



# AKG C1000S Condenser Microphone Instruction Manual

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# AKG

**AKG C1000S Condenser Microphone**



## Safety and Environment

### Risk of damage

Please make sure that the piece of equipment your microphone will be connected to fulfills the safety regulations in force in your country and is fitted with a ground lead.

### Environment

- When the product reaches the end of its life, separate the housing, electronics and cables and dispose of all components in accordance with local waste disposal regulations.
- The packaging can be recycled. Dispose of the packaging in a suitable collection system.

## Description

### Introduction

Thank you for purchasing an AKG product. This Manual contains important instructions for setting up and operating your equipment. Please take a few minutes to read the instructions below carefully before operating the equipment. Please keep the Manual for future reference. Have fun and impress your audience!

### Scope of supply

- C1000S Microphone
- SA63 Tripod adapter
- W1001 Foam wind guard
- PPC1000 Polar pattern converter
- PB1000 Presence boost adapter
- Carrying bag

## Optional Accessories

For optional accessories, refer to the current AKG catalog or folder, or visit [www.akg.com](http://www.akg.com). Your dealer will be glad to help

## Summary

The C1000S cardioid/hypercardioid condenser microphone has been specifically designed for professional live, recording, and broadcast use with vocals and instruments. You can power the microphone either from external phantom power (9 to 52 V to IEC 61938) or use two AA batteries and connect the microphone directly to a mixer, recording device, etc. The combination of a high quality backplate condenser transducer and capsules shock mount optimises handling and cable noise rejection. The microphone body consists of a solid aluminium shaft and screw-on front tube with a rugged stainless steel mesh cap. The microphone uses an internationally standardised 3-pin male XLR output connector.

## PPC1000 Polar pattern converter

Slipping the PPC1000 Polar Pattern converter onto the capsule will change the microphone's pickup pattern from cardioid to hypercardioid. This makes the microphone even less sensitive to sounds from the sides and rear, which is particularly beneficial when using the monitor speakers on stage.



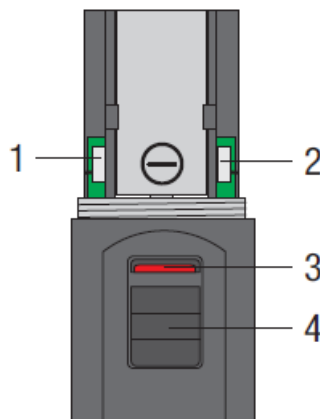
## PB1000 Presence boost adapter

The PB1000 Presence Boost Adapter boosts the sensitivity of the microphone by approx. 5 dB between 5 kHz and 9 kHz for optimum intelligibility of speech



## Controls

- Attenuation selector switch
- Bass-cut selector switch
- Status LED
- On/Off Switch



## Description

### **Attenuation selector switch**

Selector switch 1 on the left-hand side of the microphone enables you to increase the mic level by 10 dB to enable distortion-free recording of very loud sound sources and in close proximity to sound sources. This attenuation prevents the microphone output level from exceeding critical control limits, particularly at low frequencies, in miniature transformers that are used in mixing desk inputs, for example.

### **Bass-cut selector switch**

Rumble or wind noises, etc., may cause distortion at the lowest frequencies, but these can be reduced by simply using the switchable bass-cut. The basscut also counteracts the proximity effect that can occur when the microphone is only a short distance (less than 15 cm) from the sound source. Status LED

### **This LED indicates the current battery status:**

- LED flashes momentarily when switching ON and then extinguishes: Battery is OK.
- LED lit constantly: Battery life of about 60 minutes remaining.

### **On/Off Switch**

The microphone provides an on/off switch with no audible click. In the Off position, the batteries are not used.

## **Powering**

The C1000S is a condenser microphone and therefore needs a power supply. When powered by two AA batteries, the microphone can be used independently of external phantom power without a loss in audio quality. When operating using external phantom power, however, the microphone will automatically switch from battery to phantom power mode. The microphone provides a balanced output on a 3-pin male XLR connector:

- Pin 1: ground
- Pin 2: hot
- Pin 3: return

You can connect the microphone either to a balanced microphone input with or without phantom power or an unbalanced microphone input.

