2hp — Tune

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[2hp Tune Manual PDF](#)

2hp Tune Cheat Sheet

2hp Tune is a voltage quantizer that snaps incoming CV signals to musical scales with selectable root and bias.

Jacks

Jack	Function	Voltage Range
Input	CV signal to be quantized	0V to +5V
Bias CV In	CV to modulate BIAS knob	0V to +5V
Output	Quantized V/Oct CV output	0V to +5V

Knobs and Controls

Control	Function
Scale Knob	Selects which musical scale to quantize to (see LEDs for indication).

Control	Function
Bias Knob	Adjusts the root note position within the scale (completely left = root, completely right = last note).

LEDs

- Indicate the selected scale:
- **MAJ** = Major or Major Pentatonic
- **MIN** = Minor or Minor Pentatonic
- **HRM** = Harmonic Minor or Egyptian Minor
- **WHL** = Whole Tone or Octatonic (0,2)
- **DIM** = Diminished or Octatonic (0,1)
- **All LEDs ON** = Chromatic

Scales and LED Indications

Scale	LED Indication
Chromatic	All LEDs
Major	MAJ
Major Pentatonic	MAJ,
Minor	MIN
Minor Pentatonic	MIN,
Harmonic Minor	HRM
Egyptian Minor	HRM,
Whole Tone	WHL

Scale	LED Indication
Octatonic (0, 2)	WHL,
Diminished	DIM
Octatonic (0, 1)	DIM,

Quick Usage Steps

1. **Patch** CV source into **Input**.
2. **Patch** quantized output from **Output** to oscillator/VCA/etc.
3. Use **Scale Knob** to pick a scale (LEDs show which).
4. Use **Bias Knob** to select the scale's root note (full left = lowest, full right = scale rotated to highest note as root).
5. Optionally patch modulation into **Bias CV In** for voltage control over root note (0V–5V).

Other Info

- **Module Width:** 2HP
- **Power Draw:** +12V 40mA / -12V 3mA
- **Depth:** 45mm

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