

BSL Driver Guide

Administrator Privileges Required

42 Aero Camino, Goleta, CA 93117 Tel (805) 685-0066 | Fax (805) 685-0067 info@biopac.com | www.biopac.com

Select a driver installation category

- A First-time driver installation for MP3X — page 2
- К Update MP36/MP35 driver — page 5
- Update MP30 driver page 7

Troubleshooting — see page 9.



Model: MP36E-CE S/N: MP36E804000026 PCB Rev.: 1.33 ROM Rev.: N/A Firmware Rev.: 2.13.016.006 MP36 Internal Buffer size: 200016 bytes USB Driver Rev.: 6.32.0.1.06072007



Model: MP35 S/N: MP35A6060002360 PCB Rev.: 2.8 ROM Rev .: N/A Firmware Rev.: 1.28.012.030 MP35 Internal Buffer size: 200016 bytes USB Driver Rev.: 6.32.0.7.03152007



Model: 3.0 S/N: 1696 PCB Rev.: 1 ROM Rev.: 1 Firmware Rev.: 3.1.1 MP30 Internal Buffer size: 200016 bytes USB Driver Rev.: 6.32.0.7.05222007.2.4

Help menu > About dialogs display version info

After installing the driver, use the About	
dialog to confirm that the Firmware and	MP3X
USB Driver Rev. are current:	MP36

- Launch the BSL *PRO* software.
- 2. Click the Help menu and select About Biopac Student Lab.

Check for an update and confirm current version numbers at WWW.BIOPAC.COM > Support > Downloads.

Windows OS Model XP or Vista 32-bit Vista 64-bit Driver: 6.32.0.1.06072007 6.64.0.1.06072007 Firmware: 2.13.016.006 2.13.016.006 MP35A Driver: 6.32.0.7.03152007 6.64.0.7.03152007 Firmware: 1.28.012.030 1.28.012.030 MP35 Driver: 6.32.0.7.03152007 6.64.0.7.03152007 1.26.042.030 1.26.042.030 Firmware: **MP30** Driver: 6.32.0.7.05222007.2.4 6.64.0.7.05222007.2.4 Firmware: 3.1.1 3.1.1 Current firmware and driver versions as of June 2008

IMPORTANT! Attention Windows Vista Users!

Vista uses a default setting that checks for drivers automatically, which may not be optimum for all users based on the system specifications (MP unit, software version, etc.). Under the default setting, the option to install the driver manually from a user-defined location is not presented unless the network connection is disabled or the network cable unplugged so if there is an open internet connection, the latest "signed" driver will automatically be downloaded and installed from Microsoft.

 \rightarrow The default should be changed to ensure correct driver installation for the system as specified by BIOPAC, not Microsoft.

Driver installation options are located in Vista. Instead of being presented by default in the "Found New Hardware" screen (as in XP), they're buried in the System Properties.

- 1. Select Windows Start > Control Panel > System.
- 2. Select "Advanced System Settings" from the "Tasks" pane at the left of the System screen.
- 3. Click the "Hardware" tab and select "Windows Update Driver Settings."



- 4. Select the "Ask me..." option and click OK. Windows Update Driver Settings When you connect a new device, how do you want Windows Update to find a matching driver? Check for drivers automatically (recommended) Ask me each time I connect a new device before checking for drivers Never check for drivers when I connect a device Using Windows Update requires a connection to the Internet. Read our privacy policy OK Cancel System To check the operating system bit level, generate the Rating: Control Panel > System Info dialog (sample shown at right) with the keyboard combo Processor: Intel(R) Core(TM)2 CPU 6400 @ 2.13GHz 2.13 GHz 3453 MB Memory (RAM): System type: 32-bit Operating System OR 64-bit Operating System Α First time installation: MP3X Driver Note: Screen images may vary slightly based on each Windows® operating 1. Power on the MP3X data acquisition unit. system but content should be similar. 2. Connect the MP3X to a USB port. 3. Wait for the "Found New Hardware Wizard" to be generated. Found New Hardware Wizard Welcome to the Found New Welcome to the Found New Hardware Wizard Hardware Wizard This wizard helps you install a device driver for a Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission). hardware devic Read our privacy policy Can Windows connect to Windows Update to search for software? ○ Yes, this time only Yes, now and every time I connect a device 💿 No, not this time To continue, click Next Click Next to continue Next > < Back Next > Cancel Cancel 4. Select "No, not this time" if prompted (under Windows XP) and click "Next."
 - 5. Select the option that allows you to locate and then install and click "Next."
 - The exact wording for this option varies based on the OS but it should be similar to "Install from a list..."or "Display a list..." or "Locate and Install."





