

## PROTEO Quickstart manual.

*Hi, thank you for purchasing PROTEO.*

*This sheet is intended to be a quick view of the module. For a more detailed guide please refer to the online manual over the dedicated page at [clank.eu](http://clank.eu)*

**[1] Freeze gate ins.** When a gate is sent to these inputs, the acquisition process of each channel is momentarily frozen and the wavetable is locked.

*The two trigger inputs are normalized from left to right. Inserting a cable in the right channel trigger input will break the normalization.*

**[2] Time CV in (0-8V).** Acquisition time can be controlled from outside with this input.

**[3] Preamp inputs (0-8v).** To start feeding signals into Proteo's acquisition engine patch any kind of source here .

*The two inputs are normalized from left to right. Beside being thought for unipolar CVs, inserting bipolar signals here is still possible without damaging the acquiring path.*

**[4] Speed CV (0-8V).** If a patch cable is inserted here, the playback speed can be altered from outside.

**[5] Time CV attenuverter.** This dial works in direct connection with the *Time* knob [6] and permits to attenuate or invert the CV coming from *Time CV in* [2].

**[6] Time.** This control changes the acquisition speed. Thinking at it as a virtual tape loop, you can take a bigger "window" by recording longer fragments at slower speeds (turning CW) or maybe just capture a small detail by recording it at faster speeds (CCW).

**[7] 2ch. Oscilloscope.** This two section display shows exactly what's the waveform coming out from each oscillator output.

**[8] Outputs.** Being a stereo oscillator, Proteo has two separate outputs. The right oscillator, by default, is tuned 1 octave below the left one.

**[9] V/oct input (0-7V).** Both oscillators are tied together by the same pitch and volt/octave control. The right one ranges from C1 to C8 and can be considered as the "master" oscillator.

**[10] Span CV in (0-8V).** Use this CV to alter the detuning of the right oscillator.

**[11] Morph CV in (0-8V).** Use this CV to change the *Morph* [15] percentage from outside.

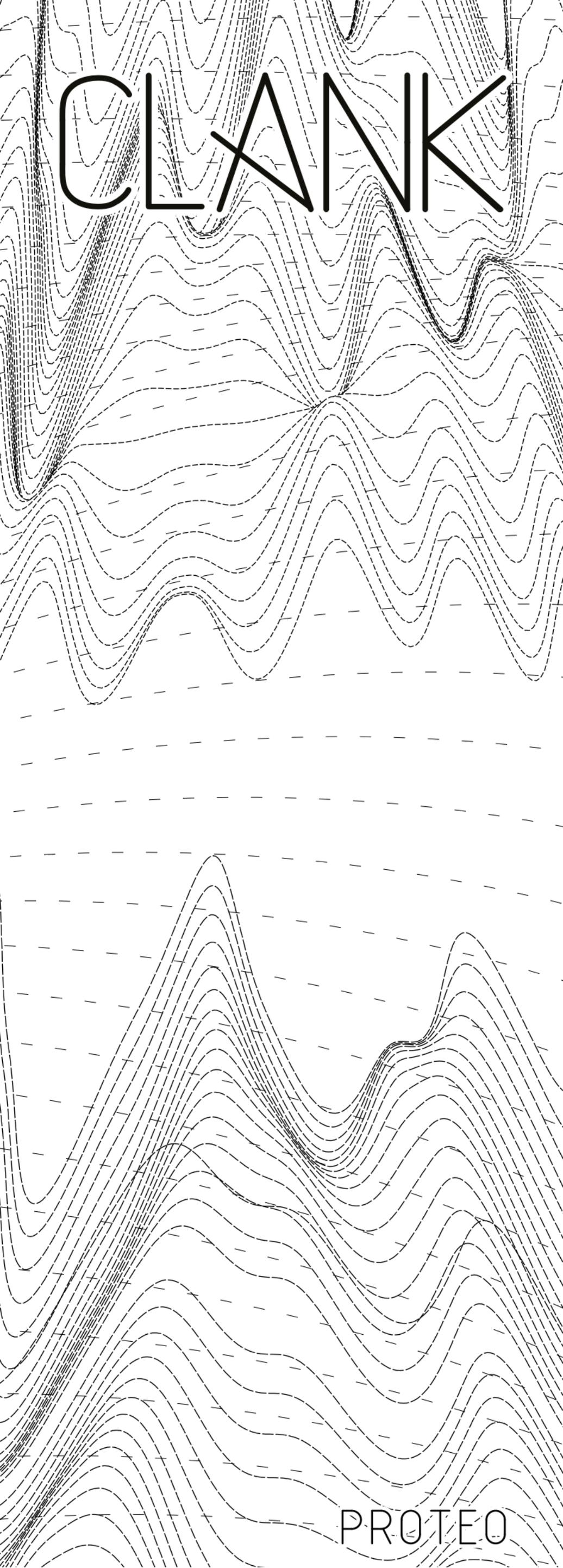
**[12] Span.** The right oscillator by default (with this dial at 12 o'clock) is tuned 1 octave below the left one. When turned full CCW it can go down to -4 octaves while, when turned fully CW it can go 1 octave above the left one. Making 5 octaves in total of span.

*When a cable is patched into the Span CV in [10] this control become an attenuverter of incoming CV.*

**[13] Freq.** Use this two controls to adjust the whole intonation.

**[14] Morph.** Having a continuously evolving waveform with a lot of harmonics can make hard to understand wich note is coming out from Proteo outputs. That's why both channels can be blended with a sinewave (faders at zero).

**[15] Freeze buttons.** Each channel can be frozen manually by pressing these buttons. In this case they work in latching mode.



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