

Passive DI-Box "D-10"

SIMPLE TO USE:

The unbalanced cable from the instrument or amp output is connected to the input socket of the DI box. Now balanced, the signal is emitted from the BALANCED OUTPUT, ready for feeding into the balanced microphone input; it can also be transmitted over long distances, e.g. via a multicore system.

The second jack output (PARALLEL OUT) is required if the instrument is used with an additional amplifier as a monitor.

- D-10 DI Box requires no external power source or batteries and is always ready for use.
- D-10 DI Box features dielectric strength of 2500 V in compliance with prevalent safety regulations.
- · With its ultra-robust die-cast housing and recessed switches, KLOTZ D-10 can easily withstand the rigors of stage and touring.

ADDITIONAL FUNCTIONS:

ATTENUATOR: a "reducer" enabling input levels on the DI box to be aligned to almost any signal source.

OFF Mode

Selected when nonamplified (weak) signals, e.g. passive guitar and bass, are used.



ON / 20dB Mode

For high-level (line) signals, e.g. keyboards, active instruments, pedals, tape effects decks etc.

ON / 40dB Mode

For fully amplified signals, e.g. amplifier speaker outputs.



off 20dB

off 20dE

40dF

signal cable shields.

Mode gnd The GROUNDLIFT switch is a simple but effective method of breaking the circuit that causes the hum.

GROUND LIFT - HUM CANCELLING

Hum occurs when two devices, e.a.

a mixer and guitar amp, which are

operated on differing earth potentials

via the PG contacts in power sockets,

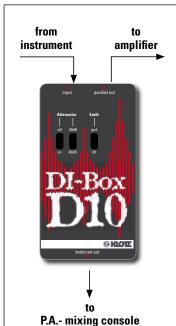
are additionally connected by the



Mode lift

The full galvanic isolation achieved is also a significant safety factor.





Balanced – unbalanced? In balanced signal transmission, the voltbalanced age generated by the twisted pair (+ and pole) is always balanced to the base line. Interference affecting the cable is eliminated since the voltage on both wires is subtracted glitch by the balanced inputs (differential inputs). For this reason balanced signals can be transmitted relatively interference-free over long distances. Balanced cables ("microphone cables") always have 3-pin connectors. In unbalanced signal transmission the unbalanced reference potential is limited to a single signal wire and shield, so that interference which penetrates the shield is amplified along with glitch the signal; this is particularly common with low frequency-interference (network frequency). Unbalanced cables always have 2-pin connectors, generally jack or cinch-type.