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After installing the MP45 drivers, use the About dialog to confirm that the Firmware is current:

- 1. Launch the BSL software.
- 2. Click the Help menu and select About Biopac Student Lab.
- 3. Firmware: 1.1.20060519
 - Current firmware as of December 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.

To check the operating system bit level, generate the Control Panel > System Info dialog (sample shown at right) with the keyboard combo





System

Rating:

Processor:



Check for an update and confirm current version numbers at

WWW.BIOPAC.COM > Support > Downloads

A MP45 Driver Installation—Windows XP

- 1. Load the BSL 3.7.5 CD into an available drive.
- 2. Plug the MP45 into the desired USB port.

You will see a number of installation messages from Windows, such as the example below:



These messages will conclude with "your new hardware is installed and ready to use," but the installation is not actually complete! This dialog refers only to the installation of the MP45 USB Data System and the USB Composite Device, which will need to be updated manually from the CD via the following steps.

3. Open the Device Manager

(Start→Control Panel→System→Hardware→Device Manager)

4. In Device Manager, expand 'Universal Serial Bus Controllers' and locate 'USB Composite Device'. (see below)



6. When the Hardware Wizard appears, choose "Install from a list or specific location" and click 'Next." (below)

Hardware Update Wizard	
	Welcome to the Hardware Update Wizard
	This wizard helps you install software for:
	USB Composite Device
	If your hardware came with an installation CD or floppy disk, insert it now.
	What do you want the wizard to do?
	 Install the software automatically (Recommended) Install from a list or specific location (Advanced)
	Click Next to continue.
	< Back Next > Cancel

7. Check "Include this location in the search" and click 'Browse." (below)

Hardware Update Wizard
Please choose your search and installation options.
⊙ 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.
Search removable media (floppy, CD-ROM)
nclude this location in the search:
Browse
◯ 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.
< <u>₿</u> ack <u>N</u> ext> Cancel

8. Browse to the 'Drivers' folder on the BIOPAC BSL 3.7.5 CD and click OK. (below)

Browse For Folder	Browse For Folder
Select the folder that contains drivers for your hardware.	Select the folder that contains drivers for your hardware.
My Computer My Co	Image: Second state sta
To view any subfolders, click a plus sign above.	To view any subfolders, click a plus sign above.
OK Cancel	OK Cancel

NOTE: If you have a 64-bit operating system, you must browse to the 64-bit 'Drivers' folder.

9. After selecting the appropriate 'Drivers' folder on the CD, click 'Next' in the Hardware Update Wizard. (below)



8. Wait while the driver is located. (below)

Hardware Up	odate Wizard	
Please wai	it while the wizard searches	
ą	USB Composite Device	

10. Select "BIOPAC MP45 Data Device 2.0.3.3" from the Description list, preferably the version from the CD. (Faster and easier than using Windows Update.) (below)

Hardw	vare Update Wizard			
Ple	ase select the best match for	your hardw	vare from the list below.	
	BIOPAC MP45 Data Dev	vice		
	Description	Version	Manufacturer	Loc
	💱 USB Composite Device	5.1.2600.0	(Standard USB Host Controller)	c:\w
	BIOPAC MP45 Data Device	2.0.3.3	BIOPAC Systems, Inc.	d:\d
	BIOPAC MP45 Data Device	2.0.3.3	BIOPAC Systems, Inc.	Win
	<			>
	This driver is digitally signed. <u>Tell me why driver signing is ir</u>	mportant	< Back Next >	Cancel

11. Wait while the driver installs. (below)

Hardware Up	date Wizard
Please wait	while the wizard installs the software
Ŷ	BIOPAC MP45 Data Device
	UacFlt2.sys To C:\WINDOWS\system32\drivers
	< <u>B</u> ack <u>N</u> ext > Cancel

12. Click "Finish." (below)

Hardware Update Wizard	
	Completing the Hardware Update Wizard
	The wizard has finished installing the software for:
	BIOPAC MP45 Data Device
	Click Finish to close the wizard.
	< <u>B</u> ack Finish Cancel

- 13. To insure the MP45 drivers have installed correctly, go to the Device Manager (Start→Control Panel→System→Hardware→Device Manager) and expand "Sound, video and game controllers" and 'Universal Serial Bus controllers." The following three items should be present: (see below)
 - 1. USB Audio Device (MP45 USB Data System)
 - 2. BIOPAC MP45 Control Device
 - 3. BIOPAC MP45 Data Device

📇 Device Manager	
<u>File Action View H</u> elp	
\leftarrow \rightarrow \square	
Network adapters D-Link DFE-530TX+ PCI Adapter Imp Intel(R) PRO/100 VE Network Connection Ports (COM & LPT) Processors Sound, video and game controllers	~
Audio Codecs Legacy Audio Drivers Legacy Video Capture Devices Media Control Devices SoundMAX Integrated Digital Audio USB Audio Device Video Codecs System devices System devices How System devices BIOPAC MP45 Control Device BIOPAC MP45 Control Device BIOPAC MP45 Data Device Control Device BIOPAC MP45 Data Device Control Device Control Device Control Device Device Manager following installation.	