6. Select the option that allows you to browse or specify a location.



- 7. Locate the Driver. Default locations are:
 - BSL 3.7.2 and above: Program Files\Biopac Student Lab\DRIVERS\MP36, MP35 or MP30(USB1W)
 - If your computer has a Windows® Vista 64-bit processor, you must select the 64-bit driver in the folder **Program Files\Biopac Student Lab\DRIVERS\64-bit Driver\...**
 - BSL 3.7.1 and below: Program Files\Biopac Student Lab\BSL 3.7\DRIVERS\MP35 or MP30(USB1W)

8. Click "Next."

- und New Hardware Wi Found New Hardware Wizard Driver Files Search Results The wizard has finished searching for driver files for your hardware device. Please wait while the wizard searches... The wizard found a driver for the following device: MP35, BIOPAC USB Device MP35 v1.0 \mathcal{D} Windows found a driver for this device. To install the driver Windows found, click Next **S** 2 g:\drivers\mp35\mp35usb.inf <Back Next > Cancel < Back Next> Cancel Wait for a confirmation dialog then click "Finish" or "Close." 9. Found New Hardy 🕝 📱 🛛 Found New Hardware - BIOPAC MP35 USB Data Acquisition Unit Completing the Found New Hardware Wizard The software for this device has been successfully installed MP35, BIOPAC USB Device Windows has finished installing the driver software for this device: Windows has finished installing the software for this device. BIOPAC MP35 USB Data Acquisition Unit 1 The hardware you installed will not work until you restart your computer. To close this wizard, click Finish Finish <u>C</u>lose
- 10. Launch the BSL PRO software.
- 11. Check for the green status indicator in the software window next to the "Start" button.



- 12. Select Help > About Biopac Student Lab and confirm the current driver is installed (see page 2 for details).
 - If communication is not established or the driver is not current, see Trouble Shooting (page 9).

Note: Screen images may vary slightly

based on each Windows® operating system but content should be similar.

B Update to a newer MP36 or MP35 Driver

- 1. Make sure that the MP36/MP35 is powered and connected to the computer.
- 2. Right-click the "My Computer" icon on the desktop and select "Properties" to generate the System Properties dialog.
- 3. <u>Click the "Hardware"</u> tab.

System Properties	System Properties
General Network Identification Hardware User Profiles Advanced	System Restore Automatic Updates Remote General Computer Name Hardware Advanced
The Hardware wizard helps you install, uninstall, repair, unplug, eject, and configure your hardware. Hardware Wizard	Device Manager The Device Manager lists all the hardware devices installed on your computer. Use the Device Manager to change the properties of any device. Device Manager
Device Manager The Device Manager lists all the hardware devices installed on your computer. Use the Device Manager to change the properties of any device. Driver Signing Device Manager	Drivers Driver Signing lets you make sure that installed drivers are compatible with Windows. Windows Update lets you set up how Windows connects to Windows Update for drivers. Driver Signing Windows Update
Hardware Profiles Hardware profiles provide a way for you to set up and store different hardware configurations. Hardware Profiles	Hardware Profiles Hardware profiles provide a way for you to set up and store different hardware configurations. Hardware Profiles
OK Cancel Apply	

4. Click the "Device Manager" button to generate the "Device Manager" dialog.



- 5. Expand the "Universal Serial Bus controllers" listing and select "MP36, BIOPAC USB Device" or "MP35, BIOPAC USB Device."
- 6. Select "Update Driver."

www.biopac.com

- Windows XP: Select the "Action" menu and then select "Update Driver..."
- 7. Wait for the "Update Wizard" to be generated.



8. Select "No, not this time" and click "Next."

Hardware Update Wizard	Hardware Update Wizard
	Please choose your search and installation options.
This wizard helps you install software for:	Search for the best driver in these locations. ■
MP35, BIOPAC USB Device	Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
If your hardware came with an installation CD	Search removable <u>m</u> edia (floppy, CD-ROM)
or floppy disk, insert it now.	Include this location in the search: DADBINGDEAMERSE Resume Resume
What do you want the wizard to do? Install the software automatically [Recommended] Install from a list or specific location (Advanced)	 Don't search. I will choose the driver to install. Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
Click Next to continue.	
<u> </u>	<u> < ₿</u> ack <u>N</u> ext > Cancel

- 9. Select "Install from a list or specific location (Advanced)" and click "Next."
- 10. Select "Search for the best driver in these locations."
- 11. Uncheck "Search removable media (floppy, CD-ROM ...)."
- 12. Check "Include this location in the search:"
- 13. Click "Browse."
- 14. Locate the Driver; it should be [BSL INSTALLATION CD]\DRIVERS\MP3X.
- 15. Click "OK."
- 16. Click "Next."
- 17. Wait for installation to complete.
- 18. Launch the BSL PRO software.
- 19. Check for the green status indicator in the software window next to the "Start" button.



- 20. Select Help > About Biopac Student Lab and confirm the current driver is installed (see page 2 for details).
 - If communication is not established or the driver is not current, see *Trouble Shooting* (page 9).

C Update to a newer MP30 Driver

- 1. Allow the Biopac Student Lab installer to remove any older MP30 USB driver files.
- Note: Screen images may vary slightly based on each Windows® operating system but content should be similar.
- During software installation, you need to select YES when prompted to remove drivers. If you did not select YES, repeat BSL software installation and choose YES at this prompt.

