Disklavier Startup Manual

Conlon Collective

1. Send a MIDI signal

1.1 Using a USB cable

You can connect your laptop to the Disklavier via a USB-A to USB-B cable. The USB-B port is located underneath the middle of the sounding board in the Control Center Unit and is called 'to host'. USB-B ports are often used for printer cables and other devices.

USB-C If you're connecting with a converter from USB-A to USB-C cable, first plug in the USB-C adapter into your computer, and then plug the USB-A cable into the adapter!

1.2. DRIVER

To recognize the Disklavier as a USB midi device, you need to install the driver. Find it through Google ('Yamaha Disklavier Driver') or try this link:
https://europe.yamaha.com/en/products/musical_instruments/pianos/disklavier/enspire_pro/downloads.html ***

1.3 Using a MIDI cable

You can use an audio interface (i.g. MOTU, RME, etc) or a MIDI interface in order to send a midi signal. Just connect the MIDI-out from your interface to the MIDI-in port of the Disklavier.
**Note: One can't connect two connections at the same time. As soon as the USB cable is plugged into a laptop, the MIDI port connection will be lost.*

2. Using the Enspire mobile phone application

If you have a smart phone (iphone/android) you can download an application (ENSPIREController) from an app store (free download) and use it for additional control/setup information.

2.1 Connect to the Disklavier

In order to connect to the app and Disklavier, a network setup is needed.

a. Check the USB WiFi dongle on the Disklavier's Switchbox : The Switchbox is the device on the front-left of the Disklavier, under the bass strings. The WiFi dongle should be inserted into the Switchbox, with the WLAN switch set to AP(see the back of the Switchbox).
Turn on the Disklavier power by pressing the power button in the Switchbox while the dongle is plugged in.

b. In your smartphone, go to the WIFI setting and connect to the network 'DKV04A316AD4315' and open the Disklavier Enspire app on your smartphone.
The disklavier will show up on the list - then select it.

2.2 Volume control

See the 'speaker' icon on the right-bottom side of the screen. You can control the volume with this menu. The Switchbox volume controls velocities (just like the old volume button on the controller box). The on/off button works for the whole Disklavier.

2.3 Quiet mode

In the app, this Volume icon will direct you to the 'Balance' page, where you can choose either the Acoustic(normal)/Silent modes. If you set it to Quiet, then the pitches of the Disklavier keys will be muted.

You can also use Quiet mode manually by inserting a mini jack in the headphone input on the Switchbox

2.4 Turn off delay

The Disklavier has a delay time set as the default, because it prevents MIDI message overload. If you are just sending MIDI messages and have no other instrument/performer, then this can stay as it is. But if your piece is timing sensitive, and you'd like an absolute timing for MIDI messages (and in this case only the latency from your hardware/sofeware), you can turn this off: In the app, go to Settings>Connections>MIDI I/O and in the middle, delay turn off.

3. Useful information

3.1 Pedals

You can control Pedals with a MIDI signal as well, and they also send MIDI signals back via MIDI-out from the Disklavier.

- shift(left): Disklavier sends you/receives a MIDI ctl number 67, velocity from 0 to 127
- sostenuto(middle): Disklavier sends you a MIDI ctl number 66, velocity 0 or 127
- damper(right): Disklavier sends you/receives a MIDI ctl number 64, velocity from 0 to 12

3.2 Maximum number of voices

The maximum notes one can send at a time is 32.

3.3 Velocity sensitivity

The Disklavier doesn't have an absolute velocity value for every note as the key weights of low and high register are different. Accordingly, the low register needs a higher velocity value for a note to reach a certain level and vice versa. This question of dynamics is one that the user needs to experiment with for his musical needs, however there are limits to use the instrument safely and not damage the hammers, among other things.

3.4 Velocity Limits

There are five lights showing the volume on the front of the 'Switchbox'
The third blue light of the five is the volume limit we have found usable and safe.
The maximum midi velocity limit is 120.

3.4 Official Manual___Download link:

http://conlon.nl/files/DiskEnspire.pdf

****troubleshoot if the USB doesn't workIn case the "YAMAHA USB Device" does appear, but sending MIDI notes to it doesn't seem to do anything: check the MIDI I/O setting in theEnspire app. It has three modes: MIDI, USB, and auto. If it's set to MIDI it will ignore all midi data sent through usb.*