

# AKG.STUDIO.PRECISION

**C 451 B -  
It was Worth  
Waiting for.**

**PRECISE ARTISTIC WORK  
DESERVES PRECISE ARTISTIC  
CRAFTSMANSHIP.**



# AKG.STUDIO.PRECISION

- Identical acoustics of the legendary CK 1.
- Rugged construction.
- Ruler-flat on-axis frequency response.
- Precise, nearly frequency independent cardioid.
- Extremely accurate signal transfer.
- Transformerless output stage for minimum distortion at low frequencies.
- Protected against electrostatic and magnetic interference.
- Selectable 10-dB and 20-dB preattenuation pads.
- Switchable highpass filter (75 Hz or 150 Hz, 12 dB/octave).
- Operates on phantom power to DIN/IEC between 12 V and 48 V.
- Complete with SA 40 stand adapter and W 90 windscreen.
- Each microphone comes with its own individual frequency response plot.

## C 451 B - It was V

A classic by now, the CMS Series CK 1 capsule from AKG was a best seller from the moment it was launched in 1969. Comprising a range of interchangeable capsules and preamps as well as then innovative, dedicated accessories, the CMS Series from AKG quickly became a legend. It was discontinued in 1993.

Responding to growing demand from recording engineers, AKG decided to produce the **C 451 B with identical acoustical behaviour of the popular original C 451 EB + CK 1 microphone** again, with dramatically **improved specifications and outstanding price/performance**.

The capsule of the new version is **fixed permanently to the preamp** to eliminate the mechanical problems of the screw joint. Using an extremely **light diaphragm, the new C 451 B is almost totally insensitive to handling noise**. An all-metal body provides **excellent protection from RF interference** and the microphone is rugged enough to give excellent results even under very harsh conditions.

The C 451 B is an excellent tool **for accurately capturing signals rich in transients such as drums, overhead miking, or other instruments with a percussive sound**. The airy sound, **high overload limit** of the capsule and electronic circuitry, and improved engineering details of the C 451 B are a solid foundation for creating another legend.

The capsule is permanently fixed to the preamp to increase overall stability under mechanical stress.

A switchable 10-dB/20-dB preattenuation pad increases the microphone's SPL capability when close-miking high-energy sound sources or driving preamps or mixers with limited headroom.

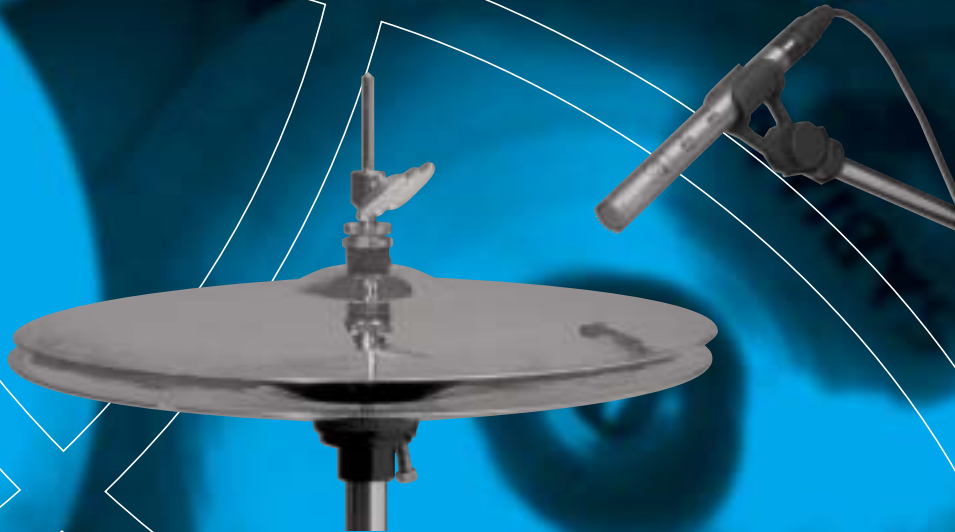
A switchable highpass filter at 75 Hz or 150 Hz prevents low-end distortion due, e.g., to rumble or wind noise.

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Worth Waiting for.

