

AKG C414 XLII

AKG Pro Audio C414 XLII Condenser Microphone Instruction Manual

MODEL: C414 XLII

Brand: AKG

Introduction

The AKG Pro C414 XLII is a professional large-diaphragm condenser microphone designed for versatile audio capture. It features multiple polar patterns, attenuation levels, and bass-cut filters to adapt to various recording environments and sound sources. This manual provides essential information for the proper setup, operation, and care of your C414 XLII microphone.

What's in the Box

Your AKG C414 XLII package includes the following components:

- 1 x C414 XLII Microphone
- 1 x H85 Universal Shock Mount
- 1 x PF80 Pop Filter
- 1 x W414 Windscreen
- 1 x Metal Carrying Case



Figure 1: Included components of the AKG C414 XLII microphone package.

Setup

1. **Attach Shock Mount:** Secure the C414 XLII microphone into the H85 Universal Shock Mount. The shock mount helps to isolate the microphone from vibrations and handling noise.
2. **Mount to Stand:** Attach the shock mount assembly to a microphone stand.
3. **Connect XLR Cable:** Connect a standard XLR cable (not included) to the microphone's XLR connector at the base. Ensure a secure connection.
4. **Connect to Audio Interface:** Connect the other end of the XLR cable to an audio interface or mixer that provides +48V phantom power. The C414 XLII requires phantom power to operate.
5. **Attach Pop Filter/Windscreen:** For vocal recordings, attach the PF80 Pop Filter to the microphone stand, positioning it between the vocalist and the microphone to reduce plosive sounds. For outdoor use or to minimize wind noise, use the W414 Windscreen.

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Video 1: Overview of the AKG C414 XLII microphone and its components, including setup with a shock mount.

Operating Instructions

The AKG C414 XLII offers several adjustable settings to optimize performance for different recording scenarios.

1. Polar Pattern Selection

The microphone features nine selectable polar patterns, allowing you to choose the directionality of sound capture. Use the switches on the front of the microphone to cycle through the patterns:

- **Cardioid:** Picks up sound primarily from the front, rejecting sound from the sides and rear. Ideal for vocals and close-miking instruments.
- **Figure of Eight:** Picks up sound equally from the front and rear, rejecting sound from the sides. Useful for duets or capturing room ambiance.
- **Hypercardioid:** A tighter version of cardioid, offering more side rejection and a small lobe of sensitivity at the rear.
- **Omnidirectional:** Picks up sound equally from all directions. Suitable for capturing room sound or multiple sources.
- **Wide Cardioid:** A broader cardioid pattern, offering a wider pickup angle than standard cardioid.
- Additional intermediate patterns are also available.





Figure 2: Front of the C414 XLII with polar pattern selection switches.

2. Attenuation Levels (Pad)

The C414 XLII features three attenuation levels (-6 dB, -12 dB, -18 dB) to prevent overload when recording very loud sound sources. Use the switch on the back of the microphone to select the appropriate pad setting.

3. Bass-Cut Filters

Three different switchable bass-cut filters (40 Hz, 80 Hz, 160 Hz) are available to minimize unwanted low-frequency noise such as wind noise, stage vibration, or proximity effect. Use the switch on the back of the microphone to select the desired filter.





Figure 3: Back of the C414 XLII with attenuation and bass-cut filter switches.



Figure 4: Detailed diagram of C414 XLII controls including polar patterns, attenuation, and bass-cut filters.

Maintenance

- Store the microphone in its metal carrying case when not in use to protect it from dust and physical damage.
- Avoid exposing the microphone to extreme temperatures or high humidity.
- Clean the microphone's exterior with a soft, dry cloth. Do not use liquid cleaners or solvents.
- Ensure the microphone is disconnected from phantom power before connecting or disconnecting cables.

Troubleshooting

If you experience issues with your AKG C414 XLII microphone, consider the following:

- **No Sound:** Ensure +48V phantom power is enabled on your audio interface/mixer. Check all cable connections for security.
- **Distorted Sound:** If the sound is distorted, activate an attenuation pad (-6 dB, -12 dB, or -18 dB) on the microphone to reduce the input level, especially with loud sound sources.
- **Excessive Low-End Noise:** Engage one of the bass-cut filters (40 Hz, 80 Hz, or 160 Hz) to reduce unwanted low-

frequency rumble or proximity effect.

- **Intermittent Signal:** Check XLR cable for damage or loose connections. Try a different cable if possible.

Specifications

Feature	Detail
Audio Sensitivity	158 Decibels
Item Weight	1.6 ounces
Microphone Form Factor	Large Diaphragm
Item dimensions L x W x H	11.3 x 9.6 x 5.5 inches
Material	Aluminum
Signal-to-Noise Ratio	88 dB
Number of Channels	1
Frequency Response	20000 Hz
Manufacturer	AKG
Connectivity Technology	Wired
Connector Type	XLR
Polar Pattern	Multipattern - Cardioid, Figure of Eight, Hypercardioid, Omnidirectional, and Wide Cardioid







Warranty and Support

The product warranty for AKG products applies only when the purchase is made from AKG Authorized North American Dealers. For technical support or further assistance, please refer to the official AKG website or contact your authorized dealer.

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Video 2: Official product overview of the AKG C414 XLII microphone.

Related Documents - C414 XLII

	<p>AKG C414 XLS / C414 XLII Referenz-Mehrbereichs-Kondensatormikrofone Bedienungsanleitung</p> <p>Diese Bedienungsanleitung bietet detaillierte Informationen zu den AKG C414 XLS und C414 XLII Referenz-Mehrbereichs-Kondensatormikrofonen, einschließlich Funktionen, Anwendungshinweisen und technischen Daten für professionelle Audioaufnahmen.</p>
	<p>AKG C535 EB Reference Condenser Vocal Microphone - User Manual</p> <p>Comprehensive user manual for the AKG C535 EB Reference Condenser Vocal Microphone, covering features, applications, technical specifications, and servicing. Learn how to use and maintain your professional condenser microphone.</p>
	<p>AKG C451 B Reference Condenser Vocal Microphone User Manual</p> <p>User guide for the AKG C451 B, a high-quality reference condenser vocal microphone, providing essential instructions for operation and setup.</p>
	<p>AKG C214 Professional Large-Diaphragm Condenser Microphone User Manual</p> <p>User manual for the AKG C214 professional large-diaphragm condenser microphone. This guide details features, package contents, power requirements, detailed microphone placement techniques for vocals and various instruments, cleaning instructions, and comprehensive technical specifications. Includes diagrams and tables for easy reference.</p>
	<p>AKG C535 EB Referenz Kondensator Gesangsmikrofon Bedienungsanleitung</p> <p>Umfassende Bedienungsanleitung für das AKG C535 EB Referenz Kondensator Gesangsmikrofon, einschließlich technischer Daten, Anwendungshinweisen und Wartungstipps.</p>
	<p>AKG Perception 120 & 220 Condenser Microphones User Manual</p> <p>Comprehensive user manual for AKG Perception 120 and Perception 220 condenser microphones, covering features, setup, usage, troubleshooting, and specifications.</p>