Using the IOGEAR GUWIP204 Wireless 4-Port USB Sharing Station with PicoScope

1. Introduction

PicoScope oscilloscopes are USB 2.0 devices that work best with a direct connection to the USB 2.0 port on your computer. However, there are times when you may need to operate your scope remotely from your computer, over your office network. Fortunately, there is a device that allows you to do this: the IOGEAR GUWIP204 Wireless 4-Port USB Sharing Station.

Installation is quite straightforward, although there is one simple extra step that you need to take for PicoScope devices. This application note will guide you through the process.

2. Installing the IOGEAR GUWIP204

Installing the device is easy:

· Insert the CD supplied with the USB station into your computer and install software.
· Connect the power adapter (supplied) to the mains supply and plug it into the USB station.
· Plug the USB station into your office network using a standard RJ45 network cable.
· Follow the installation process in the IOGEAR GUWIP204 manual.

Note: The IOGEAR software/driver and manual are available online at:
http://www.iogear.com/support/dm/manual/GUWIP204#display

Once the GUWIP204 set up is complete the screen below will display in the IOGEAR interface:
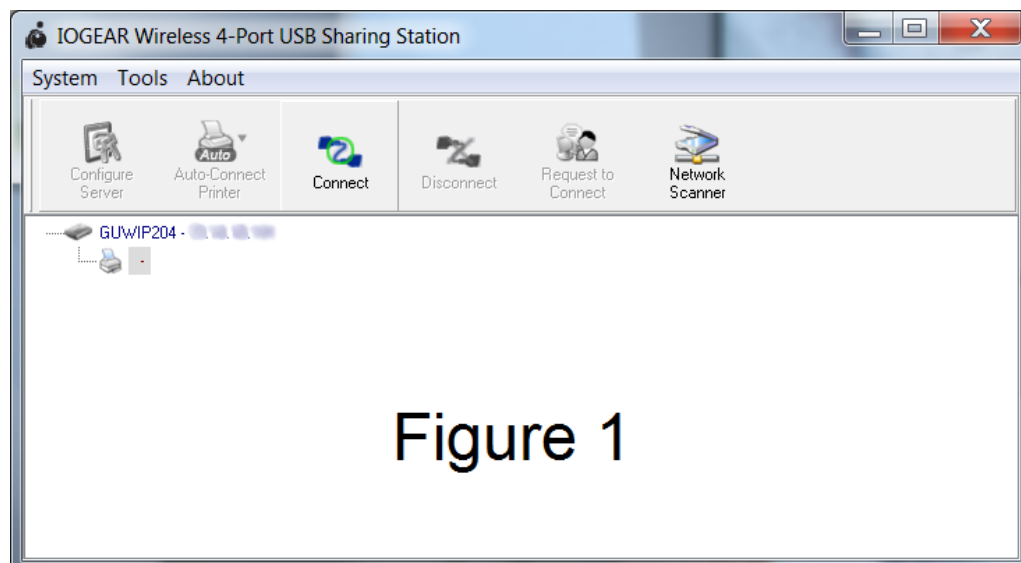

Figure 1

Using the IOGEAR GUWIP204 Wireless 4-Port USB Sharing Station with PicoScope
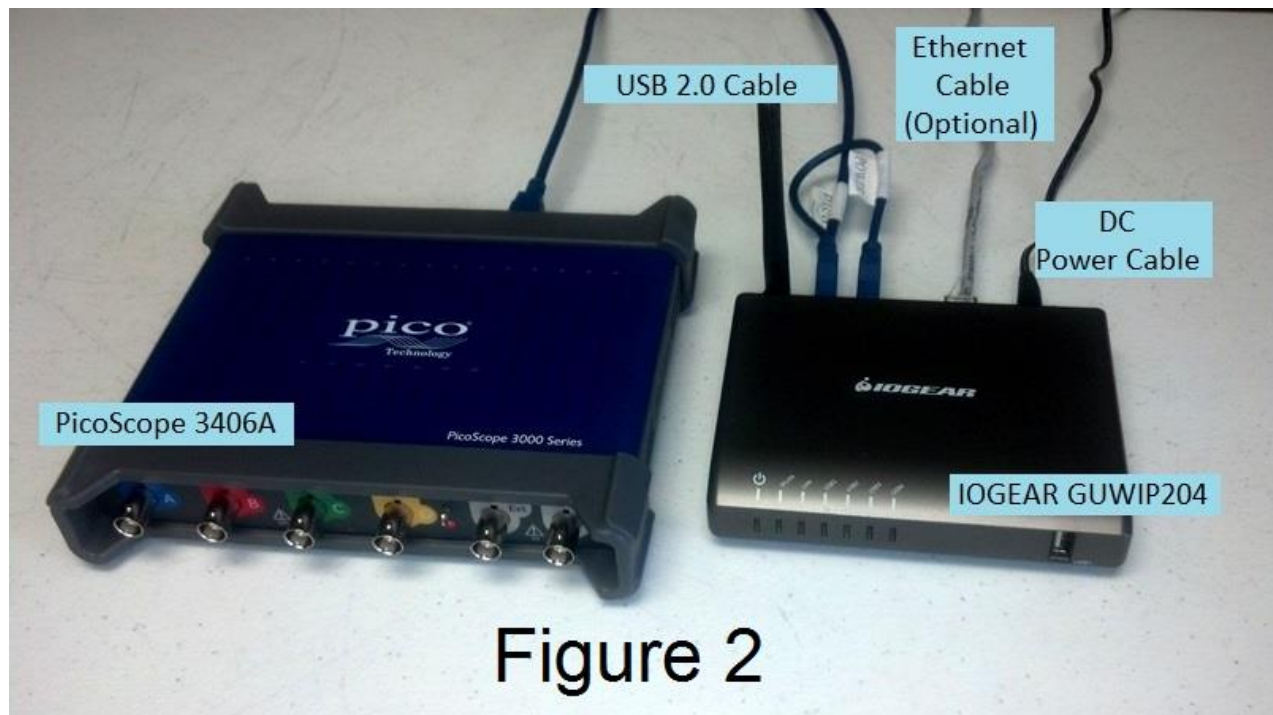
3. Installing the PicoScope oscilloscope

