Intellijel — Metropolix

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Intellijel Metropolix — Eurorack Sequencer Cheat Sheet

Highly performance-oriented **8-stage, dual-track pitch/gate/ clock MOD sequencer** with deep hands-on and CV control.

Quick Reference Table

Section	UI Element	Functionality / Details
Jacks	**TRACK 1 PITCH OUT** (D)	1V/Oct pitch (default: TRK 1). Swappable. 0−+5V typical.
	TRACK 1 GATE OUT (E)	Gate output (0V = off, +5V = on). Swappable.
	TRACK 2 PITCH OUT (F)	1V/Oct pitch (default: TRK 2), swapped as above.
	TRACK 2 GATE OUT (G)	Gate (0/+5V), swappable as above.
	CLOCK OUT (C)	Clock out, division settable, 0V low, +5V trigger.

Section	UI Element	Functionality / Details
	A OUT / B OUT (A/B)	User-assignable: CV, MOD, gates, velocity, clock, trigger, etc. -5V to +5V range.
	CLOCK IN (H)	External clock, expects trigger/gate. +1.5V min, typically 0/+5V (range -5V to +5V OK).
	RESET IN (I)	Resets sequence (trig), reassignable as RUN input. +1.5V = trig/gate (0−+5V typical).
	X / Y / Z IN (X, Y, Z)	AUX CV inputs, assignable. Accepts -5V to +5V (full parameter range).
	I2C (back)	Gx/Qx expander support.
Sliders/ Toggles	**PITCH SLIDERS**	8 per stage; default pitch per stage, 1−4 octaves, root/scale quantizing.
	PULSE COUNT	8 toggles, 1−8 pulses per stage.
	GATE TYPE	8 switches: Hold, Multi, Single, Rest.
Knobs	**CTRL 1 & 2**	Assignable to pitch, gate, division, root, scale, velocity, etc. -5V to +5V out when set.
	AUX Attenuverters	X, Y, Z inputs manual scaling/polarity.
Buttons	**RUN**	Start/stop sequence.

Section	UI Element	Functionality / Details
	RESET	Manual reset (to "first" stage, resets accumulators).
	LOOPY	Loopy mode (momentary/latch subloops, manual/key mode).
	SETUP/BPM/SCALE	Global configuration, tempo, quantizer/scale/root.
	ORDER/LEN/DIV/ SWING/SLIDE/GATE	Per-track: playback direction/ order, length, clock div, swing (trk 1&2), slide, gate time.
	EDIT/SLIDE/SKIP/ PITCH/GATE/RATCH/ PROB/ACCUM/CV	Per-stage, per-track/lane editing (or per MOD lane).
	ALT	Access alternate button/slider functions (preset save/load, output, mod assign, etc).
	TRACK SELECT (TRK 1/ TRK 2/MOD)	Select which "track" or mod lane is active for editing.
	Screen Encoder	Menu navigation, value adjustment, press for confirm/ toggle/parameter select.
	AUX X/Y/Z Buttons	Input routing, also randomization shortcuts.

Inputs Summary

Jack	Label	Use	Range (V)
CLOCK IN	H	Advances seq	-5 to +5
RESET IN	I	Resets seq	-5 to +5
X AUX IN	X	CV/Trig mod	-5 to +5
Y AUX IN	Y	CV/Trig mod	-5 to +5
Z AUX IN	Z	CV/Trig mod	-5 to +5

Outputs Summary

Jack	Label	Use	Out Range (V)
TRACK 1 PITCH OUT	D	1V/Oct, swappable	0 to +5 (typ)
TRACK 1 GATE OUT	E	Gate, swappable	0/+5
TRACK 2 PITCH OUT	F	1V/Oct, swappable	0 to +5 (typ)
TRACK 2 GATE OUT	G	Gate, swappable	0/+5
CLOCK OUT	C	Divided clock	0/+5 trig
A OUT	A	User assignable (CV, MOD, etc)	-5 to +5
B OUT	B	User assignable	-5 to +5

Panel Controls At-a-Glance

Sliders & Toggles (Top)

- **PITCH SLIDERS:** Set root pitch for each stage (1–8). Quantize using SCALE. 1–4 octave range.
- **PULSE COUNT:** (Switches below each slider) 1–8 pulses per stage – affects rhythmic length.
- **GATE TYPE:** (Switches below Pulse Count) Choose:
  - HOLD = sustain gate through all pulses
  - MULTI = gate per pulse
  - SINGLE = one gate per stage
  - REST = no gate

Center Section

- **Screen + Encoder:** Deep editing, assign destinations, menu navigation.
- **TRACK BUTTONS:** TRK 1, TRK 2, MOD (8 MOD lanes); track/ parameter selection.
- **EXIT:** Go back / Home screen / Sync panel.
- **TRANSPORT:**
  - **RUN:** Play/Stop (or Pause in config)
  - **RESET:** Reset sequence/stage/accum.
  - **LOOPY:** Enter Loopy subloop/manual play mode.
- **GLOBAL SETTINGS:**
  - **SETUP:** System/global settings.
  - **BPM:** Set/see tempo, tap with button, mod with CV/ctrl/ mod.
  - **SCALE:** Quantizer scale/root, user scales, chord locks.

