



"Technology on the move!"



Kanguru Defender Basic Rev.2

User Manual

NOTICES AND INFORMATION

Please be aware of the following points before using your Kanguru Defender Basic

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Defragmenting Flash Memory Warning

Do not attempt to defragment your Kanguru Defender Basic flash drive. Flash memory does not need to be defragmented and does not gain any performance by doing so. Defragmenting your flash drive can actually degrade the flash memory which may reduce the drive's total capacity and lifespan.

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1. Introduction

The Kanguru Defender Basic is a hardware encrypted, tamper proof USB flash drive. The Defender Basic contains two partitions: a CD-ROM partition and a secure, encrypted partition. The CD-ROM partition contains the login application that will allow you to access the secured partition.

The Kanguru Defender Basic flash drive secures your sensitive data using:

- 256-bit AES hardware encryption
- Secure password protection

Package Contents

Please check the contents of the package you received. If any of the parts listed below are missing, please contact Kanguru Solutions (508-376-4245) and you will be shipped replacement parts immediately.

- Kanguru Defender Basic USB Flash Drive
- Quick Start Guide
- Registration Form
- Lanyard - **Caution!** The through-hole at the bottom of the drive is designed for use with the provided lanyard only.

Features

- ✓ 256-bit AES hardware encryption
- ✓ FIPS 197 Validated
- ✓ Password protected data partition for your secure files
- ✓ Does NOT require Admin privileges
- ✓ Driverless installation (Plug & Play)
- ✓ High-strength aluminum housing
- ✓ Write protect switch
- ✓ On-board antivirus protection
- ✓ Custom security colors available (Red, Green, Yellow, Blue, Tan, Gray)
- ✓ HIPAA Compliant
- ✓ Sarbanes Oxley Compliant
- ✓ GLB Compliant

System Requirements

- 1 Available USB port (USB 2.0 Recommended)
- 256MB of internal DDR RAM or more
- 500MHz internal CPU or faster
- Operating Systems (32 and 64 bit compatible):
 - Windows 2000 SP 4, Windows XP SP 3, Windows Server 2003, Windows Vista, Windows 7
 - Mac OS X 10.5 and above (compatible with Intel-based Macs only)

1.1 Technical Specifications

The Kanguru Defender Basic comes in two models, depending on your drive's capacity. Technical specifications are different depending on your model.

1GB - 16GB Model



32GB - 128GB Model



General Specifications

Interface	USB 2.0 (USB 1.1 compatible)
Encryption Features	Hardware based 256-bit AES encryption
OS Compatibility	Windows 2000 SP4, XP SP3, Server 2003, Vista, 7 Max OS X 10.5 and above (Intel based only) 32 and 64 bit compatible
Write Cycles	10,000 write cycles / block
Data Retention	10 years or more
Operating Temp	0°C – 70°C
Humidity Range	20% - 90%
Shock Resistance	1000G Max
Vibration	15G Peak to Peak Max

1GB - 16GB Defender Specifications

Data Transfer Rate	Read: 20 - 33 MB/s Write: 10 - 13 MB/s
Weight	10g
Dimensions	64mm x 18.5mm x 9mm
Power (Read)	Max Read: 5 VDC @ 122mA
Power (Write)	Max Write: 5 VDC @ 182mA

32GB - 64GB Defender Specifications

Data Transfer Rate	Read: 31 MB/s Write: 10 MB/s
Weight	15g
Dimensions	71mm x 27mm x 9mm
Power (Read)	Max Read: 5 VDC @ 150mA
Power (Write)	Max Write: 5 VDC @ 266mA

2. Kanguru Defender Manager Basic

Kanguru Defender Manager Basic (referred to throughout this manual as KDMBasic) is the client software preloaded on the Defender's CD-ROM partition. The user needs to login to KDMBasic in order to access the secure, encrypted partition. KDMBasic comes pre-installed on your Defender. No installation on your PC is necessary.

2.1 Running KDMBasic

The Kanguru Defender Basic is compatible with multiple operating systems. Running the KDMBasic application can be different depending on the OS your computer is running.

2.1.1 Windows Users

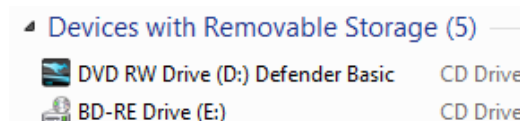
To run KDMBasic, simply connect your DefenderBasic to your computer through a USB port. When you connect your Defender Basic, a CD-ROM partition and a removable disk partition should appear under My Computer. If you are running Windows 7 and do not see the removable disk, please refer to page 7 in this manual.

The KDMBasic application should start automatically.



If KDMBasic does not start automatically:

1. Open **My Computer** and open the Defender Basic's CD-ROM partition. The drive letter (e.g. D:, E:, F:) will depend on your computer.



2. Double-click on the **KDMBasic.exe** file to run the application.

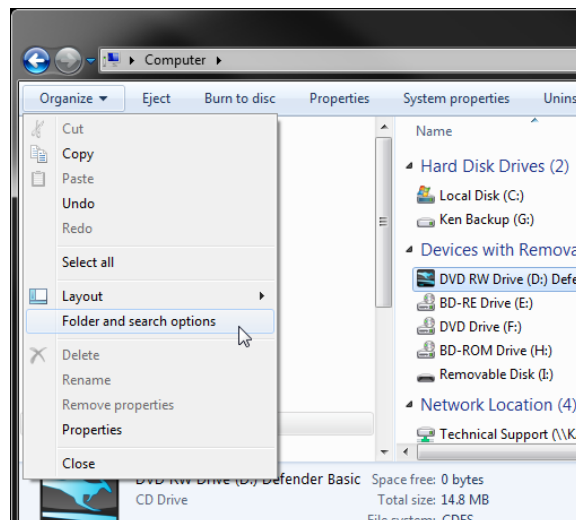
Caution! The **KDMBasic.exe** file needs to remain on your Defender Basic's CD-ROM partition at all times. Always run the application from the CD-ROM partition. Do not try to copy or run KDMBasic from your computer's local hard drive.

Attention Windows 7 Users

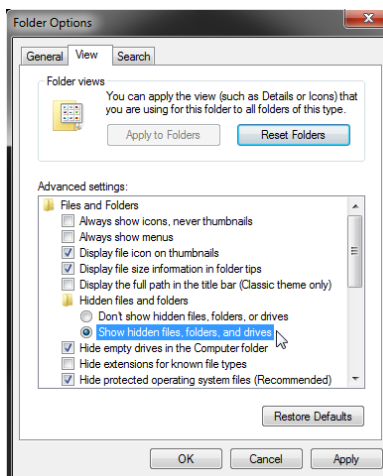
Windows 7 users may not see the removable disk partition until they have logged into KDMBasic (see section 2.3 Logging into KDMBasic on page 14 for more information). This is normal.

