

PIEZO INSTRUMENTS

When plugging a passive piezo instrument (no active preamp) directly to the device input, you can benefit from the full potential of the High Impedance Preamp featured in this unit. This preamp is specifically designed to handle demanding nature of piezoelectric pickups commonly used in string instruments:

- Set the impedance switch located next to the audio INPUT to one of the Hi-Z positions matching the Capacitance of your piezo pickup: **HI-C** (high capacitance) / **LO-C** (low capacitance)

WARNING: Only use low capacitance instrument cable when enabling HI-Z preamp featured in this device!

*In case your instrument requires extreme input level headroom while preserving high input impedance you may consider pairing your instrument with active preamp dedicated to piezo pickups - **IMPEDANCE ROD** that serves as a pre-buffer. It features the same high impedance preamp with further enhanced input headroom (+20dBV) and adjustable output level. For more info please check [impulse9.pro](#)*

SPECIFICATION

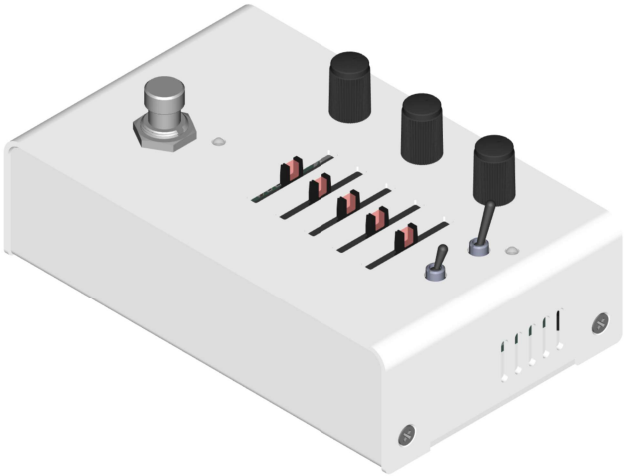
Power Input	Voltage	9V DC
	Current	600 mA
Input Impedance	HI-Z	1 MΩ
	LINE	10 kΩ
Output Impedance		22 kΩ
Max Input Level		+7 dBV
Max Output Level		+5 dBV

Bypass

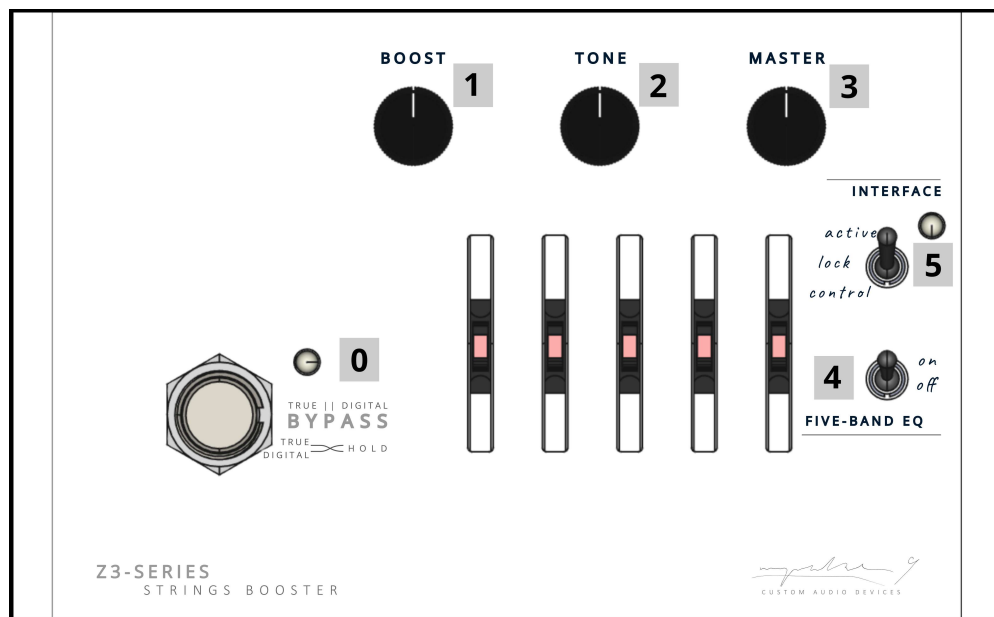
True	True Hardwire – signal bypasses all active electronics.	
Digital	Internal preamp’s passthrough + zero latency ΔΣ (internal hardware passthrough) Note: In Digital Bypass mode only the DSP unit is being bypassed, thus ensuring internal preamps keep the input and output impedances of the device stable.	

ΔΣ	Sampling frequency	176 400 Hz
	Sampling resolution	24 bit
	I/O latency	<2 ms

USER MANUAL



Z3-SERIES
STRINGS BOOSTER



0 – BYPASS – Toggles the device operation between **active** (DSP) and **passive** (BYPASS).
HOLD 10 sec to toggle **Bypass** mode (true bypass / digital bypass).

