Newport USB Driver

Version 5.0.8

Revision Date: October 23, 2018

IMPORTANT NOTES:

Please close all applications on your PC before installing this software.

In order for the USB drivers to install / uninstall correctly, no instruments that use the USB driver can be powered on and connected to the PC during this process.

Newport Corp. World Wide Web Server

You can access a variety of Newport Corporation information sources via the Newport Web Server, http://www.newport.com.

Technical Support

Please review the User's Manual first if you are experiencing difficulties with the product. The following Technical Support information is listed below if you still need help.

Tel: 1-800-222-6440
Fax: 1-949-253-1479
Email: rma.service@newport.com
Internet: http://support.newport.com

Media Contents:

The root folder contains this readme file, documentation, and the setup program to install the software.

The Win32 folder contains setup files for Windows 32-bit operating systems. The x64 folder contains setup files for running applications in 64-bit mode on Windows 64-bit operating systems. The x86Onx64 folder contains setup files for running applications in 32-bit mode on Windows 64-bit operating systems.

Installation:

This software may be installed on the following Microsoft Windows operating systems: Windows XP, Windows Vista, Windows 7, Windows 8, and Windows 10.

When the Newport USB Driver is installed on a 64-bit OS, both the 32-bit and 64-bit driver files are installed. If the 32-bit mode on a 64-bit OS option is installed then the 32-bit files are located in the \Bin folder and the 64-bit files are located in the \Bin\x64 folder. If the 64-bit mode on a 64-bit OS option is installed then the 64-bit files are located in the \Bin folder and the 32-bit files are located in the \Bin\x86 folder. You may choose both installations because the 32-bit mode files will be installed to the "Program Files (x86)" folder and the 64-bit mode files will be installed to the "Program Files" folder.

The Microsoft .NET Framework version 3.5 SP1 or later is required to install this software. If it is not already installed then the installer will automatically install it from the vendor's web site. An internet connection is required for this step.

If a security alert message about the driver software is displayed (during setup or soon after the setup program is closed), then verify that the driver software is published by Newport Corporation. If so, then allow the driver software to be installed.

After all required setup programs have been run and all setup related message boxes have been closed, your software is installed and is ready for use.

Troubleshooting USB Driver Installation:

There are a few things that you can try on your own that may solve an issue and avoid a call to technical support:

(1) Power on and connect your device to the PC. Then run Device Manager to see if the Newport USB Driver is properly installed.
   a. If your device has a yellow exclamation icon or is an “Unknown” device then right click the icon and select “Update Driver” from the context menu. Then on the first screen of the Wizard, select “Browse my computer for driver software” and then select the Next button on the second screen. If you are running Windows XP then select “No, not this time” on the first screen of the Wizard and then select “Install the software automatically (Recommended)” on the second screen. For more information, see the document named “Changing The USB Driver For An Instrument.pdf” in the \Docs folder.
   b. Right click your device’s icon and select “Properties” from the context menu. Select the Driver tab and verify that the driver details are correct. In order for the driver to work properly the Driver Provider must be Newport Corporation, the Driver Date must be at least August 2017 and the Driver Version must be at least 5.x.x. Follow the instructions in “Changing The USB Driver For An Instrument.pdf” in the \Docs folder and select the Newport driver with the highest version number. If you are not running Windows XP then select one with a certificate icon too.

(2) Run the TestUSB application to display the connected devices and to generate a trace log of the device discovery process. This application may fail to load if step #1 above is not yet complete. TestUSB is located in the \Bin folder of the Newport USB Driver installation. There is a desktop shortcut and a Start Menu shortcut for the Newport USB Driver Folder. Run the TestUSB application and connect / disconnect instruments. If your instruments are properly displayed in the output window whenever they are connected or disconnected then USB communication is working. If there is some kind of problem then click the “Open Log Folder” button and find the log file named LogYYYY-MM-DD_Native.txt. This log file contains information about the software’s attempt to communicate with the USB devices attached to the PC.

(3) Check the Windows installation log files for errors. The Windows\Inf folder contains “setupapi.dev.log” and “setupapi.app.log”. If you are running Windows XP then “setupapi.log” is located in the Windows folder. These installation log files should contain information about the installation of the Newport USB Driver. Search these files for “104D” (Newport’s Vendor ID) and find the correct date / time stamp of when the installation error occurred. Any line that starts with “!!!” represents an error.

