

## MIDI docs

# Novation Launchpad Button LED Matrix (BLM)

[Link to Forum Discussion](#)

Since firmware version 87, the SEQ V4 supports the use of two Novation Launchpads as a [BLM control surface](#). Two Launchpads form a 16×8+X BLM, and up to four can be connected to make a full 16×16+X control surface.

The Launchpad BLM is implemented as a feature of the JUCE-based BLM emulator software. The launchpads don't connect to the SEQ directly. Instead, they connect to a computer running the JUCE BLM emulator - the emulator software acts as a translator, converting the BLM Protocol sysex messages into midi signals to light the LEDs on the Launchpad, and translating button presses on the Launchpad into a format the SEQ can understand.

Support for button grid controllers other than the launchpad may be possible in the future.

## SETUP

### On The SEQ V4

1. If your SEQ is not running firmware version 87 or greater, download the latest [SEQ V4 firmware](#). Choose the right version for your MIDIbox Core.
2. Unzip the firmware, and upload the project.hex file version to your SEQ using [MIOS Studio](#).

Go to the **MIDI > Misc.** menu page on your SEQ V4. Set "BLM Scalar Port" to one of the USB Ports - I use USB4.

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