E	Siopac Student Lab
	Would you like the installer to remove any older BIOPAC MP30 USB drivers?"
	Yes BIOPAC Recommended Option
	ON₀
	Note: To insure that you will be using the latest USB driver for the MP30, any older BIOPAC MP30 USB drivers that may exist should be removed. Once removed, you must install the new driver files to run BIOPAC MP30 hardware.
Insta	IllShieldCancel

If you select "No" at this prompt during installation, you will need to manually remove the drivers before BSL 3.7 will run. See Troubleshooting (page 9).

- 2. Connect the MP30 to the USB1W.
- 3. Power on the MP30.
- 4. Connect the USB1W to the USB port.
- 5. Wait for the "Found New Hardware Wizard."

Found New Hardware Wizard	
	Welcome to the Found New Hardware Wizard Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission). Read our privacy policy
	Can Windows connect to Windows Update to search for software? Yes, this time only Yes, now and givery time I connect a device No, not this time Click Next to continue.
	< Back Next > Cancel

6. Select "No, not this time" and click "Next."

Found New Hardware Wizard	Found New Hardware Wizard
Welcome to the Found New Hardware Wizard	Please choose your search and installation options.
USB1W, BIOPAC USB Device	Search for the best driver in these locations. Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
If your hardware came with an installation CD or floppy disk, insert it now.	Search removable <u>m</u> edia (floppy, CD-ROM) Include this lgcation in the search: D:\DRIVERS\MP30(USB1W)
What do you want the wizard to do?	Don't search. I will choose the driver to install.
 Install the software automatically (Recommended) Install from a list or specific location (Advanced) 	Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
Click Next to continue.	
< <u>Back</u> <u>N</u> ext > Cancel	< <u>Back</u> <u>Next</u> Cancel

- 7. Select "Install from a list or specific location (Advanced)" and click "Next."
- 8. Select "Search for the best driver in these locations."
- 9. Uncheck "Search removable media (floppy, CD-ROM ...)."
- 10. Check "Include this location in the search:"
- 11. Click "Browse."
- 12. Locate the Driver folder, which should be [BSL INSTALLATION CD]\DRIVERS\MP30(USB1W).
- 13. Click "OK."
- 14. Click "Next."
- 15. Wait for Installation to complete.

Found New Ha	ardware Wizard
Please wait	while the wizard searches
¢	USB1W, BIOPAC USB Device
	<u>S</u>
	<back next=""> Cancel</back>

- 16. Launch the BSL PRO software.
- 17. Check for the green status indicator in the software window next to the "Start" button.



18. Select Help > About Biopac Student Lab and confirm the current driver is installed (see page 2 for details).

• If communication is not established or the driver is not current, see *Trouble Shooting* (page 9).

Trouble Shooting

If, **after following the procedures for updating drivers**, you are unable to establish communication with the MP3X and the computer or the driver files have not updated correctly to the current version:

- 1. Check power and cable connections.
- 2. Turn off the MP3X.
- 3. Turn off the computer (do not use Restart).
- 4. Turn on the computer.
- 5. Turn on the MP3X (only after you have turned on the computer).
- 6. Wait (2-15 seconds) for the "Busy" light on the MP3X to go out.
- 7. Launch the BSL *PRO* software.
- 8. Check for green status indicator in the software window.
- 9. If communication is not established, manually uninstall the driver as described below.
 - Only manually uninstall drivers if all other troubleshooting options failed.

Windows XP:

- A. Turn the MP3X unit off.
- B. Disconnect the USB cable from the computer's USB port (leave connected to the MP3X unit).

🕨 Start 돈

C. Launch the uninstaller.

MP36 users: "MP36USB_UNINSTALLER.exe" MP35 users: "MP35USB_UNINSTALLER.exe" MP30 users: "USB1W_UNINSTALLER.exe" The uninstaller is on the BIOPAC Installation CD or <u>WWW.BIOPAC.COM > Support > Downloads</u>

- D. Click "Uninstall Driver" and follow the prompts in the program.
- E. To install the current MP3X Driver, follow First time installation (page 2).

Windows Vista:

BIOPAC MP36/MP35 and USB1W uninstaller utilities are not supported under Windows Vista so the driver must be manually uninstalled via the Device Manager.

- A. Open the **Device Manager**:
 - Select Windows Start > Control Panel > Device Manager *or*
 - Use the keyboard combo



Hardware tab > Device Manager

- B. Select the BIOPAC device.
 - The MP unit must be ON for the device to be displayed in the list of Universal Serial Bus controllers.
 - Universal Serial Bus controllers
 BIOPAC MP35 USB Data Acquisition Unit
- C. Choose Action > Uninstall (or right-click select Uninstall).
- D. Click "Browse my computer..."
- E. Browse to the drive with the BIOPAC CD or the location of a driver downloaded from <u>WWW.BIOPAC.COM > Support ></u> <u>Downloads</u>.
- F. Select the compatible driver option and click **Next**.

