

Tiptop Audio – MODFX FSU

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[Official Manual PDF \(Tiptop Audio ModFx & FSU\):](#)

Tiptop Audio ModFx & FSU – Cheat Sheet

ModFx and FSU are 8hp digital multi-effects modules for Eurorack. Each module features **3 major effect banks**, each with 8 programs, for deep but immediate modulation, filtering, chorus, distortion, glitching, and looper-style sound design.

Panel & Controls Reference

JACKS

Jack	Description	Type	Voltage Range
L IN	Left Audio Input	Audio Mono	±5V expected
R IN	Right Audio Input	Audio Mono	±5V expected
L (MONO) OUT	Left / Mono Audio Output	Audio Mono	±5V typical output
R OUT	Right Audio Output		

Jack	Description	Type	Voltage Range
		Audio Mono	$\pm 5V$ typical output
CV 1	CV to first parameter (see below)	CV Input	0–5V (unipolar), $\pm 5V$ safe
CV 2	CV to second parameter	CV Input	0–5V (unipolar), $\pm 5V$ safe
CV 3	CV to third parameter	CV Input	0–5V (unipolar), $\pm 5V$ safe
FIDELITY CV	(Shared) Analog clocking (low-level control over DSP rate)	CV Input	0–5V

MAIN CONTROLS

[BOTH MODULES – ModFX + FSU]

Knob/Button	Function	Voltage Control
Rate	Speed of LFO, modulation rate, playback speed, etc	CV1
Filter/Fdbck	Filter cutoff, feedback amount, tuning, or other function	CV2
Depth	Depth of modulation, feedback, chorus range, etc	CV3

Knob/Button	Function	Voltage Control
Fidelity	DSP clock / LoFi effect / affects buffer length & character	CV (label-specific)
Mix	Dry/Wet balance (manual only)	–
Bank Buttons (3)	Select program banks (illuminated, labeled by mode)	–
Program Select	Push buttons to select one of 8 programs per bank	–

[FSU ONLY]

Control (FSU)	Function	Voltage Control
Gain	Output level (Distort bank), Record level (SOS bank)	Replaces "Rate" in some modes
Drive	Distortion/Input gain in Distort bank	(sometimes replaces "Depth")

[MODFX ONLY]

- **No unique extra controls** – all labeled as above according to effect.
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BANKS AND EFFECTS

MODFX

- **Chorus:** 8 types (classic, ensemble, stereo, vibrato, random)

- **Flanger/Karplus**: stereo flange, tape/zero, Karplus-Strong, chord resonator, Haas panning
- **Filter/Phaser**: 12-stage phaser, bandpass LFO, tape/drive, tremolo pan, formant ping-pong, vowel/ahh

FSU

- **Distort**: tape saturation, bit crusher, clipper, rectifier, ring mod, freq shift (mono/dual)
- **Glitch/Warp**: random pitch, glitch chorus, varispeed, granular, grains w/ feedback
- **Sound on Sound (Looper/Granular)**: dual head, dual pitch, chorus scrub, varispeed, panning, buffered degrade, frozen plate

Each bank has 8 programs; see manual for full parameter assignment per effect.

VOLTAGE/CV INPUTS (per function)

Parameter	Typical CV Range	Effect (all banks/settings)
Rate/Gain	0–5V unipolar	LFO speed, playback speed, effect rate, gain input/output
Filter/ Fdbck	0–5V unipolar	Filter cutoff, feedback amount, Q, feedback level
Depth/Drive	0–5V unipolar	Amount of modulation, distortion, detune, pitch
Fidelity	0–5V unipolar	Lowers clock for lo-fi, longer buffers on loopers

CV inputs typically expect 0–5V; -5V to +5V is tolerated but may invert or fold control ranges at extremes.

BUTTONS (MODFX/FSU)

- **Bank Buttons:** Choose current effects bank ([Chorus/Flanger/Filter] or [Distort/Glitch/SOS]).
 - **Program>Select:** Illuminated selectors, change active program.
 - **SOS Shift/Hold:** Hold to clear or reload SoS buffer (FSU only).
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USING THE MODULE

1. **Power Up and Patch Audio:**
 2. Patch L/R IN to your audio source and OUT to mixer/speakers.
 3. **Bank & Program Select:**
 4. Use illuminated buttons to pick an effect bank, then select desired program.
 5. **Adjust Main Controls:**
 6. Rate, Filter/Fb, Depth, Mix (and Fidelity) shape the effect (see per-effect mapping, many are intuitive).
 7. **Patch CV for Modulation:**
 8. Send LFO, Envelope, Sequencer, etc. to any CV input to animate parameters in real time. 0–5V recommended.
 9. **Experiment with Fidelity CV:**
 10. Lower audio fidelity for lo-fi, pitch, and buffer time changes.
 11. **Set Mix:**
 12. For most Distort, Looper, Glitch programs, set to 100% wet. For Choruses/Flangers, try 50/50 or 100% wet.
 13. **Monitor LEDs/Buttons:**
 14. Bank selection will be color/LED-indicated.
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QUICK TIPS

- **FSU Looper (SoS) buffer can clear:** Change preset for reset, or hold SoS button to clear in place.
- **Karplus/Flanger likes short, percussive inputs.**
- **Vowel and formant programs want harmonically rich sources (saw, square, etc).**

- Fidelity knob or CV can radically transform the feel of most effects.
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