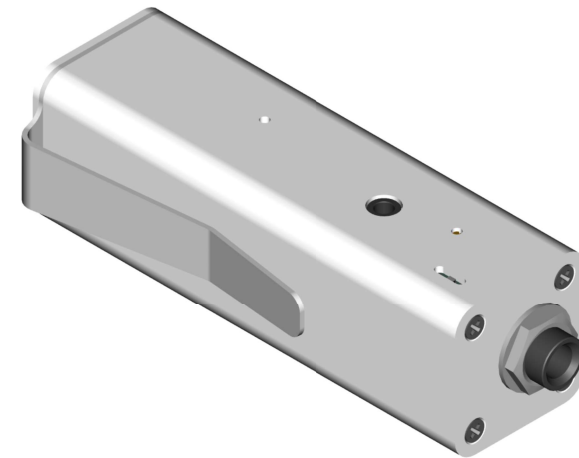


USER MANUAL

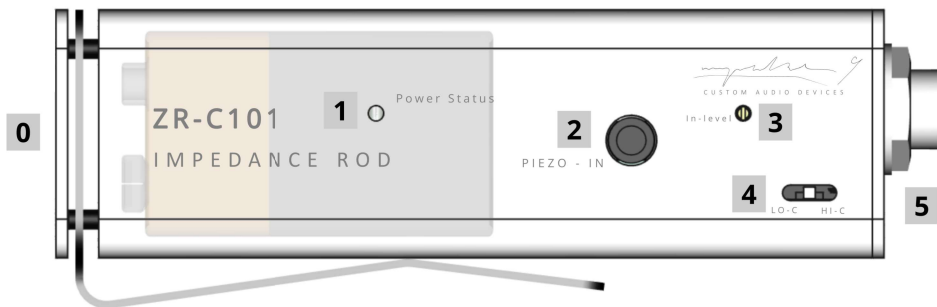
SPECIFICATION

<u>Power Input</u>	Voltage	9V DC
	Current	30 mA
<u>Input Impedance</u>	HI-Z	1 M Ω
<u>Output Impedance</u>	LINE	22 k Ω
Max Input Level		+20 dBV
Max Output Level		+5 dBV



ZR-C101

IMPEDANCE ROD



0 – BATTERY – 9V **6FR61** Battery (*not included*) mounted beneath the upper shield.

WARNING Use only 6FR61 or NiMH battery!

The estimated operating time of the device on a 6FR61 lithium battery (1200mAh) ~40h.

The estimated operating time of the device on a NiMH Accu (300mAh) ~10h.

Note: The NiMH should be designed for high energy requirements.

Battery replacement procedure:

1. Make sure all cables are disconnected from the device. Slide out the top cover of the casing **0** and remove cable straightener
2. **To remove a battery** first unplug the *battery connector* from battery pins, then carefully slide a battery out the casing.
3. **To install a battery** carefully slide the battery into the casing with the pins facing outward, and connect the *battery connector* to the battery pins. Ensure the plug is properly and securely attached to the battery pins. Finally, slide the cover back in and mount the cable straighter.

1 – Power Status – LED informing about device power status and battery status :

Blue – Both the device and battery operate correctly.

Violet – The device operates correctly, but battery power is running low:
The battery should be replaced.

Red/blank – The battery is incapable of providing power necessary for the device to operate correctly: **The device should not be operated in this state!** Turn off the unit and replace battery.

2 – INPUT – Jack 3.5mm **Mono Audio Signal Input.**

- Plugging in the connector turns the power on
- Unplugging the connector turns the power off

Note: The device does not feature any form of bypass mode, thus power is required to passthrough the signal.

3 – In-level – Adjusts the **Input Signal Level.**

Dynamic range adjustment: from -12dB to +12dB

Caution: A linear tape potentiometer had been used (number of turns: 25).

4 – PREAMP CIRCUIT – Determines the Input Preamp:

HI-C – High Impedance, **High Capacitance** input preamp for **high** capacitance passive **PIEZO INSTRUMENT**

LO-C – High Impedance, **Low Capacitance** input preamp for **low** capacitance passive **PIEZO INSTRUMENT**

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



GENERAL SETUP

Run Another cable from the **OUTPUT** jack located on the base of the device to the wireless system, pedalboard, 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.

Run a **LOW CAPACITANCE** instrument cable (up to 1.5m) from your instrument to the PIEZO-IN jack located on the *side* of the device. Ensure the correct input capacitance:

- Set the capacitance switch located next to the audio PIEZO-IN to the position matching the capacitance of your piezo pickup: **HI-C** (*high capacitance*) / **LO-C** (*low capacitance*)

*Note: **Plugging a connector** to the PIEZO-IN turns the device power ON.*

WARNING: DO NOT plug cable longer than 1.5m to the PIEZO-IN!

Check the **Power Status** LED – If the LED is not illuminating blue color turn the device off and replace the battery.

Adjust the optimal desired input level by turning the In-Level potentiometer carefully.

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 capacitance 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 with this device input!

*Instrument cables **LO-C101** specifically designed for optimal work with Piezo and this device are available on the producers website: impulse9.pro*

