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.

### 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: ± 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 μV/μT at 50Hz
- **Equivalent Noise Level:**
  - 18 dB SPL (DIN 45406-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
- **Preamplutention:** 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)

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

- **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

The 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
- KM-Series Floor and Boom Stands, Stand Accessories
- MCH-Series Heavy-duty Microphone Cable Assemblies

\[1 \text{ Pa (Pascal)} = 10 \mu\text{bar} = 10 \text{ dynes/cm}^2 = 94 \text{ dB SPL}\]
**FREQUENCY AND POLAR RESPONSE**

**CK-1 CARDIOID CAPSULE**

Frequency response curve

- **20 Hz**
- **50 Hz**
- **100 Hz**
- **200 Hz**
- **500 Hz**
- **1000 Hz**
- **2000 Hz**
- **5000 Hz**
- **10,000 Hz**
- **20,000 Hz**

Polar diagram

- **M.N. REJECTION AT 180° OFF AXIS, AT DISTANCES SHOWN.**
- **MINIMUM REJECTION ALLOWABLE WITHIN AXIS.**
- **ONE OCTAVE FAR ENOUGH TO INTERCEPT PLANE WAVEFRONT.**

**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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