

Erica Synths and Gamechanger Audio – Plasma Drive

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[Erica Synths Fusion Plasma Drive Manual PDF](#)

Erica Synths Fusion Plasma Drive – Eurorack Cheat Sheet

Unique high-voltage distortion for Eurorack, combining vacuum tubes and plasma discharges, with tracking oscillators and assignable EQ for over-the-top sound mangling.

Summary Table

Inputs, Outputs, Controls & Their Functions

Name	Type	Function/Range	Location
INPUT	Audio In	Main audio input, up to 20V ptp	Bottom left
OUTPUT	Audio Out	Main processed output	Bottom right
VOLTAGE CV	CV In	Controls distortion level, -10V to +10V	Bottom right

Name	Type	Function/Range	Location
DRY/WET CV	CV In	Controls dry/wet mix, -10V to +10V	Bottom left
OCT TRIG	Trigger In	Toggles 1 octave up/down tracking oscillator	Middle right
SUB TRIG	Trigger In	Toggles 2 oct/3 oct down sub tracking oscillator	Middle right

Knobs

Name	Function
IN LVL	Sets input gain; critical for signal shaping
VOLTAGE	Manual distortion/overdrive amount (CV summed)
DRY/WET	Blend between clean/dry and wet/distorted signal (CV summed)
TREBLE	EQ high frequency boost/cut ($\pm 10\text{dB}$ @ 1.5kHz)
BASS	EQ low frequency boost/cut ($\pm 9\text{dB}$ @ 600Hz)

Switches/Buttons

Name	Type	Function
OCT Switch	3-position	Up = +1 octave, Mid = +1 & -1 octave, Down = -1 octave (tracking oscillators)
EQ ON/OFF	Toggle (Latching)	ON = EQ before and after distortion; OFF = EQ after only
	Button (lit)	

Name	Type	Function
OCT TRIGG		Manually engages/disengages tracking oscillator(s)
SUB TRIGG	Button (lit)	Manually engages/disengages sub tracking oscillators (-2, -3 oct); only works if OCT switch is MID or DOWN

Quick Start

1. **Connect Audio Input** to **INPUT** .
2. **Set IN LVL** to avoid unwanted clipping or volume loss.
3. **Raise VOLTAGE** to increase distortion (use CV for modulation).
4. **Set DRY/WET** for desired blend (use CV for morphing).
5. **Use TREBLE/BASS EQ** for tone shaping.
6. **Experiment with OCT Switch** for extra harmonics. Engage with OCT TRIGG/SUB TRIGG or via external triggers.
7. **EQ ON** feeds EQ before and after distortion; **EQ OFF** is post only.
8. **Take your output signal** from **OUTPUT** .

Technical Specs

- **Audio Input:** up to 20V ptp
- **CV Inputs:** -10V to +10V
- **Panel width:** 16HP
- **Depth:** 45mm
- **Power:** 135mA @ +12V / 87mA @ -12V

Tips

- **Input Level is Crucial:** Hotter signals = more interaction with plasma tube.

- **Use CV for Animation:** Modulate VOLTAGE or DRY/WET for evolving distortion.
- **Tracking Oscillators:** Add wild octave-up or sub-octave buzz and analog-style grit.
- **Try Rhythmic Triggers:** Send rhythmic gates/triggers to OCT TRIG or SUB TRIG for dynamic distortion changes.

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