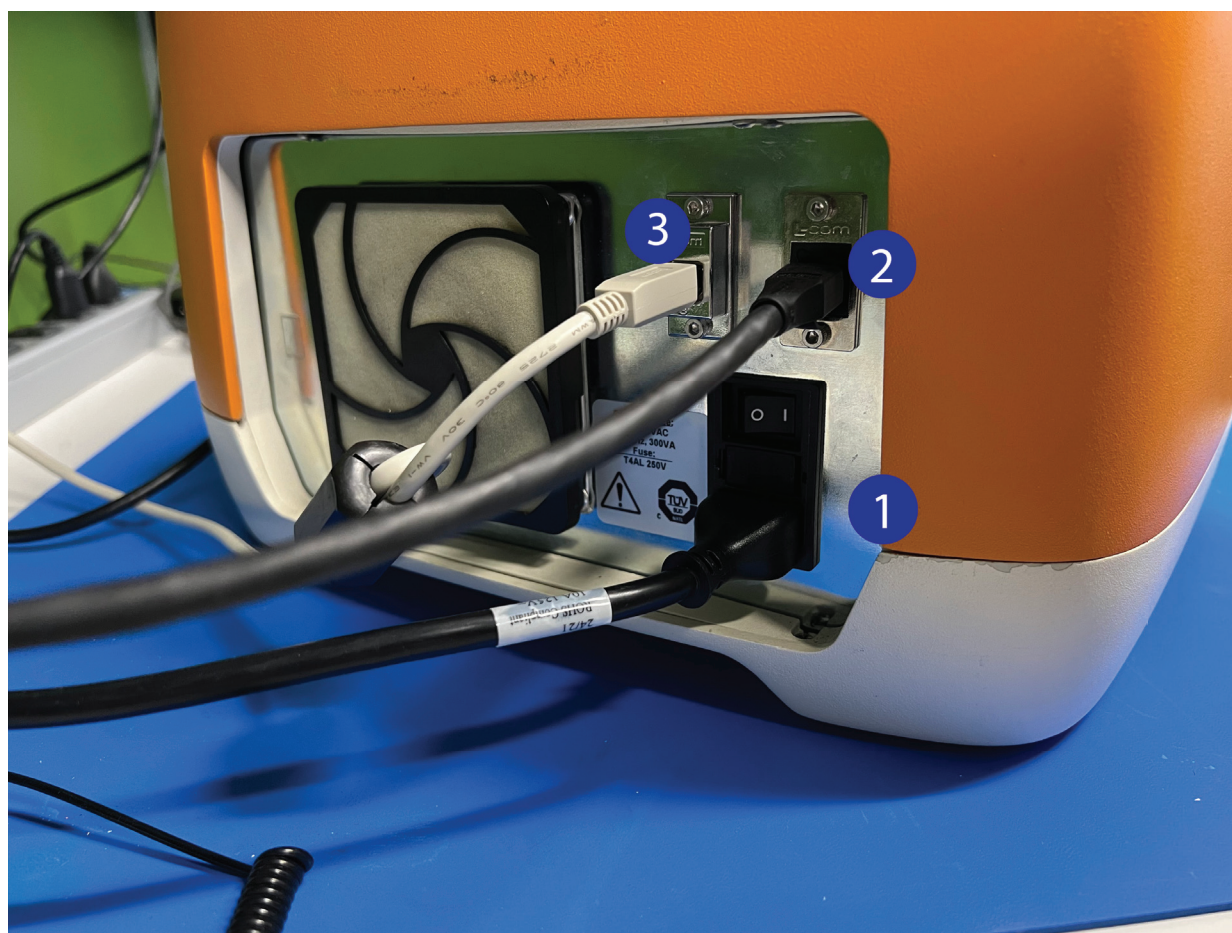# Interconnections: Ella to All-in-one PC

This document is provided to accompany Ella Automated Immunoassays Systems, Part Number 600-100, which are accompanied with an All-in-One PC configuration.

This document is intended to supplement the Simple Plex User Guide section titled: Interconnection: Ella to Computer.

