

# Adafruit UNTZtrument! Open-Source 8x8 Grid Controller Kit - 8x8 White LEDs

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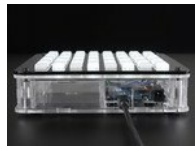
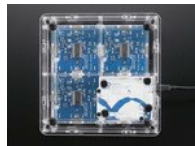
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DESCRIPTION

TECHNICAL DETAILS



# DESCRIPTION

Build and customize your very own open-source button grid controller based on the Adafruit Trellis with the UNTZtrument kit! Designed by PaintYourDragon, this DIY kit comes with delicious translucent button pads, controller pads, diffused white LEDs and a custom laser cut enclosure. The result is a sturdy and elegant but also super-hackable music or video (or something else???) controller device

We designed this kit for ease of use and ultimate flexibility. All you need is an Arduino Leonardo, basic soldering tools and an afternoon. Once assembled and programmed with the Arduino IDE, this box turns into a USB MIDI device that works with any computer and has 64 buttons with controllable LEDs. Our default example program sends a MIDI Note On and Off message for each button press but with a little programming ingenuity you can send and receive any kind of MIDI command. Since its USB MIDI it can work instantly with just about all synth software. Don't like MIDI? The Leonardo can also emulate a USB keyboard or plain old USB serial.

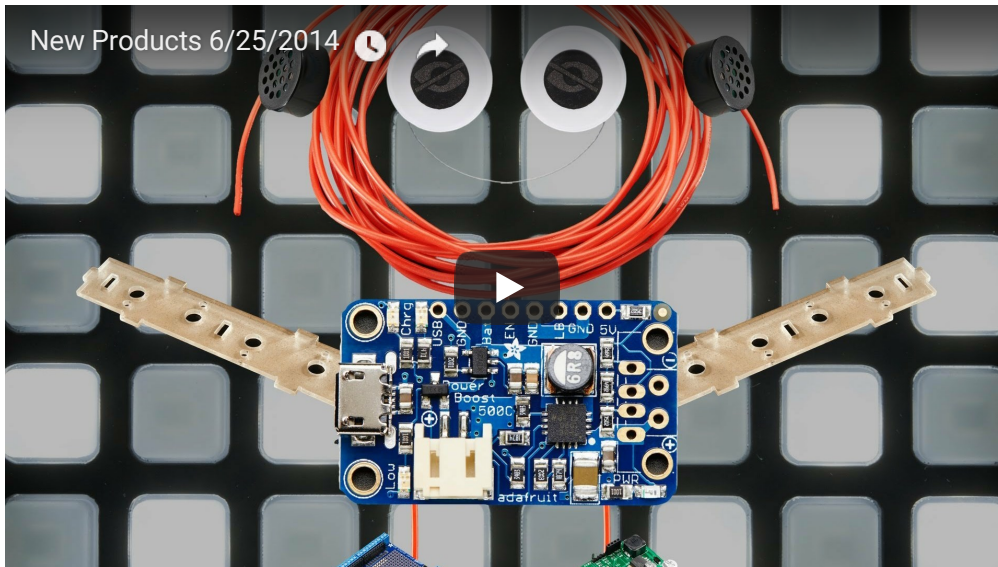
Since it's Arduino-powered, adding more stuff like accelerometers, potentiometers, rotary encoders, etc. is straight-forward and uses existing libraries available on the Internet. [If you want to add some knobs, rotary encoders or pots, check out the UNTZtrument accessory plate.](#)

Each order comes with:

- Four [Trellis control PCBs](#)
- Four [matching Trellis Elastomer button pads](#) - 64 total buttons
- An LED pack of [diffused white 3mm LEDs](#) - 70 total LEDs, so you have a couple extra.
- Custom designed laser-cut enclosure, clear body and black top

**You'll need to add:** [an Arduino Leonardo](#), some [22AWG solid core wire](#) (better than stranded but stranded will also work in a pinch), soldering iron & solder, basic hand tools, and a micro USB cable.

[Check out the assembly and usage tutorial for code, diagrams, instructions, files and more!](#)



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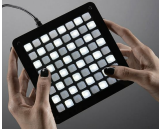
## TECHNICAL DETAILS

- Dimensions: 148mm x 148mm x 36mm / 5.8" x 5.8" x 1.4"
- Weight: 427g



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## LEARN

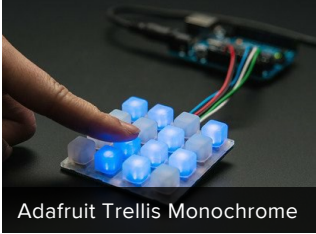


UNTZtrument: a Trellis MIDI Instrument  
UNTZ UNTZ UNTZ!



Wireless UNTZtrument Using BLE MIDI  
Use a Feather Bluefruit LE to make a Wireless UNTZ!

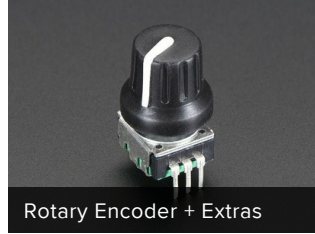
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Adafruit Trellis Monochrome



USB cable - USB A to Micro-



Rotary Encoder + Extras



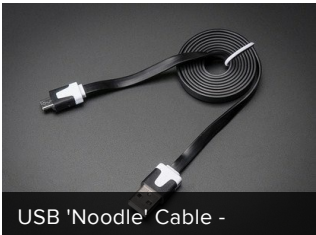
Hook-up Wire Spool Set -



Silicone Elastomer 4x4



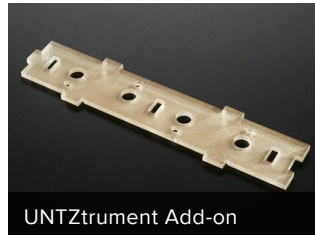
Panel Mount 10K



USB 'Noodle' Cable -



Right Angle USB cable -



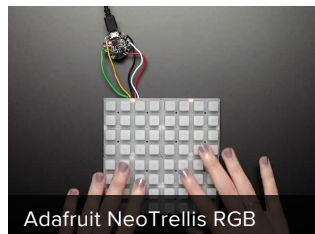
UNTZtrument Add-on



Adafruit HELLA



MintySynth Kit - 2.0



Adafruit NeoTrellis RGB

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*"...programming is more than an important practical art. It is also a gigantic undertaking in the foundations of knowledge" - [Grace Hopper](#)*



4.9 ★★★★★  
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