Using Moku:Lab via USB

A guide to connecting to Moku:Lab without Wi-Fi or Ethernet

There are some situations, for example in a restricted lab environment or for radio interference reasons, where you may wish to use Moku:Lab without Wi-Fi or ethernet. This application note explains how to connect an iPad or PC to Moku:Lab via wired, USB connection. No wireless or wired ethernet network is required.

Connecting to an iPad

Moku:Lab supports USB connections through the micro-USB data port on the rear panel. The required cable depends upon the iPad connection; either Lightning or USB-C.

iPad with Lightning connector

To connect Moku:Lab to an iPad via Lightning, you will need both :
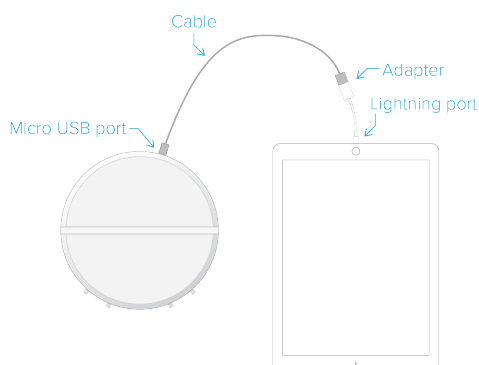
- **Lightning to USB Camera Adapter**

- **AND USB type A to micro B 2.0 cable**

This type of cable is commonly available and often used to charge cell phones.

Physical connection
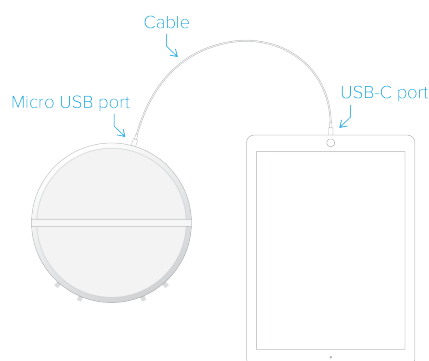

iPad with USB-C connector

To connect Moku:Lab to an iPad via USB-C, you will need :

USB-C to micro B 2.0 cable

This type of cable is less common but readily available at Amazon and other retailers.

Physical connection

Network connection

Once the iPad is connected to Moku:Lab via USB, the network connection appears as a USB/network connection to the iPad. This can be selected in the "Settings" panel of the iPad. Once selected, launch the Moku:Lab app on the iPad. You should now see your Moku:Lab appear in the 'Select your device' menu.

Connecting to a PC

Moku:Lab supports USB connections through the micro-USB data port on the rear panel.

What you'll need

To connect your Moku:Lab to a PC via USB you will need either a Micro-B to Type A USB cable, or a Micro-B to Type-C cable, depending on your PC.

Type A   Type C

USB 2.0 Type A to micro B type 2.0 cable

Most computers have come with at least one USB Type A port and will support a connection using a standard USB Type A to USB micro B 2.0 cable.
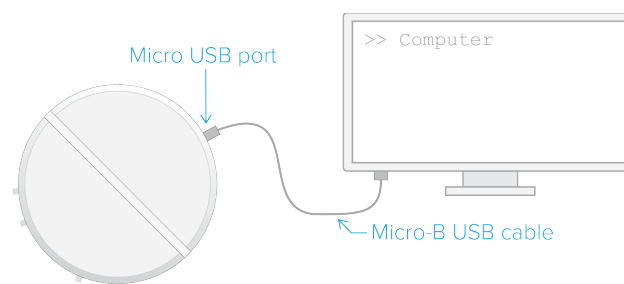
USB-C to micro B type 2.0 cable

Recent computers often come with USB Type C ports. If so, you will need a USB-C to USB micro B 2.0 cable:

Physical connection

When you have access to an appropriate micro USB cable, make the connection from the PC to the Moku:Lab.

Micro USB port

>> Computer

Micro-B USB cable

Network connection

Once you've connected the PC to Moku:Lab, you will need to enable the appropriate network adaptor in the PC's host operating system :

MacOS: select the USB/LAN RNDIS network adaptor in System Preferences -> Network

Windows: select the USB Ethernet/RNDIS under Control Panel -> Network and Internet -> Network Connections.

Questions or comments?

Please contact us at support@liquidinstruments.com