Shakmat — Dual Dagger

• [Manual PDF](#)

👉 **[Shakmat Dual Dagger Manual (PDF)](#)**

Shakmat Dual Dagger Cheat Sheet

Type: Dual Stereo (4-pole) Filter / Stereo Bandpass
Size: 6HP | **Depth:** 29mm | **Power:** +12V: 65mA, -12V: 80mA
Audio Input Range: ±5V

Panel Controls & I/O Reference

Knobs/Potentiometers

- **A. LPF:** Low-pass filter cutoff (stereo)
- **C. RES:** Resonance (assignable: LPF, HPF, or both)
- **F. HPF:** High-pass filter cutoff (stereo)

Switches

- **B. LINK:** Links filters for stereo bandpass mode
- **D. LPF Resonance Switch:** Assigns resonance control to LPF
- **E. HPF Resonance Switch:** Assigns resonance control to HPF

CV Inputs *(all DC coupled)*

Label	Function	Voltage Range
1 (LPF)	LPF cutoff CV	-5V to +5V
2 (RES)	Resonance CV	-5V to +5V
3 (HPF)	HPF cutoff CV	-5V to +5V
4 (PANLP, PANHP)	Panning LPF/HPF cutoff CV	-5V to +5V

- **PANLP:** Offsets L/R LPF cutoff in opposite directions with voltage
- **PANHP:** Offsets L/R HPF cutoff in opposite directions with voltage

Audio Inputs & Outputs

Label	Function	Voltage Range
IN1	Audio Input 1 (L)	-5V to +5V
IN2	Audio Input 2 (R)	-5V to +5V
OUT1	Audio Output 1 (L)	-5V to +5V
OUT2	Audio Output 2 (R)	-5V to +5V

Quick Start

Filtering Basics

- **LPF/HPF knobs:** Adjust stereo low/high-pass cutoffs.
- **RES knob:** Control filter resonance. Assign to LPF, HPF or both with toggle switches.

- **LINK switch:** Engaged = bandpass mode. HPF = band edge (start freq), LPF = bandwidth.

Voltage Control

- All primary functions (LPF, HPF, RES, PANLP, PANHP) are voltage controllable with ±5V.
- PAN inputs let you offset cutoff oppositely on L/R for powerful stereo effects.

Stereo Bandpass

- **LINK on:** HPF cutoff is lower band edge, LPF sets bandwidth. Resonance applied at band edges via switches.

Resonance Jumpers (on rear)

- **"Lo":** Safer (no self-oscillation)
- **"Hi":** Allows self-oscillation (VCO uses!)

Essential Patch Ideas

- **Stereo Filtering/Animation:** Standard stereo filtering and animated stereo panning via PAN inputs.
- **Double Peaks:** Mono in, both outs mixed = double peak filter. PAN controls separation between peaks.
- **Sine VCO:** One channel can self-oscillate as a sine VCO (in Hi jumper mode).
- **Kick Drums:** Envelope FM the cutoff for snappy drum sounds.
- **Mid/Side Filtering:** Combine with M/S modules (e.g. Shakmat SumDif) for creative stereo processing.

Summary Table

Control/Jack	Function	Voltage Range
A. LPF	LPF cutoff knob (stereo)	Manual & CV (-5V/+5V)
B. LINK	Bandpass mode toggle	-
C. RES	Resonance knob	Manual & CV (-5V/+5V)
D. LPF Res SW	LPF resonance assign	-
E. HPF Res SW	HPF resonance assign	-
F. HPF	HPF cutoff knob (stereo)	Manual & CV (-5V/+5V)
1. LPF	LPF cutoff CV in (stereo)	-5V to +5V
2. RES	Resonance CV in	-5V to +5V
3. HPF	HPF cutoff CV in (stereo)	-5V to +5V
4. PANLP/PANHP	Pan LPF/HPF offset (L/R)	-5V to +5V
5. IN1, IN2	Audio inputs	-5V to +5V
6. OUT1, OUT2	Audio outputs	-5V to +5V