



KNULLI

USER MANUAL

Welcome to Knulli!

Knulli is a custom firmware for retro-gaming handheld devices. It comes with a lot of different well-integrated emulators and ports and a lot of additional features like PortMaster, RetroAchievements, and a built-in scraper! Revisit your favorite retro games or take your favorite indie games with you when you leave the house!

However, we do not condone piracy. If you want to play with Knulli, you must own the games you play!



Batocera

Knulli is a fork of Batocera Linux. It comes with all your favorite Batocera features!



EmulationStation

No need to learn how to set up every system individually. You will find all the options you need in the Knulli GUI.



Peripherals

If your device has an HDMI port, Knulli supports playing on the big screen - with Bluetooth and USB controllers!



Open Source

Knulli is an open source project! Our work is freely available on GitHub. Feel free to contribute – we accept pull requests!

Controls: Video, Audio & Power



Video/Audio

VOL. +	Increase volume
VOL. -	Decrease volume
★ + VOL. +	Increase brightness
★ + VOL. -	Decrease brightness









Power

POWER (3 sec.)	Shutdown (autosave if available)
POWER (tap)	Sleep mode
RESET	Hard reset (emergency only!)





Controls: Menus & Settings



Navigation

 or  / 	Prev. / next system
 or  / 	Prev. / next manufacturer
	Select / confirm
	Back / cancel

Menu Controls

	Main menu
	Quick access menu
 (tap)	Quick search menu
 (hold)	random system

Controls: Game Collection/System



Navigation

	Previous / next game
/	Jump up / down in games list
or /	Previous / next system
(tap)	Launch game
(hold)	Game options menu
	Back / cancel

Actions

	Main menu
	System options menu
(hold)	Add game to favorites
(tap)	Quick search menu
(hold)	Go to random game



Controls: In-Game Hotkeys (for most systems)



Actions

★ + START	Exit game
★ + B	Open emulator menu
★ + A	Reset emulator
★ + L1	Take a screenshot
★ + R1	Auto translate
SELECT	Add credit (arcade games)
★ + SELECT	Use d-pad as analog stick (only for devices without sticks)

Save & Load

★ + 	Next / previous save slot
★ + 	Rewind / fast forward
★ + Y	Quick save to current slot
★ + X	Quick load from current slot

Controls: In-Game Hotkeys (Drastic NDS)



Additional NDS controls

L2	Swap first / second screen
★ + L2	Switch dual / single screen
Left analog stick	Move touch cursor
R2	Touch cursor click
★ + R2	Microphone input

Netplay



Netplay is a feature enabled by RetroArch and some libretro cores to play games with multiple players over the network. If you want to play Double Dragon on NES with your buddy who sits several miles away from you... using netplay you can play both as Player 1 and Player 2 over the Internet, like if you were both playing on the same console, sitting next to each other.

PortMaster



PortMaster is a management tool which allows to download and install a huge number of video game ports on Linux-driven handheld devices. The PortMaster library contains ports of many commercial retro games and indie games which have been ported to run natively on your handheld device. (Be aware that you need to provide your legally obtained original game files in order to play commercial games.) Additionally, PortMaster brings a ton of free open-source ready-to-run games you can simply install and play!

RetroAchievements



Knulli offers support for RetroAchievements allowing you to earn custom-made achievements in classic games through emulation. By registering your RetroAchievements account, password, and API key, you can play and unlock achievements by completing various challenges. Start hunting for achievements now and compare your achievements with your friends!

Built-in Scraper



Knulli integrates a built-in image scraper, which helps you organize the system interface by downloading the metadata of each game, as well as all the images and videos of the games you have. Easy and simple, just add your user account and password, choose the systems you want to recover the media, and voila... everything will be downloaded automatically.