14. Following installation, the BIOPAC MP45 USB Data System should be the default audio device. (below).

This configuration can be checked in the Sound properties by double-clicking the speaker icon in the lower right Taskbar (by the clock).

🚺 Speaker			
Options <u>H</u> elp			
Speaker	Wave	SW Synth	CD Player
Balance:	Balance:	Balance:	Balance:
Volume:	Volume:	Volume:	Volume:
<u>M</u> ute all	<u> </u>	Mute <u>M</u> ute	<u> </u>
BIOPAC MP45 USB Data Sys	tem		

15. Following installation, it is recommended that you restart your computer.

B MP45 Driver Installation—Windows Vista

- 1. Load the BSL 3.7.5 CD into an available drive.
- 2. Plug the MP45 into the desired USB port.

You will see a number of installation messages from Windows, such as the example below:



These messages will conclude with the dialog "Device driver software installed successfully," but the installation is not actually complete! This dialog refers only to the installation of the MP45 USB Data System and the USB Composite Device, which is a placeholder for the actual driver and will need to be updated manually from the CD using the following steps.

3. Open the Device Manager

(Start→Settings→Control Panel→System→Device Manager)

- 4. In Device Manager, expand 'Universal Serial Bus Controllers' and locate 'USB Composite Device'.
- 5. Right click 'USB Composite Device' and select 'Update Driver' (see below)



6. When the Hardware Wizard appears, choose "Browse my computer for computer software" and click "Locate and install driver software manually." (below)



7. When the "Browse for driver software" dialog appears, click 'Browse." (below)

Bro	wse for driver software on your computer
Sear	h for driver software in this location:
🔽 Įr	▼ Browse
+	Let me pick from a list of device drivers on my computer This list will show installed driver software compatible with the device, and all driver software in the same category as the device.

8. Browse to the 'Drivers' folder on the BIOPAC BSL 3.7.5 CD and click OK. (below)

📮 Computer	^	A 🚰 Computer	ž
• HP (C:)		P M HP (C:)	ſ
Recovery (D:) Recovery (D:) Recovery (D:) Recovery (D:) Recovery (D:)		DVD RW Drive (E:) BIOPAC BSL 3.7.5	
drivers	7961	a 📕 drivers	
program files		64-bit Driver	
📙 System32		👂 퉲 program files	
Removable Disk (F:)		🎍 System32	
🖗 👝 Removable Disk (G:)		👂 👝 Removable Disk (F:)	
👂 👝 Removable Disk (H:)	-	👂 👝 Removable Disk (G:)	į.

NOTE: If you are running the 64-bit version of Windows Vista, you must browse to the 64-bit 'Drivers' folder.

9. After selecting the appropriate 'Drivers' folder on the CD, click 'Next' in the Hardware Update Wizard. (below)

Browse for driver soft	ware on your comput	ter	
earch for driver software in	his location:		
E:\drivers		-	B <u>r</u> owse
Include subfolders			
Let me pick from This list will show insta	a list of device driver lled driver software compat	s on my compute ible with the device, a	er nd all driver
software in the same c	ategory as the device.		

10. Wait until the driver has finished installing and click "Close." (below)

Update Driver Software - USB Composite Device	
Installing driver software	
Update Driver Software - BIOPAC MP45 Data Device Windows has successfully updated your driver software	
Windows has finished installing the driver software for this device:	
BIOPAC MP45 Data Device	
	Close

11. During the installation, you may see the following Windows dialog as the third driver component, the BIOPAC MP45 Control Device is installed. Wait until this is completed before proceeding. (below)



- 12. To insure the MP45 drivers have installed correctly, go to the Device Manager (Start→Control Panel→System→Device Manager) and expand the "Sound, video and game controllers" and 'Universal Serial Bus controllers" options. The following three items should be present: (see below)
 - o BIOPAC MP45 USB Data System
 - o BIOPAC MP45 Control Device
 - o BIOPAC MP45 Data Device



13. After installation, it is recommended that you restart your computer.

C Uninstall MP45 Driver—Windows XP

Currently, there is no uninstaller utility for the MP45 drivers, so if removal is desired, all three BIOPAC driver components must be removed via the Windows Device Manager.