If you are using the Defender Basic with the Windows 7 operating system and for any reason need to see the removable disk before you log into KDMBasic, you will need to configure Window's Folder and Search Options. **Note:** This is user preference only. There is no need to configure Windows in order to use your Defender.

1. From My Computer, click on the **Organize** menu and then select **Folder and search options**.



2. The Folder Options window appears. Click on the **View** tab and then scroll down to the option for Hidden Files and Folders. Select **Show hidden files, folders, and drives**.



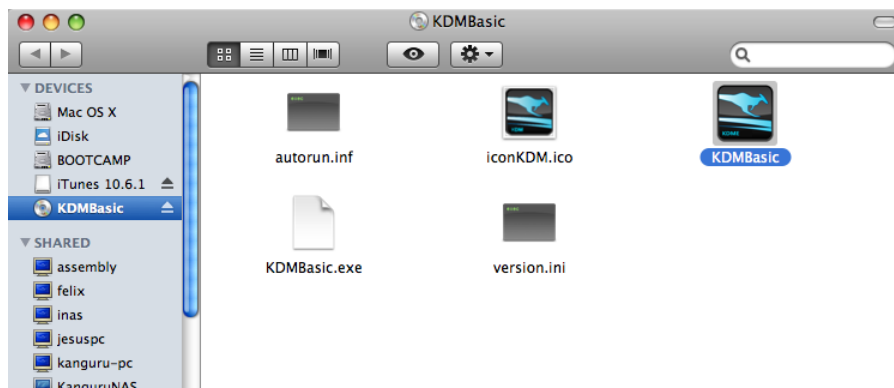
3. Click on the **OK** button to finish configuring Windows. The removable disk is now visible before you log into KDMBasic.

2.1.2 Mac Users

To run KDMBasic from Mac OS X, connect your Defender Basic to your computer through a USB port. A CD icon 'KDMBasic' will appear on the desktop. Double click on the KDMBasic icon to open it.



In the window that opens, double-click on the KDMBasic.app file to launch the KDMBasic application.

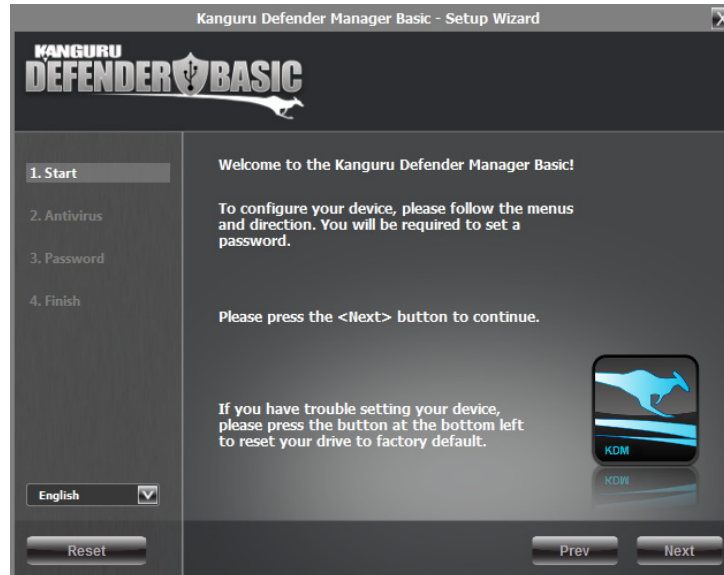


Caution! The KDMBasic.app file needs to remain on your Defender Basic's CD-ROM partition at all times. Always run the application from the Defender Basic's CD-ROM partition. Do not try to copy KDMBasic or run KDMBasic from your computer's hard drive.

Note: The KDMBasic icon is not always displayed on the desktop. If you do not see the KDMBasic icon on your desktop, you can locate the KDMBasic.app file on the CD-Rom partition through the Finder window.

2.2 The Setup Wizard

When you start KDMBasic for the first time you will be greeted by the Setup Wizard. Follow the Setup Wizard instructions to create a login password for KDMBasic.



Note: Before you can set a KDMBasic password, the manual write protect switch must be set to the unlock position (towards the USB connector).



2.2.1 Selecting a Setup Language

The default language for the Setup Wizard is English. To run the Setup Wizard in a different language:

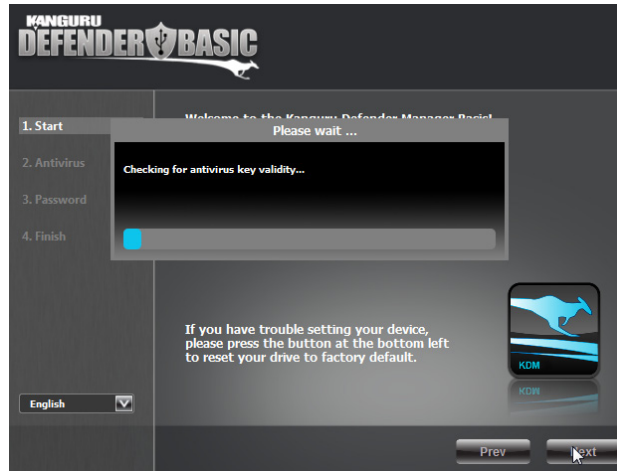
1. From the Welcome screen, click on the Language selection menu. A list of available languages will appear in a drop down menu. Select your desired language from the drop down menu. The Setup Wizard will switch to the new language.



2. Click on the **Next** button to continue to the next step.

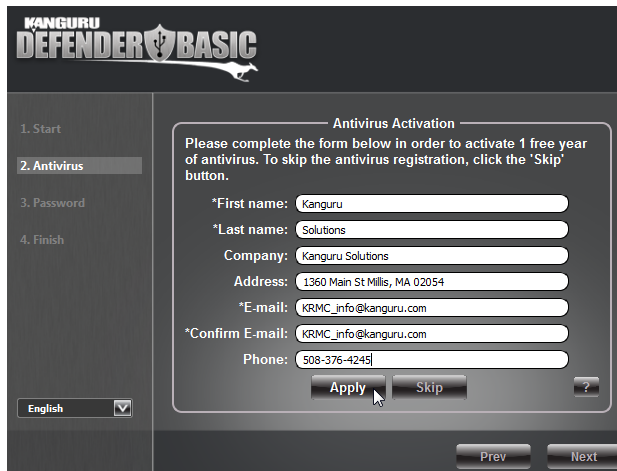
2.2.2 Activating On-board Antivirus Protection (Windows only)

KDMBasic will automatically check if your device has a valid antivirus license key. The drive will need to be connected to a computer with internet access in order to register for on-board antivirus protection.



If your Defender does not already have a valid antivirus license key, then you must fill out the following registration form with the required information and then click on the **Apply** button in order to activate your one (1) year of free antivirus protection.

Click on the **Skip** button if you do not wish to activate antivirus protection. **IMPORTANT!** If you decide to skip activating your antivirus now, you will not be able to activate it in the future without first resetting your drive to the factory default setting.



