



Newport USB Driver

Version 4.2.1

Revision Date: June 22, 2015

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.

Manual: The latest manuals for the New Focus Picomotors can be found on Newport Corporation's website (see below), on the product specific page. For your convenience a recent version of the manuals can be found on the installation media and will be installed on your PC.

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, and Windows 8.

If the software is being installed on a 64-bit operating system then make sure to choose the correct installation for your needs. There are two choices: (1) 32-bit mode and (2) 64-bit mode. If you have a 32-bit version of LabVIEW then choose the 32-bit mode installation. If you have a 64-bit version of LabVIEW then choose the 64-bit installation. If you are developing in C# or with a product that produces 64-bit applications then choose the 64-bit installation. 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 “WinDriver” or that it is published by “Jungo LTD”. 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 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) Run one of the provided samples to see if the PC is properly communicating with the instrument. If the PC is communicating with the instrument then the software is correctly installed, the drivers are working properly, and all hardware involved in the communication (such as a USB cable) is functional. However, if the provided samples cannot communicate with the instrument, then try the other steps below.
- (2) If the software is installed on a 64-bit operating system and the provided samples do not communicate properly, then verify that the proper drivers (32-bit mode or 64-bit mode) were installed for your application needs. For more information see the “Installation” section above and the document named “Newport USB Driver API User’s Manual.pdf” in the \Docs folder. This document explains the Newport USB Driver interface, each of its samples, and the log file which can contain helpful information about device communication.
- (3) Verify that the Newport USB driver was installed without error by inspecting the two log files that were generated during installation. These two log files are located in the \Bin folder. Open both log files (NewportUSBDriver.log and WinDriver.log) with any text editor and verify that the last line in both files is “STATUS_SUCCESS”. If the last line in both log files is “STATUS_SUCCESS” then the Newport USB Driver installed correctly. However, if the last line is different in either of these log files then perform the following steps: (a) disconnect any instruments that are powered on and connected to the PC, (b) uninstall the Newport USB Driver software using the Control Panel, and (c) re-install the Newport USB Driver. Then re-inspect the two log files for “STATUS_SUCCESS”.
- (4) Verify that the proper driver is associated with the instrument by running Windows Device Manager with the instrument powered on and connected to the PC. For instructions on how to associate a driver with your instrument, see the document named “Changing The USB Driver For An Instrument.pdf” in the \Docs folder.

Installed Files:

Software

UsbDll.dll	Version 4.2.1
UsbDllWrap.dll	Version 1.0.7
wdapi1170.dll	Version 11.7.0

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
---------------	-------------

C++ Samples

UseUSBAddress	Version 1.0
FilterByProductID	Version 1.0
UseDeviceKey	Version 1.0
UseEventHandlingWithDeviceHandle	Version 1.0
UseEventHandlingWithDeviceKey	Version 1.0

C# Samples

UseUSBAddress	Version 1.0
FilterByProductID	Version 1.0
UseDeviceKey	Version 1.0
UseEventHandling	Version 1.0

LabVIEW Samples

LabVIEW 6.1 UseUSBAddress	Version 1.0
LabVIEW 8.x UseUSBAddress	Version 1.0
LabVIEW 8.x FilterByProductID	Version 1.0
LabVIEW 8.x UseDeviceKey	Version 1.0
LabVIEW 8.x UseDeviceKey (with Device VIs)	Version 1.0
LabVIEW 8.x UseEventHandling	Version 1.0
LabVIEW 2009 UseUSBAddress	Version 1.0
LabVIEW 2009 FilterByProductID	Version 1.0
LabVIEW 2009 UseDeviceKey	Version 1.0
LabVIEW 2009 UseDeviceKey (with Device VIs)	Version 1.0
LabVIEW 2009 UseEventHandling	Version 1.0
LabVIEW 2010 UseUSBAddress	Version 1.0
LabVIEW 2010 FilterByProductID	Version 1.0
LabVIEW 2010 UseDeviceKey	Version 1.0
LabVIEW 2010 UseDeviceKey (with Device VIs)	Version 1.0
LabVIEW 2010 UseEventHandling	Version 1.0

What's New

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.

©2015 Newport Corporation. All rights reserved.

This document is for informational purposes only. Newport Corp. makes no warranties, express or implied, in this document.
LabVIEW is a registered trademark of National Instruments Corporation.