



## PIE (Portable Interpreting Equipment) Technical Specifications

### 1. General

Portable interpreting equipment consists of microphones / transmitters, receivers / transceivers, headphones / headsets and possibly a transport case.

General characteristics:

- Overall latency:  $\leq 10$  ms
- Frequency response: between 125 and 15 000 Hz  $\pm 3$  dB
- Amplitude nonlinearity:  $< 1$  %
- End-to-end signal-to-noise ratio:  $\geq 95$  dBA
- Operating range:  $\geq 25$  m indoors /  $\geq 50$  m outdoors (in accordance with local regulations)
- Autonomy:  $\geq 10$  h

The equipment shall be in perfect working order and operated with utmost care by a qualified technician who should be present to intervene if necessary.

### 2. Microphone / Transmitter

For each interpreter: either a handheld microphone / transmitter or a neckband microphone connected to a pocket transmitter.

Microphone / transmitter characteristics:

- Weight:  $\leq 400$  g (including the batteries)
- ON / OFF button with indicator light
- Push-to-mute button (optional)

Neckband microphone characteristic:

- Weight:  $\leq 50$  g

### 3. Receiver / Transceiver

The receiver / transceiver shall contain a 3.5 mm TRS or TRRS headphones / headset connector socket.

The selected channel should be indicated on a display screen in alphanumeric ISO 639-3 code. The screen shall be backlit and its size should be sufficiently large for easy reading.

Setting all receivers to the same channel should require only one action.

The volume shall be manually adjustable.



#### **4. Headphones**

One set of headphones with two on-ear pads shall be provided for each receiver / transmitter.

Headphones characteristics:

- Weight:  $\leq 100$  g (excluding the cable and connector)
- Ear contact pressure:  $\leq 2.5$  N
- Ear pads: should rotate around both the vertical and horizontal axes - cleanable
- Foam paddings (if provided): replaceable
- Headband: adjustable in length - sufficiently flexible - should not provoke perspiration
- Lead:  $\pm 1.50$  m - terminating in a non-locking 3.5 mm TRS plug

#### **5. Headphones with integrated microphone (Headset)**

Same characteristics as headphones, and also:

- Weight:  $\leq 200$  g (excluding the cable and connector)
- Microphone boom: flexible - wearable on either side
- Lead:  $\pm 1.50$  m - terminating in a non-locking 3.5 mm TRRS plug

Feedback between the headset headphones and the microphone shall be avoided.

#### **6. Headphones with integrated receiver**

Same characteristics as headphones and receiver, and also:

- Weight:  $\leq 200$  g

#### **7. Transport case**

The equipment should be stored and transported in a rugged, shock-absorbing transport case. Each case should weigh no more than 20 kg. If the total weight of the case and its contents is more than 5 kg, the case should have wheels for easy transport.

The transport case should contain a charger for the receivers and microphones / transmitters.

**Technical Compliance (DG SCIC.C.4)**

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