Ella has three cables connected

1. AC Power Cable. This is used to supply AC power to Ella. The AC power cable shall have IEC 320 female connector on one end (Ella connection) and a country specific male plug on the other end. Power cables are to be UL listed and CSA certified with amp rating that meets the electrical specification of Ella.
2. Ethernet Cable (Black). This is for communication with the high-speed camera inside the instrument.
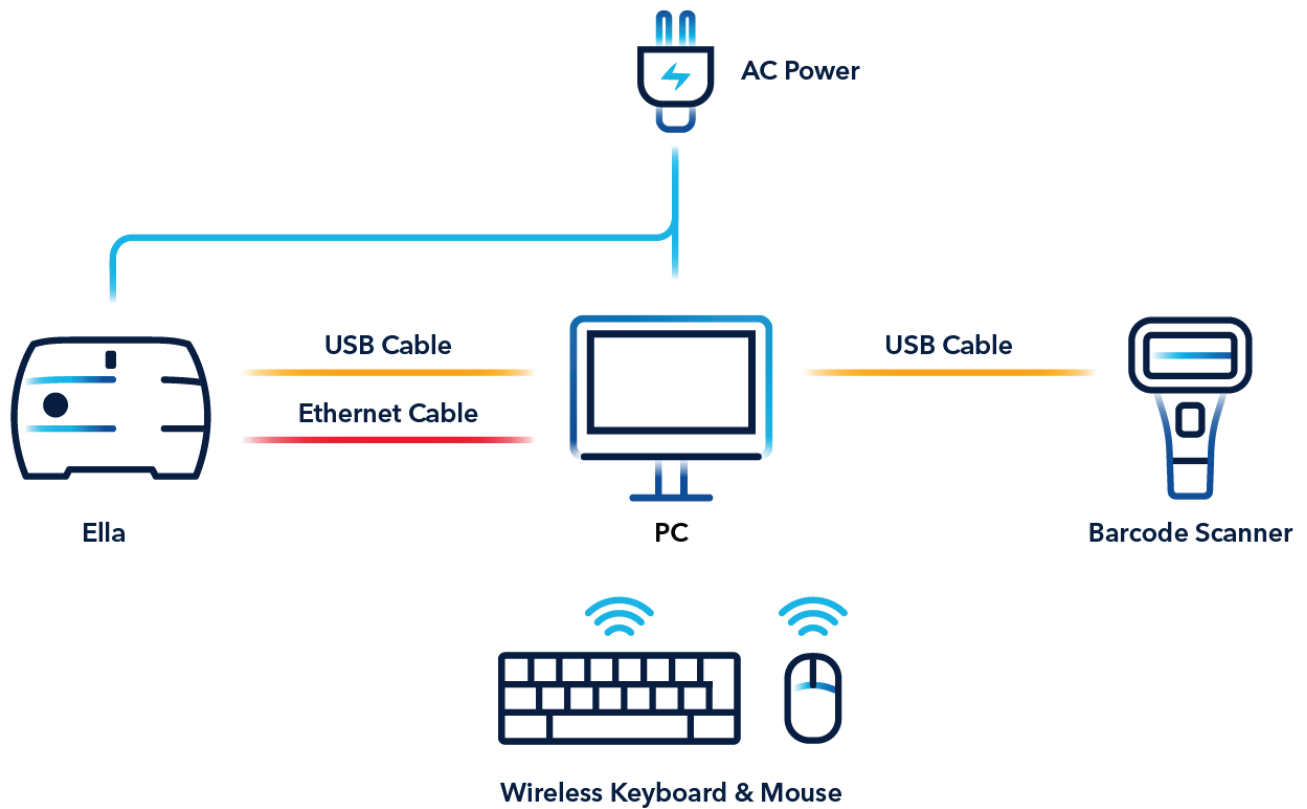3. USB Cable (White). This is for communication with all other capabilities of the instrument.

Figure 1-1: Ella Connections

For research use only. Not for use in diagnostic procedures.

Ella Connections

Follow the included instructions provided by the computer manufacturer to properly assemble the All-in-One PC. Use the guide below for interconnecting the Ella, PC, wireless keyboard, mouse, and barcode scanner.

Figure 1-2: Ella connections to PC as well as supporting peripherals.

Monitor Connections

In order left to right.

1. Unused HDMI ports (2).
2. Unused Display Port.
3. **Ethernet.** Connection to Ella.

    IMPORTANT: For proper instrument functionality, the Ethernet connection to the Ella must use this port.
4. **USB Port.** Connection to Ella using the provided white 0.6-meter USB-A to USB-B cable.
5. **USB Port (for LAN Ethernet).** Optional connection to LAN using included USB-A to Ethernet adapter.
    Note: *Your local network can also be connected via Wi-Fi.*

    IMPORTANT: Do not use this USB-A port with the adapter to connect to the Ella. For proper instrument functionality, the ethernet connection to the Ella must use the dedicated port as shown below as connection 3.
6. **USB Port.** Connection to Barcode Scanner. Listen for the confirming "beep, beep" when connected.
7. **USB Port for Keyboard/Mouse Receiver.** Connection to wireless mouse and keyboard.
8. **Power Input.** Connect power cable.

Figure 1-3: Monitor connections.

Additional Available Ports

Connections to ports on the bottom and right side of the monitor are as follows:

1. Unused USB-C Port.
2. Unused USB Port

Figure 1-4: Monitor bottom right view showing available USB-C and USB-A ports

Additional Images showing proper cable routing

Figure 1-5: Back and front views showing cables from the PC directed through the hole in the monitor stand.