AKG

new product bulletin

C-460B PRESSURE GRADIENT CONDENSER MICROPHONE SYSTEM

The new C-460B brings the world famous AKG modular condenser microphone system into the digital age. The C-460B is to the existing C-450 system what the C-414EB/P48 is to large diaphragm condenser microphones.

The C-460B is an addition to and is compatible with all existing C-450 components (except for the CK-9 and VR-2). Standout features include:

- Wide dynamic range—Sound pressure levels of 138dB SPL over the full frequency range (148dB SPL with pad)
- Low self-noise—Measured at 15dB SPL (IEC 179-A)
- Minimum current consumption when connected to any powering voltage from 12 to 52 volts
- Stability of specifications even under extreme conditions
- Unique, built-in switching: 50, 70 and 150Hz roll-off and 0, -20dB attenuation

An electrically conductive rubber adapter ring is supplied with the C-460B as a means of using existing capsules such as the CK-1, CK-22, CK-8, etc. Its mechanical construction ensures lower sensitivity to handling noise and maintains a consistent low impedance connection between the housing of the capsule and the microphone preamplifier.



THD at 1kHz is 0.01% at maximum SPL; equivalent noise level 15dB SPL; dynamic range of 123dB and maximum SPL of 138dB at 0.5% THD over the full frequency range.

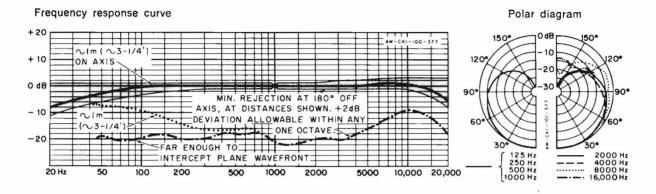
The C-460B offers better distortion figures than 16-BIT PCM equipment available today. The C-460B is designed for today's and tomorrow's requirements. It is at the leading edge of technology and the beginning of a new age in modular condenser microphones from AKG.

TECHNICAL DATA

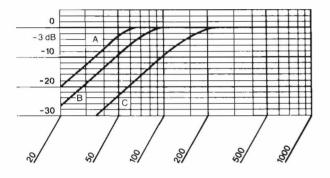
Transducer Type: Pressure Gradient Condenser Directional Characteristic: Cardioid Frequency Range: Amplifier: 5-30.000 Hz Capsule: 20-20,000 Hz Nominal Output Impedance At 1kHz: < 120 ohms Transformer Balanced Rated-Impedance Category: 150 ohms Recommended Load Impedance: > 500 ohms Sensitivity at 1kHz **Open Circuit:** 9.5 mV/Pa; -60.5 dBV* Tolerance: $\pm 1 \, dB$ Sound Pressure Level For 0.5% THD: 138 dB SPL at 1K ohms from 30-20kHz 148 dB with attenuator switch in -20 dB position Hum Sensitivity: $9 \mu V/5 \mu T$ at 50Hz Equivalent Noise Level: 18 dB SPL (DIN 45405-C) 15 dB SPL (IEC 179-A) No-Load Amplification (Amplifier): 0.47 ± 0.3 dB Polarization Voltage: +62 volts Response of Bass-Cut Filter: 50 Hz, 70 Hz, 150 Hz : 12 dB/Octave Preattenuation: Switchable 0, -20 dB Weighted Noise Level (Amplifier): 1.5 µV r.m.s. (DIN 45405-C) 0.7 μV r.m.s. (IEC 179-A) Total Dynamic Range (Amplifier): 123 dB (A-weighted, no attenuation)

Power Requirement: 12-52 volts phantom (DIN 45596) Current Consumption: < 1mA Operating Temperature Range: -20°C to +60°C Permissible Humidity Level: 99% at +20°C 95% at +60°C Dimensions (Complete Microphone): 21mm Dia. x 183mm Length Finish: Non-Reflective Black Chromium Plated Connector: 3 PIN XLR-Type Net Weight: 160g (5.6 oz.) Capsule Contact: Self-Cleaning, Gold Plated C-460B System Includes: C-460B Preamplifier **CK-1** Cardioid Capsule A-60 Thread Adapter/Shock Mount SA-30 Flex. Snap-in Stand Adapter with 5/8-in. -27 Thread W-32 Foam Windscreen Foam-lined Vinyl Case **Optional Accessories:** Capsules: CK-1S, CK-1X, CK-2X, CK-3, CK-5, CK-8, CK-22 Extension Tubes: VR-1, VR-11 Swivel: A-51 Stand Adapter: SA-18/3 Clamping Type Shock Mount: H-24 Power Supplies: A-52, N-62E, N-62ET, N-66E KM-Series Floor and Boom Stands, Stand Accessories MCH-Series Heavy-duty Microphone Cable Assemblies

CK-1 CARDIOID CAPSULE



C-460B PREAMPLIFIER



A: Bass cut at 50 Hz
B: Bass cut at 70 Hz
C: Bass cut at 150 Hz

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