



“Listen and you may find that you are silence yourself.”

Pentatonic Permutations Player

Welcome to a new and amazing sound experience. Listen. Relax. Calm down. At home, in the office or in a Yoga class. An acoustic home on the go. Connect with friends.

Pentatonic Permutations is an algorithmic piano composition that started 13,799 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 using the Indian/Japanese scale 1-4-2-3-2. All players are playing the same part of the composition.

The first limited and signed edition of 100 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 samples of a Steinway Model-B piano, converting time to music.

The player is 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.

2x3 Watt audio output power with volume control is enough to fill a room. Turn the volume control fully counterclockwise to switch off the amp.

Stereo line output with 3.5mm audio jack (“AV”). The line output is independent of the volume control.

Shutdown button with indicator LED (“Ready”, red) next to button (“Shutdown”).

Time receiver indicator LED (“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 (“5V/1.5A”). It takes about a minute before a sound can be heard. Sometimes there are pauses in the composition. The player is fully synchronized when the “Ready”-LED stops blinking.

Power down

Press the black button and the “Ready”-LED 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 shutdown 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 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.

Receivers for other time signals are in preparation (JJY-Japan, MSF-UK, WWVB-USA).

The player can be powered from any micro-USB adapter with 1.5 A 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

News, events, updates: www.pentatonic-permutations.de

Contact and Order Information

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Specifications are subject to change without notice. Version 20180103