TRACK SETTINGS:

- **ORDER:** Sequence direction/order (linear, random, shuffle, pendulum, etc).

- **LEN:** Number of stages/total pulses/offset (polyrhythm/phase patterns).
- **DIV:** Clock divider (for track & mod lanes).
- **SWING:** Groove; not present on MOD lanes.
- **SLIDE TIME:** Portamento for slid stages; analog/tempo/acid.
- **(TRACK) GATE:** Gate time/scale per track (with per-stage override via STAGE GATE).

STAGE EDIT (EDIT + Button)

- **SLIDE / SKIP / PITCH / GATE / RATCH / PROB / ACCUM / CV:**
  - Per-stage per-track editing for each above function (see table below for summary).

ALT Functions

- **LOAD (ALT+1):** Load preset/bank.
- **SAVE (ALT+2):** Save preset/bank (confirm overwrites).
- **OUT A, OUT B (ALT+3/4):** Assign output function/track (A or B jack).
- **CLK (ALT+5):** Configure clock out division/offset.
- **MX (ALT+6):** Expander output routing.
- **LIM (ALT+7):** Accumulator (ACCUM) transposition limit/polarities/modes.
- **TYPE (ALT+8):** Set CV Lane output type (Voltage / Gate Toggle).

MOD Lanes

- **8 lanes**, parallel to main sequencer.
- Each has: order (playback), length (stages/pulses), div (clock), and parameter destination (internal param, or OUT A/B)
- Each lane: 8 stage voltages (or gates if routed to gate-type param), ±5V output range for OUT jacks.

Core Per-Stage Parameters (All CV-automatable via AUX/MOD)

EDIT Mode	Function	Range / Details
SLIDE	Slide (portamento enabled/disabled)	per stage
SKIP	Stage skipped or not	binary
PITCH	Override note/scale (or inherit slider)	C0−C5 (quantized/locked)
GATE	Per-stage override length or rest/hold	--/rest/1−100%
RATCH	Subdivisions per-pulse/ratchet	1−8
PROB	Probability gate triggers (stage or pulse)	0−100%
ACCUM	Per-stage accumulate amount/trigger	±1−7 scale deg, stage/pulse/ratch trigger modes
CV	Per-stage control voltage (or gate if type set)	−5V to +5V

Cheat Sheet: Essential Moves

Run/Stop:
- Press RUN.
Reset:
- Press RESET to restart sequence from Offset. **Set BPM:**
- Press BPM, turn encoder.

- Long-press BPM for fine.
- Tap BPM button for tempo tap. **Change Scale:**
- Press SCALE, encoder chooses scale/root. **Load/Save Preset:**
- ALT+1: Load, ALT+2: Save (bank select with encoder, choose slot 1-8 with stage buttons). **Per-Track Parameter Edits:**
- Select TRK 1/2/MOD, press corresponding ORDER/LEN/etc. **Per-Stage Edits:**
- Select track (TRK 1/2), EDIT + parameter (SLIDE etc), then press stage button 1−8 to edit. **Assign Output Functions:**
- ALT+3/A or ALT+4/B for OUT A/B, select parameter output (CV, MOD max ±5V). **AUX Inputs:**
- Patch CV -5V to +5V. Press X/Y/Z button to assign param, set attenuverter for range/polarity.

Loopy Mode:
- Press LOOPY. Hold stage button(s) to loop single or range.
- Latch: Release/unlatch via LOOPY. Stage buttons become a "manual keyboard" in stop mode.

CV & MIDI Integration

- All assignable modulation: AUX inputs, MOD lanes, CTRL knobs, MIDI in/out (USB micro port; see manual on SysEx and channel/CC assign).
- Inputs accept -5V to +5V for full range mapping. Outputs provide up to ±5V (A/B jack assignments, MOD) or standard 1V/Oct (+0-5V typ) for pitch.

Tips

- **Muting:** Hold LOOPY, then TRK 1/2/MOD or MOD lane to mute/unmute.
- **Copy/Paste:** Hold source (track/stage), press target (see manual for details).

- **Randomization:** ALT + AUX X = full random, ALT + AUX Y = morph, ALT + AUX Z = undo (Active in editing screen).
- **Panel Sync:** Long-press EXIT — clear overrides, use front panel positions.

Useful Ranges & Specs

Control	Voltage Range	Notes
All CV INs	-5V to +5V	Full param
A/B/MOD CV OUT	-5V to +5V	User/mapped
Pitch OUT	0V to +5V (typ)	1V/octave, adjustable
Gate Outputs	0V (low), +5V (high)	Triggers/gates
MIDI	USB micro-B (rear panel)	Use Intellijel extender if needed

See full manual for details and advanced configuration:

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