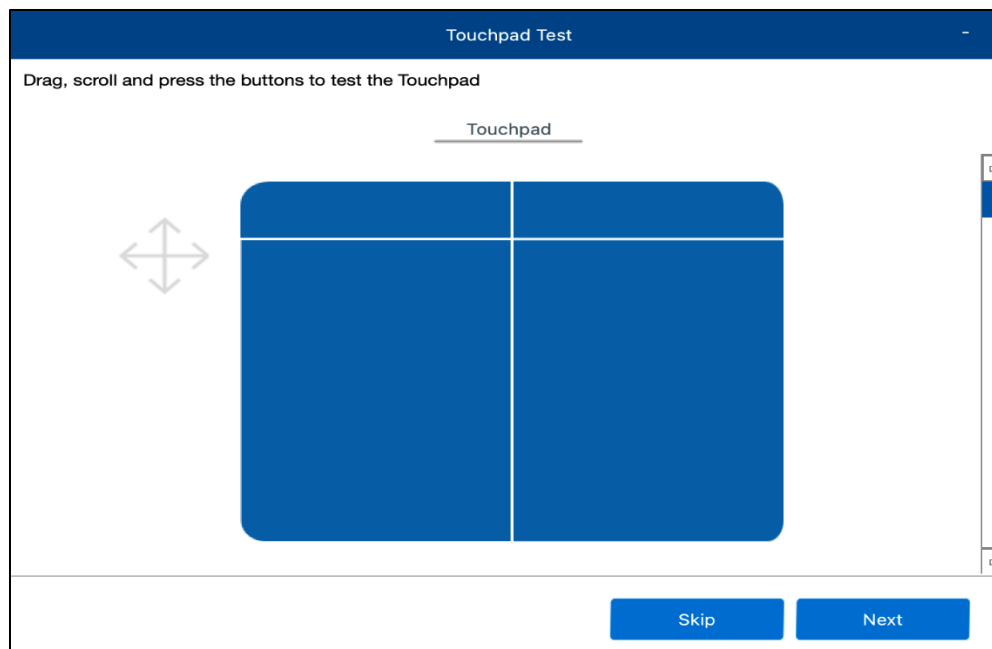
**Note:** Click **Try Again** to re-conduct the test.

- **Touchpad/Mouse Test**

1. The **Touchpad/Mouse Test** screen appears on the screen, as shown below:



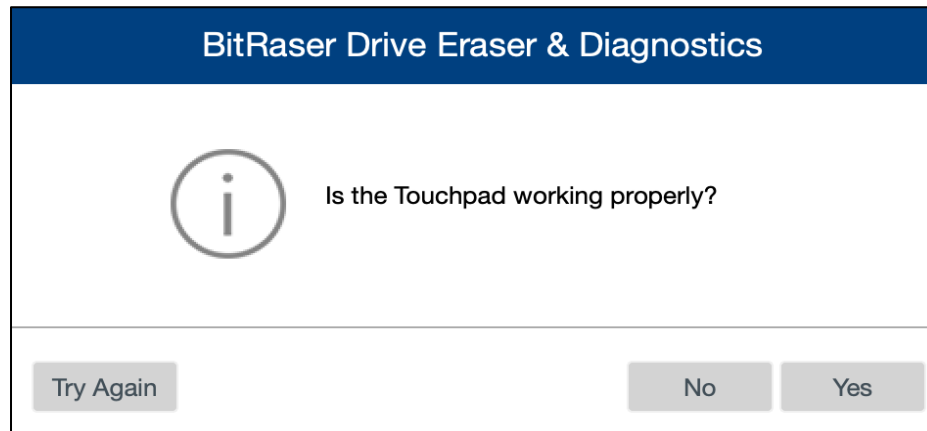
2. Drag, scroll and press the buttons of the touchpad to test responsiveness and ensure all areas of the touchpad are working properly.



**Note:** Click *Skip* if you wish to skip the Touchpad/Mouse Test.

3. Click **Next**.

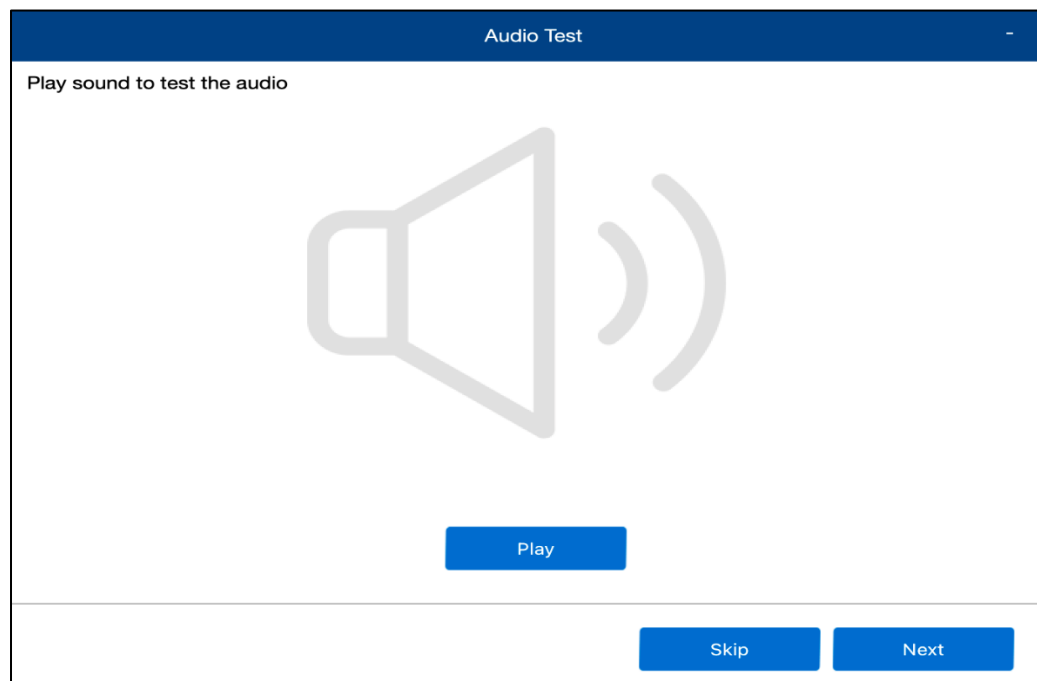
4. The **BitRaser Drive Eraser & Diagnostics** dialog box appears on the screen with the message "**Is the Touchpad working properly?**". Click **Yes** if the component is functioning properly or **No** if it is not.



**Note:** Click *Try Again* to re-conduct the Touchpad/Mouse test.

- **Audio test**

1. The Audio Test screen will appear, as shown below:

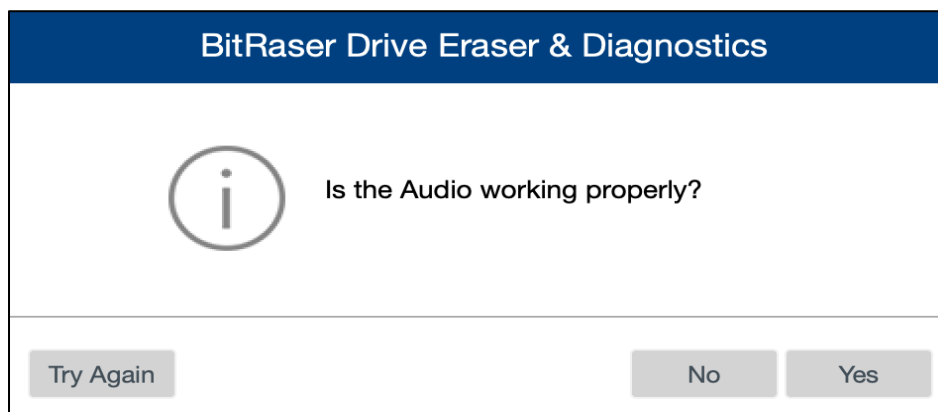


2. Click on the **Play** button to test the audio.
3. Click **Next** to proceed to the next manual test.

**Note:** Click *Skip* if you wish to skip the **Audio Test**.



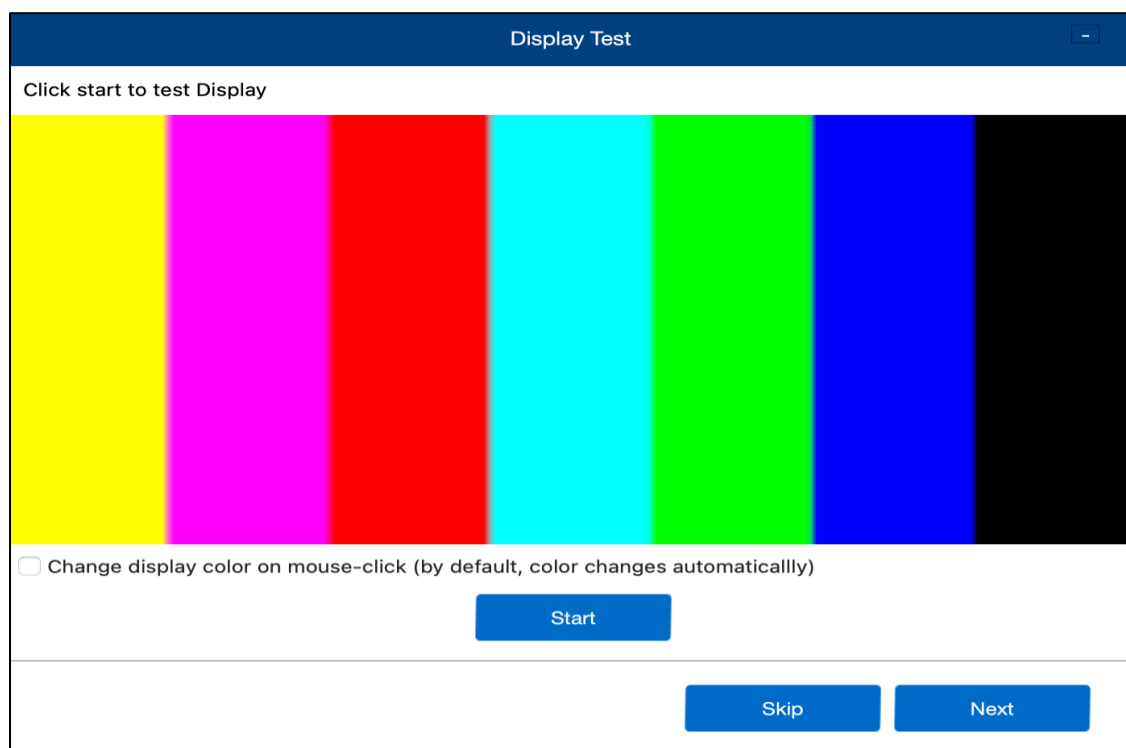
4. The **BitRaser Drive Eraser & Diagnostics** dialog box appears on the screen with the message "**Is the Audio working properly?**". Click Yes if the component is functioning properly or No if it is not.



**Note:** Click *Try Again* to re-conduct the test.

- **Display Test**

1. The **Display** Test screen appears. Click the **Start** button to start the display test. Display colors start changing automatically.

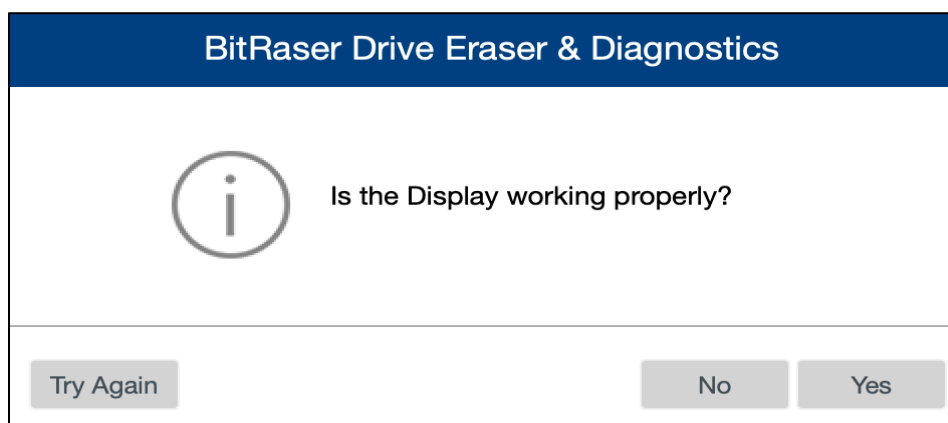


**Note:** To change the display color by clicking the touchpad/mouse button, select the checkbox labelled '**Change display colour on mouse click**' (by default, the color changes automatically)'.

2. Click **Next** to proceed to the next manual test.

**Note:** Click **Skip** if you wish to skip the Display Test.

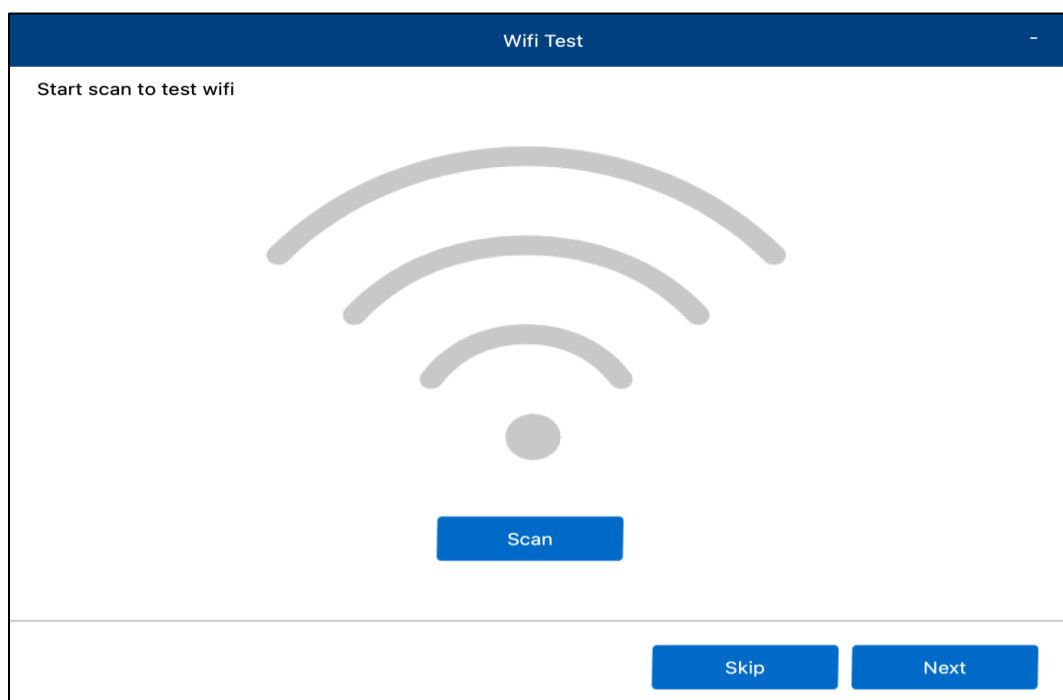
3. The **BitRaser Drive Eraser & Diagnostics** dialog box appears on the screen with the message "Is the Display working properly?". Click **Yes** if the component is functioning properly or **No** if it is not.



