Connecting a Cobolt laser in Micro-manager

1. Install Micro-Manager on your computer
2. When starting Micro-Manager, you will be asked if you'd like to begin with a "Saved Configuration". Select "none" and continue to open the program.
3. Open "Hardware Configuration Wizard" from the Tools menu.
4. Select "New configuration" on the first screen and proceed with NEXT.
5. Select the "CoboltOfficial" device driver from the library. (Figure 1)
6. Select the correct COM port for your laser. (Figure 2)
7. Select BaudRate 115200. (Figure 3)
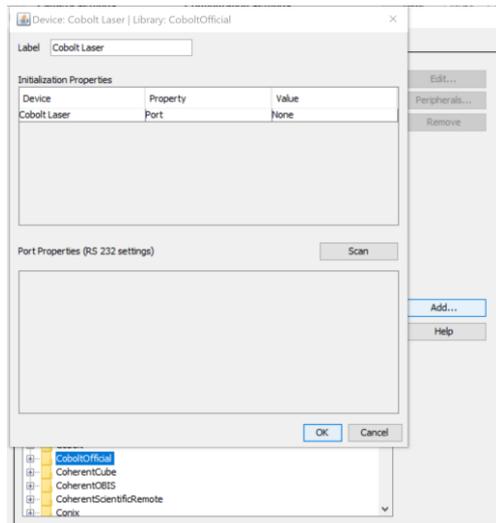8. Continue with the device installation.
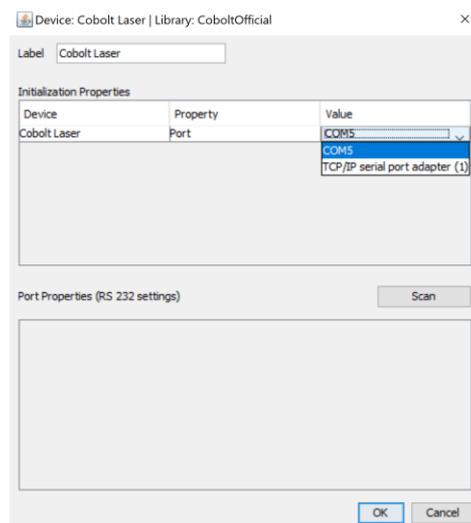

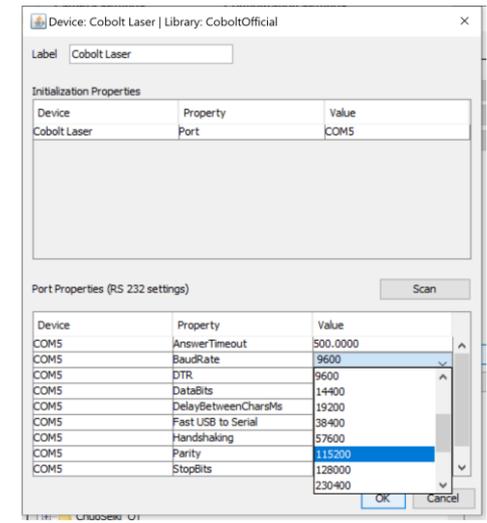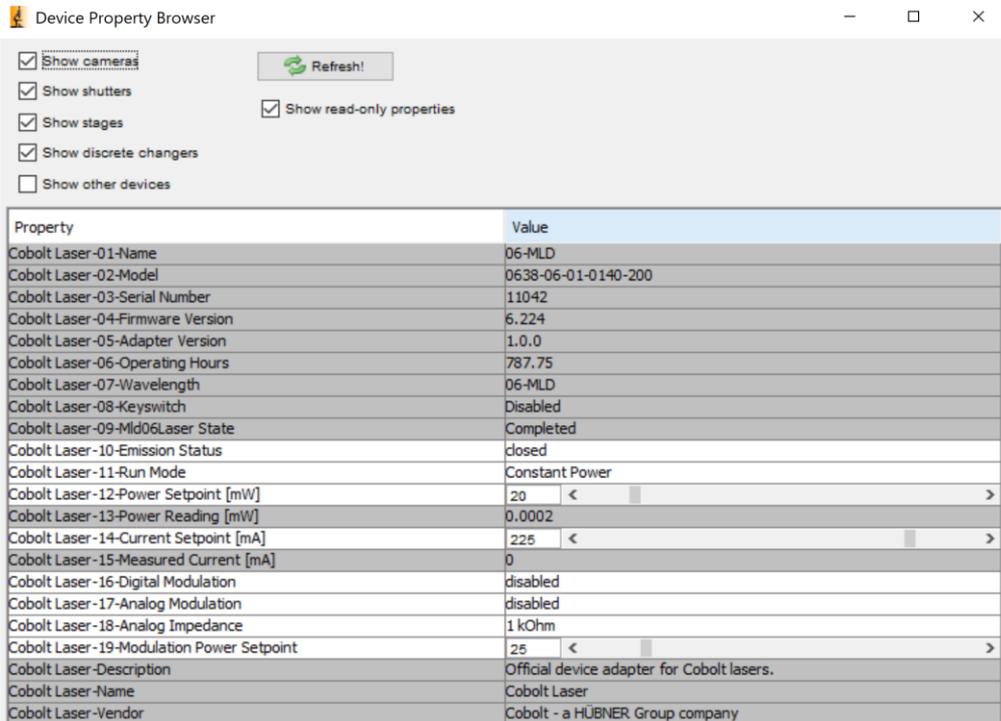Figure 1: Select CoboltOfficial

Figure 2: Select COM port

Figure 3: BaudRate 115200

HÜBNER Photonics | Coherence Matters.

1. After completing the installation, the Cobolt laser will be connected but NOT emitting. (Emission Status = Closed)
2. Open the "Device Property Browser" from the Tools Menu. The Device Property Browser is specific for the 06-01 Series or Cobolt Skyra and the device driver will recognize which type of laser is connected.
3. In the Device Property Browser window there will be controls to turn your Cobolt laser on, control the power, and change the laser operating mode ("Run Mode" :constant power, constant current, or modulation mode).
   a. If you are controlling the laser modulation with an external function generator, it is necessary to put the Cobolt laser in "Modulation Mode" in this window.

Tip! For comparison, a similar set of controls is available in the Cobolt Monitor GUI. It is a good practice to familliarize yourself with the Cobolt lasers by using the Cobolt GUI before trying to control via Micro-Manager.

Troubleshooting tip: The Cobolt Monitor GUI and Micro-Manager cannot be connected at the same time. The laser will only be recongized by one program at a time. If the laser is not connecting in Micro-Manager, check for other programs on the computer that may be communicating to the laser (ex: LabView, Cobolt Monitor, etc.)

Tip! Please refer to the Cobolt laser manual for information about how to control the lasers.

HÜBNER Photonics | Coherence Matters.