"Listen and you may find that you are silence yourself."

Pentatonic Permutations Player
Welcome to a new and amazing sound experience. Listen. Calm down. At home, in the office or in a Yoga class. An acustic home on the go. Connect with friends mentally.

Pentatonic Permutations is an algorithmic piano composition that started 14 billion years ago and will continue another 16 trillion years, tagging every moment of time. After the last permutation the piece will stop.

Pentatonic scales of prime number length are constantly phase shifting, creating narrations. Fragments of melodies appear and disappear. Out of the possible scales 1-4-2-3-2 was selected. All synchronized players are playing the same part of the composition.

The first limited and signed edition of 26 (+ 3) pieces of the Pentatonic Permutations Player is based on a Raspberry Pi, a DCF77 time signal receiver, a highly efficient stereo class-D audio amplifier, two broadband speakers and natural piano samples, converting time to music.

The player is completely independent of internet or wifi.

Specifications
Polystyren case
Weight 570 gr. (20 oz)
Size 190 x 42 x 152 mm (7.5 x 1.65 x 6 inches)

A power supply with a Europlug is included (100 – 240 Volt AC, 50/60 Hz), consuming typically less than 2,2 Watt.

2x6 Watt audio peak power with volume control are enough to fill a room.

Stereo line output with 3.5mm audio jack. The line output is independent of the volume control.

Shutdown button with indicator LED next to button.

Time receiver indicator LED marked "LF" for DCF77 on 77.5 kHz. The LED should flash every second for 0.1 or 0.2 seconds except on full minutes. Extremely accurate real-time clock.

Location
Find a map if necessary. Orient the longest side of the player 90 degrees to Mainflingen near Frankfurt, Germany. The signal can be received all over Europe.

Power up
Connect the power supply to the player. It takes about a minute before the player is synchronized and sound can be heard. Sometimes there can be pauses in the composition.

Power down
Press the black button and the LED markes "Ready" next to it will flash and go off after a few seconds. Wait another 10 seconds before you unplug the power. If you want to restart the player, unplug the power and plug it in again. Do not unplug the player without the power down button, in rare cases the internal SD card can be damaged.

Transportation
Unplug the power connector to avoid damage of the jack and the computer inside.

Some Hints
The player is working without the time signal but might be slowly getting out of synchronisation with other players. The internal clock is more accurate than one second per week.

Locate the player away from switching power supplies (like the one used here) for good reception of the time signal.

The player can be powered from any micro-USB adapter with 1500 mA rating or from external battery packs for cell phones if no electricity is available. Make shure to power down the player before the battery runs out.

Use black tape to cover the LEDs if they are too bright.

Website
Story, artist, events, resources, order form and the free browser version: www.pentatonic-permutations.de

Contact
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Specifications are subject to change without notice. Version 20221003