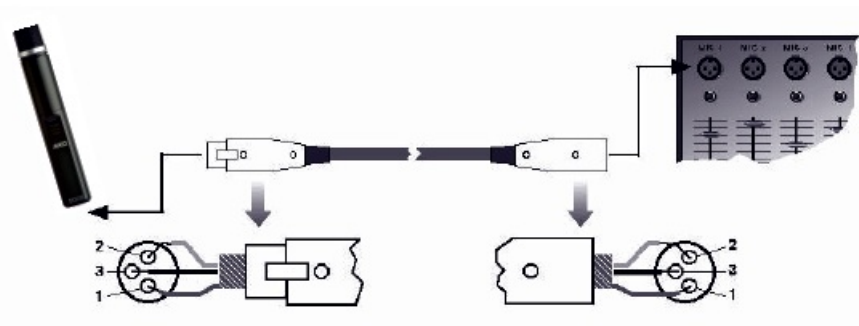
## **Battery power**

### **Inserting/replacing and testing the batteries**

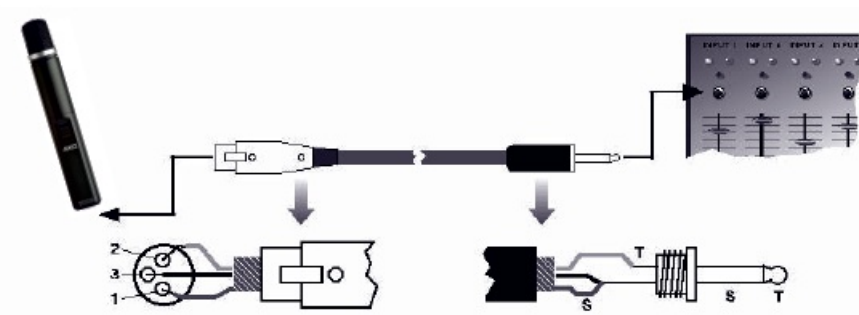
- Unscrew the wire-mesh cap (1).
- Insert two AA batteries into the battery compartment to conform with the polarity marks (+/-).
- If the batteries are inserted incorrectly, the microphone will not work.
- Screw the wire-mesh cap back onto the microphone.
- Slide the on/off switch (3) up to "ON" to switch power to the microphone on.
- The Status LED (2) will flash momentarily. If the batteries are in good condition, the Status LED will extinguish.
- If the Status LED fails to flash, the batteries are dead. Insert new batteries.
- If the Status LED lit constantly, the batteries will be flat within about one hour. Replace with new batteries as soon as possible



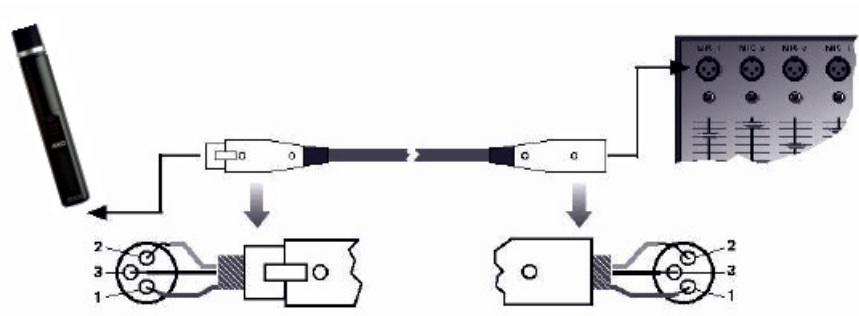
### Connecting to a balanced input



### Connecting to an unbalanced input



### Phantom power



## Application

- Unscrew the wire-mesh cap.



- Slip the PPC1000 or PB1000 (1) onto the microphone capsule to the stop, slightly turning it as you push it into position.

## Cleaning

**Microphone:** Use a soft cloth moistened with water to clean the surface of the microphone body

## Internal Windscreen

- Unscrew the front grill from the microphone CCW.
- Remove the windscreen from the front grill and wash the windscreen in soap suds.
- Allow the windscreen to dry overnight.
- Replace the windscreen in the front grill and screw the front grill on the microphone CW.

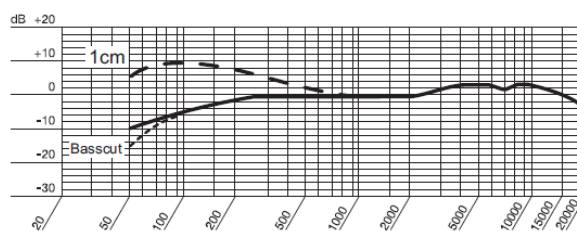
## Troubleshooting

| Problem                                     | Possible cause   | Remedy  |
|---|--|---|
| No sound                                    | Power to mixer and/or amplifier is off.                                      | Switch power to mixer and/or amplifier on   |
|   | Channel or master fader on mixer, or volume control on amplifier is at zero. | Set channel or master fader on mixer or volume control on amplifier to desired level. |
|   | Microphone is not connected to mixer or amplifier.                           | Connect microphone to mixer or amplifier.   |
|   | Cable connectors are seated loosely.   | Check cable connectors for secure seating.  |
|   | Cable is defective.  | Check cable and replace if damaged.   |
|   | No supply voltage.   | Switch phantom power on. Check cable and replace if damaged.                          |
|   | Batteries dead/no batteries inserted.  | Check/insert batteries.   |
| Distortion                                  | Gain control on mixer set too high.  | Turn gain control down.   |
|   | Mixer input sensitivity too high.  | Connect a 10-dB attenuation pad between microphone cable and input.                   |
| Microphone sound becomes increasingly dull. | Internal or external windscreen attenuates high frequencies when soiled.     | Clean internal or external windscreen.  |