Installed Files:

Software

UsbDll.dll	Version 5.0.8
UsbDllWrap.dll	Version 1.0.12

Documentation

Newport USB Driver API User's Manual.pdf
Changing The USB Driver For An Instrument.pdf

Programming Samples

VB6 Sample

UseUSBAddress	Version 1.0.0

C++ Samples

UseUSBAddress	Version 1.0.1
FilterByProductID	Version 1.0.1
UseDeviceKey	Version 1.0.1
UseEventHandlingWithDeviceHandle	Version 1.0.1
UseEventHandlingWithDeviceKey	Version 1.0.1

C# Samples

UseUSBAddress	Version 1.0.1
FilterByProductID	Version 1.0.1
UseDeviceKey	Version 1.0.1
UseEventHandling	Version 1.0.1

LabVIEW Samples

LabVIEW 6.1 UseUSBAddress	Version 1.0.0
LabVIEW 8.x UseUSBAddress	Version 1.0.1
LabVIEW 8.x FilterByProductID	Version 1.0.1
LabVIEW 8.x UseDeviceKey	Version 1.0.1
LabVIEW 8.x UseDeviceKey (with Device VIs)	Version 1.0.1
LabVIEW 8.x UseEventHandling	Version 1.0.1
LabVIEW 2009 UseUSBAddress	Version 1.0.1
LabVIEW 2009 FilterByProductID	Version 1.0.1
LabVIEW 2009 UseDeviceKey	Version 1.0.1
LabVIEW 2009 UseDeviceKey (with Device VIs)	Version 1.0.1
LabVIEW 2009 UseEventHandling	Version 1.0.1

What's New

VERSION 5.0.8 October 23, 2018

Fixes:

1. Increased the read and write timeouts from one second to two seconds.

Feature Enhancements:

1. None.

VERSION 5.0.7 May 7, 2018

Fixes:

1. Fixed binary writes to send the proper number of bytes.

Feature Enhancements:

1. UsbDllWrap Version 1.0.12 – Added 'NativeLogging' and 'NativeTracing' properties to the public interface.

VERSION 5.0.6 October 12, 2017

Fixes:

1. None.

Feature Enhancements:

1. Replaced Jungo's WinDriver with Microsoft's WinUSB.
2. Extended the native interface to support ASCII reads, logging and retrieving device keys.
3. UsbDllWrap Version 1.0.11 – Updated logging of system information to support Windows 10.

VERSION 4.2.3 February 2, 2017

Fixes:

1. None.

Feature Enhancements:

1. Added the Product ID (0x1003) of the Newport LED Driver.

VERSION 4.2.2 January 20, 2017

Fixes:

1. Upgraded WinDriver by Jungo to version 12.3.0 in order to fix the thirty day limitation bug on Windows 10.

Feature Enhancements:

1. None.

VERSION 4.2.1 June 22, 2015

Fixes:

1. None.

Feature Enhancements:

1. Added the Product ID (0x100F) of the New Focus Wavemeter.
2. Added the Product ID (0x2003) of the Newport AI-6 Guardian Active Isolation Controller.

VERSION 4.2.0 December 10, 2014

Fixes:

1. Updated event handling to clear the input pipe before firing the Device Attached event.

Feature Enhancements:

1. Added the Product ID (0x2002) of the ST-300 Smart Table Controller.
2. Upgraded to Jungo WinDriver 11.7.0.

VERSION 4.1.4 March 25, 2014

Fixes:

1. None.

Feature Enhancements:

1. Added the Product ID (0x100E) of the TA-7600-LN Tapered Amplifier Controller.

VERSION 4.1.3 October 21, 2013

Fixes:

1. None.

Feature Enhancements:

1. Added the Product ID (0x100D) of the TLB-6800 Tunable Laser Controller.
2. Added the ‘UseDeviceKey (with Device VIs)’ sample.

VERSION 4.1.1 May 21, 2013

Fixes:

1. Changed the Product ID of the Picomotor to 0x4000.

Feature Enhancements:

1. Added support for a signed driver package and WinDriver 11.1.0, which supports Windows 8.
2. UsbDllWrap Version 1.0.6 - Added critical sections to the reads, writes, and queries to better support multithreading.
3. UsbDllWrap Version 1.0.5 – Added support for UNC paths and modified the log file to display the current process ID in each log line for multiple instance logging.

VERSION 4.0.5 November 5, 2012

Fixes:

1. UsbDllWrap Version 1.0.4 - Updated event handling to properly cleanup when a device is closed.

Feature Enhancements:

1. UsbDllWrap Version 1.0.3 - Added 'ReadBinary' and 'WriteBinary' with a byte array argument.

VERSION 4.0.4 May 15, 2012

Fixes:

1. UsbDllWrap Version 1.0.2 - Updated event handling to communicate with a device that is powered off and then on.

Feature Enhancements:

1. None.

VERSION 4.0.3 November 23, 2011

Fixes:

1. The USB Driver installation is bypassed if the current, or a newer, version of UsbDll.dll is already installed.

Feature Enhancements:

1. None.

VERSION 4.0.1 October 25, 2011

Fixes:

1. Updated UsbDll, UsbDllWrap (v1.0.1), and the samples to handle instruments (such as the 1830-R) that terminate a line with a <LF> instead of a <CR><LF>.

Feature Enhancements:

1. None.

VERSION 4.0.0 June 27, 2011

Fixes:

1. None.

Feature Enhancements:

1. Added new methods to support event handling. Now devices can be attached / detached at any time and the list of open devices will be properly updated. This also means that devices can now be opened / closed independently of each other and without affecting any communication that is occurring with the other devices.