

# G414 B-ULS

## Large Diaphragm Condenser Microphone

## **Description**

The AKG model C 414 B-ULS is certainly the most ubiquitous studio condenser microphone in the United States, and very likely in the rest of the world as well. It is designed around dual back-to-back large 25 mm (1 in.) gold sputtered diaphragms for multiple pickup patterns. The microphone's pickup patterns are easily switchable among omnidirectional, cardioid, hypercardioid, and figure eight. Additional flexibility in the studio operating environment allows bass cut of 12 dB/octave below 150 or 75 Hz and pre-preamp attenuation of either 10 or 20 dB. The self noise of the microphone is a low 14 dB (A weighted). Microphone on-axis sensitivity for all patterns is 12.5 mV/Pa, and for unpadded operation maximum program level is 140 dB for 0.5% total harmonic distortion.

The C 414 B-ULS is one of the most accurate multipattern microphones available to the engineer. The farfield on-axis response for all four switchable patterns is remarkably flat, varying no more than +2 dB over the range from 20 to 20 kHz.

### **Features**

- One of the world's most celebrated stereo condenser microphones
- Large 25 millimeter gold sputtered diaphragm format optimized for studio applications
- Tdual diaphragm for multiple polar patterns
- High acoustic level capability (140 dB-SPL for 0.5 % THD)
- Low self noise (14 dB-A)

## **Specifications**

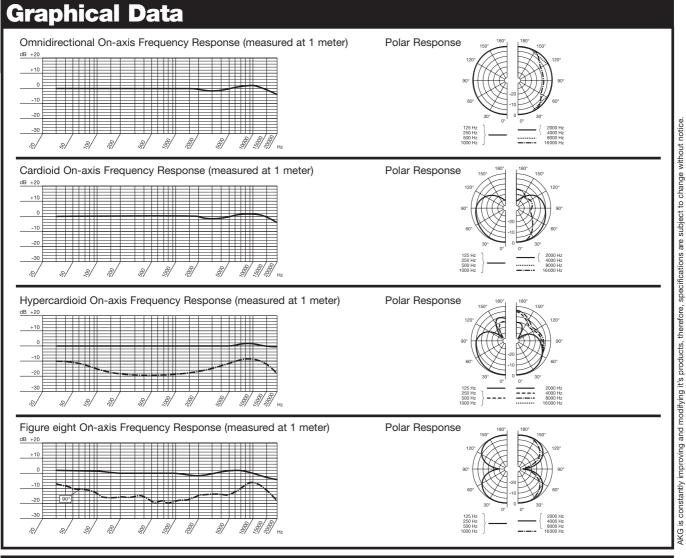
Сросинов	
Transducer Principle:	condenser, externally polarized
Frequency Range:	20–20,000 Hz
Polar Pattern:	Omnidirectional, cardioid, figure-eight and six intermediate positions
Sensitivity at 1,000 Hz:	12.5 mV/Pa <sup>^</sup> -38 dBV
<b>Equivalent Noise Level:</b>	14 dB-A
Sound Pressure Level f	or 0.5 % THD: 134 dB, wide-band (unpadded) 140 dB, 1 kHz (unpadded)
S/N Ratio (A-weighted): 80 dB	
Electr. Impedance:	180 ohms
Load Impedance:	> 1,000 ohms
Power Requirement:	12–48 volts nominal Phantom powering
Connector:	3-pin XLR type
Finish:	non reflective black
Size:	141 x 45 x 35 mm (5.6 x 1.8 x 1.4 in.)
Net/Shipping Weight:	320 g (11 oz.)/950 g (2.1 lbs.)
Included Accessories:	H 100 Elastic Suspension W 414 Windscreen
Optional Accessories:	PF 100 Pop filter (for recording) B 18 Battery supply unit N 62 E, N 66 E Power supplies



## **Architect's and Engineer's Specifications**

The microphone shall provide at least four switchable pickup patterns that are nominally omnidirectional, cardioid, hypercardioid, and figure-eight. The microphone shall have maximum sensitivity along its radius, and that sensitivity shall be no less than 12.5 mV/Pa for all patterns. The microphone shall provide a switchable 12 dB/octave rolloff at frequencies of 75 and 150 Hz. Pre-preamp attenuation switches of -10 and -20 dB shall also be provided, and the

self noise floor of the microphone in its unpadded operation shall be no greater than 14 dB (A weighted). The unpadded microphone shall operate in a wide-band sound field of 140 dB-SPL with no more than 0.5 % total harmonic distortion. The microphone case shall fit within a rectangular envelope no larger than 141 x 45 x 35 mm. The microphone shall be the AKG model 414 B-ULS.



#### **Limited Warranty**

Valid only in the United States. AKG Acoustics warrants AKG products against defects in material or workmanship for a period of one year from the data of original purchase for use, and agrees to repair or, at our option, replace any defective unit without charge for either parts or labor. Important: This warranty does not cover damage resulting from accident, misuse or abuse, lack of reasonable care, the affixing of any attachment not provided with the product, loss of parts or connecting the product to any but the specified receptacles. This warranty is void unless service or repairs are performed by an authorized service center

No responsibility is assumed for any special, incidental or consequential damages. However, the limitation of any right or remedy shall not be effective where such is prohibited or restricted by law. Simply take or ship you AKG product prepaid to our service department. Be sure to include your sales slip as proof of purchase date. (We will not repair transit damage under the no-charge terms of this warranty,) Note: No other warranty, written or oral is authorized by AKG Acoustics, Inc. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages or limitation on how long an implied warranty lasts, so the above exclusions and limitation may not apply to you.

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



#### AKG Acoustics GmbH

Lemböckgasse 21–25, P.O.B. 158, A-1230 Vienna/AUSTRIA Tel: (43 1) 86 654-0\*, Fax: (43 1) 86 654-516 Internet: http://www.akg-acoustics.com

AKG Acoustics; A Division of Harman Pro Germany Bodenseestraße 228, D-81243 München/GERMANY Tel: (089) 87 16-0, Fax: (089) 87 16-200

#### Arbiter Pro Audio

Wilberforce Road, London NW9 6AX/ENGLAND Tel: (0181) 202 1199, Fax: (0181) 202 7076

#### AKG ACOUSTICS, U.S.

1449 Donelson Pike, Airpark Business Centre 12, Nashville, TN 37217, U.S.A. Tel: (615) 360-0499, Fax: (615) 360-0275

#### Studer Japan Ltd.

2-43-7, Uehara, Shibuya-ku, Tokyo 151-0064/JAPAN Tel: (813) 3465-2211, Fax: (813) 3465-2214

#### Erikson Pro Audio

620 McCaffrey, St-Laurent, Quebec, H4T 1N1, CANADA Tel: (514) 738-3000, Fax: (514) 737-5069 Internet: www.jam-ind.com/eriksonpro