The screenshot shows the 'KANGURU DEFENDER BASIC' interface with the 'Antivirus Activation' form. The sidebar on the left shows steps: 1. Start, 2. Antivirus, 3. Password, and 4. Finish. The main area has a title 'Antivirus Activation' and instructions: 'Please complete the form below in order to activate 1 free year of antivirus. To skip the antivirus registration, click the 'Skip' button.' The form contains the following fields:

- *First name: Kanguru
- *Last name: Solutions
- Company: Kanguru Solutions
- Address: 1360 Main St Mills, MA 02054
- *E-mail: KRMC_info@kanguru.com
- *Confirm E-mail: KRMC_info@kanguru.com
- Phone: 508-376-4245

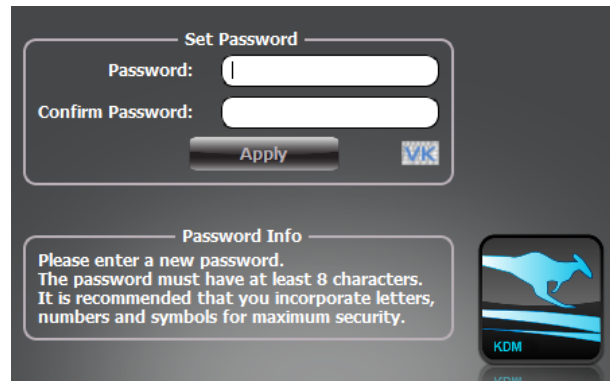
 At the bottom of the form are 'Apply', 'Skip', and '?' buttons. Below the form, there are 'Prev' and 'Next' buttons.

Click on the **Next** button to continue with creating your login password.

2.2.3 Setting a Password

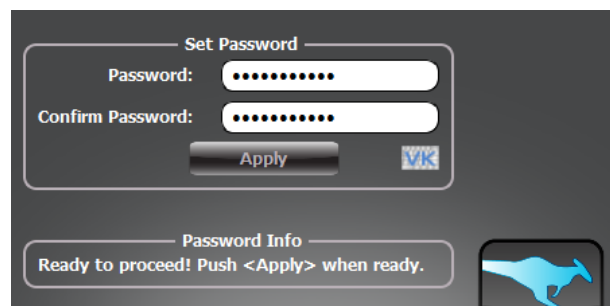
Your password is used to login to your Defender Basic's secure partition after you have completed the Setup Wizard. To create your login password from the Set Password screen:

1. Enter your password in the Password field. For security reasons, it is recommended that you incorporate letters, numbers and symbols to achieve maximum security.

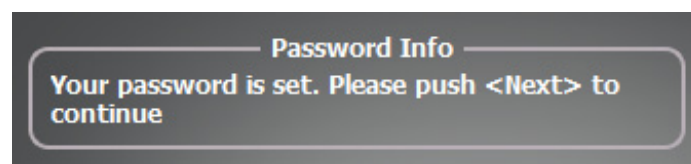


The Password Info window will inform you if there are any password requirements. It updates in real time. Disregard the messages in the Password Info box until you have finished entering your password into both the Password and Confirm Password fields.

2. Enter the same password in the Confirm Password field for verification. If the passwords you entered into both fields match then you will receive a notification in the Password Info box.



3. Click on the **Apply** button to set your password. Once the password has been set you will see the following message in the Password Info box:



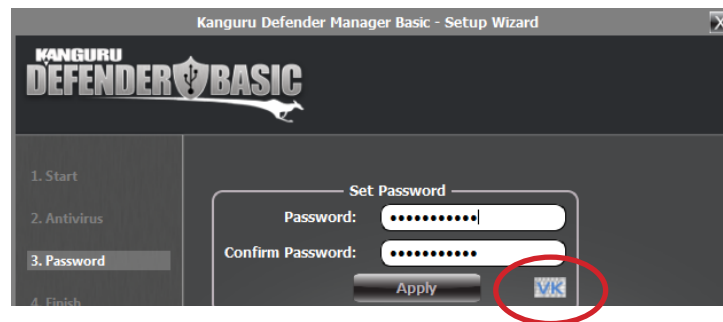
4. Click the **Next** button. KDMBasic will automatically configure the security parameters and complete the setup process.

2.2.4 The Virtual Keyboard

The virtual keyboard feature can be accessed when you are entering your KDMBasic login password (see section 2.2.3 *Setting a Password* on page 11). It can be used when entering your password to prevent keylogging applications from recording your key strokes.

To use the virtual keyboard to enter your password:

1. From the Set Password screen click on **VK** button. It is located near the bottom right of the Confirm Password field.



2. The virtual keyboard will appear below the Setup Wizard window. Click on the keys on the virtual keyboard using your mouse cursor to enter your password.



3. Click on the **VK** button again to close the virtual keyboard.

Note: You can click on the **Shuffle** key on the bottom right corner of the virtual keyboard to randomize the virtual keyboard's layout. Shuffling the keyboard layout prevents mouse tracking software from spying your password.

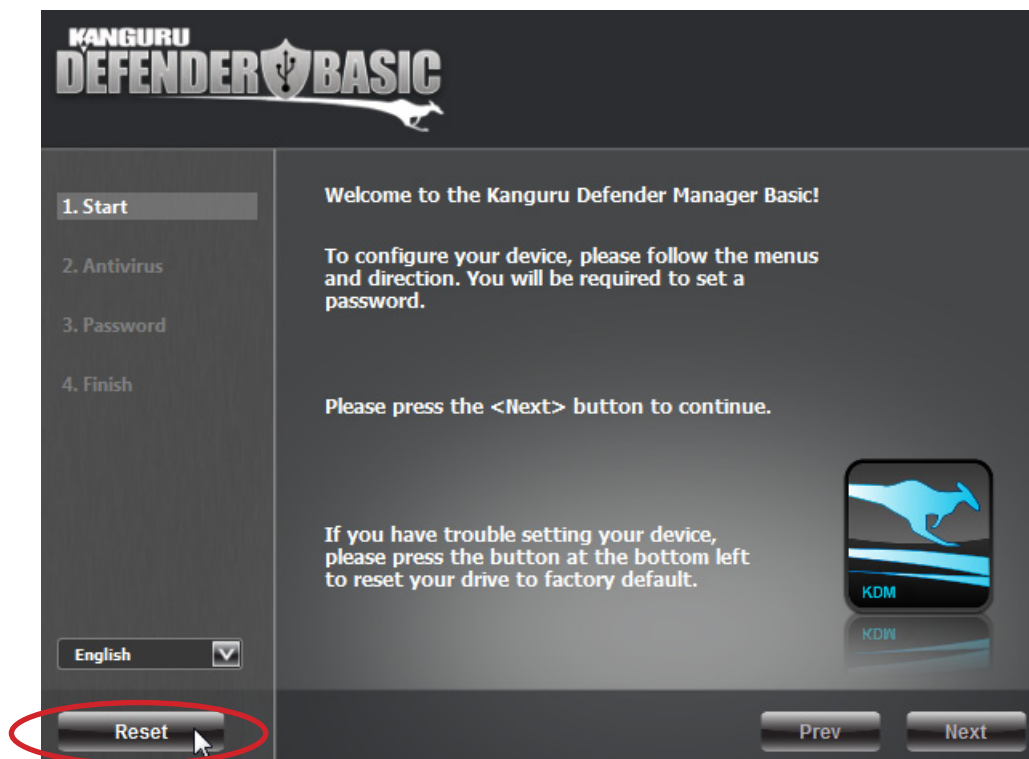
2.2.5 Resetting from the Setup Wizard

If you experience any problems while running the Setup Wizard, you may have to perform a device reset before you can complete the setup process.

