Intellijel — Plonk

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Intellijel Plonk Cheat Sheet

Overview

Plonk is a physical modeling percussion synthesizer capable of creating both realistic and synthetic percussive sounds. It uses separate Exciter and Resonator sections, is duophonic (2-voice), and supports deep modulation and preset storage.

Inputs, Outputs, and Controls Reference

Jacks/Input/Outputs

Jack	Type	Purpose	Voltage Range	Notes
A. X	CV In	Modulate X-assigned parameter	±5V	Summed with X knob/param. Attenuverter present.
B. MOD	CV In	Modulate MOD-assigned	±5V	Attenuverter present. Gate

Jack	Type	Purpose	Voltage Range	Notes
		parameter or special control		>1.5V for gate-based.
C. DECAY	CV In	Offset DECAY knob/param	±5V	Attenuverter present.
D. Y	CV In	Modulate Y-assigned parameter	±5V	Summed with Y knob/param. Attenuverter present.
E. PITCH	CV In	1V/oct pitch input	±5V	Only updates while TRIG high.
F. TRIG	Gate In	Triggers Exciter	Std. gate, >1ms	
G. VEL	CV In	Velocity/ expression	0 to +5V (norm. +5V)	Controls accent, dynamics, or volume by menu.
H. OUT	Audio Out	Main mono audio	-	-

Knobs and Front Panel Controls

Control	Function
PITCH (knob)	Base pitch of resonator.
DECAY (knob)	Scales overall sound/resonator decay.
X / Y (knobs)	

Control	Function
	Manual modulation for X/Y assigned parameter (bipolar).
ENCODER	Menu navigation/value change (push+turn function).

Buttons

Button	Function
DISPLAY	OLED screen with activity LEDs for both voices.
PITCH	Opens pitch menu (Octave/Quantize).
TRIGGER	Manually fires exciter for preview.
EXCITER	Opens exciter menu (mallet/noise/shaping/etc.).
OBJECT	Opens resonator menu (model/decay/tone/etc.).
MOD	Assign MOD CV input (+ depth).
CONFIG	System config/output/FX/global.
LOAD/SAVE	Load/save presets and manage memory.
X / Y	Assign X/Y CV input (+ depth).

Quick Start

1. **Default Patch:** Power on, output to system audio, set PITCH/X/Y (12:00), DECAY full CW.
2. **Trigger:** Press TRIGGER to play.
3. **Preset:** LOAD → scroll/select/preview with ENCODER → click to load.

4. **Sequencer:** TRIG from sequencer to TRIG; CV to PITCH; optionally VEL for velocity.
5. **Live Modulate:** MOD input for preset stepping/kits (factory presets 1/5/9/13 support).
6. **Edit Sounds:** Use EXCITER and OBJECT menus.

Menus and Modulation

- **Exciter Parameters:** Mallet/Noise mix, Mallet stiffness, Noise attack/decay/density/filters/envelope type.
- **Object Parameters:** Resonator type (String/Beam/Marimba/Drumhead/Membrane/Plate), Decay, Tone, Position, Inharmonicity, Low Cut, Pitch Envelope amt/decay, Polyphony (1/2).
- **Modulation Destinations:** Most exciter/object parameters can be mapped to X, Y, or MOD, plus bitcrusher and saturation FX.
- **Special MOD:** Choke (Res, Noise, Both), Preset Step, Morph, Randomize.

Preset Management

- **128 memory slots.** Panel knobs are always live and override/offset preset values!
- **Load:** LOAD → ENCODER scroll → preview with TRIGGER → click to load.
- **Save:** SAVE → ENCODER pick slot → SAVE or click ENCODER to enter name → confirm with Y.
- **Transfer (USB-MIDI):** See manual for SysEx instructions.

Other Notes

- **Calibration:** See CONFIG > Global Config.
- **Firmware/Changelog:** Many expanded FX/modulation since v1.10.

- **Size/Power:** 12hp, 44mm deep, 170mA @ +12V, 6mA @ -12V.

Parameter Modulation Depths

- Depth settings: LOW (±16), MEDIUM (±32), HIGH (±64), FULL (±128) for X, Y, MOD.

Links

- [Intellijel Plonk Manual PDF](#)
- [Generated With Eurorack Processor](#)

Tip: Plonk is highly dynamic—experiment, assign modulation, and morph between presets for maximum variety!