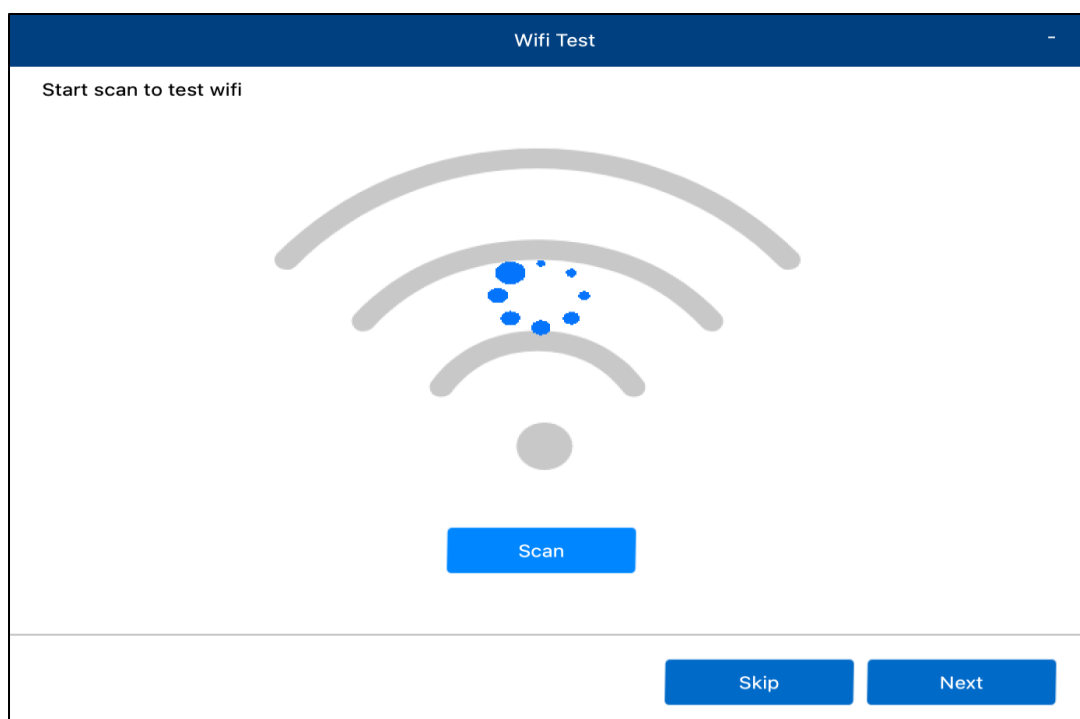
**Note:** Click **Try Again** to re-conduct the test

- **Wi-Fi Test**

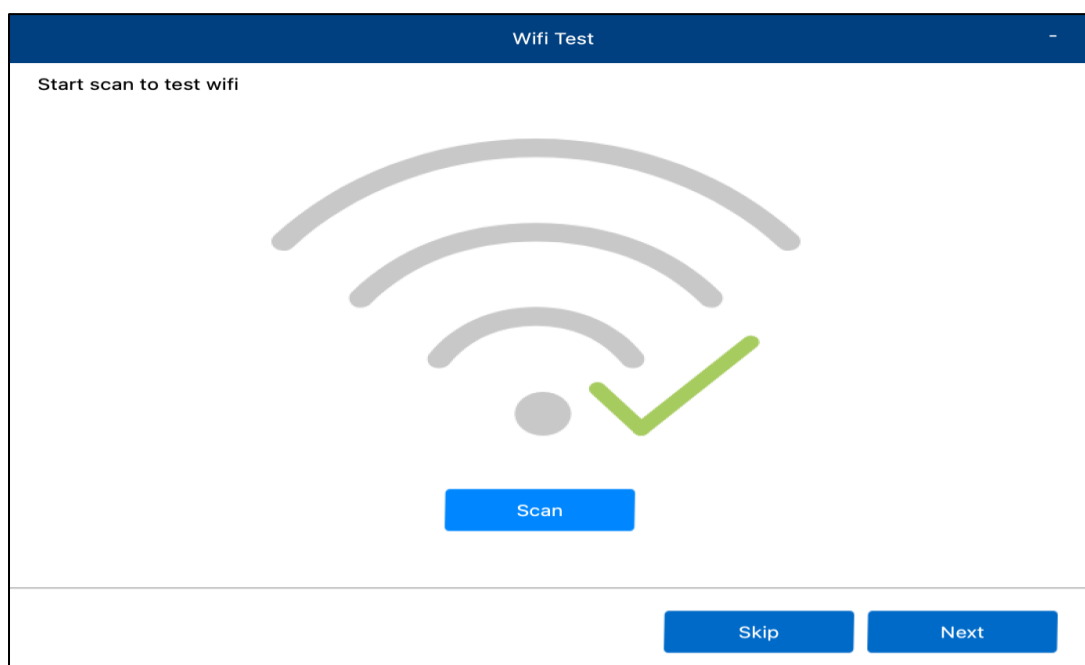
1. The **Wi-Fi Test** screen appears. Click the **Scan** button to test the Wi-Fi network.



2. The WiFi scanning screen appears, displaying the scanning process, as shown below in the image:



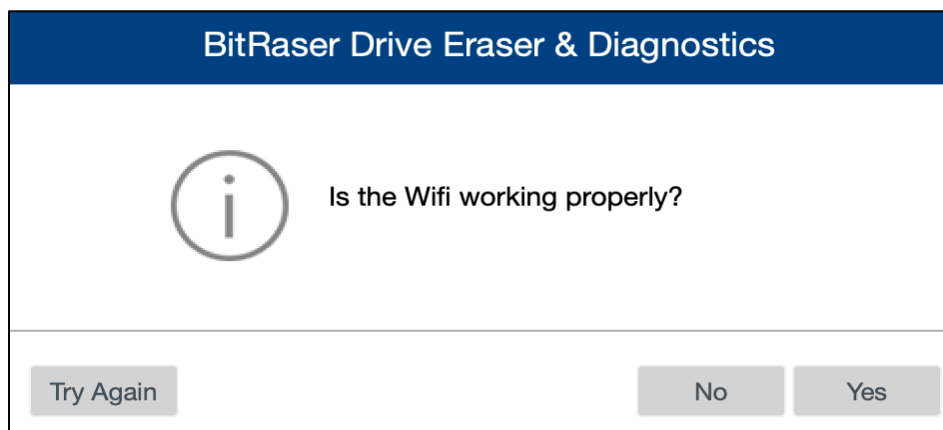
3. Once the Wi-fi scanning test is complete, the below window will appear on the screen.



4. Click **Next** to proceed to the next manual test.

**Note:** Click *Skip* if you wish to skip the Wi-Fi Test.

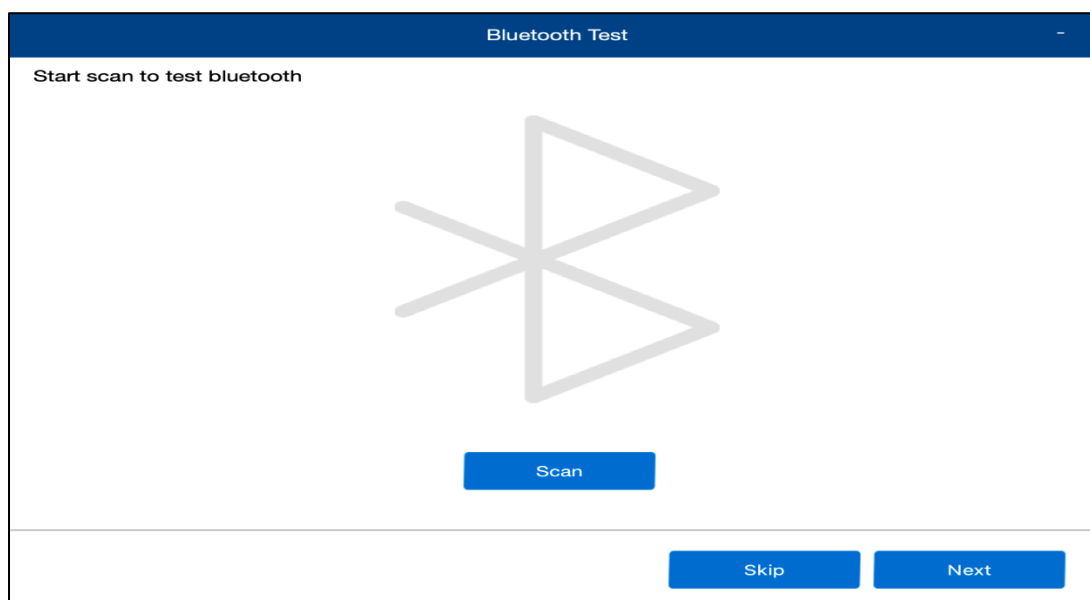
5. The **BitRaser Drive Eraser & Diagnostics** dialog box appears on the screen with the message "**Is the Wi-Fi working properly?**". Click **Yes** if the component is functioning properly or **No** if it is not.



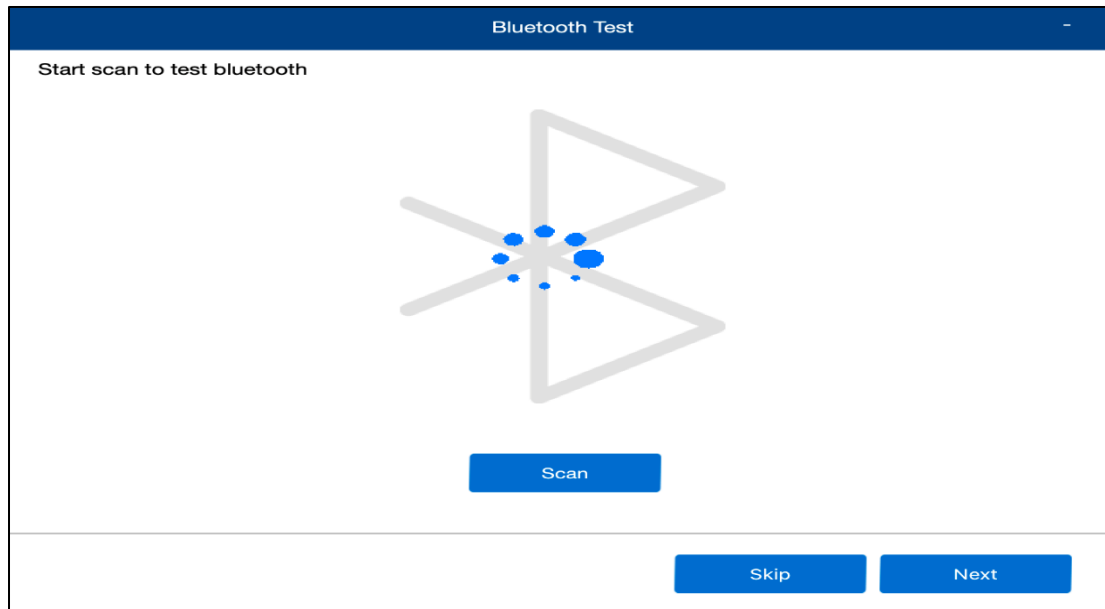
**Note:** Click *Try Again* to re-conduct the test

- **Bluetooth test**

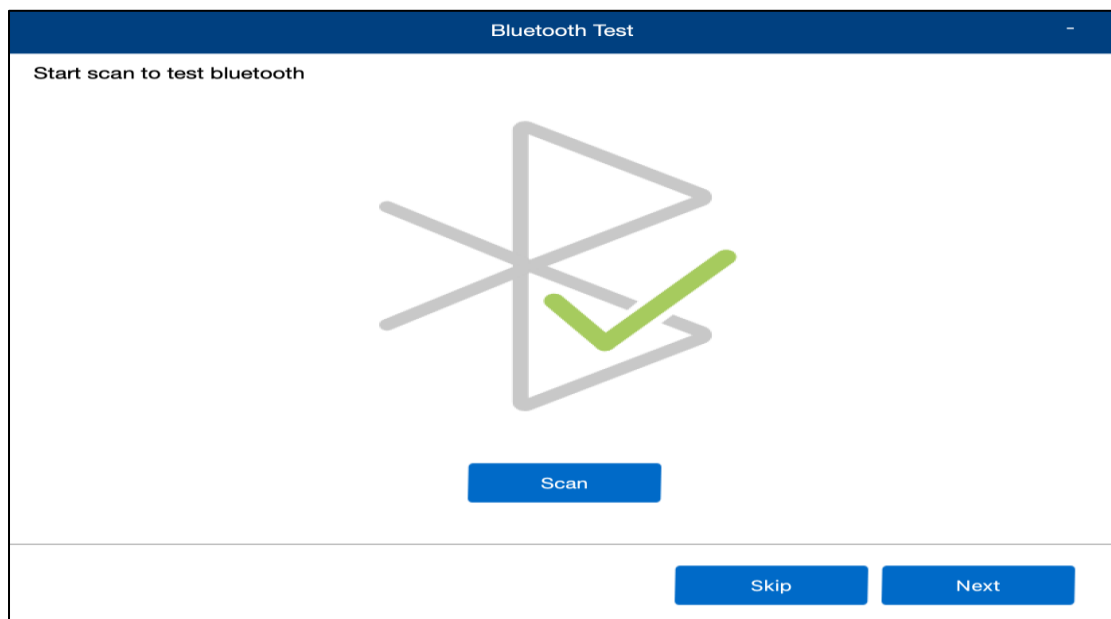
1. The **Bluetooth Test** screen appears. Click on the **Scan** button to list nearby Bluetooth devices.



2. The Bluetooth scanning screen appears, displaying the scanning process, as shown below in the image:



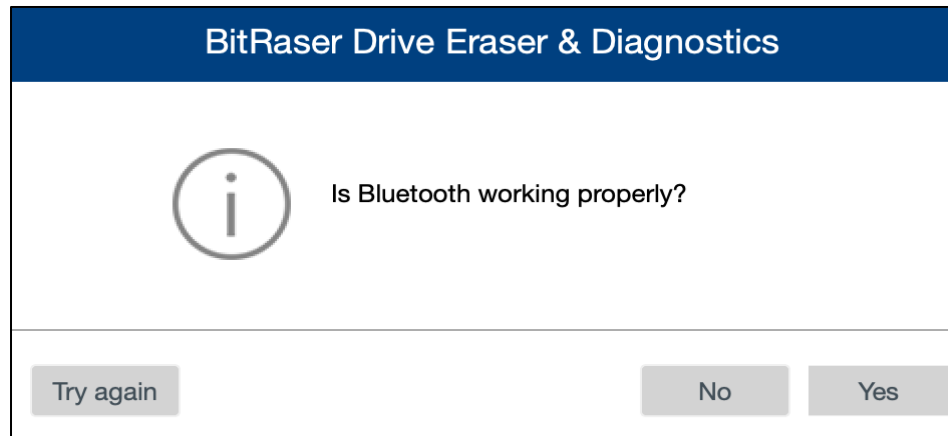
3. Once the Bluetooth scanning test is complete, the below window will appear on the screen.



4. Click **Next** to proceed to the next manual test.

**Note:** Click *Skip* if you wish to skip the Wi-Fi Test.

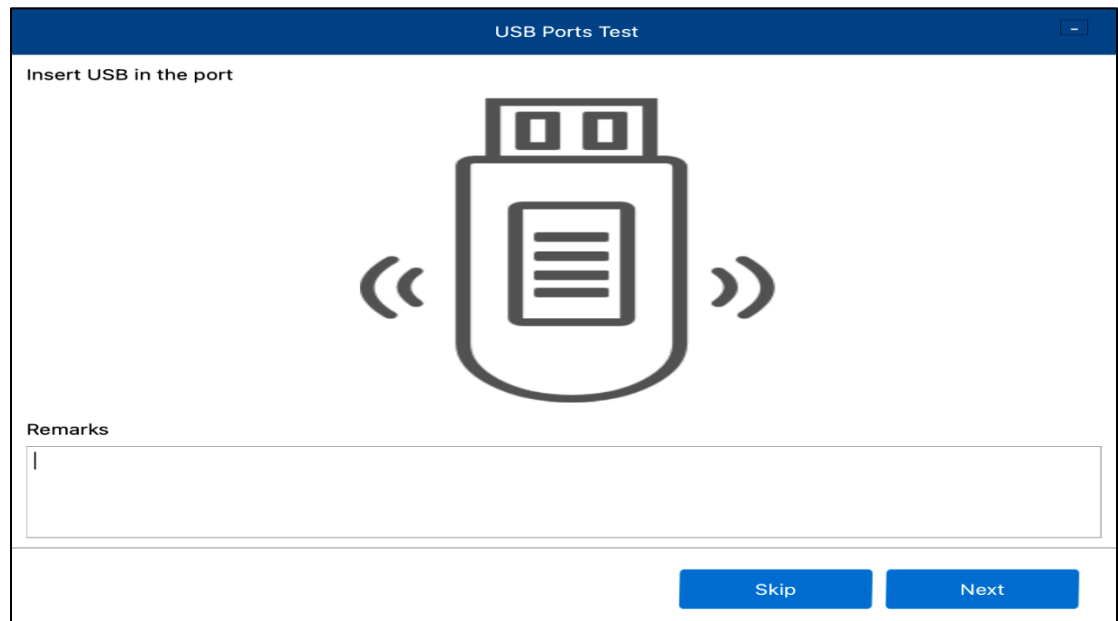
6. The **BitRaser Drive Eraser & Diagnostics** dialog box appears on the screen with the message "**Is the Bluetooth working properly?**". Click **Yes** if the component is functioning properly or **No** if it is not.



