

# Soundelux E47 User's Manual

## **YOUR E47 has been shipped to you in CARDIOID ONLY MODE**

The Soundelux E47 is a high quality variable directivity studio condenser microphone using vacuum tube electronics. As such, it requires its own proprietary power supply and cable. The microphone's audio output is standard male XLR 3-pin at the power supply, with positive excitation of the diaphragm at the front of the mic resulting in a positive voltage at the output XLR's pin 2. Audio output is transformer balanced.

**CAUTION: Shock Hazard: Do not open microphone when connected to power source.**

**VORICHT: Schok gefahr: Bitte nicht das mikrofon offen wenn es eingeschaltet ist in einen stoppkontakt.**

**ATTENZIONE: Choc hazard: N'ouvrez pas le microphone quand il y a un connectionne avec un source d'electricity.**

**ATTENZIONE: Rischio di scossa: Non aprire il microfono quando e attaccato all'electricita.**

**!!!!ATTENTION!!!!:**

- 1) DO NOT CONNECT MICROPHONE WHEN AC POWER IS APPLIED TO POWER SUPPLY!**
- 2) DO NOT HOT SWAP (POWERED) MICS AND SUPPLIES.**
- 3) DO NOT swap mics and supplies. Each supply has been optimized for that mic.**

### **The following procedure must be followed when setting up the microphone:**

- 1) With no power applied, and no connections made, determine which AC Mains voltage is relevant to your location, and be sure it matches the voltage indicated on the P95 power supply. The mains voltage is factory preset and should only be changed at the factory.
- 2) Attach shock mount to stand. Place E47 microphone securely in shock mount.
- 3) Insert FEMALE end of 6-pin Tuchel cable (provided with microphone) into microphone. Try to provide some strain relief loop when lacing cable on mic stand. Do not stretch or make the cable taught.
- 4) After cable has been laid out with plenty of slack and not in a heavily trafficked spot, insert MALE end of 6-pin XLR cable into power supply.
- 5) Verify that monitor loudspeakers are muted, or that signal path does not allow monitoring of microphone during power up.
- 6) Connect audio output Male XLR-3 with user provided cable to console or microphone preamplifier. 48v phantom need not be applied, nor will it damage the microphone, but we recommend it not be applied if possible.
- 7) Verify that rear panel power switch is set to "off", and connect IEC 320 compatible AC power cable (provided with mic) to power supply, then wall AC outlet.
- 8) Apply AC power. Allow 1 minute before allowing monitoring of microphone. For optimum performance, allow the microphone to warm up for at least one hour.

If you follow the above steps, always use a pop filter (for vocals), always store your E47 in a plastic bag, and don't drop it, your mic will have a long happy life.

The E47 uses a lightly damped capsule mount, therefore, is subject to damage from excessive handling. It is also sensitive to rumble, so use care in mounting, placement and facility (studio) location. Some users may find high pass filtering necessary to remove unwanted rumble from program.

Your E47 should be used anytime strong proximity effect and smooth tube transients are required.

If you would like to switch your mic to multi-pattern operation:

**E47 Pattern Change Directions from Fixed to Variable  
[Single Capsule vs. Dual Capsule Operation Modes]**

1. Remove 3 screws that hold headgrille assembly to body assembly. Remove the headgrille assembly, which contains the capsule.
2. Remove single screw that holds the body tube in place. Pull the body tube from the body.
3. See metal plate with 2 position switch above vacuum tube area. Flip switch the other way (forward) for variable pattern (dual capsule mode) or backward for Fixed Cardioid (single capsule mode). The words "Variable Pattern" and "Cardioid" are printed on the circuit board.
4. Replace the body tube, replace screw.
5. Install Headgrille assembly by slightly tilting Headgrille backward so the guide pin goes into the guide pin hole, then insert the connector on the headgrille to the socket on the top of the body, re-install the 3 screws that hold the headgrille to the body.