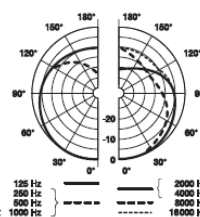
## Specifications

|                                      |   |
|--------------------------------------|---|
| Working principle:                   | Pre-polarised condenser microphone  |
| Polar pattern:                       | Cardioid, hypercardioid (with PPC1000 mounted)                                    |
| Frequency range:                     | 50 to 20,000 Hz   |
| Sensitivity:                         | 6 mV/Pa (-44 dBV)   |
| Max. SPL for 1% THD:                 | 137 dB  |
| Equivalent noise level (CCIR 468-3): | 32 dB   |
| Equivalent noise level:              | 21 dB-A   |
| Signal/noise ratio (A-weighted):     | 73 dB   |
| Electrical impedance:                | 200 ohms  |
| Recommended load impedance:          | ≥ 2000 ohms   |
| Bass cut filter slope:               | Switchable to linear, 80 Hz   |
| Attenuation:                         | Switchable to -10 dB  |
| Powering:                            | 9 to 52 V phantom power to IEC 61938 or two AA alkaline or rechargeable batteries |
| Current consumption:                 | approx. 3 mA  |
| Connector:                           | 3-pin XLR   |
| Finish:                              | matte grayish blue  |
| Dimensions:                          | ø 33.5 x 229 mm / ø 1.32 x 9.01 in.   |
| Net weight:                          | 320 g   |
| Shipping weight:                     | 510 g   |

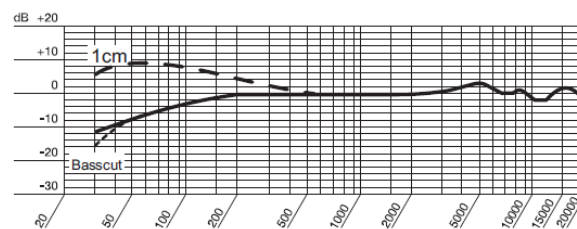
Frequency Response  
(Cardioid)



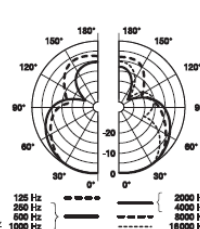
Polar Diagram  
(Cardioid)



Frequency Response  
(Hypercardioid)



Polar Diagram  
(Hypercardioid)



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## FAQs

What is the AKG C1000S Condenser Microphone?

The AKG C1000S is a versatile small-diaphragm condenser microphone suitable for a wide range of audio recording applications.

Is the AKG C1000S a battery-powered microphone?

Yes, the AKG C1000S can be powered by two standard AA batteries, making it portable and convenient for

field recording.

What are the typical applications for the AKG C1000S?

The AKG C1000S is commonly used for recording vocals, acoustic instruments, drum overheads, and sound reinforcement in live settings.

Does the AKG C1000S have switchable polar patterns?

Yes, it features two switchable polar patterns: cardioid and hypercardioid, providing flexibility in recording various sound sources.

What is the frequency response range of the AKG C1000S?

The AKG C1000S has a wide frequency response range of 50Hz to 20kHz, capturing a broad spectrum of audio frequencies.

Is the AKG C1000S suitable for recording loud sources?

Yes, it can handle high sound pressure levels, making it suitable for recording loud instruments like guitar amps and drums.

Does the AKG C1000S come with accessories?

Yes, it typically comes with accessories like a microphone clamp and a foam windscreen for added convenience during recording.

Is the AKG C1000S a good choice for studio recording?

While it's often used for live sound reinforcement, it can also be used for studio recording when a small-diaphragm condenser microphone is needed.

Can the AKG C1000S be used for outdoor recording?

Yes, its battery operation and rugged design make it suitable for outdoor and field recording.

What is the self-noise level of the AKG C1000S?

The AKG C1000S has a low self-noise level, which is beneficial for capturing clean and clear audio.

Does the AKG C1000S come with a warranty?

Yes, the AKG C1000S typically comes with a manufacturer's warranty to ensure product quality and

performance.

Is the AKG C1000S compatible with professional audio equipment?

Yes, it features an XLR output, making it compatible with a wide range of audio interfaces, mixers, and professional equipment.

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