

MASSIVE TUBE SOUND.

The most legendary series of microphones has returned.

The **UT Twin48** is an exceptional preservation of two venerable classic tube microphone designs. The original classics of the late '40s and '50s have been front and center in countless recordings — and demand for them is higher than ever! United has taken these classic-specification designs to the next level by uniting both designs into a single microphone.

Massive tube sound calls for the right tube: The UT Twin48's amplifier stage is based around a select new old stock EF86 pentode glass vacuum tube — the last living descendent of the originals' tube. This results in a bold, rich sound, due to the pentode's harmonic profile being much different than modern dual-triode tubes.

These legendary microphones, still inspiring after generations, are now available in both of their original forms in the UT Twin48.



TWIN MODE OPERATION

The UT Twin48's two operating modes go beyond just polar pattern selection.

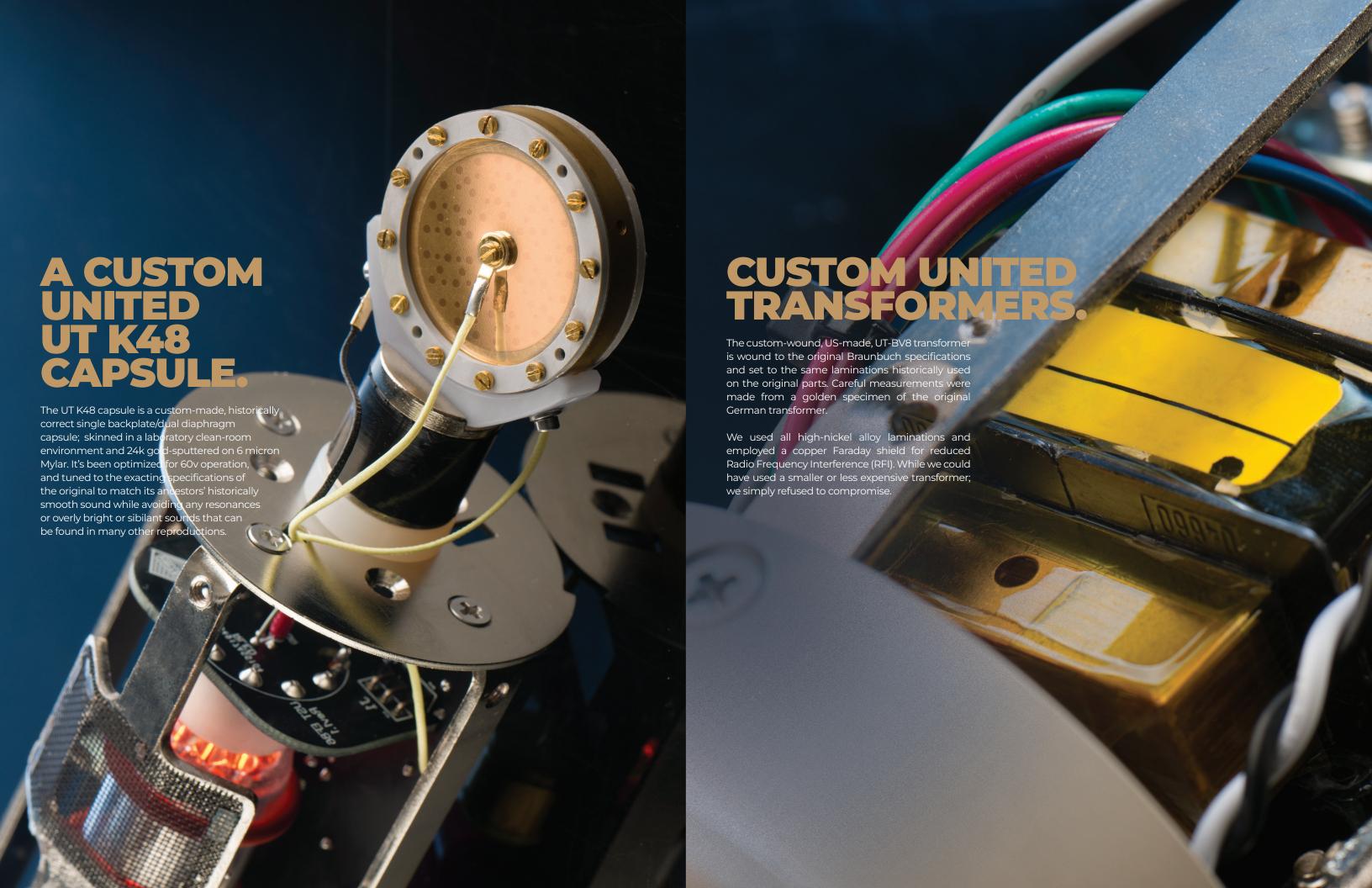
The classic 47 and 48-style mics each derived their cardioid operation in very different ways — producing subtle tone differences as well as a slightly different polar pattern. For the first time ever, the UT Twin48 delivers both options in a single microphone.