Caution! Performing the reset function will format the device's secure encrypted partition. All data stored on the secure partition will be lost.

To perform a device reset from the Setup Wizard:

1. From anywhere in the Setup Wizard, click on the **Prev** button until you return to the Start Screen.
2. On the Welcome Screen you will see a **Reset** button at the bottom of the window. Click on the **Reset** button.

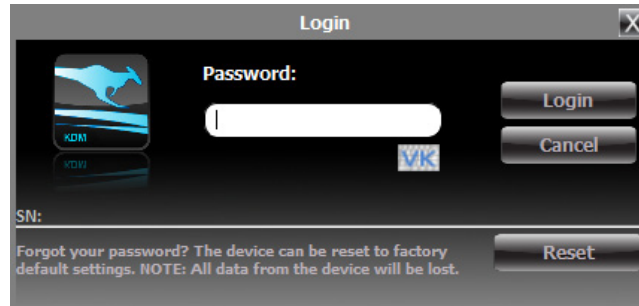


3. A dialog box appears asking you to confirm the reset. Click on **Yes** to reset your device to the factory default settings.

After the device has been reset to the factory default setting the Setup Wizard will run again.

2.3 Logging into KDMBasic

After you have completed the Setup Wizard, anytime you run KDMBasic you will be required to login using your security password. You need to provide the correct security password in order to access the Defender Basic's secure partition.



When the login screen appears:

1. Enter your password in the **Password** field.
2. Click on the **Login** button.

Caution! If you enter your password incorrectly enough times in a row (seven is the default setting but it may be different depending on your setup), for security purposes any data stored on the secure partition will be erased. You will be issued an on screen warning when you have one attempt remaining, to prevent accidental erasure. To cancel the login process, click on the **Cancel** button. Unplugging and then reinserting your drive or manually running KDMBasic again will bring the login window back.

Once you have successfully logged in to KDMBasic, the secure partition will be accessible through My Computer or Windows Explorer. For more information on accessing the secure partition, see section 2.4 *Encrypting Files and Folders* on page 16.

Caution! Once you have logged into KDMBasic, you should never disconnect your device without first closing KDMBasic properly by clicking the taskbar icon and selecting **Unmount Kanguru Defender** as described in section 2.10 *Unmounting Your Defender Basic* on page 25.

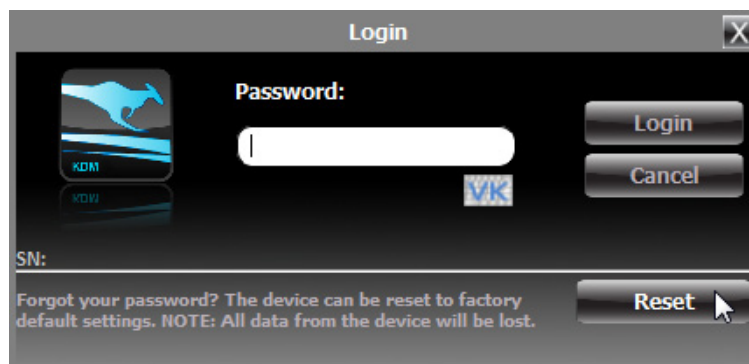
2.3.1 Resetting from the Login Screen

In the event you have forgotten your password, you can use the Reset to Factory Default function to reset your password. This function will restore the device to the factory settings, erasing all saved passwords and data residing on the device's secure partition.

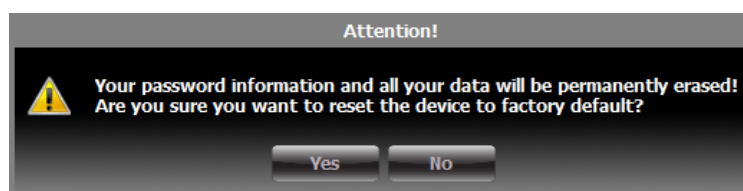
Caution! Using the Reset to Factory Default function will format and wipe all data off the device! All data on the device will be lost!

To reset your Defender Basic to the factory default:

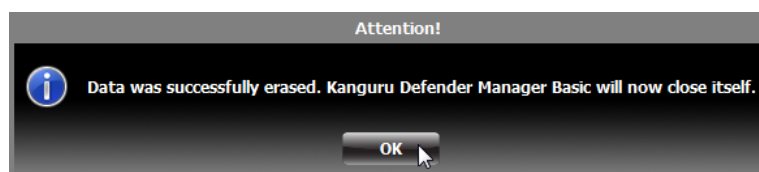
1. Start KDMBasic.
2. When the login screen appears, click on the **Reset** button.



3. When you are prompted to confirm the reset, click on the **Yes** button.



4. When your password and data stored on the secure partition have been erased, the following message will appear. Click on the **OK** button to complete the reset.




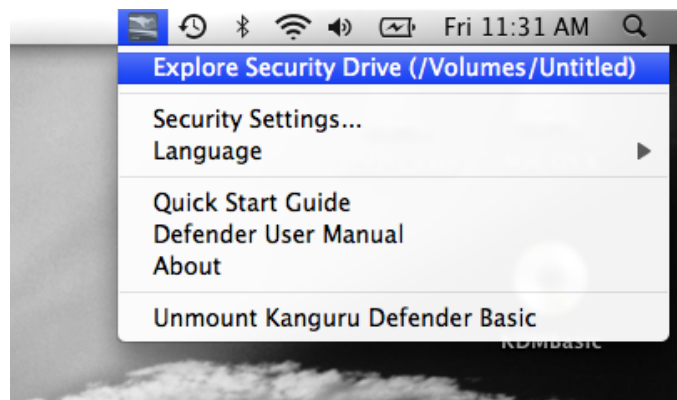
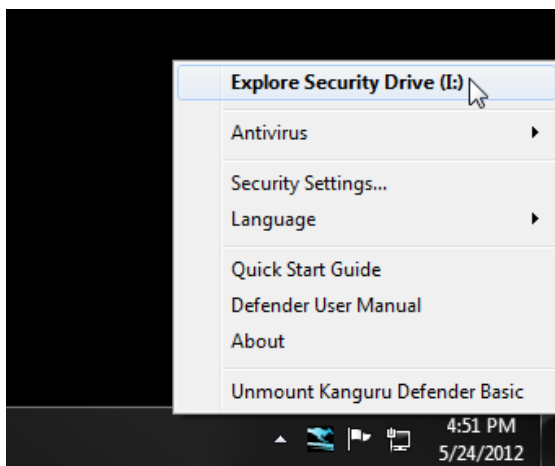
The next time you run KDMBasic, you will have to complete the Setup Wizard again before you are able to access the secure partition. Please see section 2.2 *The Setup Wizard* on page 9 for instructions on completing the Setup Wizard.

