



Stream Cheap (Mini Macro Keyboard)



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Summary

This is a design for a "Stream Cheap", an inexpensive DIY version of the Elgato Stream Deck.

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Tags: [arduino](#) [keyboard](#) [cheap](#) [macro](#) [hid](#) [twitch](#)
[stream](#) [hotkey](#)

This is a design for a "Stream Cheap", an inexpensive DIY version of the Elgato Stream Deck. Although I made this to take the place of a Stream Deck, it's really a mini macro keyboard that can be used as a hotkey board for any program.

More info is available [on my website](#).

All design files are licensed as Creative Commons - Attribution - Share-Alike. The firmware for the Arduino is licensed under the more permissive MIT license.

Build Instructions

1. Print out both parts and tap the bolt holes in the base to fit an M3 bolt.

2. Insert the switches into the faceplate and wire them up. One post of each switch needs a signal wire, and all of the other posts are connected to ground.
3. Solder everything to the Arduino. The ground connection goes to "GND" and the signal wires go to pins 2 - 9. I numbered my buttons from left to right and top to bottom, but you can wire them in any order that you like. If you have the connectors, use those rather than making direct connections.
4. Bolt on the faceplate to the body.
5. Print out the button icons and apply them to the keycaps. Firmly press the keycaps onto the button stems.
6. Upload the firmware and enjoy!

Parts

Required:

- 5V Arduino Pro Micro
- 8 Cherry MX Switches
- 8 Relegendable Keycaps
- 2 M3-10 Bolts

You will also need a USB cable, wire, solder, and a piece of double-sided tape.

Optional:

- 9 Pin Female Connector
- 9 Pin Male Connector, Right-Angle

Category: Computer

Model files



streamcheap_base.stl



streamcheap_faceplate.stl

Other files



streamcheap.ino



streamcheap_icons.pdf

[Find source .stl files on Thingiverse.com](#)

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