Self-Installing IonOptix Hardware/Software
IonWizard 6x, Mutech, IO24 on Windows XP
June 29, 2007

The following instructions explain the procedure required to install hardware and software required to run IonWizard 6x using the Mutech MV510 framegrabber with a IO24-based Fluorescence System Interface or Data System Interface. These procedures are for first time installations only. If you are upgrading are running system please refer to other documents.

1.   Verify computer and Windows version

To run IonWizard 6x you will need:
-    Two free full-height half-length PCI slots.
-    Windows XP. Windows 2000 – may work but is not well tested. Windows Vista support is not completed. All other versions of windows are not supported for new installations

2.   Obtain files

The software is currently distributed as two self-extracting zip files. Please contact IonOptix for instructions on receiving the latest versions. The two files will be
1)   mutech212.exe
2)   iwiz6-03jul07.exe   ("03jul07" will change for each release)

If you download these files from a separate computer you will have to copy them to your acquisition computer using a CD or USB flash drive.   If you have an Internet connection on your acquisition computer simply download files to a temporary directory (say c:\temp)

3.   Create program directory

Create a directory on your C drive of your acquisition computer called c:\ionoptix.

4.   Unpack files

To unpack the files open my computer and locate the drive/folder that contains the files from step #2. The first step is to install the frame grabber support files….

1. Open the drive/folder containing the files from step #2 and double-click on mutech212.exe	
2. After unpacking you will see this message, click ok and the Mutech setup program will start	
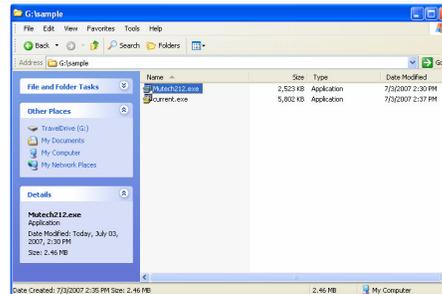
3. Click next	
4. Click yes to accept the license	
5. Click next to confirm	
6. Click next to accept default installation directory of c:\mv-500	
7. Click next to do a typical installation	
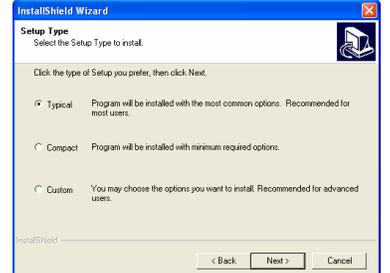
8. Click next to accept program folder name "mutech"	
9. Press next to start	
10. Once completed you will be asked to reboot your computer select "no" then click "finish"	

Next you will install the IonWizard files….

1. Open the drive/folder containing the files from step #2 and double-click on iwiz-03jul07.exe *Note the actual name of the file will vary based on the date it was released*	
2. After unpacking you will see this message, click ok	
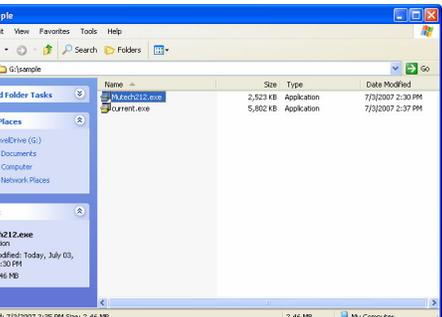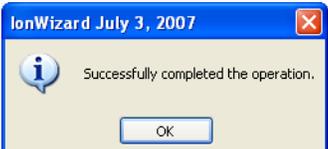
5. Insert the Cards

Be sure to power down the computer be inserting any cards!

Install the Mutech and IO24 cards in any available PCI slots. Be sure to screw in (or clip for some cases) the card supporting bracket to the back of the case so the cards do not work free.

6.   Load the drivers

The first time that you boot the computer after inserting new hardware Windows will automatically start the process for selecting and loading the driver. Since you have installed two cards you will need to determine which card it is asking for to determine the proper driver. You will see one of two "ballons" in the lower right-corner of the screen.

To install driver for the "Mutimedia Controller" (Mutech) driver….

1. Select "no" you don't want to search windows update and click "next	
2. Select "Install from a list or specific location (Adanced)" the click next.	
3. - Select "search for the best…", - uncheck "search removable media…", - check "include this location…" - enter or browse to c:\ionoptix\mutech 2.1.2 then click next	
4. Windows will start to install the driver then display this warning. Click "Continue Anyway"	

5.	When completed you will see this message	

To install driver for the "PCI Device" (IO24)....
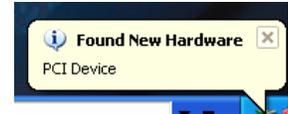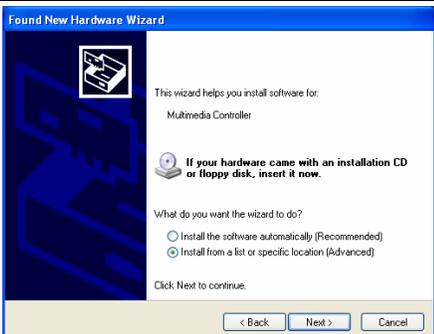
1.	Select "no" you don't want to search windows update and click "next	
2.	Select "Install from a list or specific location (Adanced)" the click next.	
3.	- Select "search for the best…", - uncheck "search removable media…", - check "include this location…" - enter or browse to c:\ionoptix\current\2kXP\MccIo24 then click next	

4. Windows will start to install the driver then display this warning. Click "Continue Anyway"	**Hardware Installation** ⚠ The software you are installing for this hardware: MCC PCI-DIO24 has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.) Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing. [Continue Anyway] [STOP Installation]
5. When completed you will see this message	**Found New Hardware Wizard** Completing the Found New Hardware Wizard The wizard has finished installing the software for: MCC PCI-DIO24 Click Finish to close the wizard. [< Back] [Finish] [Cancel]

7.   Test the frame grabber

To test that the frame grabber driver and support software are functioning

1. Attach a video camera to the RCA input on the back of the frame grabber card
2. Run "Start->Programs->Mutech->MV5XX Demo".
3. Click "ok" to dismiss any "No Input" messages
4. Select "Video Adjustment" from the "Adjust" menu, select "Channel 2" then click "Ok"
5. If you have a non-interlaced camera (all IonOptix cameras are non-interlaced) Select "Grab Next Field" from the "Grab" menu. If you have an interlaced camera select "Grab Frame"
6. Select "Start Grab" from the "Grab" menu. Live video should now be displayed

8.   IonWizard

The IonWizard program (IONWIZRD.EXE) has been installed in c:\ionoptix\current. Please refer to separate documents for configuration and operation instructions.

9.   MyoCam-S

While not explicitly covered in this document the MyoCam-S is installed in the same fashion as the IO24. That is once you have unpacked the IonWizard files (step 4) you can plug the camera into any available USB port. When Windows prompts you for the driver follow the same steps as the IO24 in step 6 except that the drivers are located in c:\ionoptix\current\2kXP\MyoCamS.   After the installation verify that the file "vi80uext.dll" is in c:\windows\system32, if it is not copy it from the driver source path.