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/
https://www.ultimarc.com/images/Minipac_wiring.pdf

	Pin label	Default Key	Change to	Linked to
GREY 1 RIGHT	1 Right	Arrow right	Right	P1- stick right
USB PURPLE 1 LEFT 4	1 Left	Arrow left	Left	P1- stick left
BLUE	1 Up	Arrow up	Up	P1- stick up
GREEN 1 DOWN YELLOW 1 SW 1 ORANGE 1 SW 2	1 Down	Arrow down	Down	P1- stick down
VFILOW 1 SW 1 ORANGE 1 SW 2 CD	1 SW 1	Left Ctrl	E	P1- L1
RED 1SW3	1 SW 2	Left Alt	F	P1- L2
BROWN 1 SW 4	1 SW 3	spacebar	G	P1- R1
	1 SW 4	Left shift	Н	P1- R2
GREY 1 SW 5 PURPLE 1 SW 6	1 SW 5	Z	I	P1- Square
PURPLE 1 SW 6 BILLE 1 SW 7	1 SW 6	Х	J	P1- Triangle
BILE 1 SW7 GREEN 1 SW8 VELLOW START 1 OPANGE START 2	1 SW 7	С	К	P1- Circle
YELLOW START I	1 SW 8	V	Enter	P1- Cross
ORANGE STARTS	Start 1	1	1	P1- Select
RED COIN I	Start 2	2	2	P1- Start
BROWN COIN 2	Coin 1	5	Esc	Exit Game
	Coin 2	6	Bksp	Reset Game
GREY 2 RIGHT	2 Right	G	А	P2- stick right
PURPLE 2 LEFT C	2 Left	D	В	P2- stick left
BLUE 2 UP Q	2 Up	R	С	P2- stick up
BLUE 2 UP GREEN 2 DOWN YELLOW 2 SW 1 ORANGE 2 SW 2 D	2 Down	F	D	P2- stick down
VFILOW 2 SW 1 ORANGE 2 SW 2	2 SW 1	А	L	P2- L1
RED 2SW3	2 SW 2	S	М	P2- L2
BROWN 2 SW 4	2 SW 3	Q	N	P2- R1
	2 SW 4	W	0	P2- R2
	2 SW 5	I	Р	P2- Square
GREY 2 SW 5 PURPLE 2 SW 6	2 SW 6	К	Q	P2- Triangle
	2 SW 7	J	R	P2- Circle
GREEN 2 SW8	2 SW 8	L	S	P2- Cross
BLUE 2 SW 7 GREEN 2 SW 8 O	1 A	Р	3	P2- Select
	1 B	Enter	4	P2- Start
RED 2A	2 A	Tab	Vol Up	Volume +
BROWN 2B GROUND	2 B	Esc	Vol Down	Volume -
Unice w	Ground	Common wire		

Linux Configuration Tool (works)

https://github.com/katie-snow/QtPvUltimarc

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/1wfkw4UPDjXRe5H1KdmgC6tZdNF8mK1gaDvxa Gtuv6Q/edit?usp=drive link