47 Mode offers both **47 Cardioid** and **Omni** patterns, while 48 Mode offers **48 Cardioid** and **Figure-of-8**. Each cardioid mode delivers a different tonal flavor and performance:

- 47 Cardioid: de-couples the rear diaphragm in a process known as True Cardioid, for a louder sound with improved sensitivity with more background and top-end detail.
- **48 Cardioid**: polarizes the rear diaphragm with the same voltage as the backplate AKA Active Cardioid for a more tightly closed-in, warmer, intimate tone that is a bit lower in sensitivity.

Many recording engineers prefer the warmer, more intimate sound of the 48 Cardioid, while others prefer the bigger, open sound of the 47 Cardioid — these options make the UT Twin48 a perfect choice for many different applications; Experiment to find the most flattering capture of a singer's voice; add a bit of ambience to a horn performance; and get the cleanest, most articulate tones imaginable from strings and horns — all from a single mic!





HIGH-PERFORMANCE POWER SUPPLY.

A tube mic is only as good as its power supply In an effort to eliminate as much noise as — so we didn't cut corners on that, either.

and fully discrete Zener diode regulation for supply front panel. the high voltage rails, for clean, maintenancefree operation. (No calibration required — And because cable quality matters, we ever!) Custom US-made PRP resistors and include the finest tube microphone cable long life/high quality electrolytic capacitors currently available — the Sommer (Germany) are used throughout, and we selected a very Octave 7 conductor cable — configured and robust, over-spec'd, traditional linear frame- optimized for use with the UT Twin48. mounted power supply transformer.

possible, no IC package regulators, generic parts, or cheaper, switch-mode power We developed a fully discrete power supply transformers were used in the UT Twin48. with individually isolated discrete rails for The power supply also features both an inline filament, B+, and polarization voltages. We EMI/RFI AC input filter as well as a selectable used a custom, US-made discrete regulator by RF filter on the audio output, which can be Sparkos Laboratories for the filament voltage, engaged from the convenience of the power





IT'S NOT JUST ANOTHER MIC — A UNITED.

We have gone to great lengths to make the UT Twin48 an exceptional microphone fit to be the showpiece of any studio. We spared no expense on premium and custom-made components: audiophile grade polystyrene, tantalum, and film capacitors; and audiophile grade, US-made PRP thin-film resistors. We have gone the extra mile to reduce noise and RFI, and to ensure that the UT Twin48 provides boutique-quality sound that's built to last.

Also included is a vintage-inspired briefcase — custom-fit to house the UT Twin48 and all included accessories.

From the Sommer Octave 7 pin cable to the sleek briefcase, to all final assembly and testing conducted in the USA at United's base of operations, we have left no stone unturned in the pursuit of the highest level of audio quality. The Twin48 is more than a phenomenal addition to any mic locker — it's an amazing creative tool for the most demanding engineers



Specifications

Type | Condenser Microphone

Diaphragm 6 micron, 24k gold sputtered Mylar (PET film

Capsule UT Series, 34 mm brass, single backplate K48

Frequency response 20 Hz - 20 kHz

Polar Pattern 47 Cardioid, 48 Cardioid, 47 Omni, 48 Figure-of-8

Output Impedance 35Ω

Output Connector 24k gold plated 3 pin XLR, pin 2 HOT, pin 1 GNE

Amplifier Type Vacuum tube

Tube NOS selected EF86 pentode vacuum tube

Self noise | 11 dBA

Output Custom-wound UT Series transformer, made in USA

Mount Suspension type shock mount (include

Interconnect Custom Sommer 7 conductor XLR cable

6 m / 19.7

Power Connector | IEC320 3-conductor receptacle

Power Input | 110-120 vAC or 220-240 vAC; switch selectable

Microphone Height: 26.5 cm / 10"

Diameter: 6.25 cm / 2.5"

Dimensions - Height: 925 cm / 325"

ower Supply Width: 19.5 cm / 7.5"

Depth: 18 cm / 7"

 mensions Height: 17 cm / 6.75"

 Briefcase
 Width: 50 cm / 19.75

 Depth: 32 cm / 12.75

As a commitment to constant improvement, United reserves the right to change any specifications, at any



www.unitedstudiotech.com