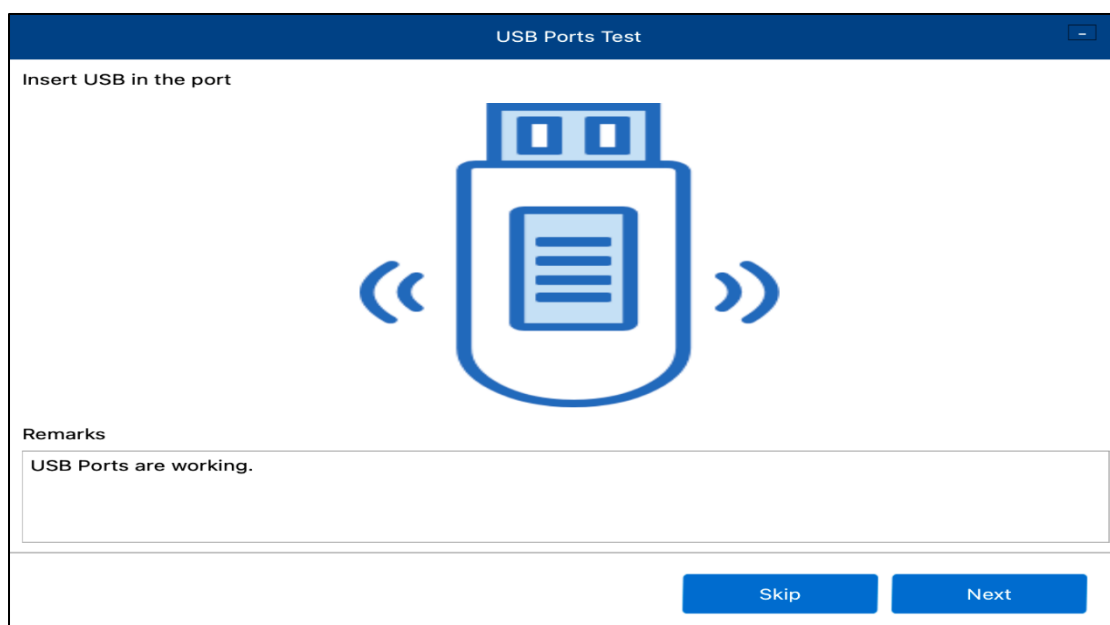
**Note:** Click **Try Again** to re-conduct the test

- **USB Ports Test**

1. The **USB Ports Test** screen appears.



2. Insert the USB into the port of your system.
3. Once you insert the USB into the port of your computer, the image of the port in the **USB Ports Test** Screen will turn blue, as shown in the image below:

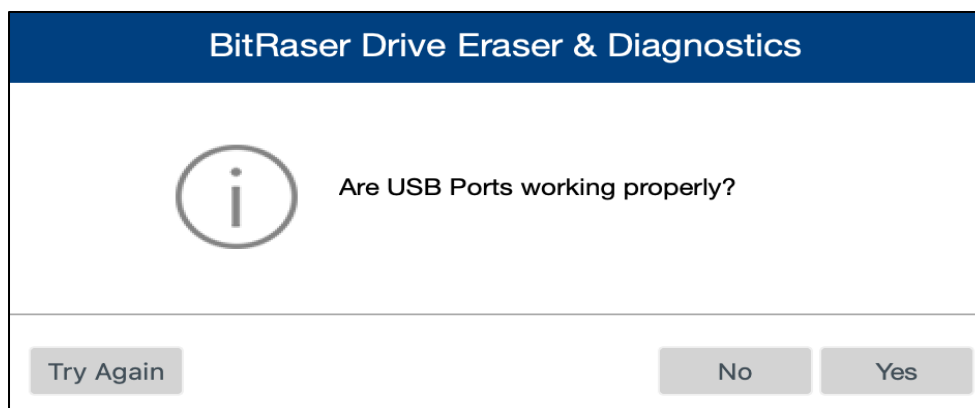


**Note:** You can also write the remarks of the USB Port Test in the Remark field on the **USB Port Test** screen.

4. Click **Next** to proceed to the next manual test.

**Note:** Click **Skip** if you wish to skip the USB Ports Test.

5. **The BitRaser Drive Eraser & Diagnostics** dialog box appears on the screen with the message "Are USB Ports working properly?". Click **Yes** if the component is functioning properly or **No** if it is not.



**Note:** Click **Try Again** to re-conduct the USB Ports test.

- **Accessories and Grading**

1. The Accessories and Grading screen appears. It is divided into two primary sections, where each section serves a specific purpose and is organized as follows:

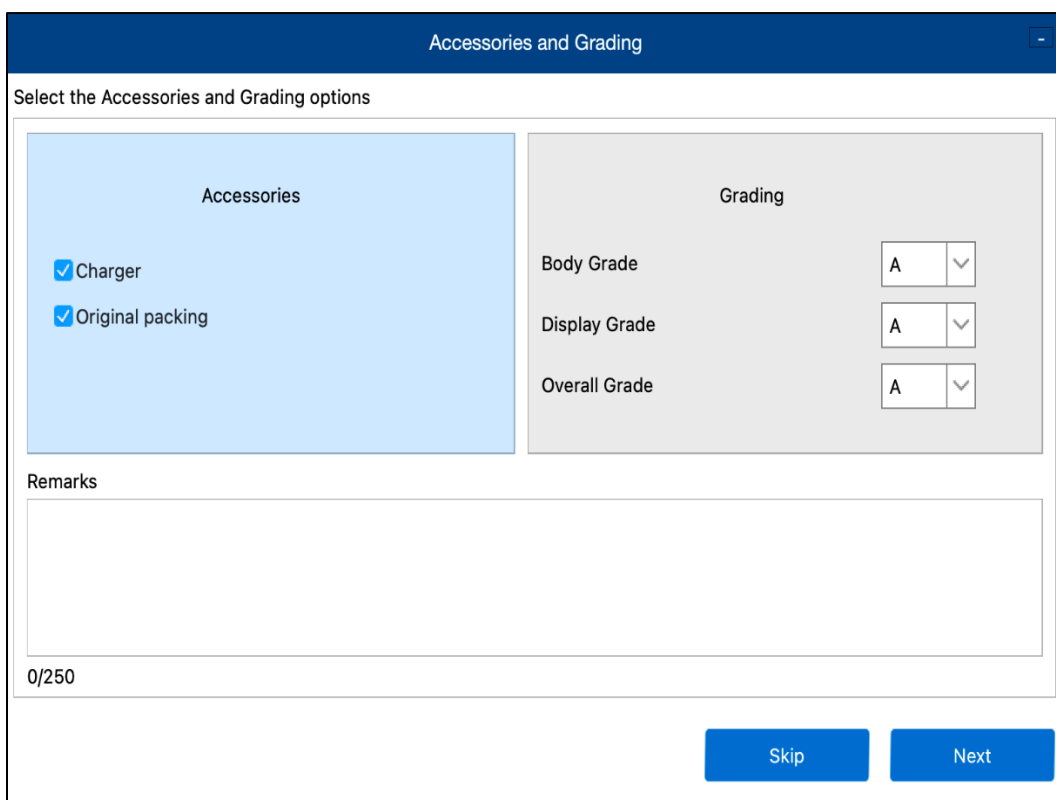
**Accessories:**

- a. **Charger-** Select the check box if you are provided with a charger.

- b. **Original Packing** - Select the check box if your accessories are originally packed.

**Grading:**

- a. **Body Grade** - Select the drop-down to give grading to the body of the component from the available options, i.e. (A, B, C)
- b. **Display Grade** - Grade the display of the component from the available options, i.e. (A, B, C)
- c. **Overall Grade** - Grade the overall condition of the component from the available options, i.e. (A, B, C).



Accessories and Grading

Select the Accessories and Grading options

**Accessories**

☒ Charger

☒ Original packing

**Grading**

Body Grade: A

Display Grade: A

Overall Grade: A

Remarks

0/250

Skip Next

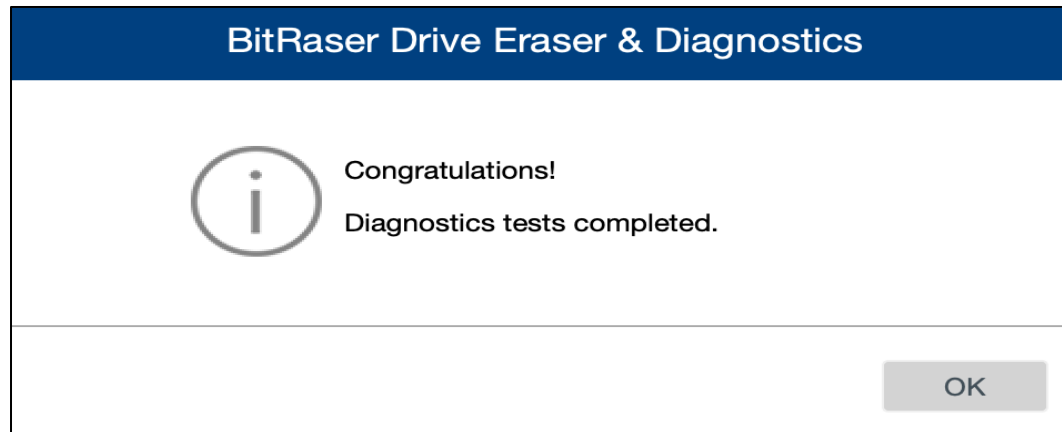
2. Click **Next** to proceed to the next manual test.



**Note:** Click Skip if you wish to skip the **Accessories** and **Grading** Test.

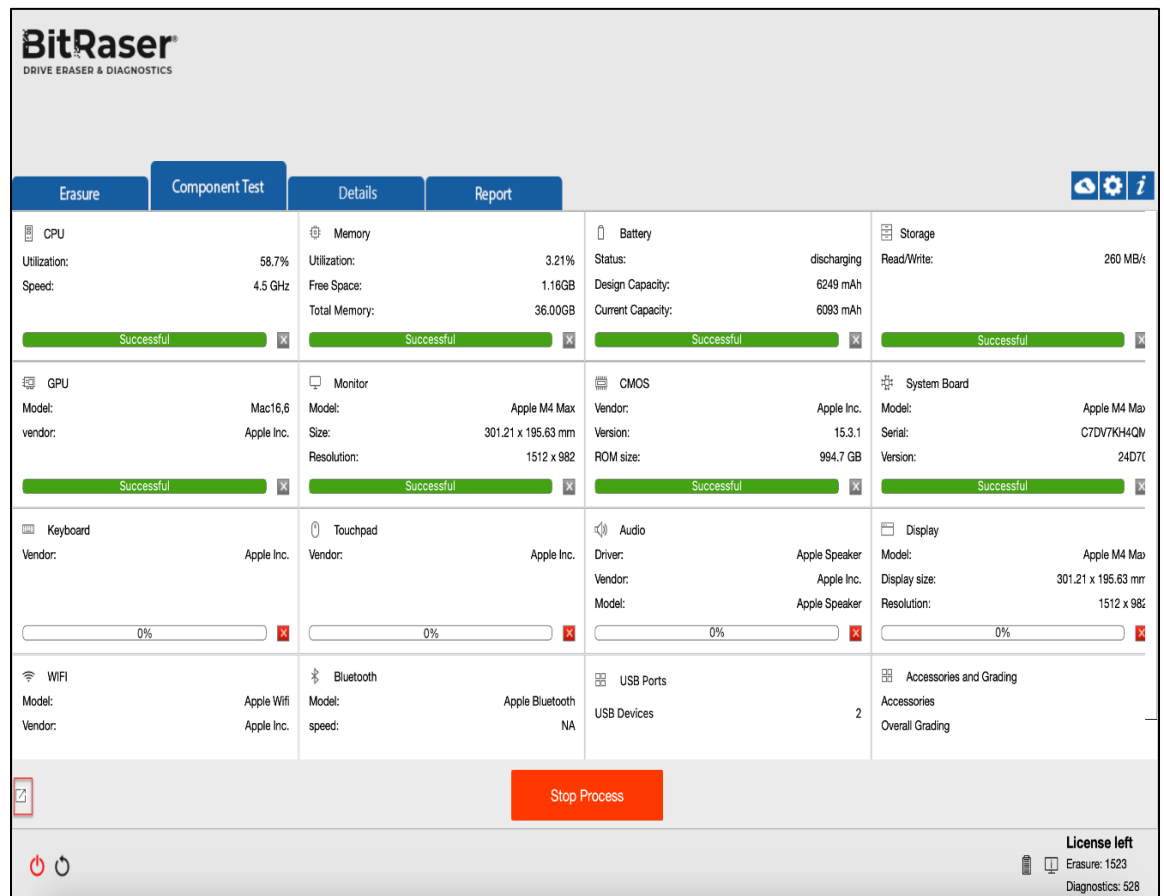
**Note:** You can also write the remarks of the **Accessories** and **Grading** in the Remark field on the **Accessories and Grading** screen.

3. The **BitRaser Drive Eraser & Diagnostics** dialog box appears on the screen with the message "Congratulations! Diagnostic tests completed". Click **OK**.





**Note:** You can minimize the test screen using  and open it using . It is shown in the red box in the image given below.



## 4.3. CONFIGURE ERASURE AND DIAGNOSTIC DETAILS

---

Configure the general information about the customer, asset details and add custom fields as per the requirements. The information entered in this section will be added to the Erasure and Diagnostic Reports and can be modified later if required. The Erasure and Diagnostic Details configuration is divided into three sub-sections:

1. **[Enter Details](#)**: Details allow you to enter information like customer details, media details, details of the technician performing the erasure, and the person validating the erasure.
2. **[Enter Asset Details](#)**: The Asset Details Tab shows information like adding a Machine Asset Tag and shows the information about the Asset Tag, Model No, Serial No, and Size of the connected storage device(s).
3. **[Enter Custom Fields](#)**: Custom Fields allows you to enter up to 20 sets of customized fields that can be added to the Erasure Reports.

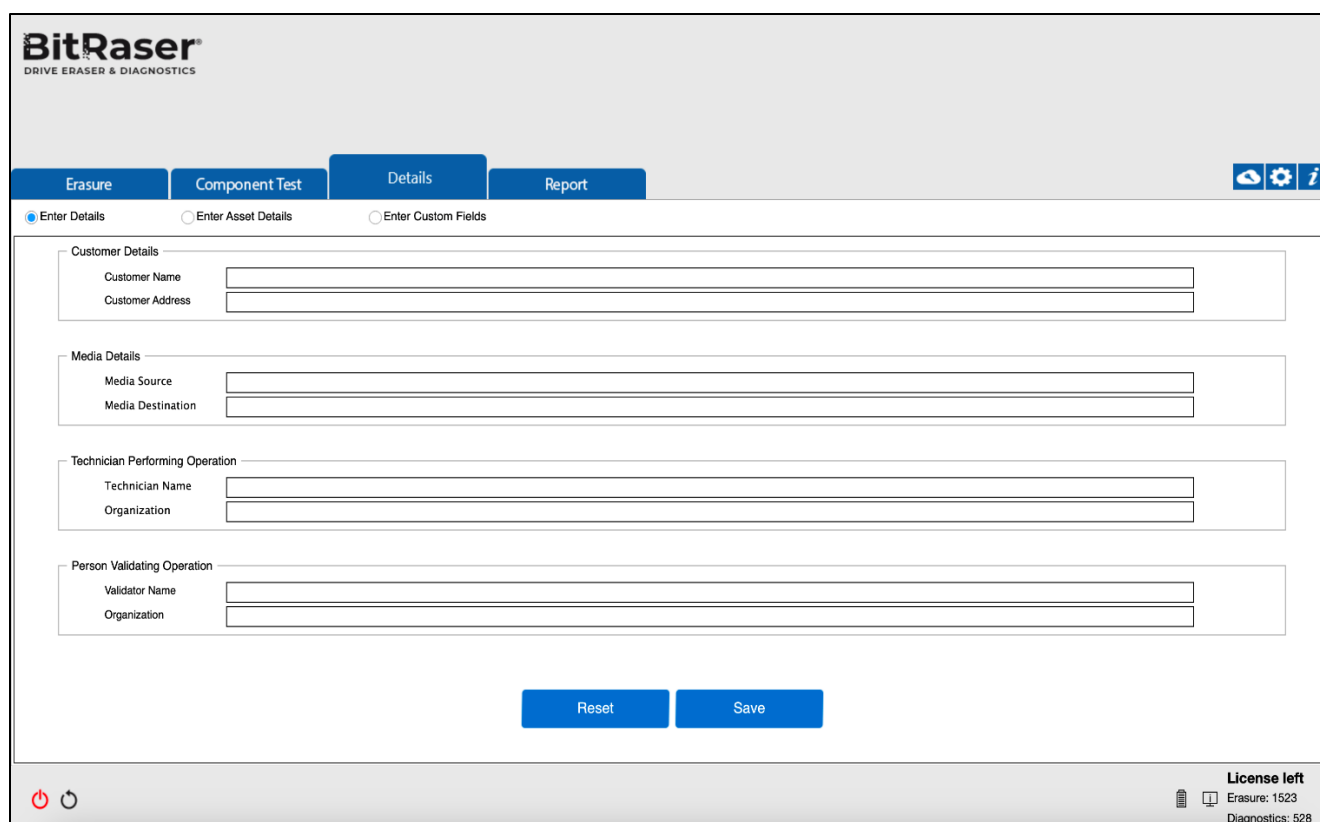
## 4.3.1. ENTER DETAILS

Configure the general information about the customer, media handling details, technician details who will be performing the erasure and diagnostic, and the details like validation of the erasure process performed.

The information entered in this section will be added to the Erasure Reports and can be modified later if required.

To enter the Erasure and diagnostic Details, follow the below steps:

1. Run **BitRaser Drive Eraser & Diagnostics**.
2. Navigate to the **Details** tab and then select the **Enter Details** radio button.



The screenshot shows the BitRaser Drive Eraser & Diagnostics application window. The 'Details' tab is active, and the 'Enter Details' radio button is selected. The form contains four sections: Customer Details (Customer Name, Customer Address), Media Details (Media Source, Media Destination), Technician Performing Operation (Technician Name, Organization), and Person Validating Operation (Validator Name, Organization). At the bottom, there are 'Reset' and 'Save' buttons. The bottom status bar shows 'License left', 'Erasure: 1523', and 'Diagnostics: 528'.

3. Enter the required details:
  - **Customer Details:** Enter the details associated with the customer, like Customer Name and Customer Address.
  - **Media Details:** Enter the details associated with the media/machine, like Media Source and Media Destination.
  - **Technician Performing Operation:** Enter the details of the technician who would perform the erasure and diagnostic process. It contains the fields Technician Name and Organization.
  - **Person Validating Operation:** Enter the details of the person who is validating the erasure and diagnostic process. It contains the fields Validator Name and Organization.
4. Click the **Reset** button to reset the fields, if required, or click the **Save** button to save the information.

