

Technical Specifications

Awakened Audioworks — DIC, Booster, and Conduits

DO NOT USE REGULAR EAR BUDS — This could damage your ear buds and damage your ear drums / hearing. Remember to always use the splitter.

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1. Hardware

The Booster is the hardware engine in every DIC kit. It connects to your Android device over a wired USB-C connection, receives the digital signal from DIC on what frequencies to generate, in which waveforms, at what amperage, et cetera, and converts it into the analog output sent to your Conduit (which could be electrodes, a plasma-based force field generator, or a radionics antenna). The following tech specs are a general summary of all Conduits attached to the Booster as of this document's "last updated" date. Make sure your Booster falls under this model series to align with the information below.

- **Housing:** aviation-grade aluminum alloy CNC with transparent window
- **Connectivity:** wired USB-C (OTG), compatible with the Android mobile device running DIC
- **Weight:** Of the Booster alone: 14.8g
- **Size:** Of the Booster alone: 4.1 × 2.1 × 1.2 cm
- **USB-C cables and splitters:** braided 99.9% copper wire with bio-compatible PVC-free rubber composite insulation
- **Electrode connector:** 3.5mm female to male snap — the de facto universal standard, works across most TENS/EMS brands found on major online retailers
- **Electrode sizes:** 2"×2" (50×50mm) square is most common, also rectangles from 25×35mm up to 70×100mm; Exact sizes may vary by shipment
- **Construction:** non-woven cloth/fabric backing + conductive carbon film (low impedance) + conductive hydrogel
- Latex-free, PVC-free
- Self-adhesive, pre-gelled, reusable (typically 10–20 uses), and you can add electroconductive gel to older electrode pads to help them last longer
- **Intensity guidance of electrodes:** industry standard and electrical safety mandated to be less than 0.1 W/cm²

2. Power

- **Power input (charging/operating):** nominal 5V DC via USB-C; maximum tolerance, 4.5V–5.5V — Use only a USB-C cable and power source rated for this range.
- **Signal output to your Conduit:** 0.01V – 4.4V, peak-to-peak on the original, first Booster models and series. This is the full range across every .X File; any individual file uses a narrower slice of it, set by its waveform, frequency, and your chosen intensity. Future Boosters will ideally reach 18–25 V peak-to-peak, so make sure you check the series and model of your Booster.
- **Amperage output:** dependent on the load impedance of the connected Conduit
- **Output level:** 4Vrms (balanced, high gain) / 2Vrms (balanced, low gain) / 2Vrms (unbalanced, high gain) / 1Vrms (unbalanced, low gain)
- **Rated output:** up to 230 mW per channel into a 32 Ω reference load
- **Background noise:** 1.3 μ V (balanced) / 1.1 μ V (unbalanced)
- **Dynamic range:** 132dB (balanced) / 127dB (unbalanced, AES-17 20kHz A-weighted)

3. Data Architecture

- **Frequency range:** Of newer Booster models: 0.1 Hz – 1 MHz
- **Frequency response (in the original Booster):** 6Hz–85kHz
- **THD+N:** 0.00017% (balanced) / 0.00019% (unbalanced)
- **Decoding:** 32-bit/768kHz PCM, native DSD256
- **Signal architecture:** dual independent channels (left / right), each with its own digital-to-analog conversion path
- **Multiple channels:** because the DIC runs digitally, an unlimited number of frequencies can be emitted simultaneously
- **Digital resolution:** processes incoming signal data at up to 32-bit / 768kHz
- **Output ports:** two physical output jacks (3.5 mm and 4.4 mm)
- **Gain settings:** two selectable gain levels (high/low) for coarse intensity range, refined further by the per-session intensity control in DIC

These ranges are designed for use with an authorized Conduit. Do not assume any other device, accessory, or transducer is safe to connect to DIC. Ask for more details during your complimentary tech support calls.

Always use the power source and cable provided or specifically recommended for Booster. Using an uncertified charger or cable can expose the device to voltage outside its rated input range and could damage the device.

4. Don't Use Your Regular Headphones

Do not plug headphones, earbuds, or any audio transducer not authorized by Awakened Audioworks into the audio jack of your DIC. Much of the .X File frequency range falls outside the 20 Hz–20 kHz range that headphones and human hearing are built around. This means the signal can carry real electrical energy without ever sounding loud, or audible at all — so you would not get a warning click or static before damage occurs. Using unauthorized headphones with DIC may damage the headphones and may pose a risk to your hearing.

5. Operating Conditions

Use and store your device within 0–40°C (32–104°F) and away from moisture, unless your specific Conduit is explicitly rated otherwise.

6. In Case of Adverse Reaction

Stop use immediately. If symptoms are severe or persist, seek medical attention. Report the issue to Awakened Audioworks at AWAKENEDAUDIOWORKS@GMAIL.COM.

7. Disposal

Dispose of electronic hardware and batteries according to your local e-waste and battery recycling regulations. Do not dispose of Conduits in household waste.