

Portable Digital Communications Unit



The TLE-02D Portable Communications Unit is designed in a compact format offering easy to use unique features such as an audio codec, a digital telephone hybrid, a frequency extender and a portable mixer. The TLE-02D is the ONLY equipment in the market offering such a high integration in a single portable unit.

Exclusive design, equipped with a Double Power Supply System through standard dry cells or external powering, allowing a fantastic operation autonomy.

Two Microphone Inputs and one Mic/Line, with level controls.

Two Headphones Outputs, with independent level control and Monitor Signal selector.

Backlit LCD Display. Indication of status, dial numbers, phonebook entries and menu options.

Dial-pad, with selectable Pulse/ DTMF tones. Auxiliary output with level control. RJ-45 connector for ISDN, and RJ-11 for Analogue Telephone Lines.

Four Wires always available. Selection of routed signals to Auxiliary Output.

The TLE-02D, -the ideal portable unit for remote broadcasting operation- will connect several On-Air commentators in the field to your studio by digital or analogue telephone lines.

The advanced technology in the TLE-02D will provide you with a low cost effective remote capability, simple to install and easy to operate.

- * Audiocodec, with Terminal Adapter, to establish high quality connections on ISDN lines with low delay codings.
- * Digital Hybrid, with echo suppression and frequency extender, for use on Analogue Telephone Lines.
- * Portable Mixer, with returns, Headphone Amplifiers and Four Wire (Input/Output) connection to use on dedicated circuits, radio links, etc.

SPECIFICATIONS

TRANSMISSION MODES:

ISDN Mode:

Available audio coding algorithms:

- G.722 Statistical/64 kbps. Bandwidth: 20 Hz - 7.5 KHz.
- G.722 H221/242/64 kbps (include Channel Auxil. Dat). Bandwidth: 20 Hz - 7,5 KHz.
- G.711/64 kbps. A and μ Law, for connection with standard telephone numbers.
- E-ISDN Protocol.

Analogue Telephone Line Mode:

Digital Hybrid with Frequency Extender and Echo Cancellation (64 dB rejection), dial pad for tone or pulse.

Bandwidth:

- Without Extender: 300Hz-3.300 Hz.
- With Frequency Extender: 50 Hz-3.050 Hz.

4 Wire Interface:

Full bandwidth (20 Hz-20 KHz).

Whether the unit is used as an Audiocodec on ISDN or as a portable Telephone Hybrid on PSTN, the transformer balanced 4W input/output is always available, being operative to use it simultaneously with any of the two modes.

The return input has a level adjustment (Trim) and it is permanently routed to the headset outputs.

Therefore it can be used for the connection of other Auxiliary signals that could be required to be monitored by the reporters, such as Guides, Cue, P. A., International Sound, etc. The Aux out has also a mix control for the send and return signals (SOURCE), in this way increasing the possibilities of the equipment of the equipment which can be used as per the following example:

- As a conventional 4W circuit, or a pre-mixer, setting the associated control knob SOURCE in TX position.
- As a recording output, setting the associated control knob SOURCE in an intermediate position TX/RX. This way, both program and return signals are available at the Output.
- As an auxiliary output for the digital hybrid, setting the associated control knob SOURCE in RX position. This way the unit can be connected to other equipment or to a loudspeaker in order to use the hybrid as a hands-free telephone.

MIXER INPUTS:

- Two Microphone inputs.
- One selectable Micro/Line input.

Independent level control. Input connectors are Neutrik XLR-COMBO, allowing the connection of either XLR-3 or 1/4" JACK connectors.

The mixer signal treated with an analogue compressor/limiter to avoid clipping in the digital stages.

ACCESORIES INCLUDED:

- Carry Bag.
- Power Supply.

HEADPHONE OUTPUTS:

- Two Headphone Outputs with independent level controls.
- Equipped with a mixing control of the signals to monitor, thus allowing the continuous adjustment from only Program to Return signal, i.e. any mix between both.
- Monitoring of the Auxiliary Input, with Trim level.

OTHER FEATURES:

- Acoustic and optical signalling of the incoming calls either in ISDN or Analogue Telephone Lines.
- Alphanumeric Phonebook with up to 256 entries.
- Menu configuration using only two buttons.
- Dialling with Sub-Addressing capability.
- Software up-grade available through Flash-RAM technology.

ELECTRICAL SPECIFICATIONS:

Inputs:

- Shielded Transformed balanced Inputs, with RF filters.
- Input Impedance:
 - Micro: More than 3 KOhm.
 - Line: More than 6 K5Ohms.
- Input Sensitivity:
 - Micro: from -70 dBu to -26 dBu.
 - Line: from -9 dBu to +26 dBu.

Outputs:

- Headphones:
 - Headphone output power: 63 mW@ 600 Ohms.
- 4W Output (Auxiliary Output):
 - Output Impedance: Less than 75 Ohms.
 - Output Impedance Load: More than 600 Ohms.

Telephone Line Connection:

- Analogue Telephone Line connector: RJ -11. Discharge and RF protected
- Nominal Output Level: -6 dBu.
- Nominal Input Level: -10, 5 dBu.

Digital Communications Interface:

- ISDN: RJ-45 (B+D).
- Terminal Adapter built-in.
- RS-232: DB-9 connector, for auxiliary data channel and upgrading.

POWER SUPPLY:

- 8 AA Type 1, 5 V Batteries.
- External Power Supply 110/220 VAC Input delivering 12 VDC/600 mA output.

DIMENSIONS AND WEIGHT:

- Width: 200 mm.
- Height: 55 mm.
- Depth: 200 mm.
- Weight: 1800 grams without batteries or 2000 grams with batteries.