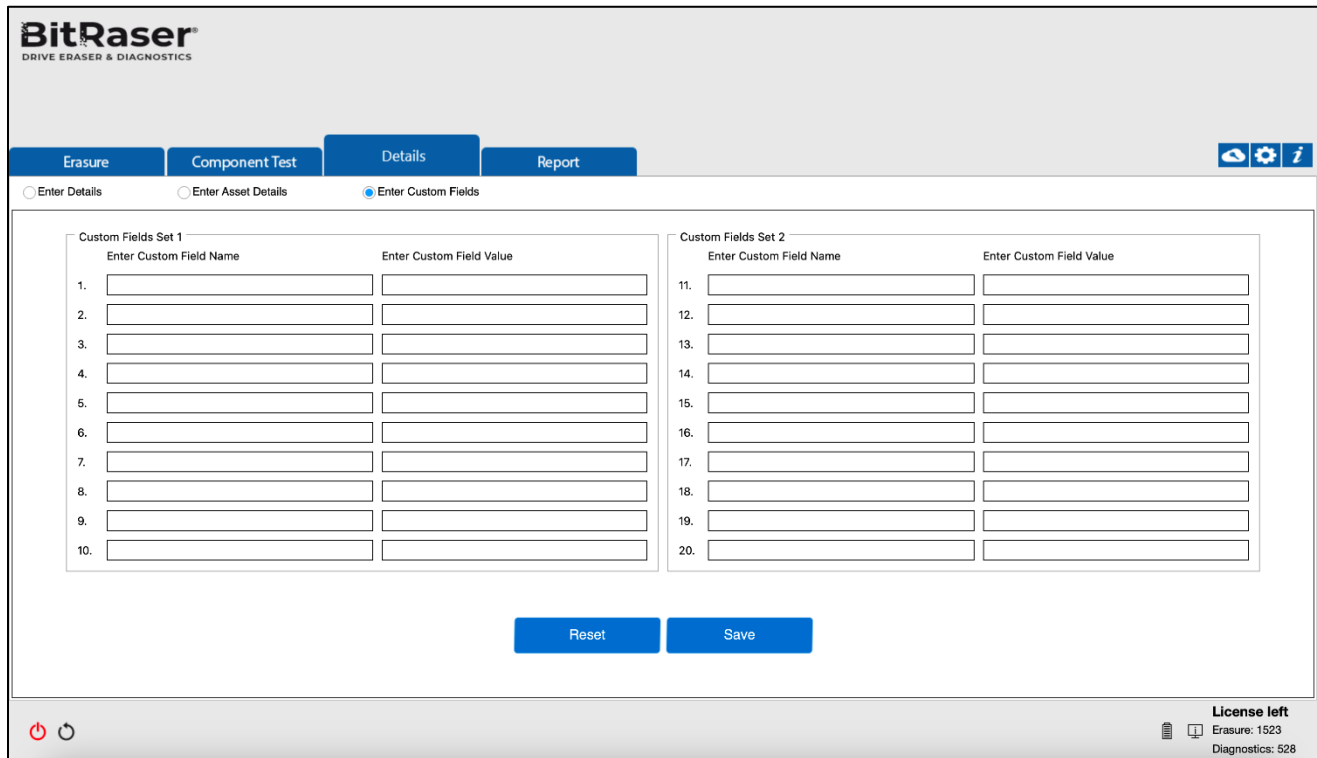


### 4.3.3. ENTER CUSTOM FIELDS

Add up to 20 sets of customized fields that can be used in creating the Erasure or diagnostic Reports.

To add Custom Fields, follow the below steps:

1. Run **BitRaser Drive Erase & Diagnostics**.
2. Navigate to the **Details** tab and then select the **Enter Custom Fields** radio button.



The screenshot shows the BitRaser Drive Erase & Diagnostics software interface. The top navigation bar includes tabs for Erasure, Component Test, Details, and Report. The 'Details' tab is active, and the 'Enter Custom Fields' radio button is selected. The main area displays two sets of custom fields, 'Custom Fields Set 1' and 'Custom Fields Set 2'. Each set has a table with two columns: 'Enter Custom Field Name' and 'Enter Custom Field Value'. Set 1 has 10 rows, and Set 2 has 10 rows. Below the tables are 'Reset' and 'Save' buttons. The bottom status bar shows a license left indicator and usage statistics: Erasure: 1523, Diagnostics: 528.

3. Enter the **Custom Field Name(s)** and **Custom Field Value(s)**.
4. Click the **Reset** button to reset the fields, if required, or click the **Save** button to save the information.

## 4.4. WORK ON REPORT AND CERTIFICATE

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**BitRaser Drive Eraser & Diagnostics** provides detailed erasure and diagnostics reports. It provides erasure reports that contain details such as Report Information, Customer Details, Erasure Summary, Hardware Test, Hardware Information, Custom Fields, and Erasure Results. It also analyzes the performance and health of the components and summarizes the functionality of each component examined with the help of a Report. The diagnostics report provides basic details like the tests conducted on the components, machine information, errors found, custom fields, diagnostics and validation details etc. For more information, navigate to the below links.

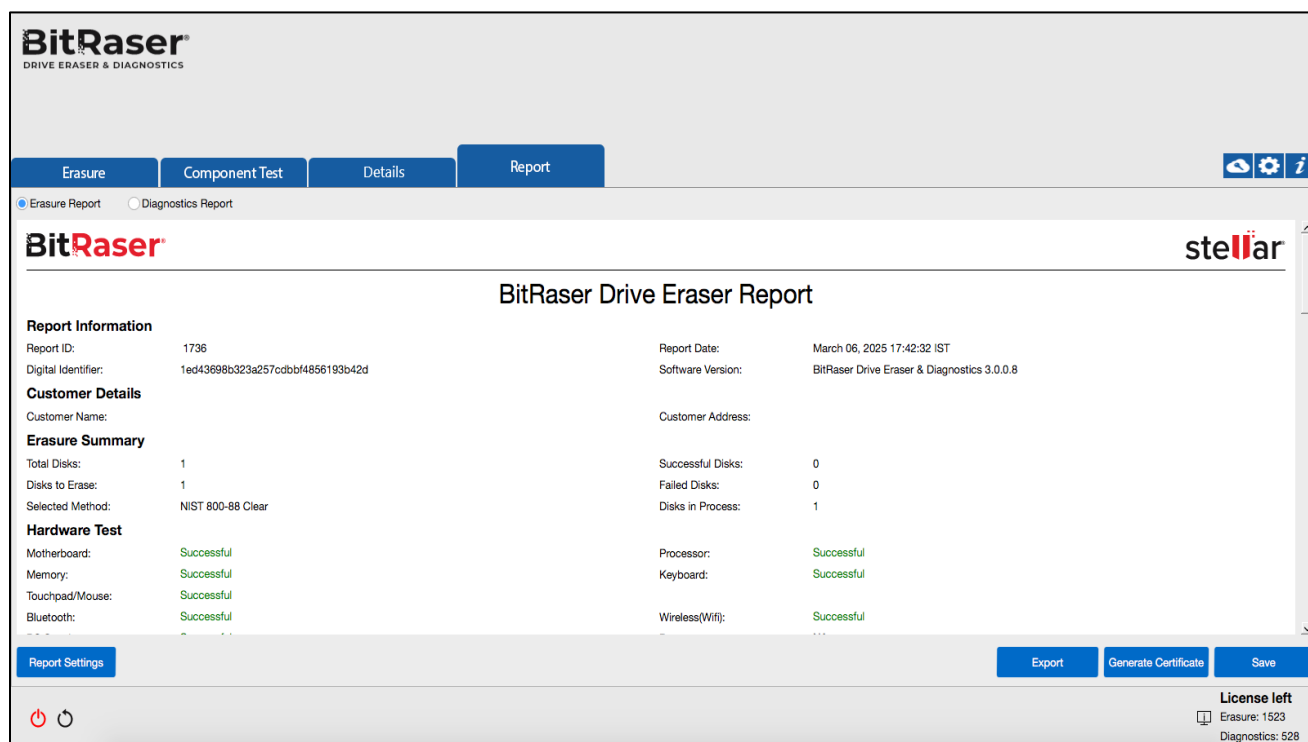
4.4.1. [Drive Eraser Report](#)

4.4.2. [Diagnostics report](#)

## 4.4.1. DRIVE ERASER REPORT

**BitRaser Drive Eraser & Diagnostics** provides you with detailed information and contains data fields like Report Information, Customer Details, Erasure Summary, Hardware Test, Hardware Information, Custom Fields, and Erasure Results.

These data fields are explained below:



**BitRaser**  
DRIVE ERASER & DIAGNOSTICS

Erasure Component Test Details **Report**

Erasure Report Diagnostics Report

**BitRaser** stellar

### BitRaser Drive Eraser Report

**Report Information**

Report ID: 1736  
Digital Identifier: 1ed43698b323a257c0bbf4856193b42d  
Report Date: March 06, 2025 17:42:32 IST  
Software Version: BitRaser Drive Eraser & Diagnostics 3.0.0.8

**Customer Details**

Customer Name:  
Customer Address:

**Erasure Summary**

Total Disks: 1  
Disks to Erase: 1  
Selected Method: NIST 800-88 Clear  
Successful Disks: 0  
Failed Disks: 0  
Disks in Process: 1

**Hardware Test**

Motherboard: Successful  
Memory: Successful  
Touchpad/Mouse: Successful  
Bluetooth: Successful  
Processor: Successful  
Keyboard: Successful  
Wireless(Wifi): Successful

Report Settings Export Generate Certificate Save

License left  
Erasure: 1523  
Diagnostics: 528

- **Report Information:** Report Information contains details such as Report ID, Report Date, Digital Identifier and Software Version.
- **Customer Details:** Customer Details contain details such as Customer Name and Address.
- **Erasure Summary:** Erasure Summary contains the number of disks, disks to erase, disks to process, and the number of successful or failed erasure of disks.
- **Hardware Test:** Hardware Test contains details of tests performed on various hardware devices of the system such as motherboard, memory, processor, and so on.
- **Hardware Information:** Hardware Information lists out the hardware details of the computer such as manufacturer details, detailed system information, Disk information, Processor details, Network Adapter details, BIOS, Battery and so on.
- **Custom Fields:** Custom Fields contain the customized information that you have defined using the Custom Fields option of BitRaser Drive Eraser & Diagnostics.
- **Erasure Results:** Erasure Results contain disk-wise details of the erasure performed such as erasure method, number of sectors processed, asset tag, start and end time of process along with duration and status.

For information about viewing and customizing a report, see [View and Customize Report](#).

For information about saving a report in PDF format, see [Save Report](#).

**BitRaser Drive Eraser Certificate:**

**BitRaser Drive Eraser & Diagnostics** also provides you with a certificate of the erasure process performed. This certificate contains all the erasure details along with the signature and details of the technician and validator performing the erasure process.

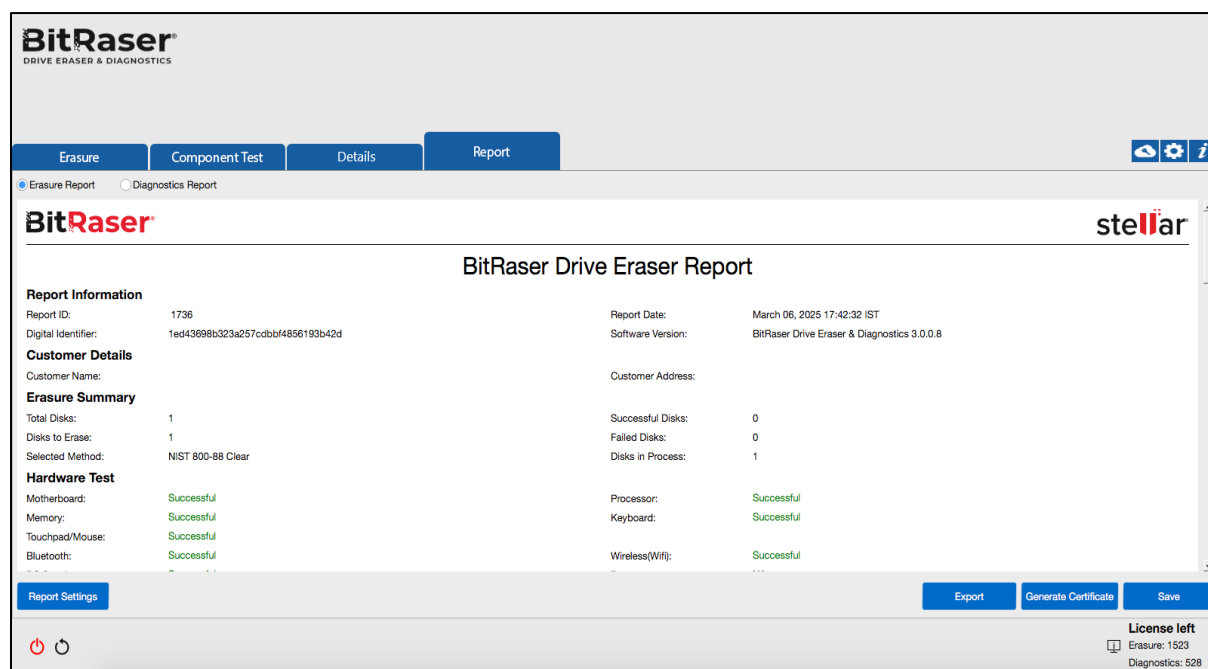
For information about generating and saving the certificate, see [Generate and Save Certificate](#).



## 4.4.1.1. VIEW AND CUSTOMIZE ERASER REPORT

To View and Customize Drive Eraser Report:

1. Run **BitRaser Drive Eraser & Diagnostics**.
2. Navigate to the **Report** tab and select the **Erasure Report** radio button. By default, the **Erasure Report** radio button will be selected.
3. The current erasure report appears as shown below in the image:



**BitRaser**  
DRIVE ERASER & DIAGNOSTICS

Erasure Component Test Details **Report**

☒ Erasure Report ☐ Diagnostics Report

**BitRaser** **stellar**

### BitRaser Drive Eraser Report

**Report Information**

Report ID: 1736  
Digital Identifier: 1ed43698b323a257cddb4856193b42d

Report Date: March 06, 2025 17:42:32 IST  
Software Version: BitRaser Drive Eraser & Diagnostics 3.0.0.8

**Customer Details**

Customer Name:  
Customer Address:

**Erasure Summary**

Total Disks: 1  
Disks to Erase: 1  
Selected Method: NIST 800-88 Clear

Successful Disks: 0  
Failed Disks: 0  
Disks in Process: 1

**Hardware Test**

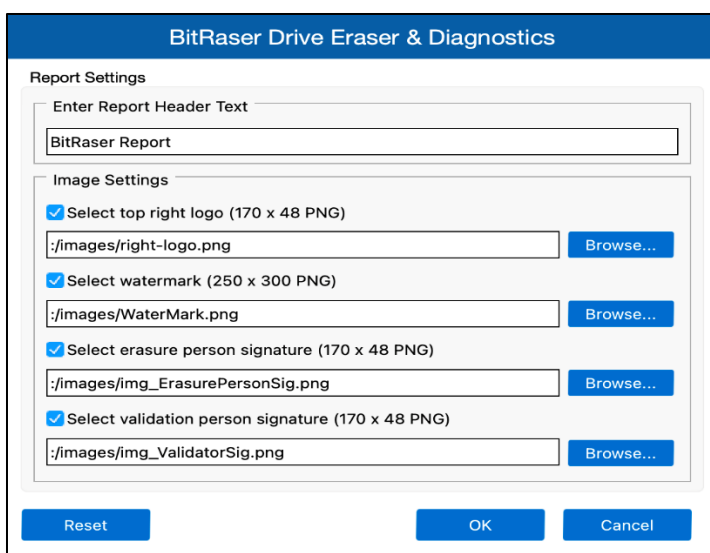
Motherboard: Successful  
Memory: Successful  
Touchpad/Mouse: Successful  
Bluetooth: Successful

Processor: Successful  
Keyboard: Successful  
Wireless(WiFi): Successful

**Report Settings** **Export** **Generate Certificate** **Save**

**License left**  
Erasure: 1523  
Diagnostics: 528

4. In case you want to customize the report, select the **Report Settings** button located at the bottom left of the screen. The following Dialog box appears with two sections which are given below:
  - a. Report Settings
  - b. Image settings



5. In the **BitRaser Drive Eraser & Diagnostics** dialog box, you can edit the **Report Settings** and **Image Settings** of the report, as given below in the table:

Sections	Field Name	Description
Report Settings	Enter report header text	Enter the header text that appears on the header of the report (must be a maximum of 30 characters)
Image Settings	Select top right Logo	Select the checkbox and click Browse to select the top-right logo of the report (image size and format - 170 x 48 PNG)
	Select watermark	Select the checkbox and click Browse to select the watermark (image size and format - 250 x 300 PNG)
	Select erasure person signature	Select the checkbox and click Browse to select the erasure person signature (image size and format - 170 x 48 PNG)
	Select validation person signature	Select the checkbox and click Browse to select the validation person signature (image size and format - 170 x 48 PNG)

**Note:** You can reset report settings fields using the *Reset* button located at the bottom left of the *Report Settings* dialog box.