2.4 Encrypting Files and Folders

A key feature of the Defender Basic is drag & drop encryption; allowing you to simply drag files that you want to encrypt onto the drive using the standard Windows Explorer interface. The Defender Basic automatically encrypts these files as they are transferred to the secure partition, ensuring that your data is safe and private.

To open the secure partition:

1. Login to KDMBasic to gain access to the secure partition.
2. Click on the KDMBasic icon  located in the taskbar and then select **Explore Security Drive** from the popup menu.



Alternatively, you can access the secure partition through My Computer or through Windows Explorer.

We recommend using either the drag & drop action, right-click copy/paste action, or the shortcut keys (Ctrl+C and Ctrl+V) to copy and paste files and folders directly to and from the secure partition.

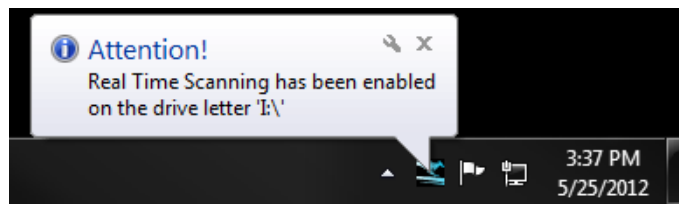
Note: Data saved on the secure partition are only accessible after you have successfully logged into KDMBasic.

2.5 On-board Antivirus (Windows only)

Note: If you didn't activate antivirus during the Setup Wizard, you will have to reset your drive to the factory settings and enable Antivirus before you can use the antivirus functionality.

You must register your device with Kanguru Solutions in order to take advantage of the Defender Basic's on-board antivirus functions (see section 2.2.2 *Activating On-board Antivirus Protection (Windows only) on page 10*).

Once your on-board antivirus has been activated, real-time virus scanning is automatically enabled whenever you log into your device.




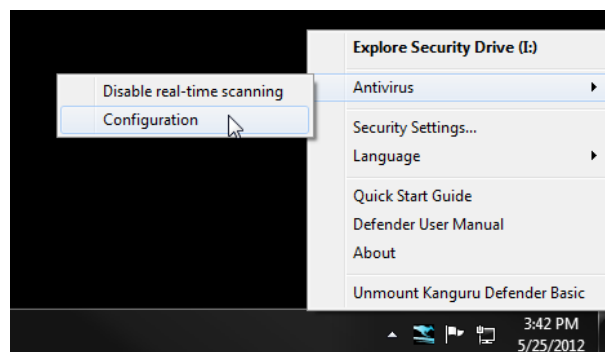
Note: Updates for the latest the virus definitions are downloaded automatically when the device is connected to a computer with internet access. If you disconnect the Defender Basic before the latest update has finished downloading, it will save your place and continue the download the next time it is connected to a computer with internet access.

Virus definitions are stored in the 'System' folder on the secure partition. If these files are deleted, they will be automatically re-downloaded. If the device is reset to the factory default, these files will be deleted and will need to be re-downloaded. **Do not delete the 'System' folder or save any data besides virus definitions to it.**

The Onboard Antivirus console

You can access the on-board antivirus console to scan your device, a path or a file. To open the antivirus console:

1. Click on the KDMBasic icon  located in the taskbar.
2. Select **Antivirus** from the popup menu and then click on **Configuration** from the submenu.



The antivirus console appears.

2.5.1 Device Scan

The antivirus console allows you to scan your Defender for known viruses and malware.

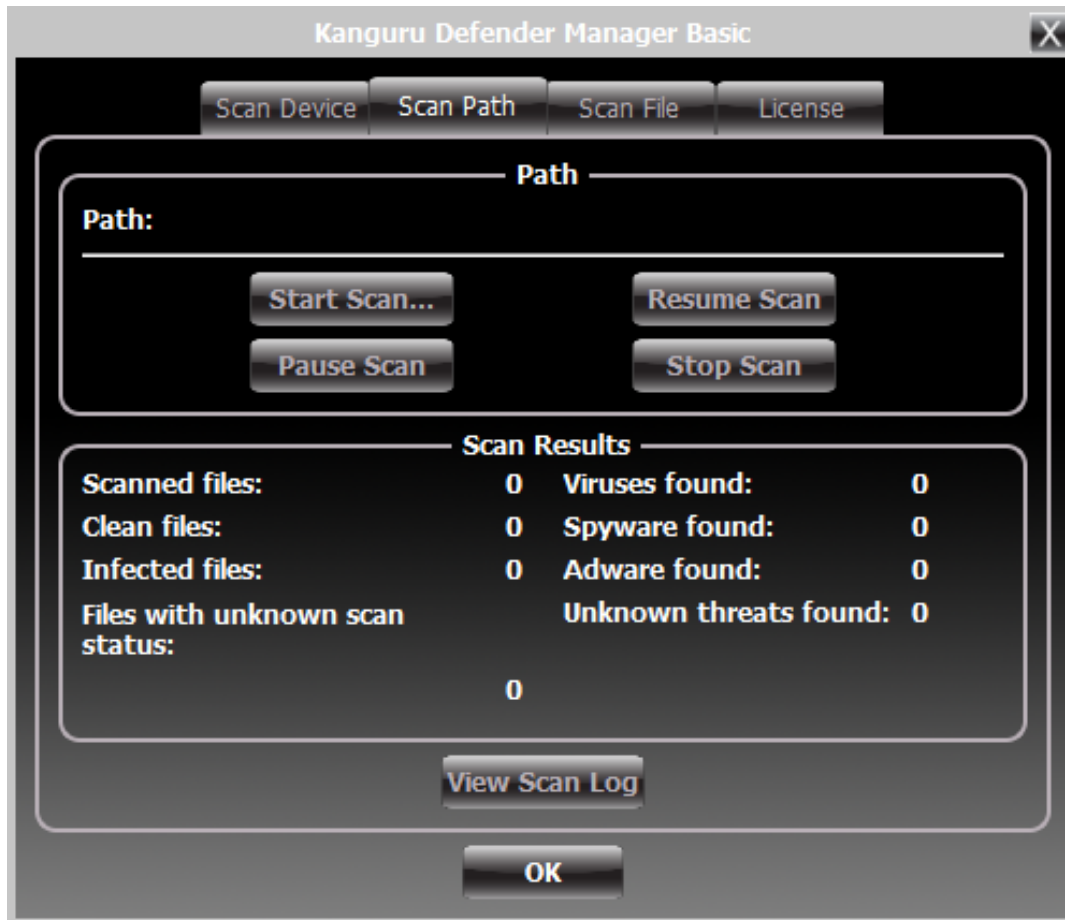


To scan your Defender:

1. Click on the **Scan Device** tab at the top of the antivirus console.
2. Click on the **Start Scan** button to begin scanning your Defender Basic.
3. Once the scan has started:
 - Click on the **Pause Scan** button to pause the scan process. Click on the **Resume Scan** button to resume the scan.
 - Click on the **Stop Scan** button to cancel the scan process.
4. The scan results will appear in the **Scan Results** section.
5. Click on the **View Scan Log** button to view a log of the previous scan.
6. Click on the **OK** button to close the antivirus console.

