

# SOUNDELUX E47C TUBE CONDENSER MICROPHONE



**WHAT IS IT?:** Soundelux of Hollywood, California, is known for its sonic recreations of the most famous vintage mics of the past. Continuing the company's commitment to hand made real world value, Soundelux restores the sound and performance of the original 50's era German tube 47 in an all new E47C. The Soundelux E47C is a "cardioid only" mic, as the original was used nearly exclusively in cardioid. The E47C comes with a remote power supply and professional clamp type shock mount and a special custom 20 foot cable between the mic and power supply.

**WHAT MAKES IT DIFFERENT?** For about half what you'd expect to pay for a vintage original, with replacement parts and "new-old-stock" tubes that are readily available, the E47C enable a range of sounds and tonal characters previously not available through any other means. The Soundelux E47C embodies all the most important characteristics of the original while offering consistency, reliability and long term serviceability that is a requirement for today.

**HOW DO I USE IT?** The E47C's primary use will likely be male or female lead vocals due to its signature proximity effect. The original 47 had proximity effect behavior that was part of its sound and why it defined "big vocals". With up to +12dB of boost at 100Hz when used at 1 inch working distance, the 47 signature was "the sound" of many great artists such as Frank Sinatra. Led Zeppelin 1 used a 47 on nearly every vocal track. Tuesday Night Music Club and Cheryl Crowe was a classic application of a 47 for vocals. The key application was then and still is close worked vocals, male or female.

Tube 47's were never really flat even at distance (beyond 18 inches) due to its signature head grille sound. Brass instruments were a favorite 47 application (the classic jazz signature of the most famous records from the 1950's) and small ensembles (of nearly any instrumentation) saw the 47 as the "go to" mic. Cello and violin at short distance gain intimacy and acoustic or electric bass will find a perfect warm tone without muffling using the E47C. Individual drums or drum kits will have astounding impact with no overt artificial high end found when using some small diaphragm mics. Solo performers who sing while playing acoustic guitars may be recorded with just this one microphone.

## Specifications:

Patterns:	Cardioid only
Frequency Range:	30Hz to 16kHz, +/-2dB
Sensitivity:	29mv/Pa
Equivalent Noise:	14dB ("A" weighted) 26dB (unweighted)
Distortion vs.SPL @1kHz:	112dB = 0.5% THD 117dB = 1% THD
128dB = 2% THD	
Impedance:	(increasing distortion is non-exponential, nearly linear, and primarily 2 <sup>nd</sup> harmonic) 200 Ohms true transformer balanced
Recommended load:	1.2k Ohms
Dynamic range:	98dB
S/N (94dB-noise):	78dB "A", 68dB unweighted
Capsule size:	1" diameter, single backplate k47 type
Tube type:	New Old Stock EF814 large plate pentode
Dimensions:	2.48" dia x 8.8" L
Weight:	1lb 6.3oz (1.39lbs) =630g
Shipping weight:	12 lbs
Power Supply:	N470 true linear, qualified service tech switchable 115/230v operation



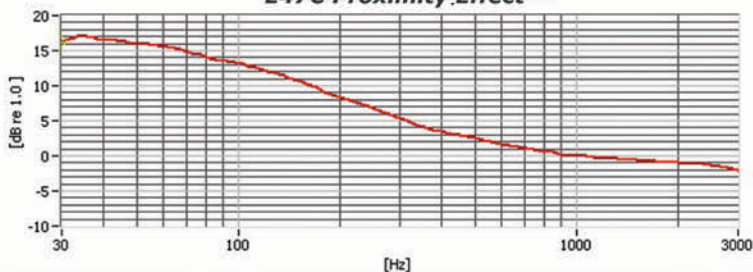
System Includes 6 pin Tuchel cable, AC cable, wood box, spider shock mount, and shipping system.

## Technical advantages the E47C:

- 1) True transformer balanced output using Original Specification hybrid lamination four section output transformer. It is much more expensive than the more common unsectioned or two sectioned devices, but has a greater ability to resolve complex program material.
- 2) True large plate NOS pentode\* wired as triode with traditional resistive (not transistor) load for unique vintage amplification curve and dynamics response!
- 3) New N470 power supply faithfully recreates the packaging of the revered vintage units. It is a true linear power supply featuring vintage topology unregulated B+ voltage and original spec dual choke fed B+.
- 4) N470 psu has power on indicators located at both ends for quick and easy "on/off" status verification.
- 6) Original headgrille dimensions and wire mesh layers are maintained for faithful replication of classic 47 headgrille resonance effects.
- 6) Special elevated capsule polarization voltage tunes the mic up to a high performance excitement machine! Tuned beyond 1950's factory stock.
- 7) Higher wattage resistors reduce noise effects due to heating inside the mic.
- 8) Shock mounted ceramic tube socket unlike any other in the industry reduces in-band tube resonance & increases s/n while ensuring long trouble free life.
- 9) Cardioid only for superior noise spec & tone.
- 10) Specially constructed output capacitor resolves musical detail better than common high end film caps (*output capacitors are critical in high impedance circuits like tube microphones, different brands DO sound different*).

*\*(most NOS tubes perform better than any currently made tube, and we have secured adequate stock for many years to come and will not run into shortage problems like those seen with VF14's)*

**E47C Proximity Effect**

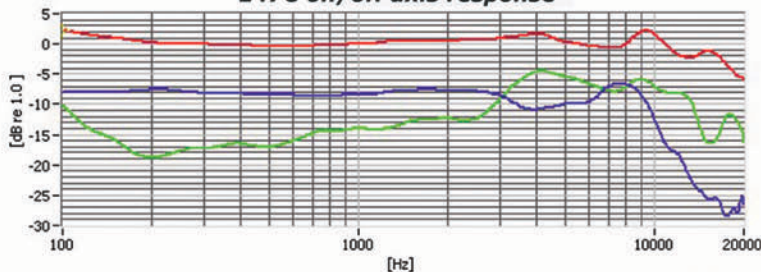


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Soundelux E47C Maximum Proximity Effect 116dB peak SPL source 2cm from headgrille

**E47C on/off axis response**



e47C 0° - p  
e47C 90° - p  
e47C 180° - p

Soundelux E47C 0, 90, 180 deg sens = 29mV/Pa distance = 1 meter

**Soundelux Warranty:** Three years, parts and labor, on all microphones and power supplies. One year parts on tubes.  
For warranty service, contact your dealer