BVM 4.7 Installation

Minimum Hardware Requirements

<table>
<thead>
<tr>
<th>OS</th>
<th>Processor</th>
<th>Memory</th>
<th>HD Space</th>
<th>Display</th>
<th>DVD-ROM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows Vista® (32-bit)</td>
<td>1.4 GHz Pentium 4 or later processor that supports SSE2</td>
<td>2 GB</td>
<td>500 MB for programs and small data files</td>
<td>1024 x 768</td>
<td>Required for installation</td>
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<tr>
<td>Windows 2008® (32-bit)</td>
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<td>Windows 7® (32-bit)</td>
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<td>Windows 8.1® (32-bit)</td>
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<td>Windows 10® (32-bit)</td>
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<tr>
<td>Windows Vista® (64-bit)</td>
<td>2 GHz x64 processor (all x64 processors support SSE2)</td>
<td>2 GB</td>
<td>500 MB for programs and small data files</td>
<td>1024 x 768</td>
<td>Required for installation</td>
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<tr>
<td>Windows 2008® (64-bit)</td>
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<td>Windows 2012®</td>
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<td>Windows 10® (64-bit)</td>
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</table>

- 500 megabytes minimum hard drive space for application and small data files. More hard drive space is required as more data is stored and additional BVM data files are added.

- Mouse or other pointing device

- Dial modem for operation with one or more BVS units utilizing modem communication over a POTS line.

- Network adapter attached to a TCP/IP network is necessary to use the network communications functions of the software.

- The BVM software can be run in a virtual machine environment. The virtual machine must be provided with sufficient processor resources, memory, and disk resources as listed above.
Software Requirements


Note

- For step-by-step instructions, please refer to the how-to videos provided on this disc in the Videos folder, or on our website at www.btechinc.com.

- For more than ten locations, Microsoft SQL Server should be used as the back-end database for stability and speed. The free version of Microsoft SQL Server named Microsoft SQL Server Express is sufficient for most installations. Microsoft SQL Server Express installations are available on the installation disc in the “SQL Server Setup” folder or can be downloaded from Microsoft.

How-to videos and installation instructions for installing SQL Server Express and the database are available on the installation disc in the “Videos” folder.

The order for the installation when Microsoft SQL Server is being used should be as follows:

1) BVM Installation  
2) SQL Server Installation (Express or Full)  
3) BVM_Database_Setup

Installation Steps

1) Close all other programs on your computer. Temporarily shutting down any running anti-virus software is recommended. If you are not logged in as an administrator, log out and log in as an administrator or have an administrator log in. Disconnect any USB cables attached to any BTECH equipment.

2) Uninstall any previous versions of the Battery Validation Manager and any associated utilities.
3) There are two discs supplied; the BVM software installation disc and the location data disc.

Insert the BVM software installation disc into your computer’s DVD-ROM drive.

The BVM installation should begin to run.

If it does not, click the Start Button and select Run.

Enter D:\BVM_Setup.exe to start the installation (if the computer’s DVD drive is not assigned as D, use the appropriate letter for the drive in the command).
4) The installation program will begin to run and a welcome screen will appear. When prompted, click the Next button to continue the installation.

5) Read the license agreement and then click the “I Agree” button to continue.
6) Next select which components of the software you wish to install. The Battery Validation Manager and BVS Status Monitor are always installed. You can choose to also install the BVS Observer (which is a Windows service that automatically gathers data and receives alarms) and/or the drivers for the USB port on the battery monitors. Click the Next button to continue.
7) It is recommended to install the software in the destination folder as shown. If you want it to be installed in a different folder, click “Browse”, then select where you wish the software to be installed on your computer. Click Install to install the software.
8) If the USB drivers are to be installed, you will be prompted to allow the installation of a driver from Texas Instruments. Click the Install button to continue.

9) In addition you will be prompted to extract and install the driver from FTDI. Click the Extract button to continue.
10) Then click the Next button.

11) Select “I accept this agreement” and click the Next button.
12) Once the driver installation is complete, click the Finish button.

![Completing the Device Driver Installation Wizard](image1.png)

13) Once the installation is complete, click the Finish button to exit the installation. If you are loading new location files, start the BVM and insert the location data disc. If you receive any errors during the installation and you were installing the BVS Observer, continue to the next section to verify the Observer’s services are running.

![Completing the Battery Validation Manager 4.5.1 Setup Wizard](image2.png)
14) If there were any errors and the BVS Observer services were being installed, the installation program may have a problem starting one or both of the BVS Observer services. You should first check that the services are running by opening the Service Management Console.

This can be done by first opening the Control Panel from the Start Menu. From the Control Panel, open Administrative Tools. From Administrative Tools, open the Service Management Console. Check for the BTECH BVS Observer Service and the BTECH Email Data Service in the list of services.

If the services are running, they will be marked as “Started” under the status column. Right-clicking on the listed service will bring up a menu where the service can be started, stopped, and restarted. If the service isn’t running, select the Start selection to start it.

Any errors that occur when starting a service or while a service is running will be logged in the Event Viewer under the Application log. The Event Viewer can also be found in the Administrative Tools.

15) Within the Service Management Console, various properties of each service can be changed in the service’s Property page.

The startup type can be set as well as starting and stopping the service. The startup type should be set to Automatic to enable both of the BVS Observer services to start when the computer is powered up.

Under the Log On tab, the account and password of the service can be changed. Normally both of the BVS Observer services run under the LOCAL SYSTEM account. This allows the BVS Observer services to open location files located on the same computer. If you move the location files to a server or another machine, the logon account information will need to be changed to allow the BVS Observer services to access the server or remote machine. Enter the account and password information in the Log On tab of the BTECH BVS Observer Service. Then stop and then start the service. Repeat this with the BTECH Email Data Service.