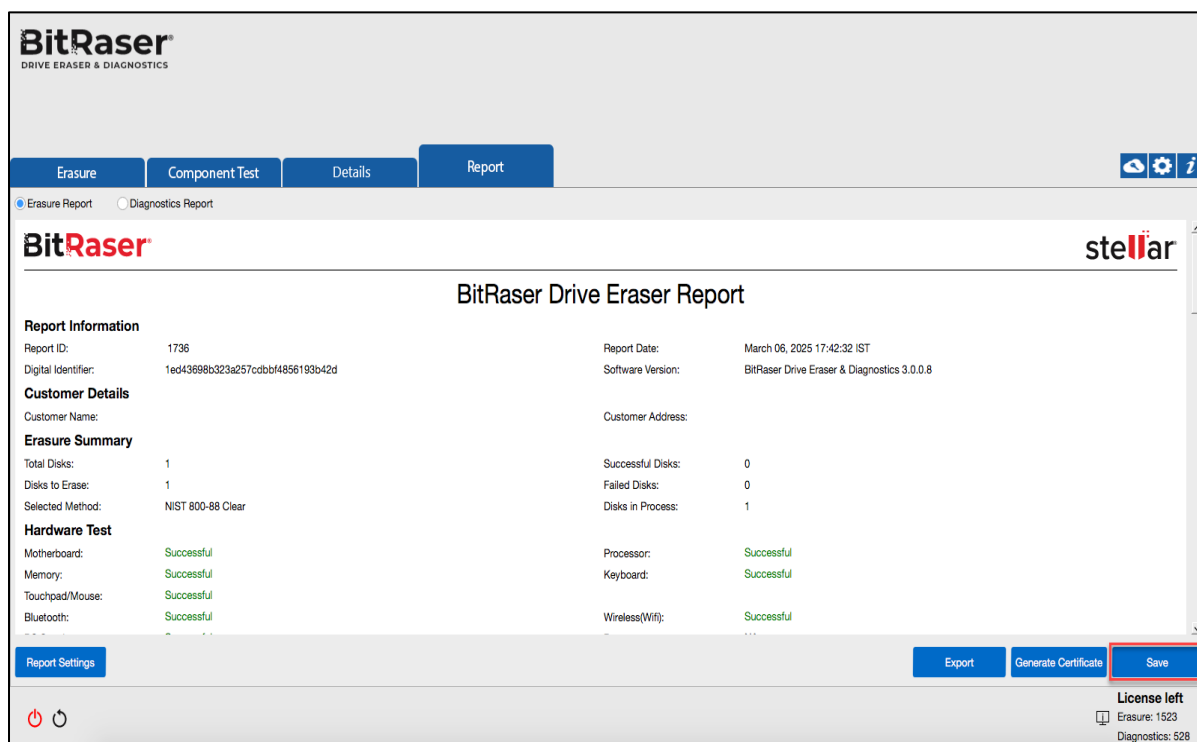
**Note:** The top right logo, watermark, erasure person signature and validation person signature image size need to be the same as specified in Report Settings. The top left logo and footer image and text are set by default. **BitRaser Drive Eraser & Diagnostics** will accept images with specified sizes and formats only. In case of a size mismatch, BitRaser Drive Eraser will continue to use the previously selected images.

6. After making the required changes to Report Settings, click **OK** to save.

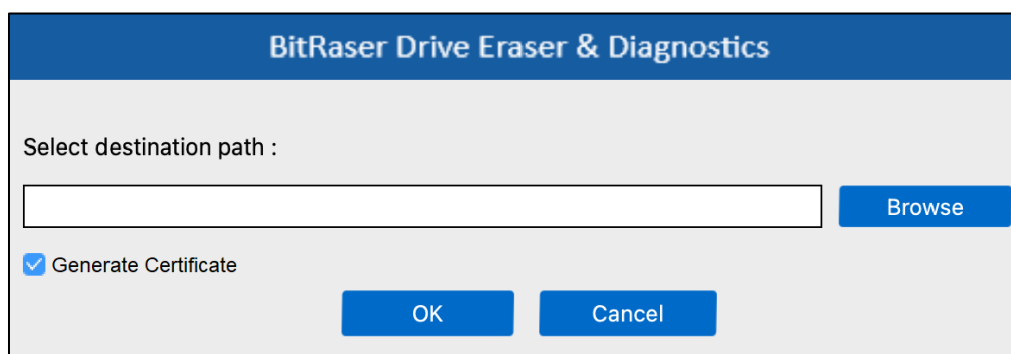
## 4.4.1.2. SAVE ERASER REPORT

To save the report, follow these steps:

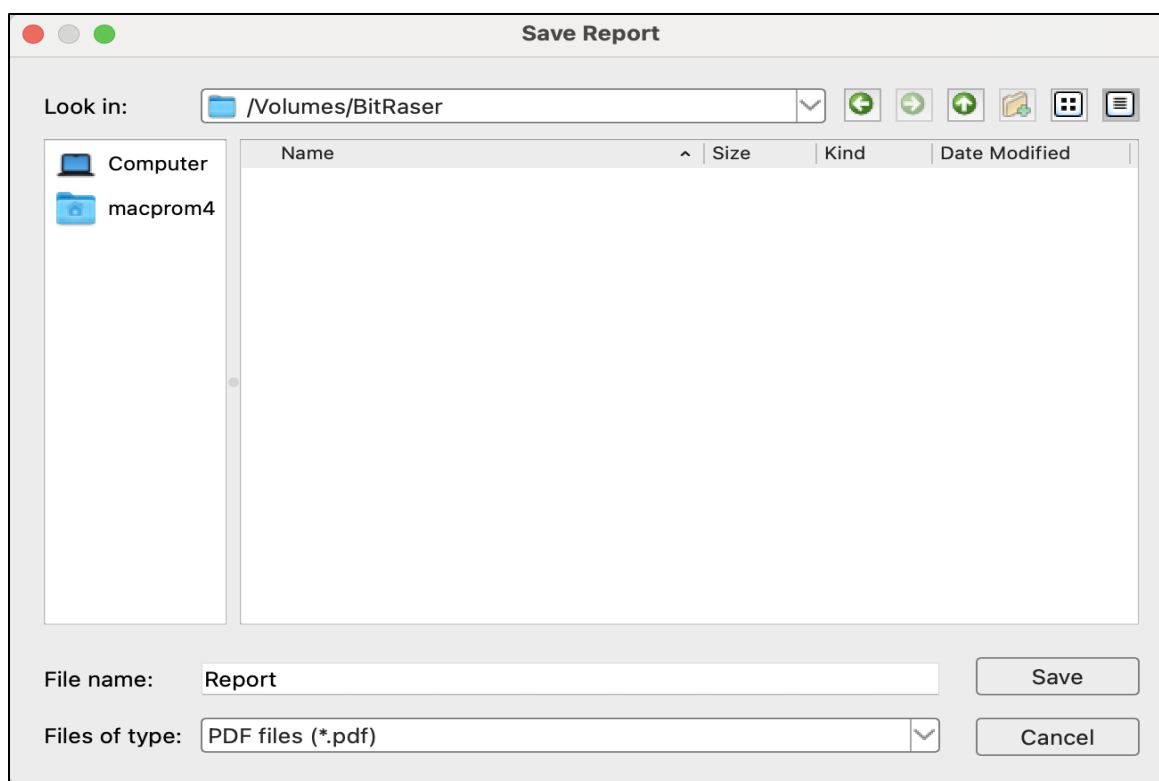
1. Run **BitRaser Drive Eraser & Diagnostics**.
2. Navigate to the **Report** tab and select the **Erasure Report** radio button. By default, the **Erasure Report** radio button will be selected.
3. Click the **Save** button at the bottom right of the screen.



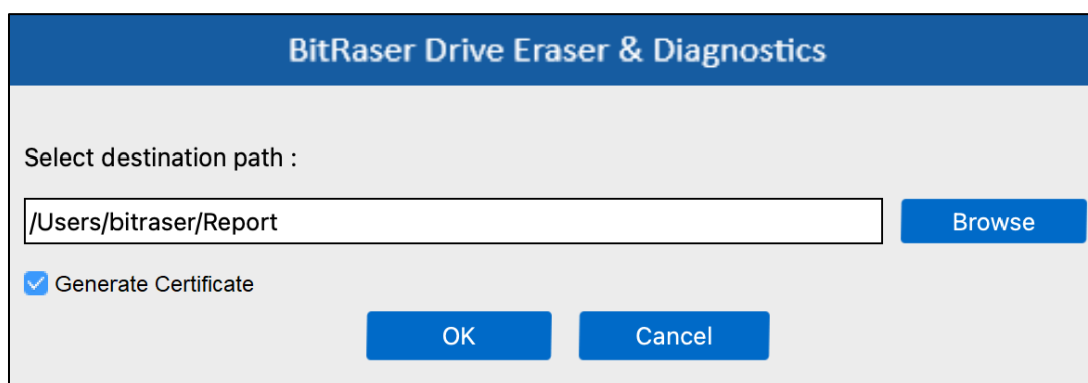
4. The following dialog box will appear.



5. Click **Browse** to choose the destination where you want to save the report.
6. The **Save Report** window appears, choose the path where you want to save the report. Click **Save**.



7. Click **OK** to save the report.



**Note:** To generate both the certificate and report, select the **Generate Certificate** checkbox.

8. The "**report saved successfully**" message appears on the screen. Click **OK**.

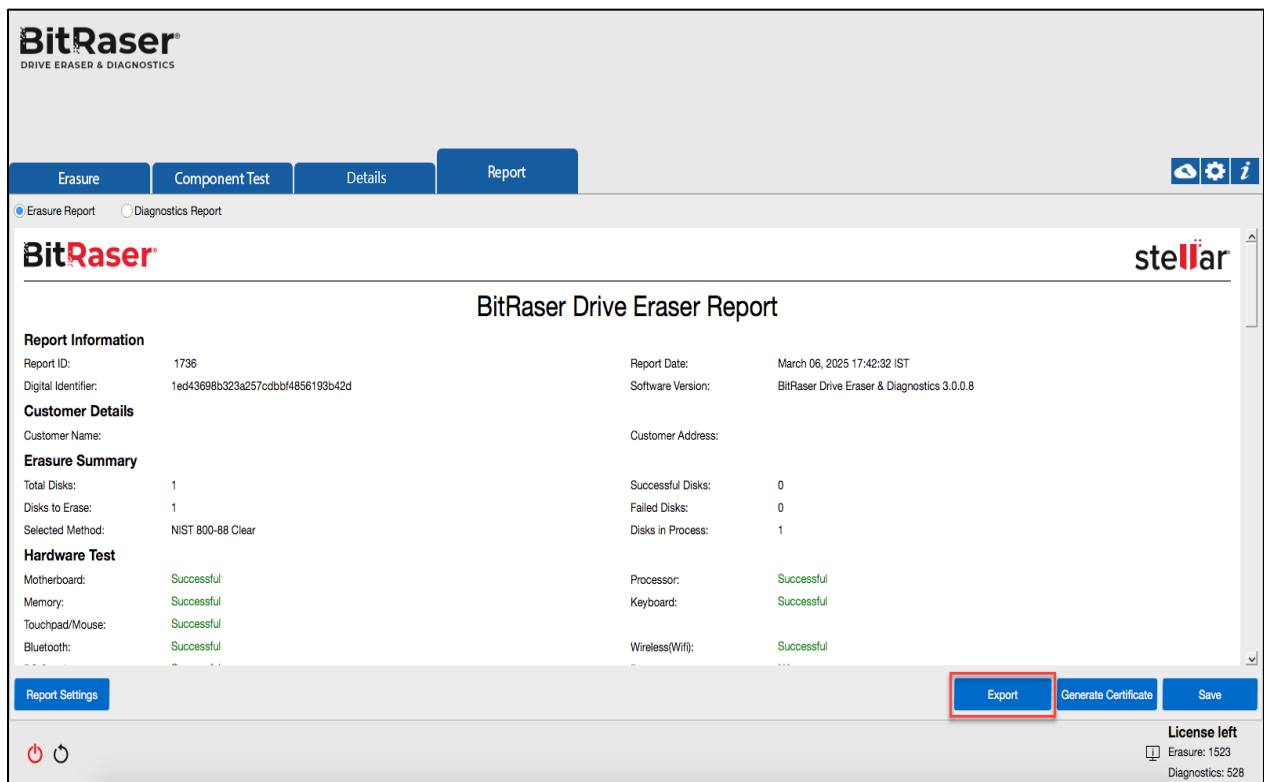


### 4.4.1.3. EXPORT ERASER REPORT TO CLOUD

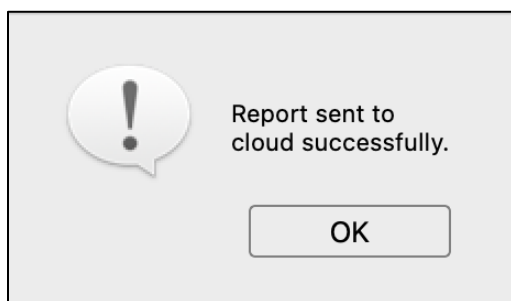
In case the Report is not sent to the cloud, then you need to follow the below steps:

To export the report to the cloud, follow these steps:

1. Run **BitRaser Drive Eraser & Diagnostics**.
2. Navigate to the **Report** tab and select the **Erasure Report** radio button. By default, the **Erasure Report** radio button will be selected.
3. Click on the **Export** Button located at the bottom right of the screen.



4. The "report sent to cloud successfully" message appears on the screen. Click **OK**.

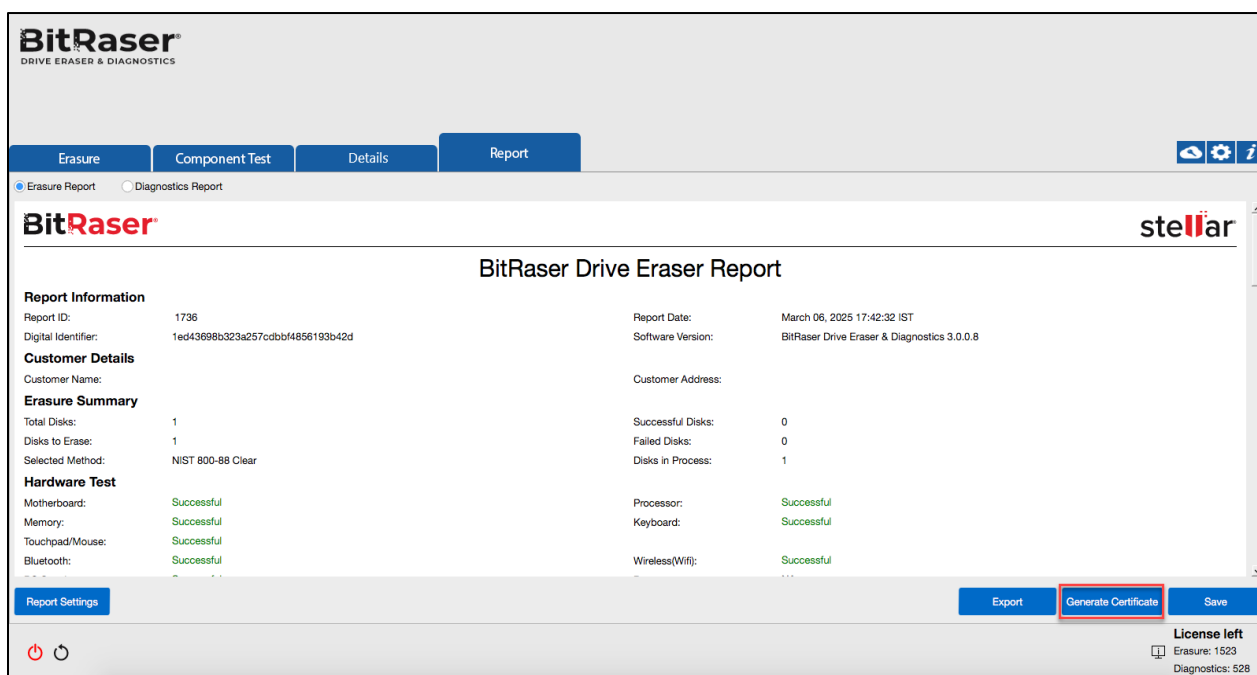


## 4.4.1.4. GENERATE AND SAVE CERTIFICATE

This option allows you to generate and save the erasure certificate.

To generate and save the certificate, follow the steps which are given below:

1. Run **BitRaser Drive Eraser & Diagnostics**.
2. Navigate to the **Report** tab and select the **Erasure Report** radio button. By default, the **Erasure Report** radio button will be selected.
5. Click on the **Generate Certificate** Button at the bottom right of the screen.



6. A window appears, select the path where you want to save the report. Click **Open**.
7. **Certificate saved successfully** message appears on the screen. Click **OK**.



