

# Tiptop Audio – MISO

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- Manual PDF
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[Tiptop Audio MISO Manual \(PDF\)](#)

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## Tiptop Audio MISO Eurorack Cheat Sheet

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### MISO = Mix, Invert, Scale, Offset

Utility module for manipulating and combining up to four signals (audio or CV). Two identical sections (Top: 1+2, Bottom: A+B) plus voltage-controlled crossfader.

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## Inputs, Outputs & Controls

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Jack/ Control	Section	Function	Voltage Range
1 IN	Top (Channel 1)	Signal input	±10V
2 IN	Top (Channel 2)	Signal input	±10V
A IN	Bottom (Channel A)	Signal input	±10V
B IN	Bottom (Channel B)	Signal input	±10V

Jack/ Control	Section	Function	Voltage Range
OUT 1	Top (Channel 1)	Channel 1 processed output	±10V
OUT 2	Top (Channel 2)	Channel 2 processed output	±10V
OUT A	Bottom (Channel A)	Channel A processed output	±10V
OUT B	Bottom (Channel B)	Channel B processed output	±10V
1+2 OUT	Top	Mix of Top channels (1+2) after processing	±10V
A+B OUT	Bottom	Mix of Bottom channels (A+B) after processing	±10V
CV	Center	Crossfade control voltage input	±10V (center = 0V)
Σ (Sigma)	Center	Final Crossfader mix output	±10V

**Knobs:** - Scale/Invert Knob (each channel):

Adjusts gain and inverts signal (center is unity/no invert, left = inverted, right = positive gain) - **Offset Knob (each channel):**

Adds DC voltage (±10V max) to processed signal - **Crossfade Knob (center):**

Manual control of the crossfader (blends between Top and Bottom sections, or can be modulated by CV)

**Indicators:** - LED on Mix Out (1+2 & A+B):

Yellow = positive voltage, Red = negative voltage

# Quick Reference Summary

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- **Each section has two independent channels:** 1/2 (Top), A/B (Bottom).
  - **Each channel offers:**
    - Input jack (accepts CV or audio)
    - Scale/Invert knob: adjusts gain and polarity
    - Offset knob: adds constant voltage
  - Output jack
  - **Mix Out:** Outputs the sum of both channels within the section
  - **Crossfader:** Blends between Top and Bottom mixes, modulated by center CV or manual knob
  - **Sigma ( $\Sigma$ ) Output:** Final crossfader output
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## Typical Patch Examples

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- Offset generator: Leave input unpatched, use Offset knob to manually create CV
  - Attenuverter: Use Scale/Invert knob to adjust level and invert, pass signal through channel
  - Mixer: Use both inputs in a section, summed at Mix Out
  - CV crossfade: Send two different modulations into 1+2 and A+B, crossfade between them (manual or CV)
  - Complex LFO shaping: Mix and morph LFO shapes using scale, offset, and crossfader
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## Power & Specs

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- **Size:** 10HP, Depth: 42mm
  - **Power:** +12V 55mA / -12V 55mA
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