2.5.2 Path Scan

The antivirus console allows you to scan any path on your computer for known viruses and malware.

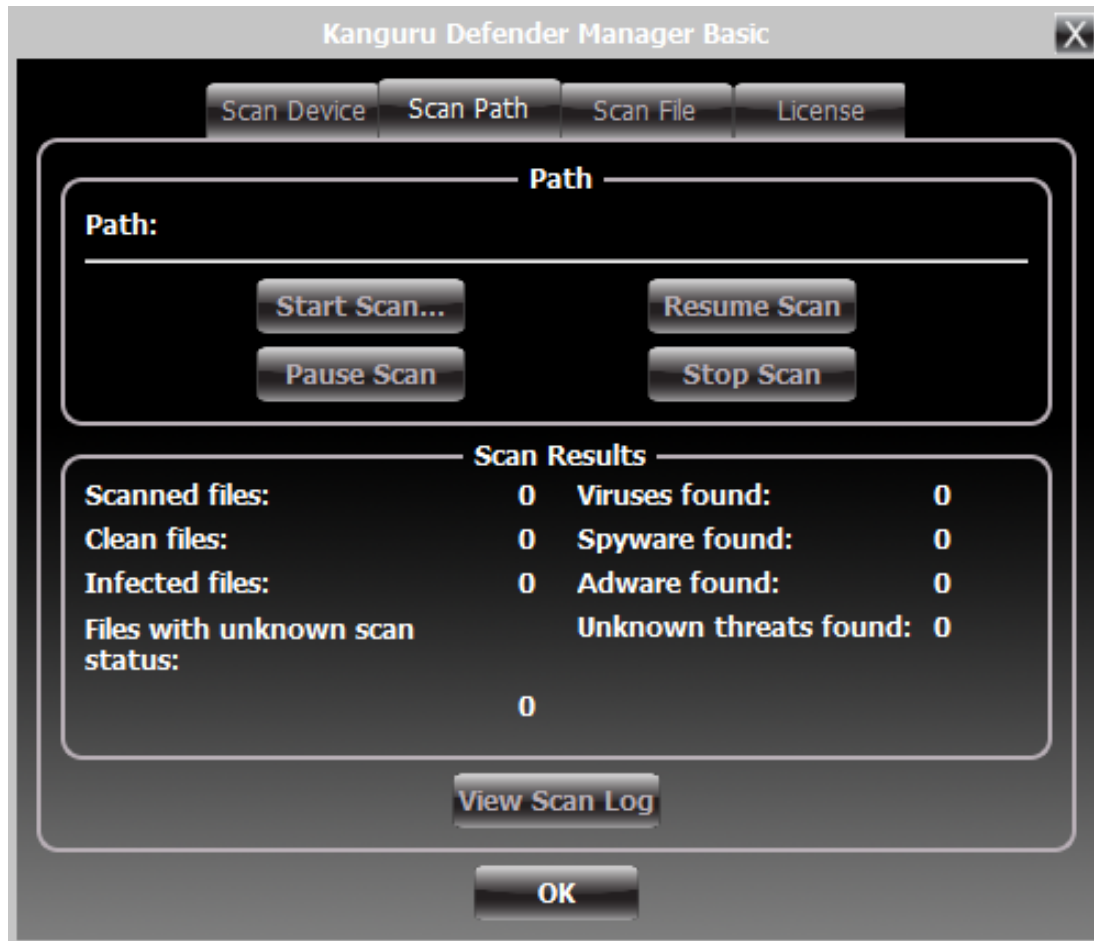


To scan a path on your computer:

1. Click on the **Scan Path** tab at the top of the antivirus console.
2. Click on the **Start Scan** button and then select a path on your computer to begin scanning.
3. Once the scan has started:
 - Click on the **Pause Scan** button to pause the scan process. Click on the **Resume Scan** button to resume the scan.
 - Click on the **Stop Scan** button to cancel the scan process.
4. The scan results will appear in the **Scan Results** section.
5. Click on the **View Scan Log** button to view a log of the previous scan.
6. Click on the **OK** button to close the antivirus console.

2.5.3 File Scan

The antivirus console allows you to scan any file on your computer for known viruses and malware.

