



AQUANEX QUICK START GUIDE

QUICK START PROCEDURE FOR DU₂V MODEL 22 V5.4

Before installing any Aquanex software or hardware upgrade, backup any existing Aquanex dat and avi files.

SOFTWARE INSTALLATION

The default values are strongly recommended for all installation options. If a message appears that a driver is not digitally signed, select the option to continue installation.

1. Go to swimmingtechnology.com/aquanex-model-22
2. Follow the directions to download the Aquanex, DataDriver, and VideoDriver zip files.
3. Unzip/extract the zip files.
4. Run the setup.exe for Aquanex, LabJackBasic-2017-02-01.exe for DataDriver, and setup.exe for VideoDriver.
5. Copy capture.avi into the C:\ directory.

HARDWARE INSTALLATION

1. Disable the web camera – Control Panel/Device Manager/Cameras or Imaging Devices.
2. Connect the Video Output to a USB port on the computer. Wait until the hardware is recognized by Windows. Follow the Wizard directions.
3. Connect the Data Output to a USB port on the computer. Wait until the hardware is recognized by Windows. Follow the Wizard directions.
4. Remove the camera lens cap. Install the underwater camera at least 4 in (10 cm) below the surface.
5. Connect the 12-volt DC power supply to the camera cable.
6. Connect the RCA connector on the camera cable to the Video Input on the Aquanex CIU.
7. Connect the sensors to the Channel 1 (yellow, left) and Channel 2 (red, right) sockets on the Aquanex CIU.

RUN THE AQUANEX SOFTWARE

1. Select *Start/Programs/Aquanex/Aquanex*.
2. Select the *Client* menu bar command.
3. Select *Add Client* from the *Edit* menu bar command in the Client window.
4. Enter the client name, height, weight, and an ID (two initials are recommended).
5. Select the *Data/Monitor* menu bar command.
6. Adjust the sensor baselines to zero with the vertical scroll bars.
7. Click the *Start* button, click the *Stop* button, to set the sensor baselines to zero, then select *Data/Monitor*.
8. Select the *File/Autosave* menu bar command.
9. Select the *Data/Monitor with Video* menu bar command.
10. Align the camera so that the point on the wall directly opposite the camera is in the center of the view.
11. When the swimmer passes the 10 yd (or 10 m) mark, click *Start Data Collection*.

12. When the swimmer touches the wall, click *Stop Data Collection*.
13. Select the *Playback* button.
14. Click the single frame advance button on the multimedia control.
15. Observe that the cursors on the force graphs are synchronized with the video image.

For additional trials, have the swimmer return to the starting point and pull the cable toward the wall.

WHEN THE TESTING SESSION IS COMPLETED AND THE SENSORS ARE REMOVED FROM THE SWIMMER, TAP THE SENSORS ON YOUR HAND TO CLEAR THE WATER FROM THE PORTS ON BOTH SIDES.

TROUBLESHOOTING

Problem: Sensor baseline is erratic or video display is black.

Possible Solution: Check that all components are properly connected and have an adequate power.

Problem: Aquanex software begins to run but displays the Aquanex Error "File Not Found."

Possible Solution: Check that the CLIENT.LST, COMPANY.LST, and STRLOGO.BMP files are located in the same folder in which Aquanex was installed.

Problem: The Aquanex software does not load because of a "System files are out of date" error.

Possible Solution: Update Windows files – Control Panel/Automatic Update.

Problem: The video display in the Data Video or Data Monitor with Video window is black.

Possible Solutions: Check all connections from the camera to the computer. Check if security software is blocking the camera and, if necessary, change the setting "to allow."

Problem: The video display in the Data Video or Data Monitor with Video window is green.

Possible Solutions: Run Amcap.exe from the Video Drivers/Driver folder on the CD. Select Dazzle under the Devices menu bar option. Select Options/Video Capture Filter . . . /Image Tab/Composite Video or select Options/Video Crossbar/Video Composite.

Problem: After a Windows update, the data and video drivers are no longer installed.

Possible Solution: Reinstall Data and Video Drivers. Restart Aquanex.

Problem: Sensor value is constant at 1000 in the Diagnostics window.

Possible Solution: Exit Aquanex. Reinstall Data Drivers. Restart Aquanex.

Problem: The display in the Data Monitor or Data Monitor with Video is distorted so the video overlaps the force data and the force graphs are elongated.

Possible Solution: Check that the text size is set to 100% in Device Manager/Display.

SEE AQUANEX MANUAL FOR COMPLETE TROUBLESHOOTING GUIDE.