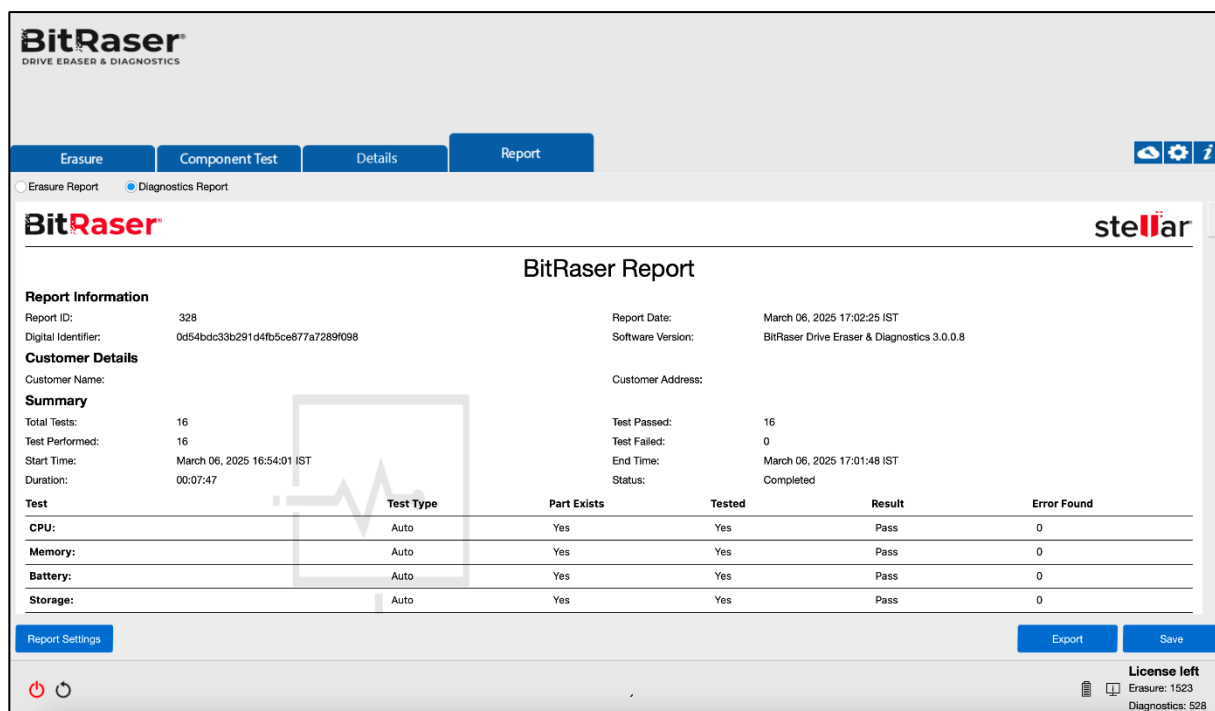
## 4.4.2. DIAGNOSTICS REPORT

**BitRaser Drive Eraser & Diagnostics** analyze the performance and health of the components and summarize the functionality of each component examined with the help of a Report. The Report provides basic details like the tests conducted on the components, machine information, errors found, custom fields, diagnostics and validation details, etc. This application provides users with the flexibility to generate two kinds of reports:

1. [Short Report](#)
2. [Detailed Report](#)

### Short Report

You can generate short reports to get brief information about the health of the component. The summary attributes present in the short report are explained below:



**BitRaser**  
DRIVE ERASER & DIAGNOSTICS

Erasure Component Test Details **Report**

Erasure Report Diagnostics Report

**BitRaser Report**

**Report Information**

Report ID: 328 Report Date: March 06, 2025 17:02:25 IST  
 Digital Identifier: 0d54bdc33b291d4fb5ce877a7289f098 Software Version: BitRaser Drive Eraser & Diagnostics 3.0.0.8

**Customer Details**

Customer Name: Customer Address:

**Summary**

Total Tests: 16 Test Passed: 16  
 Test Performed: 16 Test Failed: 0  
 Start Time: March 06, 2025 16:54:01 IST End Time: March 06, 2025 17:01:48 IST  
 Duration: 00:07:47 Status: Completed

Test	Test Type	Part Exists	Tested	Result	Error Found
CPU:	Auto	Yes	Yes	Pass	0
Memory:	Auto	Yes	Yes	Pass	0
Battery:	Auto	Yes	Yes	Pass	0
Storage:	Auto	Yes	Yes	Pass	0

Report Settings Export Save

License left  
 Erasure: 1523  
 Diagnostics: 528

- **Report Information:** Report Information contains details such as ReportID, Report Date, Digital Identifier and Software Version.
- **Customer Details:** Customer Details contain details such as Customer Name and address.
- **Test Summary:** Test Summary contains Total Test, Test Passed, Test Performed, Test Failed, Start Time, End Time, Duration and the Status of the test.
- **Hardware Test:** Hardware Test contains details of tests performed on various hardware devices of the system such as system board, memory, CPU, and so on.



Fields	Description
Test	Shows the components on which test will be conducted
Test Type	Displays the tests as auto or manual
Part Exists	Contains the information about whether the component exists.
Tested	Component information about whether the component has been tested.
Result	Displays the result as either pass or fail.
Error Found	Indicates the error is either 0 or 1

- **Machine Information:** Hardware Information lists out the hardware details of the computer such as manufacturer details, detailed system information and memory.
- **Custom Fields:** Custom Fields contain the customized information that you have defined using the Custom Fields option of **BitRaser Drive Eraser & Diagnostics**.

## Detailed Report

Long reports provide extensive detailed information about the performance and health of the component. The summary attributes present in the long report are explained below:

- **Report Information:** Report Information contains details such as Report ID, Report Date, Digital Identifier and Software Version.
- **Customer Details:** Customer Details contain details such as Customer Name and Address.
- **Test Summary:** Test Summary contains Total Test, Test Passed, Test Performed, Test Failed, Start Time, End Time, Duration and the Status of the test.
- **Hardware Test:** Hardware Test contains details of tests performed on various hardware devices of the system such as system board, memory, CPU, and so on.
- **Machine Information:** Hardware Information lists out the hardware details of the computer such as manufacturer details, detailed system information and memory.
- **Detailed Device Test:** Contains information about the manufacturing details, functionality and the tests conducted on each component. The results of the tests contain the following

information:

Fields	Description
Test	Contains the tests that will be performed on the component.
Exists	Contains information about whether the test exists for the device or not.
Support	Shows whether the test supports the device or not.
Select	Indicates whether the test is selected.
Result	Displays whether the tests have passed or failed.
Error	Indicates the error is either 0 or 1

- **Custom Fields:** Custom Fields contain the customized information that you have defined using the Custom Fields option of **BitRaser Drive Eraser & Diagnostics**.

For information about viewing and customizing reports, see [View and Customize Report](#).

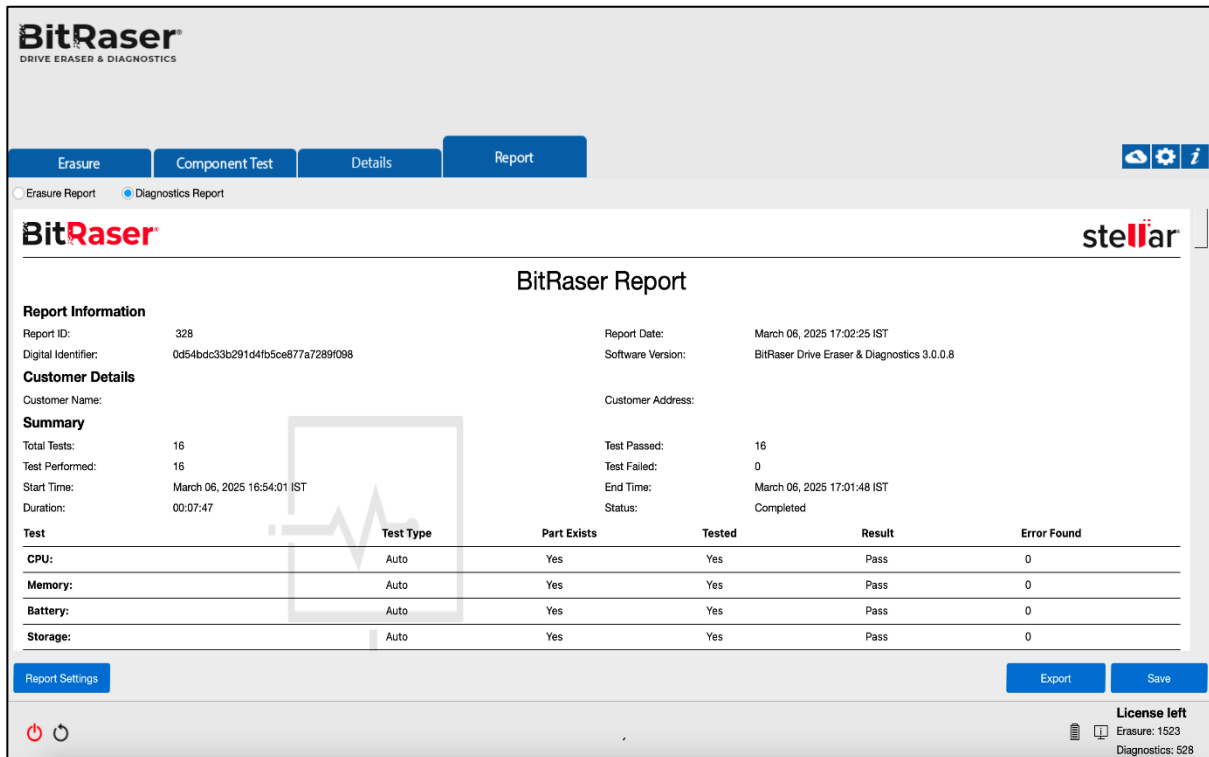
For information about saving a report, see [Save Report](#).

For information about sending a report to the **BitRaser server** or exporting a report to media in RPT format, see [Export Report](#).

## 4.4.2.1. VIEW AND CUSTOMIZE DIAGNOSTICS REPORT

To view and customize the diagnostics report, follow these steps:

1. Run **BiRaser Drive Eraser & Diagnostics**.
2. Navigate to the **Report** tab and then select the **Diagnostics Report** radio button.
3. The current diagnostics report appears as shown below in the image:



**BitRaser**  
DRIVE ERASER & DIAGNOSTICS

Erasure Component Test Details **Report**

☐ Erasure Report ☒ Diagnostics Report

**BitRaser** **stellar**

### BitRaser Report

**Report Information**

Report ID: 328 Report Date: March 06, 2025 17:02:25 IST  
 Digital Identifier: 0d54bdc33b291d4fb5ce877a7289f098 Software Version: BitRaser Drive Eraser & Diagnostics 3.0.0.8

**Customer Details**

Customer Name: Customer Address:

**Summary**

Total Tests: 16 Test Passed: 16  
 Test Performed: 16 Test Failed: 0  
 Start Time: March 06, 2025 16:54:01 IST End Time: March 06, 2025 17:01:48 IST  
 Duration: 00:07:47 Status: Completed

Test	Test Type	Part Exists	Tested	Result	Error Found
CPU:	Auto	Yes	Yes	Pass	0
Memory:	Auto	Yes	Yes	Pass	0
Battery:	Auto	Yes	Yes	Pass	0
Storage:	Auto	Yes	Yes	Pass	0

Report Settings Export Save

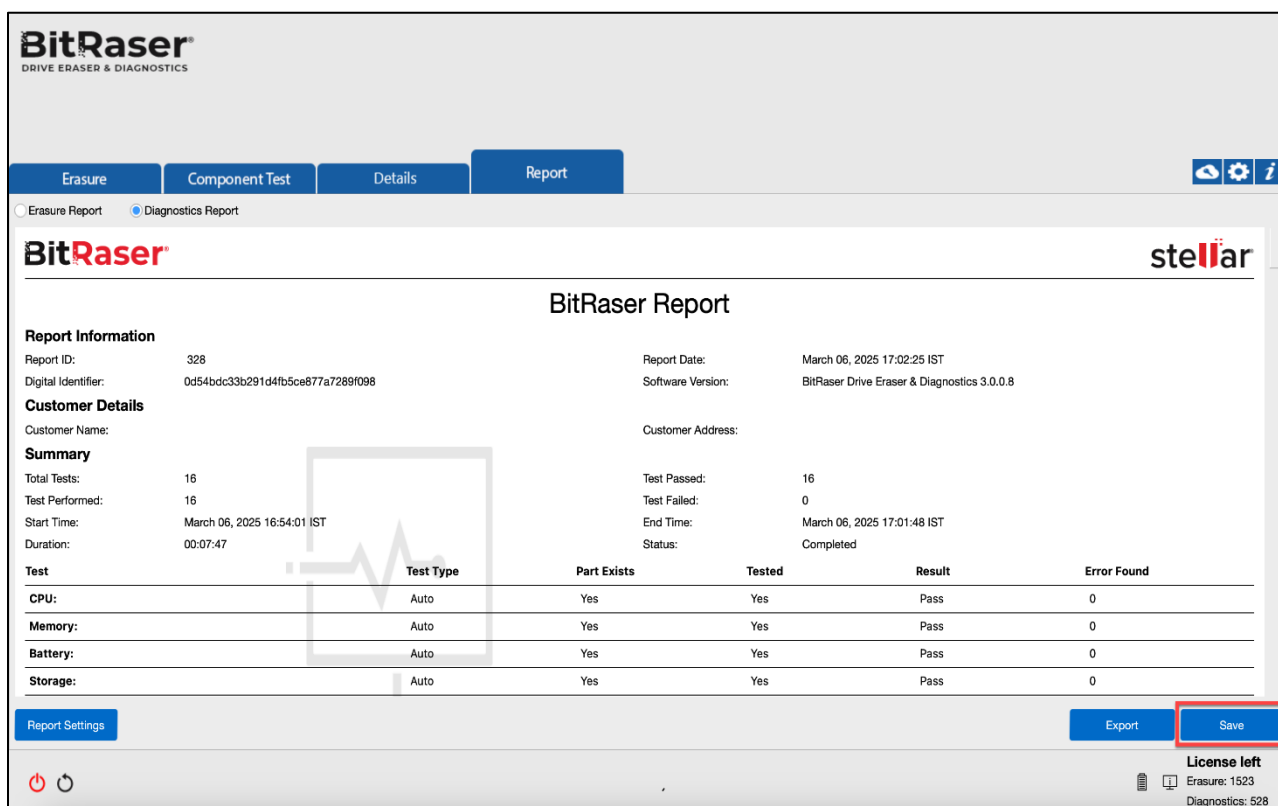
License left  
 Erasure: 1523  
 Diagnostics: 528

4. To know the remaining steps, click [here](#).

## 4.4.2.2. SAVE DIAGNOSTICS REPORT

To save the report, follow these steps:

1. Run **BiRaser Drive Eraser & Diagnostics**.
2. Navigate to the **Report** tab and then select the **Diagnostics Report** radio button.
3. Click on the **Save** button at the bottom right of the screen.



**BitRaser**  
DRIVE ERASER & DIAGNOSTICS

Erasure Component Test Details **Report**

☐ Erasure Report ☒ Diagnostics Report

**BitRaser** **stellar**

### BitRaser Report

**Report Information**  
 Report ID: 328  
 Digital Identifier: 0d54bdc33b291d4fb5ce877a7289f098  
 Report Date: March 06, 2025 17:02:25 IST  
 Software Version: BitRaser Drive Eraser & Diagnostics 3.0.0.8

**Customer Details**  
 Customer Name:  
 Customer Address:

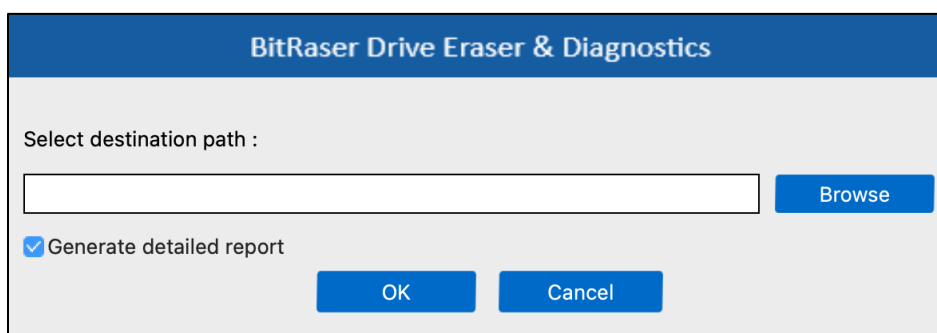
**Summary**  
 Total Tests: 16  
 Test Performed: 16  
 Start Time: March 06, 2025 16:54:01 IST  
 Duration: 00:07:47  
 Test Passed: 16  
 Test Failed: 0  
 End Time: March 06, 2025 17:01:48 IST  
 Status: Completed

Test	Test Type	Part Exists	Tested	Result	Error Found
CPU:	Auto	Yes	Yes	Pass	0
Memory:	Auto	Yes	Yes	Pass	0
Battery:	Auto	Yes	Yes	Pass	0
Storage:	Auto	Yes	Yes	Pass	0

Report Settings Export **Save**

License left  
 Erasure: 1523  
 Diagnostics: 528

4. The following dialog box will appear.



**BitRaser Drive Eraser & Diagnostics**

Select destination path :