1 – BOOST – Adjusts **Gain level** for the saturation to be applied on the **Input** signal.
 It's **neutral** (tonally transparent; +0dB) on the **min** position.

2 – TONE – Adjusts **Voicing** to be applied on the **Input** signal.
 It's **neutral** (tonally transparent) on the **center** (detent) position.

3 – MASTER – Adjusts the **Output Signal Level**.
 It's **neutral** (-0dB) on the **max** position.

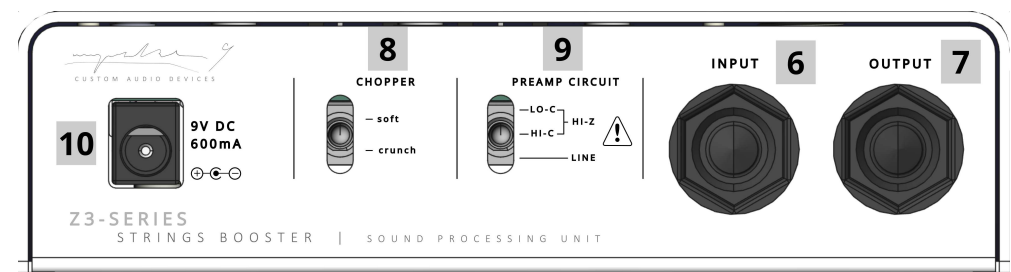
4 – FIVE-BAND EQ – Adjusts **Voicing** to be applied on the **Output** signal.
 Each band modulation is **neutral** (tonally transparent) on the **center** (detent) position.
on - **Applies** the FIVE-BAND EQ settings on the **Output** signal.
off - **Bypasses** the FIVE-BAND EQ.

5 – INTERFACE – Interface locking system: *Quickly lock/unlock the potentiometers (1,2,3,4)*

- active** - All knobs are **active** and work **live** - what you turn is what you hear.
- lock** - Knobs are **inactive** (locked):
 Each knob value is read from memory, physical knobs are ignored
 (unless a knob had been unlocked in **Edit mode** - ↓ see control 1).
- control** - **TAPPING** toggles the **INTERFACE lock** between **Locked mode** (LED red) and **Edit mode** (LED yellow).
 (momentary) **HOLDING** overwrites **active** (unlocked) knobs to memory.

Note: In **Edit mode** you can **unlock** any knob by simply moving/sliding it to its locked value. Unlocked knobs become **active**; others stay at the **locked value**.

Note: If you **SNAP** (quick "jump") directly from **active** position to **control** position and **HOLD**, all current knob positions are saved to memory, replacing previous **locked values**.



6 – INPUT – Jack 6.3mm **Mono Audio Signal Input**.

7 – OUTPUT – Jack 6.3mm **Mono Audio Signal Output**.

8 – CHOPPER – Offers two different characteristics:
soft – Pure by design. The instrument **responsiveness** remains **unaltered**.
crunch – Aggressively boosts the instrument **harmonics**. Designed for **fast attack** and **percussive** playstyles

9 – PREAMP CIRCUIT – Determines the Input Preamp:
HI-Z | HI-C – High Impedance, **High Capacitance** input preamp for **high** capacitance passive **PIEZO** INSTRUMENT
HI-Z | LO-C – High Impedance, **Low Capacitance** input preamp for **low** capacitance passive **PIEZO** INSTRUMENT
LINE – **Low Impedance** LINE input preamp for **active** instruments electronics and other pedals.

11 – 9V DC – Power Supply input
 Center negative, 9VDC, ≥600mA, High quality **linear power supply** required (not included).

GENERAL SETUP

Run a cable (up to 3m) from your instrument to the INPUT jack located on the back of the device. Ensure the correct input impedance: set the impedance switch located next to the audio input to **LINE** position. **If using a piezo pickup check the PIEZO INSTRUMENTS section.**

WARNING: DO NOT plug cable longer than 3m to the INPUT!

Run Another cable from the OUTPUT of the device to the amplifier or monitoring/PA system (it's a good practice to pair with a passive transformer DI-BOX and run XLR cable), ensuring proper grounding of the installation.

Plug the device to a high quality, low noise **linear power supply** (not included) – the device is ready to operate within **2 seconds**.

WARNING: DO NOT use switching power supply with audio equipment!

To engage the device, use the BYPASS footswitch on the face of the unit. The various controls on the device allow you to modulate, shape, and adjust the effect in search of the desired sound.

Note: The interface control knobs remain permanently operative when the **INTERFACE locking switch** is set to **active** position **only**.

Note: Before disconnecting power source ALWAYS make sure the device is set in BYPASS mode