In this example we will be installing a PicoScope 3406A oscilloscope, but the same method works for any USB oscilloscope from Pico Technology.

· Plug the PicoScope into any USB port on the hub, on either the front or back of the unit, using a USB 2.0 cable. We recommend that you use the USB 2.0 cable supplied with the scope.

Our setup looked like this:

Figure 2

· An unidentified device icon appears in the **IOGEAR interface** under the GUWIP204. See Figure 1.

· Select the unidentified device and click the Connect Button. Notice the drivers for the PicoScope series will load and communication with the oscilloscope is established.

· The unidentified device will change to Manually Connected and after several seconds will change to Pico Technology – Pico Scope **** [Manually Connected]. See Figure 3 below.

Using the IOGEAR GUWIP204 Wireless 4-Port USB Sharing Station with PicoScope
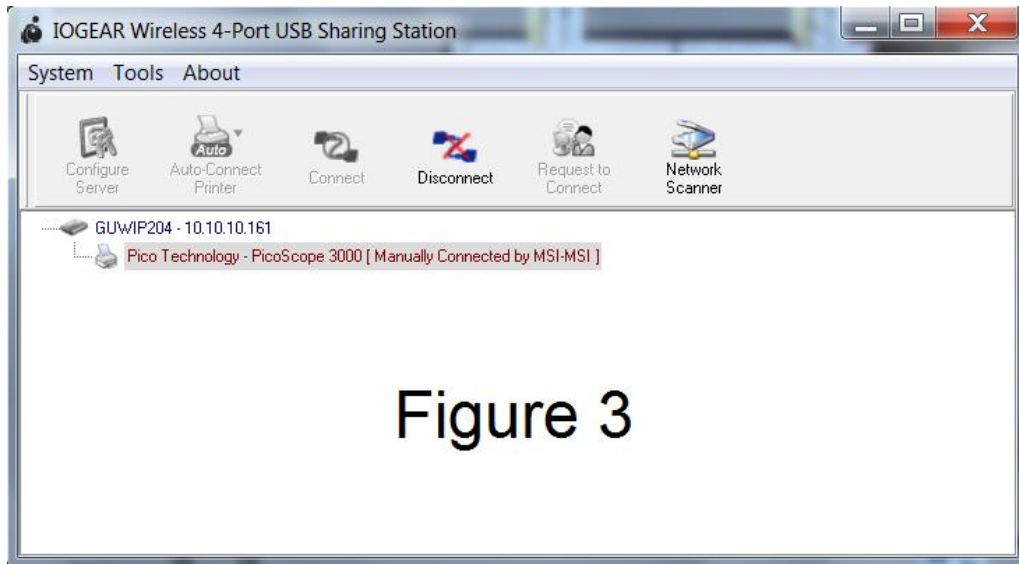

Figure 3

· This completes the installation. You can now run the PicoScope software and use the oscilloscope as if it were directly connected to your computer.

**Note – When PicoScope6 is launched for the first time the PicoScope might disconnect in the IOGEAR software. If this happens simply click the Connect button to reestablish communication. This should be the last time such an event occurs.

4. Notes

This procedure was tested using v2.45 of the IOGEAR software and Wireless 4-Port USB Sharing Station (model no. GUWIP204). The computer was running Windows7 Professional with Service Pack 1.

5. References

GUWIP204_Manual, M1172-a

6. Downloads

Download oscilloscope data sheets, Programmer's Guides, drivers and example source code from:

www.picotech.com