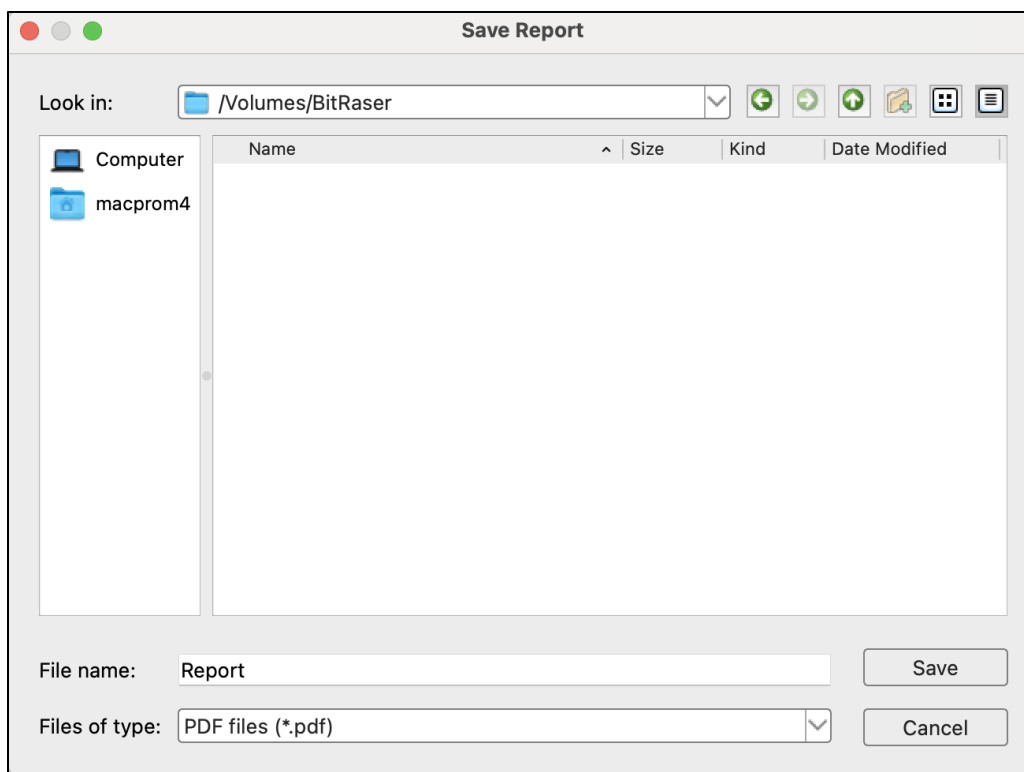
**Browse**

☒ Generate detailed report

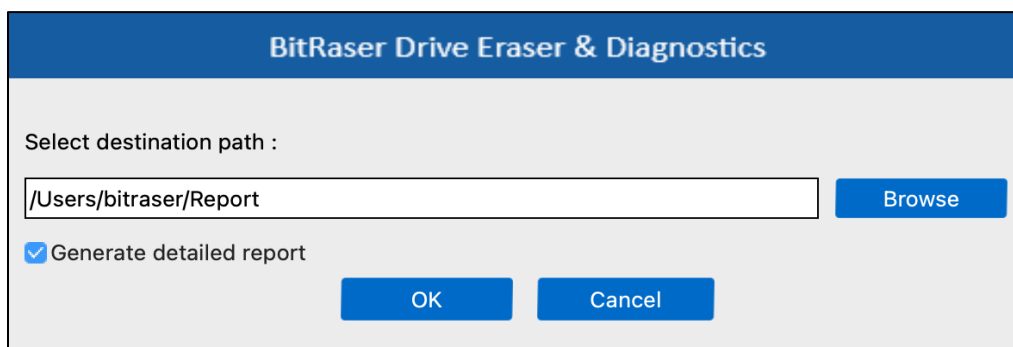
**OK Cancel**

5. Click **Browse** to choose the destination where you want to save the report.

6. A window **Save Report** window appears. Choose the path where you want to save the report. Click **Save**.

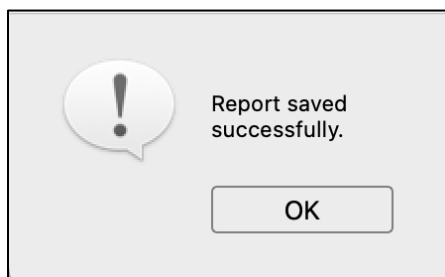


7. Click **OK** to save the report.



**Note:** To generate a detailed report, check the '**Generate Detailed Report**' box. If you leave the box unchecked, a short report will be generated instead.

8. The "**report saved successfully**" message appears on the screen. Click **OK**.

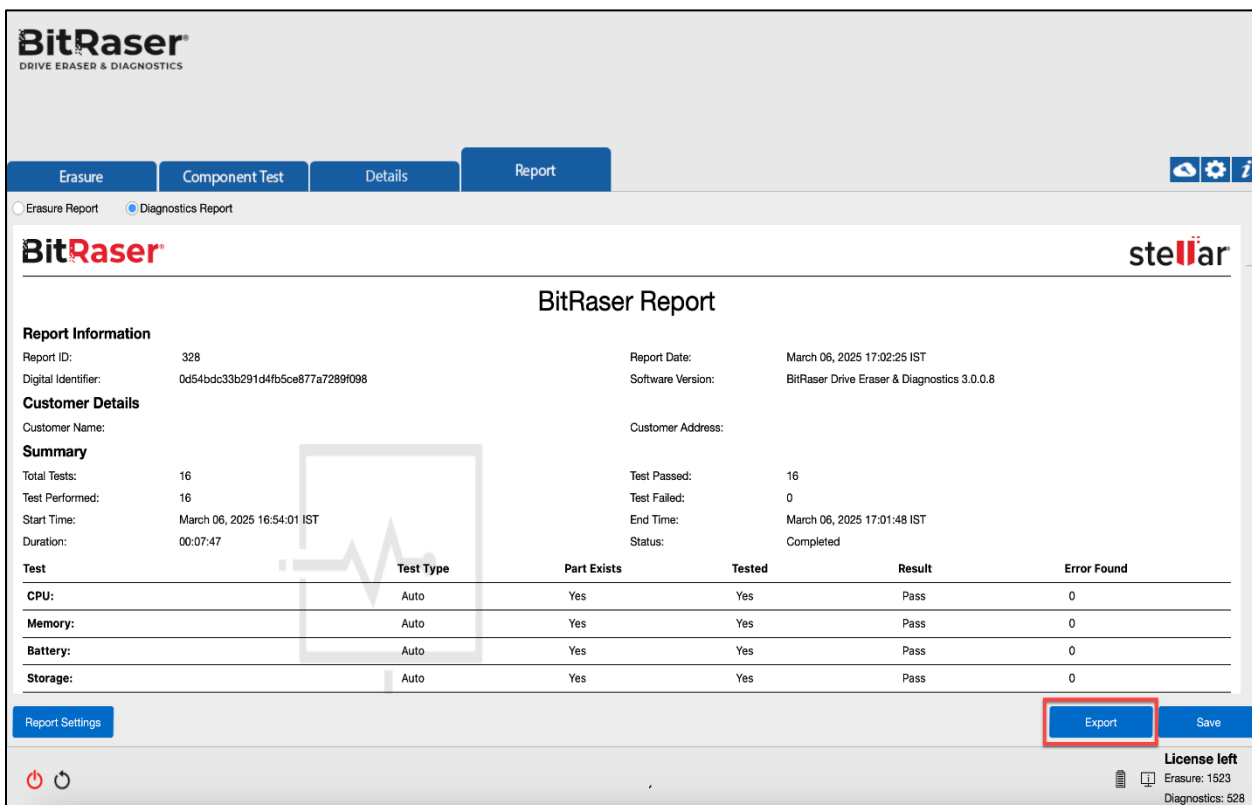


### 4.4.2.3. EXPORT DIAGNOSTICS REPORT TO CLOUD

In case the Report is not sent to the cloud, then you need to follow the below steps:

To export the report, follow these steps:

1. Run **BiRaser Drive Eraser & Diagnostics**.
2. Navigate to the **Report** tab, and then select the **Diagnostics Report** radio button.
3. Click on the **Export** button at the bottom right of the screen.



**BitRaser**  
DRIVE ERASER & DIAGNOSTICS

Erasure Component Test Details **Report**

☐ Erasure Report ☒ Diagnostics Report

**BitRaser** **stellar**

### BitRaser Report

**Report Information**

Report ID: 328 Report Date: March 06, 2025 17:02:25 IST  
 Digital Identifier: 0d54bdc33b291d4fb5ce877a7289f098 Software Version: BitRaser Drive Eraser & Diagnostics 3.0.0.8

**Customer Details**

Customer Name: Customer Address:

**Summary**

Total Tests: 16 Test Passed: 16  
 Test Performed: 16 Test Failed: 0  
 Start Time: March 06, 2025 16:54:01 IST End Time: March 06, 2025 17:01:48 IST  
 Duration: 00:07:47 Status: Completed

Test	Test Type	Part Exists	Tested	Result	Error Found
CPU:	Auto	Yes	Yes	Pass	0
Memory:	Auto	Yes	Yes	Pass	0
Battery:	Auto	Yes	Yes	Pass	0
Storage:	Auto	Yes	Yes	Pass	0

Report Settings **Export** Save


License left  
 Erasure: 1523  
 Diagnostics: 528

4. The "report sent to cloud successfully" message appears on the screen. Click **OK**.



## 4.5. SETTINGS

---


**BitRaser Drive Eraser & Diagnostics** enables the user to configure various system settings with the help of the Settings  option available at the top right corner of the screen. This window contains various tabs which can be accessed to change various general and default settings of the software. Setting these configurations is either mandatory for setting up the application or for ease of using the application. The following tabs are used to configure the settings:

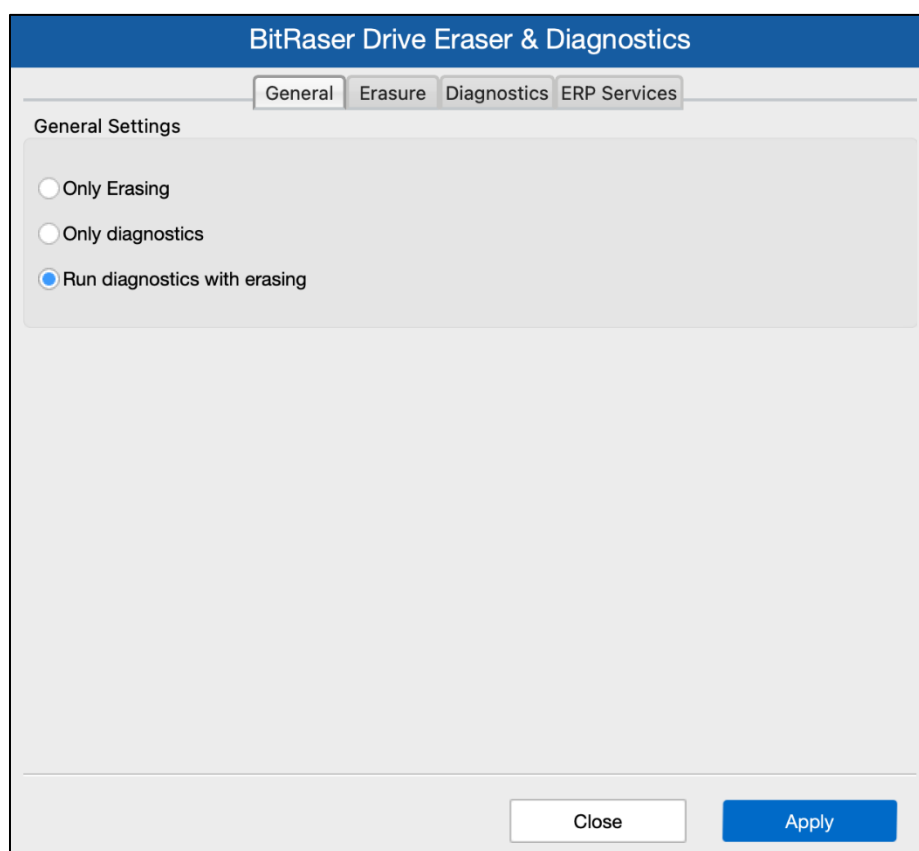
1. [General](#)
2. [Erasure](#)
3. [Diagnostics](#)
4. [ERP Services](#)

## 4.5.1. GENERAL

The General tab allows you to configure general settings details like only erasing, only diagnostics and run diagnostics with erasing. These options provide you flexibility to choose whether you want to run the processes individually or together, based on your specific needs.

To configure the general tab, follow these steps:

1. Run **BitRaser Drive Eraser & Diagnostics**.
2. Click on the Settings  icon on the top right corner of the screen. The settings window appears. This window can be used to change various general and default settings of the software.
3. Click on the **General** tab. The **General** tab window will appear, showing three options under the **General Settings** section, as listed below:
  - a. **Only Erasing**: If you want to perform only the erasing process on the software, select the **Only Erasing** radio button.
  - b. **Only diagnostics**: If you want to perform only the diagnostics process on the software, select the **Only diagnostics** radio button.
  - c. **Run diagnostics with erasing**: If you want to perform both diagnostics and erasing on the software, select the **Run diagnostics with erasing** radio button.



**Note:** By default, the **Run diagnostics with erasing** radio button will be selected

4. Click the **Apply** button to save the changes.




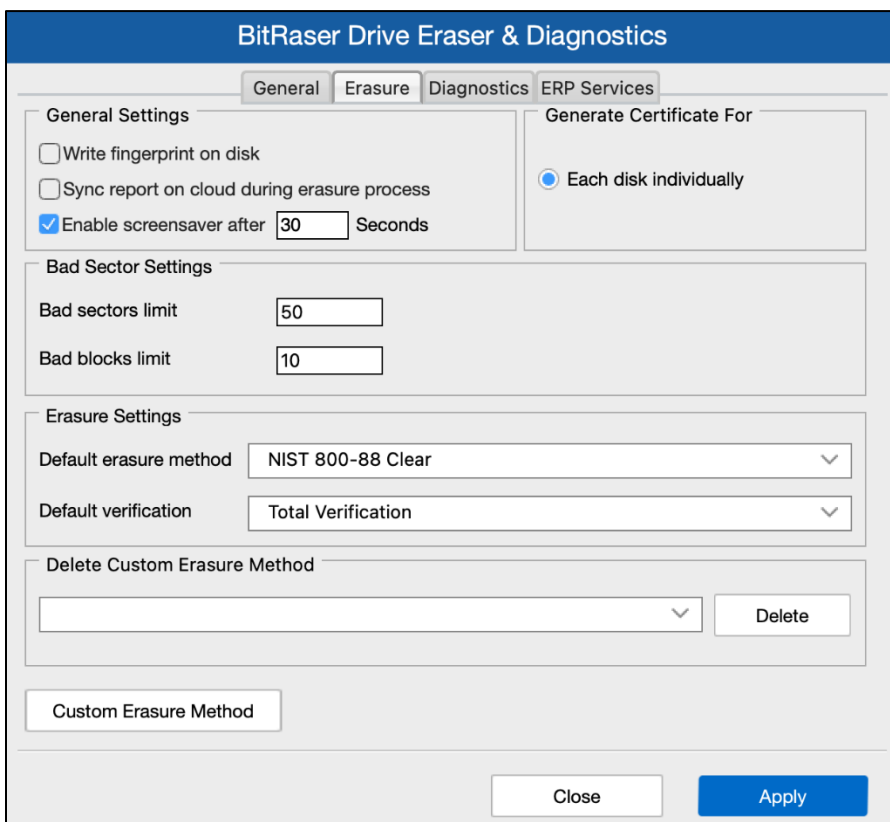
## 4.5.2. ERASURE

The Erasure tab allows you to configure the basic settings of the erasing process. Before proceeding with the erasure process, you can configure erasure settings as per your requirements.

### Steps to configure the Erasure tab

To configure the erasure tab, follow these steps:

1. Run **BitRaser Drive Eraser & Diagnostics**.
2. Click on the Settings  icon on the top right corner of the screen. The settings window appears. This window can be used to change various general and default settings of the software.
3. Click on the **Erasure** tab. A window appears that is divided into different sections, which are given below:
  - a. [General Settings](#)
  - b. [Generate Certificate for](#)
  - c. [Bad Sector Settings](#)
  - d. [Erasure Settings](#)
  - e. [Delete Custom Erasure Method](#)
  - f. [Custom Erasure Methods](#)



The screenshot shows the 'BitRaser Drive Eraser & Diagnostics' settings window with the 'Erasure' tab selected. The window is divided into several sections:

- General Settings:**
  - ☐ Write fingerprint on disk
  - ☐ Sync report on cloud during erasure process
  - ☒ Enable screensaver after  Seconds
- Generate Certificate For:**
  - ☒ Each disk individually
- Bad Sector Settings:**
  - Bad sectors limit:
  - Bad blocks limit:
- Erasure Settings:**
  - Default erasure method:
  - Default verification:
- Delete Custom Erasure Method:**
  - 
  -
- Custom Erasure Method:**
  -

At the bottom right, there are two buttons: 'Close' and 'Apply'.

## General Settings

In this section, you can configure different erasure settings, which are given below:

- **Write fingerprint on disk:** This field enables you to mark a fingerprint at the drive's sector after the completion of the erasure process. This fingerprint acts as a unique identifier to verify at a later stage that the drive has been erased using the BitRaser Drive Eraser & Diagnostics application. Specify the sector number for the drive in the text field provided where you wish to mark the fingerprint. To write a fingerprint on a disk, select the **Write fingerprint on disk** check box.
- **Sync report on cloud during erasure process:** On checking this field the report will be updated at each percentage of the erasure process.
- **Enable screensaver time:** This field enables a screensaver that shows you the process status, such as erasure completed, failed or in progress. Set the duration between 10 to 240 seconds, after which the screensaver should start appearing. By default, 30 seconds will be selected.

## Generate Certificate For

This option allows you to generate the certificate for a single drive or all the drives collectively. It contains the following option

- **Each disk individually:** To generate a separate certificate for each disk, select the **Each disk individually** checkbox.

## Bad Sector Settings

- **Bad Sector Limit:** Specify the Bad Sector limit after which the wiping process would stop. By default, 50 will be selected.
- **Bad Block Limit:** Specify the Bad Block limit after which the wiping process would stop. By default, 10 will be selected.

