Welch Allyn® CardioPerfect™ Workstation Installation Guide

INSTALLING CARDIOPERFECT WORKSTATION SOFTWARE & ACCESSORIES ON A SINGLE PC

For software version 1.6.5 or later

For network installation, please refer to the Network Installation Manual or contact Welch Allyn technical support.

Contents
Installing CardioPerfect Workstation Software............................... 1–3
Installing the ECG recorder .......................................................... 5–6
Installing the spirometer ............................................................... 7–8
Installing the ABPM 6100 ............................................................. 9–12

This guide shows how to install the software and accessories for the Welch Allyn CardioPerfect Workstation on a single laptop or desktop PC. This guide does not cover installation for networked CardioPerfect configurations, for EMR-connected computers, or thin-client settings.

For a detailed installation procedure, see WACP Installation, located on the disc under “Browse the manuals” folder.

System Requirements
You need the following minimum recommended configuration to work with the CardioPerfect resting ECG, ambulatory blood pressure, or spirometry software modules:

Computer
Tower or desktop PC preferred; laptop or tablet.

Operating System
Windows XP service pack 2 or later; Windows Vista Business Edition, service pack 1 or later; Windows 7 Home Premium, Professional, Ultimate; Windows 8 or Windows 8 Pro;

CPU
P4 (or equivalent) or higher

Hard disk
20 GB with 5 GB free space

RAM
512 MB; 1 GB or higher recommended

Ports
2 USB ports

Monitor size
15” or larger

Monitor resolution
1024 x 768 true color; 1280 x 1024 resolution recommended

Other
DVD-ROM drive

Caution
Do not plug in any USB devices during this installation process.

1 Install the CardioPerfect software and USB drivers.

For software version 1.6.5 or later

INSTALLING CARDIOPERFECT WORKSTATION SOFTWARE

1 Install the CardioPerfect software and USB drivers.

Caution
Do not plug in any USB devices during this installation process.

- Make sure that you have administrator rights.
- Close all running programs.

CardioPerfect disc.

This screen might appear.

If this screen does not appear, explore the disc, and double-click installer ( ).

(next page)
The serial number and release code are located on the inside cover of the disc case.

Wait while the CardioPerfect client software installs. It takes a few minutes.
2. Create a test patient card.

This icon will have been automatically created on your desktop. Double-click to start the CardioPerfect application.

Fill in the fields with any data you like. This test patient will be used in later steps. This test patient will remain in your system. Patient cards can be edited but not deleted except by a system administrator.

Close CardioPerfect.

NEXT STEP: Install and verify all devices that you have purchased: ECG recorder, spirometer, and/or ABPM 6100 recorder. When finished, please see the user information provided with your product.
INSTALLING THE ECG RECORDER ON A CARDIOPERFECT WORKSTATION

Before you start, install the CardioPerfect Workstation software.

1. Assemble the ECG recorder, and then plug it into any USB port.

2. Verify the installation of the ECG recorder.

   (a) Click Go.
   (b) Select your test patient.
   (c) Click ECG.

You will see square waves along with this message: “Bad signal on Left Leg.”

Attach the patient cable to the recorder.
Attach clips to the ends of the lead wires.

Straighten a large metal paper clip.

Note: Do not use a plastic-coated or painted paper clip.
(a) Wait at least 20 seconds for the square waves to level off. When the lines become straight, verify that there are no lead-off messages.

Example lead-off message: **Bad signal on V3, V5**

If you receive a lead-off message, reconnect the indicated leads, and wait 20 seconds again. Repeat until there are no lead-off messages.

(b) Click **Record**.

The system takes a 10-second recording and returns to the main screen with your recording displayed. You have now verified that your ECG recorder is properly installed.
INSTALLING THE SPIROMETER ON A CARDIOPERFECT WORKSTATION

Before you start, install the CardioPerfect Workstation software.

1. Assemble the spirometer, and plug it into any USB port.

   ![Image](image1)

   **Caution** With the spirometer, always use the USB extension cable, as shown. This cable helps to prevent damage to the spirometer.

2. Verify the installation of the spirometer.

   ![Image](image2)

   Attach the flow tube. Attach the calibration syringe as illustrated.

   ![Image](image3)

   The lot code and calibration code appear on the flow transducer box:

   ![Image](image4)
Follow the instructions on this screen.

..3.. ..2.. ..1..

Push and then pull the plunger in sync with the side-to-side motion of the blue bar. Move steadily, all the way in and then all the way out, without hesitating during the stroke.

Don’t worry if your screen says ATS standard has NOT been met. You don’t need to meet the standard for this verification.

Verify that you see a flow loop. Each flow loop looks slightly different.

Click Done. You have verified that your spirometer is communicating with the Workstation.

Before performing spirometry tests, be sure to perform a successful calibration.
1 Install two fresh AA batteries in the recorder.
   If the recorder is on, turn it off. (Press and hold the Start/Stop button for five seconds until the device emits five quick beeps.)

2 Plug the PC Interface Cable into a USB port on your PC.

(a) Right-click on (My) Computer.

(b) Select Properties.
   If you have Windows XP, continue to step c.
   If you have Windows 7 or Windows 8, go to step e.

(c) Click the Hardware tab.
(d) Click the Device Manager.

OR

Windows XP

Windows 7 and Windows 8

(e) Click the Device Manager.

The actual screens you see may appear slightly different than what is pictured below.
3 Select the proper CardioPerfect settings.

(a) Click this icon.
(b) Click this tab.
(c) Select the COM number appropriate for your recorder. Use the number you previously made a note of in Step 2, (g).
(d) Click OK.
You can leave the main screen open.

4 Verify the installation of the ABPM 6100 recorder.
Attach the cable to the recorder.

(a) Click this icon.
(b) Select your test patient.
(c) Click ABP.
The recorder is ready to take a BP measurement.

You can give the recorder any name that you find helpful.

The recorder turns on. (It turns on and off automatically throughout this procedure.)

Press the Start/Stop button to turn the recorder on.

Press the Start/Stop button again to start the BP pump.

Press the Start/Stop button again to stop the BP pump.

When BP stops, verify that the recorder displays an error code ("E" followed by a number).

Press and hold the Start/Stop button until you hear a series of quick beeps (approximately 7 seconds) to turn the recorder off.

Attach the cable to the recorder.
Verify that your BP measurement appears in the test patient’s record. (Look for an error message in the Comment column.) Your recorder is properly installed.