

2hp – Pitch

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2hp Pitch – Cheat Sheet

Overview

2hp Pitch is a compact Time Domain Pitch Shifter module for Eurorack with built-in Wow & Flutter modulation. It allows shifting of pitch (± 2 octaves), modulation of pitch "instability," and wet/dry mixing. Ideal for creative audio processing, lo-fi effects, and harmonization.

Inputs, Outputs & Parameter Summary

Name	Type	Voltage Range	Description
Audio Input	IN	10Vpp	Main audio signal input (patch audio here to be pitch shifted).
Audio Output	OUT	-	Main processed audio signal output.
W&F CV Input	CV IN	+5V	Voltage control for Wow & Flutter depth (modulates instability).
		+5V	Voltage control for dry/wet blend.

Name	Type	Voltage Range	Description
Mix CV Input	CV IN		
1V/OCT Input	CV IN	+5V	Standard 1V/oct pitch input; extends pitch shift control externally.

Knob / Control Summary

Name	Position	Function
W&F Knob	Fully CCW → CW	Controls wow & flutter random modulation depth. CCW = none, CW = maximum.
Mix Knob	Fully CCW → CW	Mixes between dry (CCW) and wet (CW) signal. Any blend allowed in-between.
Pitch Knob	CCW, Noon, CW	Shifts pitch -2 octaves (CCW) to +2 octaves (CW). Noon = no transposition.

Performance Tips

- **Combine VCO:** Create harmonies from a single oscillator by pitch shifting and mixing both.
- **Layer with Loop:** Add tape-style warble to loopers or harmonize sampled material.
- **Use with Play:** Send in drum loops/samples, pitch shift for unexpected timbral changes.
- **Lo-fi Combo with Freez:** Combine Freez and Pitch for ultra-lo-fi, modulate both for unique artifacts.

Voltage Reference

- **W&F CV Input:** 0–+5V
 - **Mix CV Input:** 0–+5V
 - **1V/Oct Input:** 0–+5V (tracks one octave further than the knob range in either direction)
 - **Audio Input:** ±5V (10Vpp typical Eurorack synth audio levels)
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Installation Notes

- Align red stripe of power cable with white marker on PCB.
 - Module width: 2HP. Depth: 45mm.
 - Power: +12V 78mA, -12V 9mA
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What is Wow & Flutter?

- **Wow & Flutter** is a modulation effect simulating pitch instability due to tape/turntable irregularities, lending warmth or 'lo-fi' character.
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More info: twohp.com/modules/pitch

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