## Erasure Settings

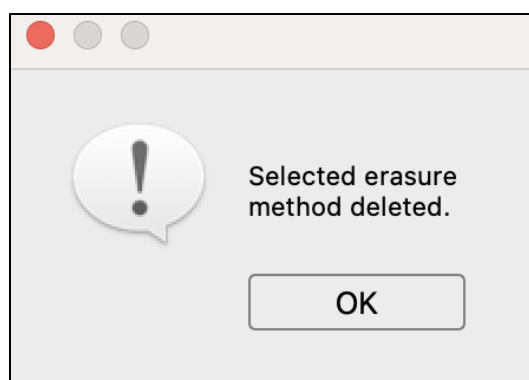
This option allows you to edit the default erasure settings:

- **Default erasure method:** Select the default erasure method from the drop-down. By default, the **NIST 800-88 Clear** erasure method will be selected.
- **Default verification:** Select the default verification method from the drop-down. By default, the **Total Verification** will be selected

## Delete Custom Erasure Methods

You can also delete the custom erasure method, which you added. To delete the custom method erasure method, follow the below steps:

- a) In the **Delete Custom Erasure Method** section, select the custom erasure method that you want to delete from the dropdown menu.
- b) Click **Delete** to remove the selected custom erasure method.
- c) **Selected erasure method deleted** message displays on the screen. Click **OK**.

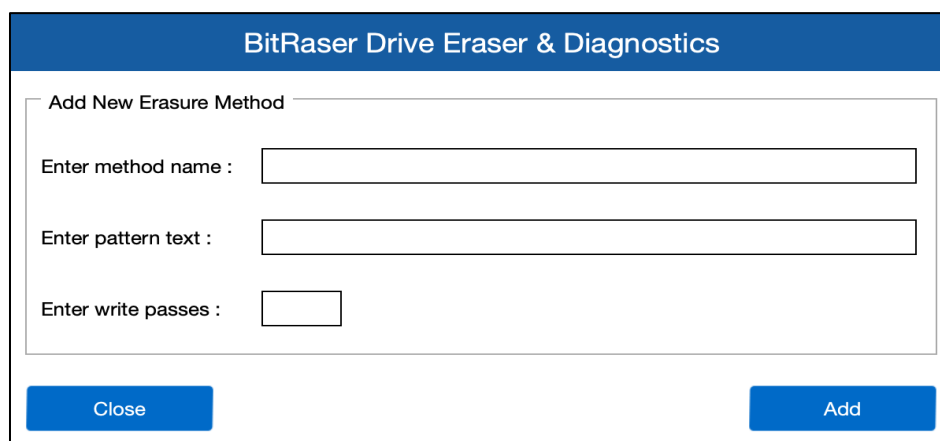


**Note:** You can only add up to 5 custom erasure methods.

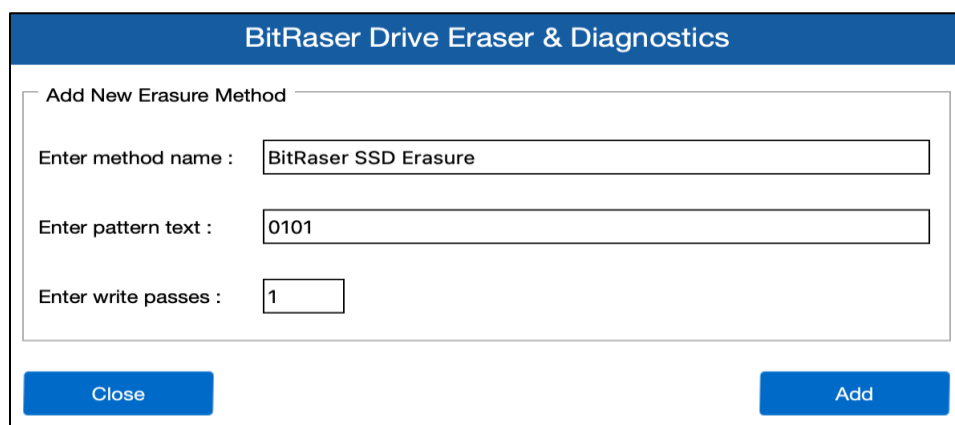
## Custom Erasure Method

This option allows you to create your own erasure method. To create your own erasure method, use the following steps:

- I. Click on the **Custom Erasure Method** button at the bottom of the Erasure tab window.
- II. A dialog box is displayed, as shown below:



- III. In the dialog box, enter the following details:



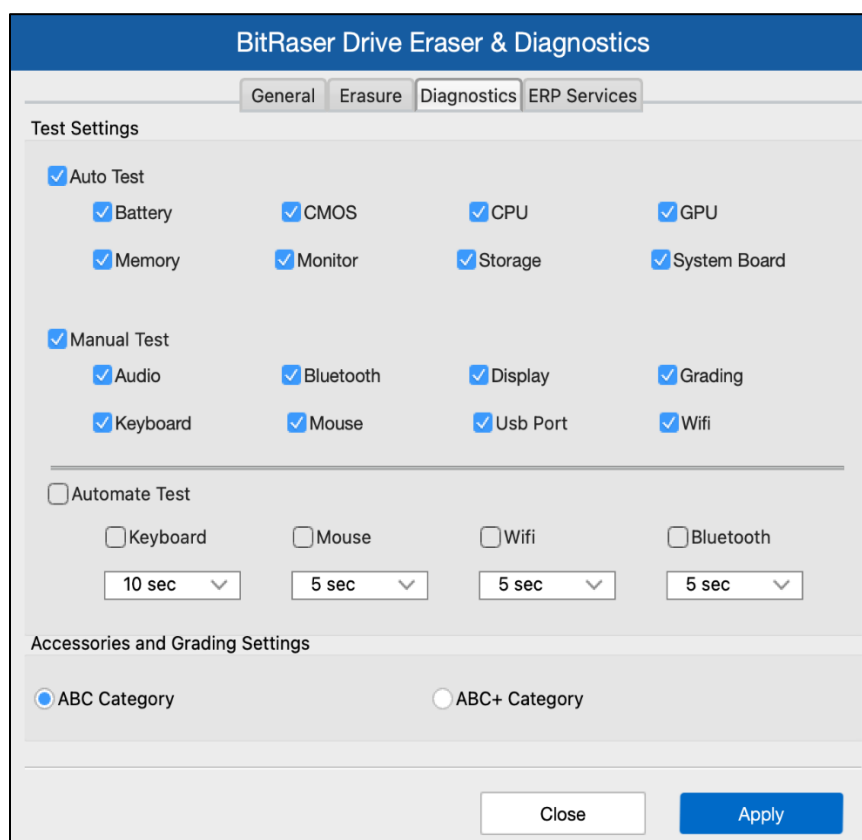
- **Enter method name:** In the 'Enter method name' field, type the name you want to give to your erasure method.
- **Enter Pattern text:** In the 'Enter Pattern text' field, type the pattern or data you want to overwrite on the drive during the wiping process.
- **Enter write passes:** In the 'Enter write passes' field, select the number of passes from one to nine, in which you want your erasure to be completed.

IV. Click on the **Add** button to add the new erasure method.

## 4.5.3. DIAGNOSTICS

**BitRaser Drive Eraser & Diagnostics** allows you to configure the test settings, such as auto test and manual test, automate the test after a specific time, and have the option to configure accessories and grading. The Diagnostic tab window is divided into two sections, as given below:

- [Test Settings](#)
- [Accessories and Grading Settings](#)



The screenshot shows the 'BitRaser Drive Eraser & Diagnostics' window with the 'Diagnostics' tab selected. The window has four tabs: 'General', 'Erasure', 'Diagnostics', and 'ERP Services'. The 'Test Settings' section includes checkboxes for 'Auto Test' and 'Manual Test'. Under 'Auto Test', there are checkboxes for Battery, CMOS, CPU, GPU, Memory, Monitor, Storage, and System Board. Under 'Manual Test', there are checkboxes for Audio, Bluetooth, Display, Grading, Keyboard, Mouse, Usb Port, and Wifi. Below these, there is an 'Automate Test' checkbox and four dropdown menus for Keyboard (10 sec), Mouse (5 sec), Wifi (5 sec), and Bluetooth (5 sec). The 'Accessories and Grading Settings' section has two radio buttons: 'ABC Category' (selected) and 'ABC+ Category'. At the bottom, there are 'Close' and 'Apply' buttons.

### Test Settings

This section contains different diagnostics options to configure, which are given below:

- **Auto Test and Manual Test:** Use this option to perform auto and manual tests on the components that you have selected. To perform the auto and manual tests, select the auto and manual test components checkboxes from the **Test Settings** section. You can select the component's corresponding checkboxes separately or together based on your requirements. All the checkboxes, including auto test, manual test and their components, will be selected by default. You can uncheck the components that you don't want to include in the diagnostics process.

**Note:** To select all component checkboxes, check the "**Auto Test**" or "**Manual Test**" checkbox separately or together. This will automatically select all checkboxes under the "**Auto Test**" and "**Manual Test**".

- **Automate Test:** This feature allows you to automate tests within a specified time frame. The test will pass if the component is tested within the selected time; otherwise, it will fail. To enable automated testing, check the "**Automate Test**" checkbox. Make sure that automated testing is only available for the components listed below:
  - **Keyboard:** In the "**Test Settings**" section, select the appropriate checkbox for the keyboard and choose the desired time from the dropdown menu. By default, the time is set to 10 seconds.
  - **Mouse:** In the "**Test Settings**" section, select the appropriate checkbox for the mouse and choose the desired time from the dropdown. By default, the time is set to 5 seconds.
  - **Wifi:** In the "**Test Settings**" section, select the appropriate checkbox for Wi-Fi and choose the desired time from the dropdown. By default, the time is set to 5 seconds.
  - **Bluetooth:** In the "**Test Settings**" section, select the appropriate checkbox for Bluetooth and choose the desired time from the dropdown. By default, the time is set to 5 seconds.

## Accessories and Grading Settings

This feature allows you to configure accessories and grading settings. You can select accessories and grading categories from the **Accessories and Grading Settings** section. There are two types of categories available for accessories and grading, which are given below:

- **ABC Category:** To select the ABC Category, select the **ABC Category** radio button in the **Accessories and Grading Settings** section. It will be selected by default.
- **ABC+ Category:** To select the **ABC+ Category**, select the **ABC+ Category** radio button in the **Accessories and Grading Settings** section.

After making all the changes, click **Apply** to save them.

## 4.5.4. ERP SERVICES

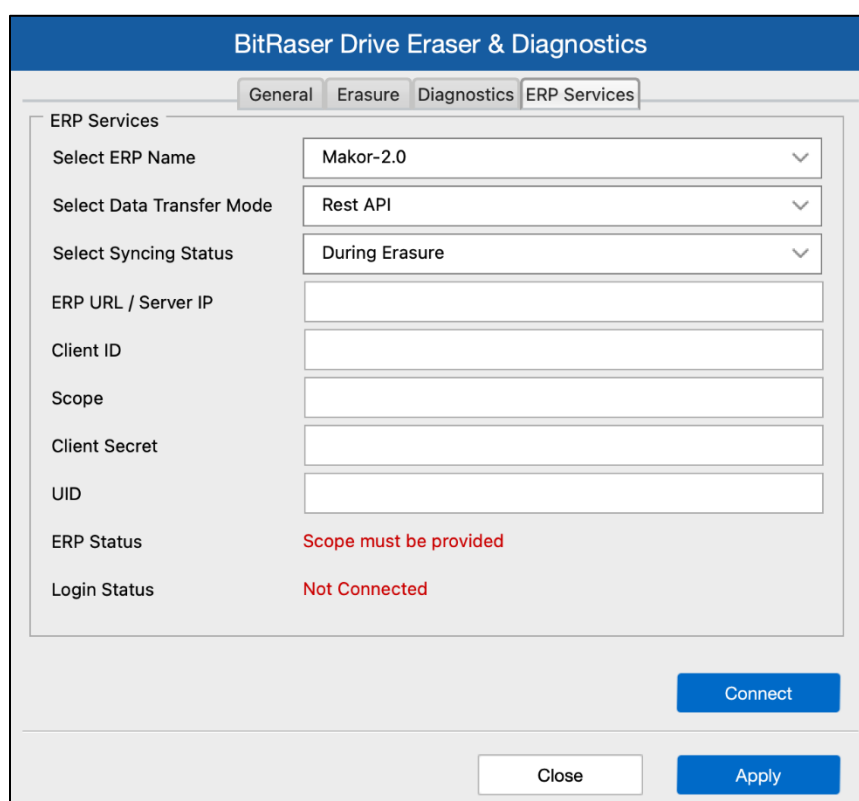
ERP (Enterprise Resource Planning) refers to integrated software systems that help organizations manage and automate key business functions, including finance, HR, manufacturing, supply chain, procurement, inventory, and CRM. By centralizing data, ERP systems provide real-time access to information across departments, improving efficiency and decision-making.

ERP systems integrate business functions, automate tasks like payroll and inventory, and provide data analytics for better decision-making. They are customizable to business needs and scalable for growing with the company.

**BitRaser Drive Eraser & Diagnostics** supports integration with **Makor-2.0** and **RazorERP**. Fill in the required details to connect and import the reports to your preferred server.

**Note:** This feature, 'ERP Services' is applicable for the Erasure process only.

### Makor 2.0



The screenshot shows the 'ERP Services' tab in the BitRaser Drive Eraser & Diagnostics application. The window has a blue header with the title 'BitRaser Drive Eraser & Diagnostics'. Below the header are four tabs: 'General', 'Erasure', 'Diagnostics', and 'ERP Services'. The 'ERP Services' tab is active. It contains a form with the following fields and labels:

- ERP Services** (Section Header)
- Select ERP Name**: A dropdown menu with 'Makor-2.0' selected.
- Select Data Transfer Mode**: A dropdown menu with 'Rest API' selected.
- Select Syncing Status**: A dropdown menu with 'During Erasure' selected.
- ERP URL / Server IP**: A text input field.
- Client ID**: A text input field.
- Scope**: A text input field.
- Client Secret**: A text input field.
- UID**: A text input field.
- ERP Status**: A label with the text 'Scope must be provided' in red.
- Login Status**: A label with the text 'Not Connected' in red.

At the bottom right of the form is a blue 'Connect' button. Below the form, there are two buttons: a white 'Close' button and a blue 'Apply' button.

### RazorERP

BitRaser Drive Eraser & Diagnostics

General

Erase

Diagnostics

ERP Services

ERP Services

Select ERP Name

RazorERP

Select Data Transfer Mode

FTP Server

Select Syncing Status

After completion of Erasure

ERP URL / Server IP

ftp01.razorerp.com

Company ID

User Name

Password

Password

UID

Close

Apply



## 5. FREQUENTLY ASKED QUESTIONS (FAQ)

---

### 1. What are Data Erasure and Hardware Diagnostics?

**Data erasure:** Data erasure is the process of permanently erasing the data from a storage media device. In its simplest form, a data-wiping algorithm overwrites the storage device with zeros, but more advanced algorithms use a combination of filling up a drive with random information plus multiple passes to ensure the impossibility of retrieving the data from an erased drive.

**Hardware Diagnostics:** It is the process of checking the health and functionality of the components of a PC. A scan is run on each component to check whether it is working properly or not. Then, a diagnostic report is documented containing information about the errors in the component, its model, vendor, sub-vendor etc. Users can use this tool to identify the issues in their hardware devices and resolve them at the earliest to prevent any future damage.

### 2. Is it possible to customize the erasure and diagnostics report?

Yes, you can customize the erasure and diagnostics report of **BitRaser Drive Eraser & Diagnostics** as per your requirement. To add details such as customer information, test and validator person details etc. and to add custom fields, refer to Configure [Test Details](#). To modify report settings such as logos, watermark and validator person signature, refer to View and Customize Report.

### 3. Does BitRaser Drive Eraser & Diagnostics support other languages?

**BitRaser Drive Eraser & Diagnostics** is currently available in the English language only.

### 4. How do you view the tests running on the component?

**BitRaser Drive Eraser & Diagnostics** performs both automated and manual tests on different hardware components. To view the automated tests, refer to [Auto Test](#). To view manual tests, refer to [Manual Test](#).

### 5. Can I perform a manual test while auto-tests are running?

Yes, you can perform manual tests while the automated tests are running in the background. This helps save time and increases efficiency.

### 6. Can I configure the Erasure and Diagnostics settings?

Yes, you can configure the Erasure and Diagnostics settings from the settings option. To know more, refer to [Erasure](#) and [Diagnostics](#).

### 7. Can I perform the Erasing process with the diagnosis process?

Yes, you can perform both erasing and diagnosing processes simultaneously. Moreover, you can also perform the erasure and diagnostics process separately by configuring the General tab. To know more, refer to [General](#).

### 8. Does BitRaser Drive Eraser & Diagnostics support the integration of ERP services?

Yes, **BitRaser Drive Eraser & Diagnostics** supports integration with **Makor-2.0** and **RazorERP** ERP services. To know more, refer to [ERP Services](#).

**9. Can I send the report to the BitRaser Cloud server directly?**

Yes, you can send the erasure and diagnostics report directly to the BitRaser cloud server. To know more, refer to the [Export Erasure Report](#) and [Export Diagnostics Report](#).

**10. Can I configure erasure and diagnostics details?**

Yes, you can configure erasure and diagnostics details. To know more, refer to [Configure erasure and diagnostics details](#).

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