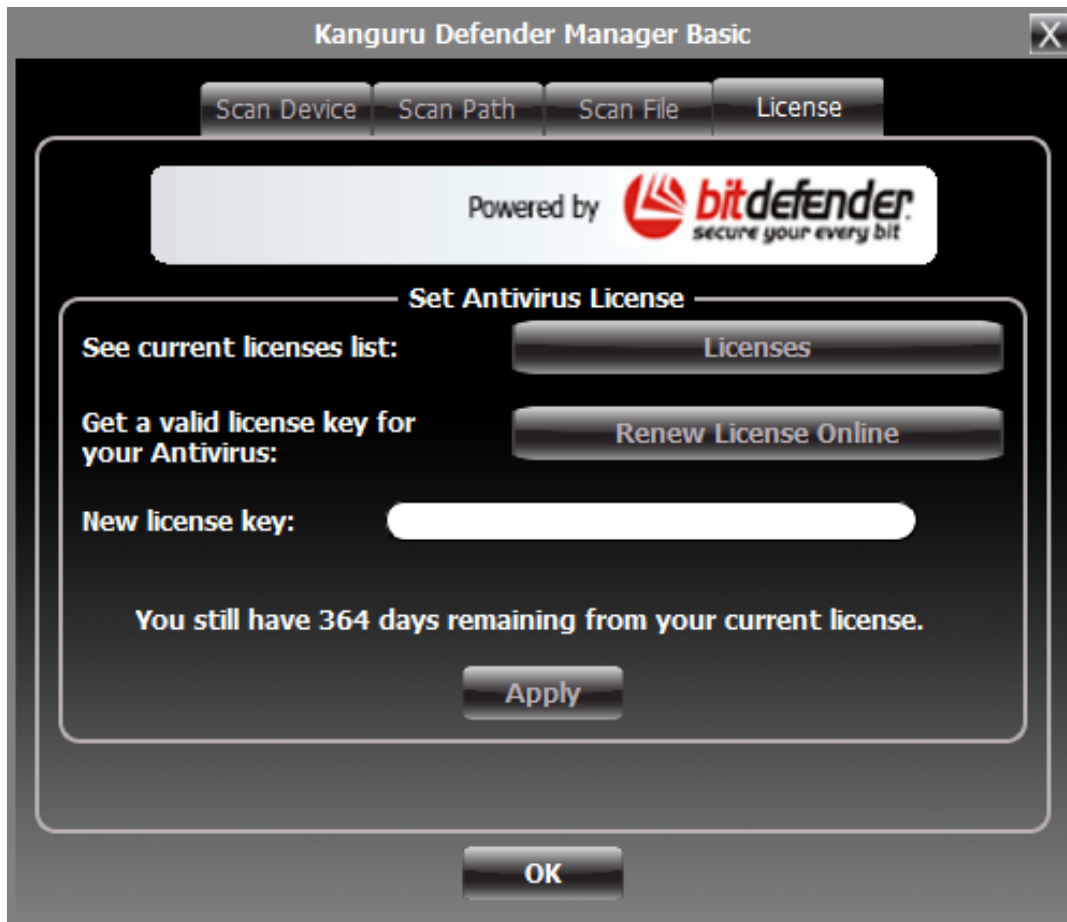


To scan a file:

1. Click on the **Scan File** tab at the top of the antivirus console.
2. Click on the **Start Scan** button and then select a file to begin scanning.
3. Once the scan has started:
 - Click on the **Pause Scan** button to pause the scan process. Click on the **Resume Scan** button to resume the scan.
 - Click on the **Stop Scan** button to cancel the scan process.
4. The scan results will appear in the **Scan Results** section.
5. Click on the **View Scan Log** button to view a log of the previous scan.
6. Click on the **OK** button to close the antivirus console.

2.5.4 License

The antivirus console allows you to manage your antivirus license.



To check your antivirus license:

1. Click on the **License** tab at the top of the antivirus console.
2. Click on the **Licenses** button to see your current antivirus license key.


If you need to renew your license key:

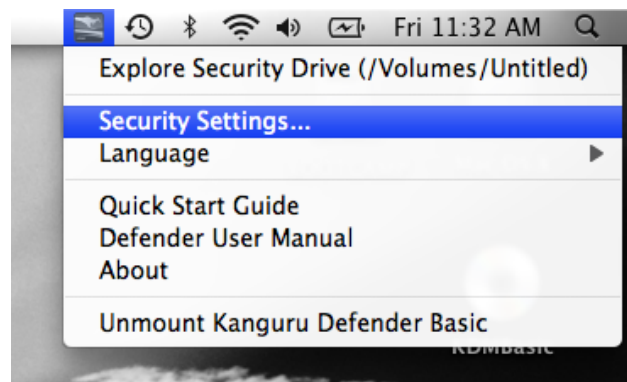
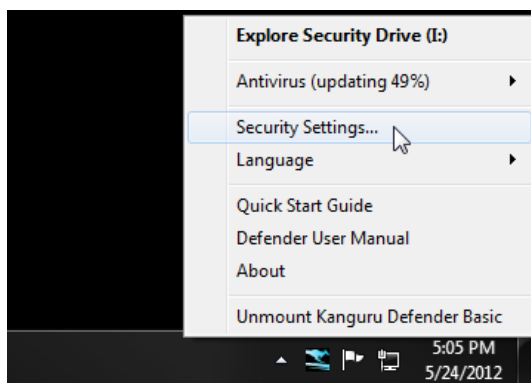
1. Click on the **Renew Licenses Online** button to obtain a valid license key for your antivirus.
2. Enter your license key in the **New License Key** field.
3. Check off the option for **Enable real time scanning** to enable realtime scanning of your Defender .
4. Click on the **Apply** button to apply your license key.
5. Click on the **OK** button to close the antivirus console.

2.6 Changing Your Password

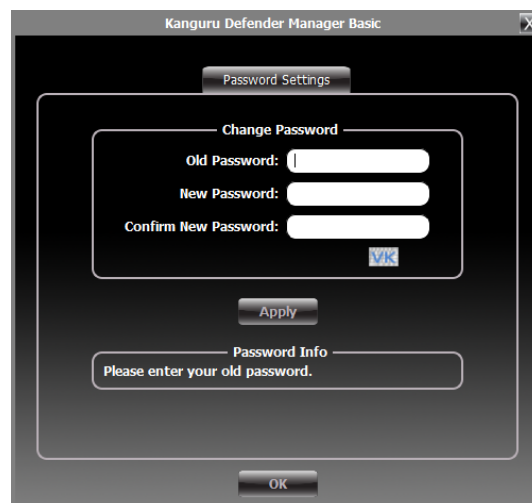
You can change your security password through the Security Settings.

To change your password:

1. Login to KDMBasic to gain access to the secure partition.
2. Click on the KDMBasic icon  located in the taskbar and then select **Security Settings...** from the popup menu.



3. The Password Settings window opens. Enter your current password in the **Old Password** field. Enter your new password in the **New Password** field and then enter it again in the **Confirm New Password** field.




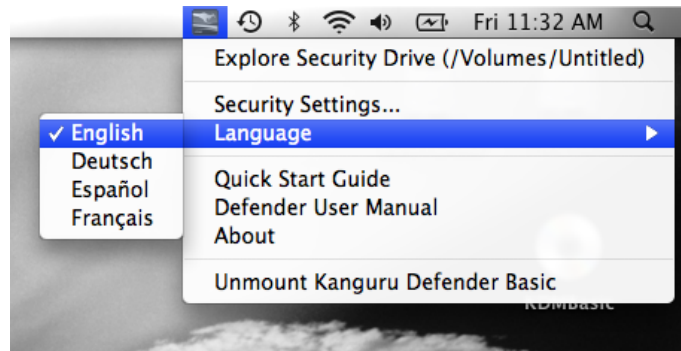
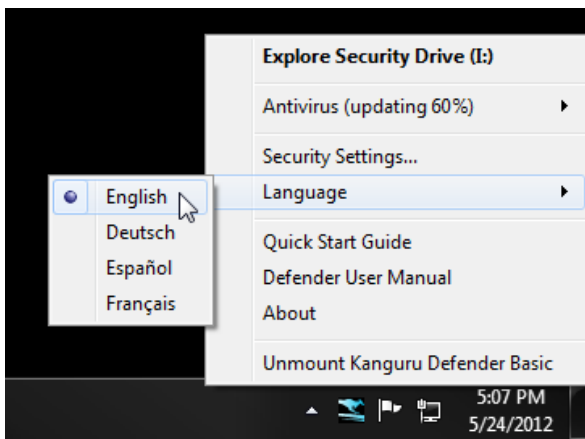
4. When you are ready to proceed, click on the **Apply** button to set your new password.
5. Once your new password has been set, a confirmation window appears informing you that your password has been successfully changed. Click on the **OK** button to set your new password.

2.7 Changing Languages

KDMBasic supports several languages. The KDMBasic language is set to English by default.

