

The Ultimarc Mini-PAC is simply a circuit board that links buttons to keyboard keys. It comes pre-programmed with the keys shown in the chart below. You can also change any of them you want (such as Vol+/-) using a configuration tool to map pin functions. Because it's essentially just a deconstructed keyboard it should work with any emulator on any OS, but it won't appear in any Joystick tool.

Site <https://www.ultimarc.com/control-interfaces/mini-pac-en/mini-pac/>
 Wiring Diagram https://www.ultimarc.com/images/Minipac_wiring.pdf



Linux Configuration Tool (works)

<https://github.com/katie-snow/QtPyUltimarc>

1. Install Ultimarc Configurator

Prerequisite library

```
$ sudo apt install libxcb-cursor0
```

Install the program

```
$ pip install ultimarc[ui]
```

To update

```
$ pip install --upgrade ultimarc[ui]
```

To force a reinstall

```
$ pip install --upgrade --force-reinstall ultimarc[ui]
```

2. Copy the required file into your machine's USB rules. Otherwise you'll get USB read errors.

<https://github.com/katie-snow/QtPyUltimarc/issues/44>

```
$ sudo cp /home/sysadmin/.local/lib/python3.10/site-packages/ultimarc/udev/95-ultimarc.rules /etc/udev/rules.d/
```

3. Change python to use the correct version that works with this tool.

```
$ pip install PySide6==6.5.0
```

4. Open the Ultimarc GUI Configurator.

Define each pin to whatever keyboard key/function you want. Make sure you document it so you can plug the cables into the correct buttons.

NOTE: the 'Write Device' button does work, but there's no feedback to say it worked, so you should open a second terminal and pull the config to see if your changes are being applied.

```
$ ultimarc-ui
```

5. You can also use CLI commands.

```
$ ultimarc mini-pac -h
```

Display the current config.

```
$ ultimarc mini-pac --get-config
```

```
$ ultimarc mini-pac --get-config --indent 2
```

Pull the current config and write it out to a readable file.

```
$ ultimarc mini-pac --get-config --indent 2 --file mini-pac-cfg.json
```

Windows Configuration Tool (works)

<https://www.ultimarc.com/winipacv2setup.exe>

Once the board is configured, and the sticks and buttons are connected, you can go into the Game Emulators and configure the controllers by mapping them to 'keyboard' functions.

https://docs.google.com/document/d/1wfwk4UPDjXRe5H1KdmgC6tZdNF8mK1qaDvxa_Gtuv6Q/edit?usp=drive_link