

Removing Amptek USB drivers in Windows XP

Amptek uses two USB drivers to communicate with older devices: APAUSB, or WinUSB. The APAUSB driver was original shipped with the DP4 & PX4, and with the initial DP5 release with FW5. It was later replaced by the WinUSB driver.

APAUSB driver

1. Compatible with DP4, PX4, and DP5 with FW5.
2. Operates under WinXP/32, Vista/32, and Win7/32.
3. Unsigned, so installation may produce warning/compatibility screens.

WinUSB FW5 driver

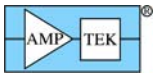
1. Compatible with DP5 with FW5.
2. DP4/PX4 require PROM replacement for compatibility.
3. Compatible with WinXP/32 & 64, Vista/32 & 64, and Win7/32 & 64.
4. WHQL-signed for WinXP/32, and Win7/32 & 64.
5. Available via Windows Update for automatic installs, for Internet-connected PCs (for WinXP/32, and Win7/32 & 64).
6. Backward-compatible to ADMCA and custom software, by replacing USBDRVD.DLL with WinUSB version.

Amptek also supplies a WinUSB driver for FW6 devices: DP5 (FW6), PX5, DPG and Gamma-Rad5. This document does not include directions for removing that driver.

Note: This assumes you have experience using Windows Regedit to find and delete keys. As always, use caution with Regedit. If you are not sure how to use it, then do not use it!

1. Uninstall the driver.

- a. Open the Start Menu, and select 'Run...'
- b. Type 'cmd', and click 'OK'.
- c. In the resulting command window, type:
set devmgr_show_nonpresent_devices=1
and press ENTER.
- d. Type:
start devmgmt.msc
and press ENTER. This launches Device Manager.
- e. In Device Manager, select "View | Show Hidden Devices". (This setting, combined with the environment variable above, allows Device Manager to display unconnected USB devices, which are normally hidden.)
- f. APAUSB devices will show up under 'APAUSB Devices'. WinUSB FW5 devices will show up under 'Amptek Legacy DPP', 'AmptekDP4' or 'Amptek DPP'.
- g. Right-click on each device listed under the above sections and select 'uninstall'. If there is an option to 'remove driver files from system' you must select it. This is very important!



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2. Remove the INF and PNF files.

- a. Navigate to the \WINDOWS\INF folder. This folder may be hidden; if Windows does not give the option to unhide it, then in Windows Explorer highlight the WINDOWS folder, select 'Tools|Folder Options|View', and select 'Hidden files and folders|Show Hidden files and folders'.
- b. Right-click on \WINDOWS\INF, and select 'Search...'
- c. Under 'All or part of the filename:', enter '*.inf'.
- d. Under 'A word or phrase in the file:', enter 'vid_0bd7' (zero, not the letter.)
- e. Look in: inf folder.
- f. Click Search.
- g. It should locate a file named 'oemxx.inf', where xx is a number.
- h. Delete this .inf file.
- i. Locate a file with the same name, but with a .pnf extension. Delete it.

If the driver had previously worked properly, then uninstalling it via the above steps should remove it sufficiently to install a new driver (either WinUSB or APAUSB.)

Reboot the PC before attempting to install a new driver.

If the driver did not install properly or was damaged, then it may be necessary to edit the registry manually, as described in the next step.

3. Search the registry and delete related keys.

- a. Click 'Start|Run...' and enter 'regedit'. Click OK.
- b. Click on 'My Computer' (at the top of the list of keys).
- c. You can either manually locate the keys listed below, in which case, skip to step h, or you can search for them.
- d. Click 'Edit|Find...'
- e. Enter 'vid_0bd7' (zero, not letter).
- f. Make sure 'Look at Keys, Values, Data' are all selected; deselect 'Match whole string only'.
- g. Click 'Find Next'.
- h. Delete the following keys, which should be located by the search detailed above. After deleting each key, select Edit|Find Next (or hit F3.) If regedit gives an error that the key can not be deleted, right-click on it, select 'Permissions...', and click on 'Full Control|Allow'. Try deleting the key again.

Keys to be deleted	Scope
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Enum\USB\Vid_0bd7&Pid_a021	WinUSB & APAUSB
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\APAUSB	APAUSB only

Reboot the PC before attempting to install a new driver!