To change the language:

1. Login to KDMBasic to gain access to the secure partition.
2. Click on the KDMBasic icon  located in the taskbar and then hover your cursor over the **Language** option in the popup menu. A list of available languages appears.




3. Click on the desired language from the submenu that you want KDMBasic to be displayed in.

2.8 Online Documentation


You can download digital copies of the Kanguru Defender Basic's documentation from the internet.

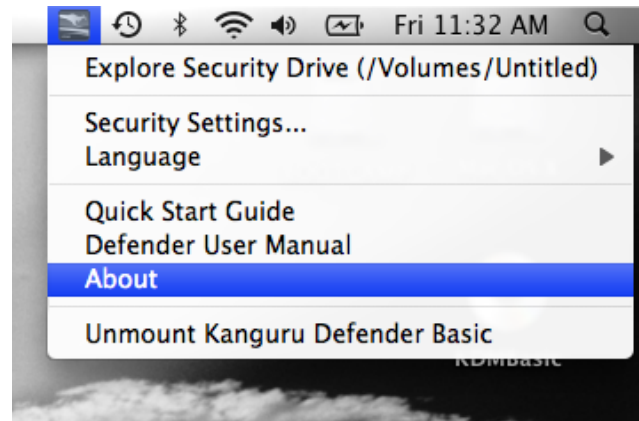
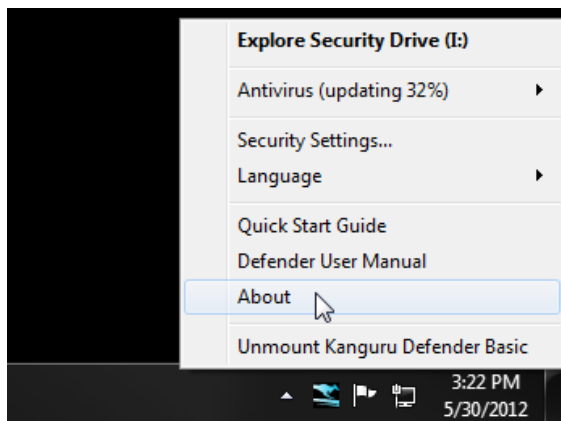
To download your Defender's documentation:

1. Login to KDMBasic to gain access to the secure partition.
2. Click on the KDMBasic icon  located in the taskbar:
 - Click on **Quick Start Guide** to download a digital copy of the Defender's Quick Start Guide.
 - Click on **Defender User Manual** to download a digital copy of the Defender's User Manual

2.9 About KDMBasic

To view information regarding the version of KDMBasic currently installed on your device:

1. Login to KDMBasic to gain access to the secure partition.
2. Click on the KDMBasic icon  located in the taskbar and then select **About**.



A window appears showing the version of KDMBasic currently running. This information is particularly useful when calling in for technical support.

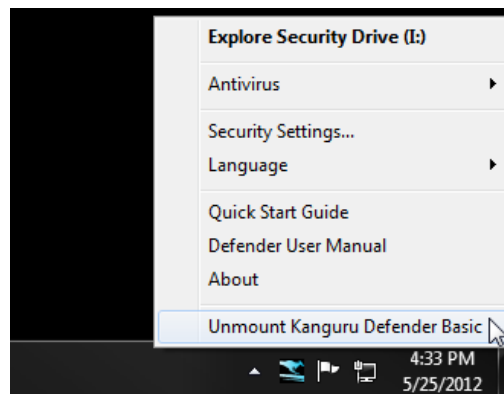
2.10 Unmounting Your Defender Basic

When you unmount the Defender Basic, the KDMBasic application will close and the secure partition containing your encrypted data will be inaccessible until you log into KDM again.

Caution! Do not disconnect the Defender Basic without first properly unmounting your device as detailed in this section and then safely removing the device from your computer. Doing so may result in file damage or data corruption.

2.10.1 Safely Removing from Windows

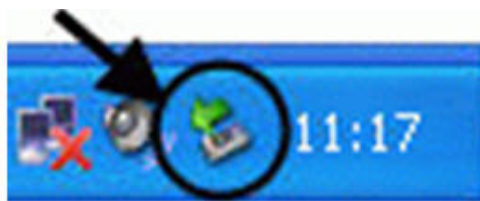
To unmount your Defender Basic, click on the KDMBasic icon  located in the taskbar and then select **Unmount Kanguru Defender Basic**.



The KDMBasic icon in the taskbar will disappear and the secure partition will no longer be accessible from My Computer or Windows Explorer.

After the Defender Basic has been unmounted, use the Windows ‘Safely Remove Hardware’ function before removing your drive. To safely remove your Defender, click on the Safely Remove Hardware icon located in the taskbar. The icon may look different depending on your version of Windows.

Windows XP / 2000



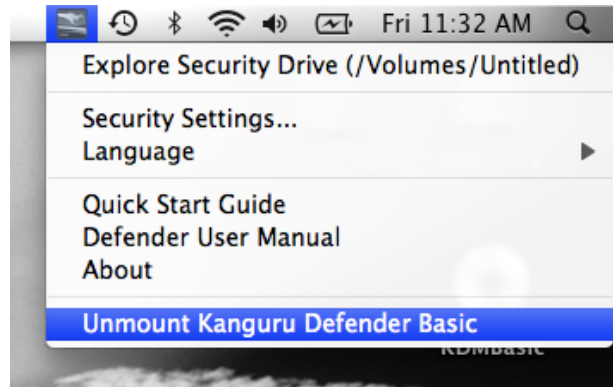
Windows Vista / 7



A popup menu appears listing all USB devices connected to your computer. Select the Defender Basic from the list (it will appear with two drive letters). A message will appear indicating that the portable storage device can be safely removed. If a message saying “The device cannot be stopped right now” appears, please make sure any windows or applications accessing the Defender Basic are closed and then try again.

2.10.2 Safely Removing from Mac OS X

To unmount your Defender Basic, click on the KDMBasic icon  located in the status menu and then select **Unmount Kanguru Defender Basic**.



The KDMBasic icon in the taskbar will disappear and the secure partition will no longer be accessible.

Once the Defender Basic has been unmounted, click and drag the KDMBasic icon from the desktop into the trash can icon. When you start dragging the KDMBasic icon, the trash can icon will change to an eject symbol.

Once the KDMBasic icon disappears from your desktop you can safely disconnect your Defender Basic.

3. Warranty and Technical Support

This product carries a 3-year warranty from the date of purchase. Kanguru Solutions is not responsible for any damages incurred in the shipping process. Any claims for loss or damage must be made to the carrier directly. Claims for shipping errors should be reported to Kanguru Solutions within three (3) working days or receipt of merchandise.

If you experience any problems using your Kanguru Defender Basic or have any technical questions regarding any of our products, please call our technical support department. Our tech support is free and available Monday thru Friday, 9am to 5pm EST.

Call 1-508-376-4245 or
Visit our website at www.Kanguru.com



"Technology on the move!"



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