- 1. Plug the MP45 hardware must be plugged into the computer's USB port.
- 2. Open the Device Manager:

 $(Start \rightarrow Control Panel \rightarrow System \rightarrow Hardware \rightarrow Device Manager)$

OR right-click My Computer and choose "Properties." Then click the "Hardware" tab and select "Device Manager."

3. Expand the "Sound, video and game controllers" and "Universal Serial Bus controllers" options by clicking the "plus." (below)



- 4. Double click one of the three Biopac MP45 driver components (USB Audio Device, BIOPAC MP45 Control Device or BIOPAC MP45 Data Device) to open the selected device's Properties.
- 5. Click the Device Properties "Driver" tab and choose "Uninstall." (below)

 ϵ

BIOPAC MP45 Control Device Properties 2	
General Driver Details	
BIOPAC MP45 Control Device	
Driver Provider: BIOPAC Systems, Inc.	
Driver Date: 5/29/2007	
Driver Version: 2.0.3.3	
Digital Signer: Microsoft Windows Hardware Compatibility Publ	
Driver Details To view details about the driver files.	Confirm Device Removal
Update Driver To update the driver for this device.	BIOPAC MP45 Control Device
Boll Back Driver If the device fails after updating the driver, roll back to the previously installed driver.	Warning: You are about to uninstall this device from your system.
Uninstall To uninstall the driver (Advanced).	
OK Cancel	OK Cancel

- 6. Click OK in the "Confirm Device Removal" dialog.
- 7. Repeat steps 3-5 for the remaining two BIOPAC MP45 driver components. *After all components are removed, it is recommended that you restart your computer.*

TIP: You may also uninstall the driver by right clicking the device's icon in the Device Manager and selecting "Uninstall" from the contextual menu (below). You must then click OK to the "Confirm Device Removal" dialog shown in step 5.

😟 🧕 System devices	
🖻 🖨 Universal Serial Bus controlle	rs
🖙 🖶 BIOPAC MP45 Control Devic	e
🖷 🚔 BIOPAC MP45 Data Device	Update Driver
🛶 Intel(R) 82801DB/DBM US	Disable
🛶 Intel(R) 82801DB/DBM US	Uninstall
ଙ୍କ Intel(R) 82801DB/DBM US ଙ୍କ Intel(R) 82801DB/DBM US	Scan for hardware changes
🚔 USB 2.0 Root Hub	Properties
🚓 USB Root Hub 🚽	

Regardless of which driver removal method is used, the following three Device Manager components must be uninstalled separately:

- USB Audio Device (under "Sound, video and game controllers")
- BIOPAC MP45 Control Device (under "Universal Serial Bus controllers")
- BIOPAC MP45 Data Device (under "Universal Serial Bus controllers")

D Uninstall MP45 Driver—Windows Vista

Currently, there is no uninstaller utility for the MP45 drivers, so if removal is desired, the following three Device Manager components must be uninstalled separately:

- o USB Audio Device (under "Sound, video and game controllers")
- o BIOPAC MP45 Control Device (under "Universal Serial Bus controllers")
- o BIOPAC MP45 Data Device (under "Universal Serial Bus controllers")
- 1. Plug the MP45 hardware into the computer's USB port.
- 2. Open the Device Manager via Start→Settings→Control Panel→System→Device Manager

OR right-click My Computer and choose "Properties" and select "Device Manager" from the "Tasks" pane.

3. Expand the "Sound, video and game controllers" and "Universal Serial Bus controllers" options by clicking the "plus." (below)



- 4. Right-click the BIOPAC MP45 USB Data System device icon in the Device Manager and select "Uninstall" from the contextual menu. (below)
- 5. Click OK in the "Confirm Device Removal" dialog. (below)

Confirm	Device Uninstall
0	BIOPAC MP45 USB Data System
Waming	g: You are about to uninstall this device from your system.
	OK Cancel

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6. Repeat steps 3-5 for the BIOPAC MP45 Control Device and the BIOPAC MP45 Data Device. Be sure and check the "Delete the driver software for this device" option for both of these drivers.



7. After all components are removed, it is recommended that you restart your computer.