

LCT-450

# STUDIO RECORDING CONDENSER MICROPHONE

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The LCT 450 steps up to the plate with the LCT 540's capsule and thus features a natural, authentic sound with first-class transient response due to the ultra-thin, gold-layered, low-mass, 1-inch diaphragm, while its cardioid polar pattern ensures effective rear sound rejection both onstage and in the studio. It comes with two-step switchable pre-attenuation for an ear-splitting maximum SPL of 173 dB at 20 dB of attenuation. Two low-cut settings help to reduce unwanted low-frequency noise like wind, footsteps or the like. Clever features known from flagships like the LCT 640 or LCT 940 are also onboard, including automatic attenuation and clipping history – as well as, of course, the illuminated user interface for quick and easy handling in dark environments. All this, combined with the brilliant, clear and authentic sound that characterizes our recording microphones, has been packed into our well-known LCT 240 housing to ensure that the LCT 450 isn't too dominant as an onstage overhead; studio users, on the other hand, will appreciate the appealing look that reflects its professional inner workings.

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## PRODUCT DETAILS

### KEY FEATURES

LEWITT's gateway to the world of large diaphragm condenser microphones - at an affordable price

1-inch true condenser capsule in a small housing

Natural authentic sound with first-class transient response

3 micron thin gold-sputtered Mylar diaphragm

A perfect choice for vocals, overheads and acoustic instruments

Cardioid polar pattern for effective rear sound rejection

9 dB (A) self noise

138 dB dynamic range

SPL max of 158 dB (A)

Immune to electromagnetic interference thanks to transformerless preamplifier circuitry

Illuminated user interface for quick and easy handling in dark environments

Noiseless pushbuttons for attenuation and low-cut selection

Automatic Attenuation and Clipping History mode

Rugged zinc die cast body

Internal shock mount for maximum reduction of structure borne noise

Corrosion-resistant gold-plated 3-pin XLR output connector

Top applications Vocals & background vocals Classic drum & percussion overhead Acoustic instruments (strings, guitars, piano and similar) Ambitious stereo recording techniques (XY, ORTF, AB, ...)

### SPECIFICATIONS

**Acoustical operating principle**

Pressure gradient transducer, externally polarized

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|                                |                                                               |
|--------------------------------|---------------------------------------------------------------|
| Diaphragm                      | 3 micron gold sputtered Mylar                                 |
| Transducer Ø                   | 25.4 mm / 1 inch                                              |
| Polar pattern                  | cardioid                                                      |
| Frequency range                | 20 to 20,000 Hz                                               |
| Sensitivity                    | 18 mV / Pa (-35 dBV)                                          |
| Signal / noise ratio           | 85 dB (A)                                                     |
| Equivalent noise level         | 14 dB (A) according to IEC 60268-1                            |
| Dynamic range of FET mic. Amp. | 138 dB (A)                                                    |
| Max SPL for 0,5 % THD          | 1147 dB, 0 dB pre-attenuation / 158 dB, 20 dB pre-attenuation |
| Pre-attenuation pad            | 20 dB, switchable                                             |
| Low-cut                        | 12 dB / octave at 80 Hz                                       |
| Rated impedance                | < 150 ohms                                                    |
| Rated load impedance           | > 1.000 ohms                                                  |
| Supply voltage                 | 48 V +/- 4 V                                                  |
| Current consumption            | 5.5 mA                                                        |
| Enclosure                      | Zinc die cast                                                 |
| Connector                      | Gold plated 3-pin XLR                                         |
| Dimensions                     | 138 x 52 x 36 mm (5.43 x 2.04 x 1.42 inch)                    |
| Net weight                     | 357 g (11.71 oz)                                              |