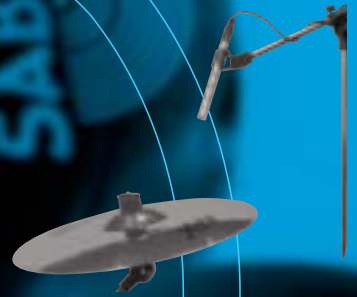


Overhead miking

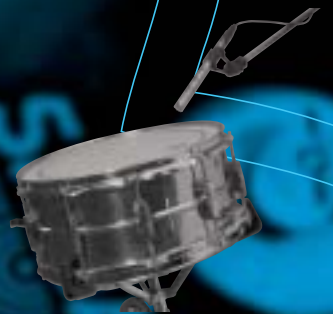


Hi-hat

More Applications:



Cymbals



Snare drum



Percussions



Acoustic guitar

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## Specifications:

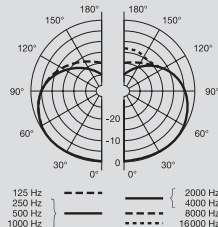
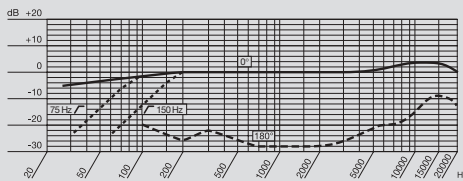
|   |   |
|---|---|
| <b>Polar pattern:</b>                                     | cardioid  |
| <b>Frequency range:</b>                                   | 20 to 20,000 Hz $\pm 1.5$ dB from published curve   |
| <b>Sensitivity:</b>                                       | 9 mV/Pa $\triangle$ -41 dBV re 1 V/Pa   |
| <b>Electrical impedance:</b>                              | < 200 ohms  |
| <b>Recommended load impedance:</b>                        | > 1000 ohms   |
| <b>Max. SPL for 0.5% THD:</b>                             | 112 Pa $\triangle$ 135 dB SPL with 0 dB preattenuation*)<br>355 Pa $\triangle$ 145 dB SPL with 10 dB preattenuation*)<br>1120 Pa $\triangle$ 155 dB SPL with 20 dB preattenuation*) |
| <b>Equivalent noise level to DIN 45 412 (A-weighted):</b> | 18 dB-A   |
| <b>Dynamic range:</b>                                     | 117 dB max. (A-weighted*)   |
| <b>Preattenuation pad:</b>                                | switchable to 0 dB, -10 dB, -20 dB  |
| <b>Highpass filter:</b>                                   | switchable to flat, 12 dB/octave at 75 Hz or 150 Hz   |
| <b>Powering:</b>  | 9 to 52 V phantom power to DIN/IEC 45 596   |
| <b>Current consumption:</b>                               | < 2 mA  |
| <b>Operating temperature:</b>                             | -20°C to +60°C  |
| <b>Relative humidity:</b>                                 | 99% (+20°C); 95% (+60°C)  |
| <b>Connector:</b>   | 3-pin male XLR  |
| <b>Finish:</b>  | satin nickel plated   |
| <b>Size:</b>  | dia.: 19 mm (0.75 in.); length: 160 mm (6.3 in.)  |
| <b>Net/shipping weight:</b>                               | 125 g (4.4 oz.) / 760 g (1.7 lbs.)  |

This product conforms to EN 50 082-1 (1997) provided it is connected to CE marked equipment.  
\*) Values measured with 48-V phantom power. Reduce by 2 dB for 24-V or 8 dB for 12-V phantom power.

## Standard Set:



### Cardioid



## Optional Accessories:



|          |                                |          |                           |
|----------|--------------------------------|----------|---------------------------|
| B 18     | battery power supply           | SA 38/H  | shock mount/stand adapter |
| MK 9/10  | 10-m (33-ft.) connecting cable | ST 45    | small table stand         |
| N 62 E   | two-channel AC power supply    | ST 305   | heavy table stand         |
| N 66 E   | six-channel AC power supply    | ST 12    | short floor stand         |
| PF 80    | pop filter                     | ST 102 A | boom stand                |
| SA 18/1B | all-metal stand adapter        | ST 200   | heavy-duty floor stand    |

Microphones · Headphones · Wireless Microphones · Wireless Headphones · Headsets · Electroacoustical Components

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