



H A Harman International Company

C414B/TLII

Condenser Microphone

Description

There are probably more AKG C414 microphones in studios worldwide than any other 1-inch condenser multi-pattern microphone model from any manufacturer. The reasons are numerous: these microphones are workhorses in all areas of recording, from the pop studio to classical recording venues. Their variety of polar patterns, along with two degrees of bass cut and two levels of padding, make them ideal for recording just about any vocal or instrument under any conceivable working condition in the studio.

The AKG C414B/TLII is the latest of a series of variations on the basic C414 design and draws from AKG's early studio heritage, the legendary model C12. The CK12 dual diaphragm capsule has been recreated, with its combination of warmth and presence, and combined with modern solidstate transformerless circuitry. The early CK12's were all slightly different in response -- a consequence of individual hand-crafting. Today we bring a higher degree of uniformity to the production line, and the new C414B/TLII models are quite consistent in response. Also, an H100 spider suspension shock mount and W414 windscreen are included as standard accessories.

Specifications

Transducer type:	Dual diaphragm, 1 in. (25 mm) diameter pressure gradient
Diaphragm material:	Gold-sputtered mylar foil
Frequency response:	20 Hz - 20 kHz (+1.5/-1.0 dB)
Polar patterns:	Omnidirectional, cardioid and hypercardioid
Impedance:	180 ohms
Recommended load impedance:	greater than 600 ohms
Output connector:	XLR (pin 2 positive, per IEC standard)
Sensitivity at 1 kHz:	12.5 mV/Pa; -38 dB (dB re 1 V)
Equivalent noise level (A-weighted):	14 dB (DIN 45412)
Sound pressure level for 0.5% THD:	140 dB (160 dB SPL with -20 dB preattenuation) 30 Hz - 20 kHz
S/N ratio re 1 Pa (A-weighted):	80 dB
Environmental:	Operating temperature: 14° F to 140° F (-10°C to + 60°C) Relative humidity: 90% (+20°C), 85% (60°C)
Pre-attenuation switch:	-10 or -20 dB
Low frequency rolloff:	12 dB/octave below 75 or 150 Hz
Power requirement:	12 to 48 V phantom power nominal
Current consumption:	less than 2 mA
Microphone size:	5.6" x 1.8" x 1.4" (141 mm x 45 mm x 35 mm)
Microphone net weight:	11 oz (0.31 kg)
Shipping weight:	33.6 oz (0.97 kg)
Standard accessories:	H100 Spider shock mount W414 Foam windscreen
Optional Accessory:	SA18/3B Stand adapter

Features

- One of the world's most popular studio 1-inch condenser microphones
- Response patterned after the AKG classic C 12 microphone
- Four selectable polar patterns (omni, cardioid, hypercardioid and figure-eight)
- Operates with phantom powering from 12 to 48 volts nominal
- Broad response rise in the 3 kHz range enhances vocal presence in the studio
- Includes an H100 isolation shock mount and W414 windscreen



Architects and Engineers Specifications

The microphone shall be a 25 mm condenser type with dual diaphragm construction and with switchable omnidirectional, cardioid, hypercardioid and figure-8 polar patterns. The diaphragm material shall be gold sputtered foil, and the on-axis sensitivity shall be uniform for all patterns, and no less than 12.5 mV/Pa. The inherent noise floor of the microphone shall be no greater than 14 dB (A-weighted), and the operating sound field for 0.5% THD shall be no less than 140 dB. The microphone

size shall be no greater than 5.55 x 1.77 x 1.37 inches, and the microphone net weight shall be no greater than 10.93 ounces. The microphone shall include an H100 isolation shock mount and W414 windscreens as standard accessories. The microphone shall operate over the entire range of phantom powering from 12 to 48 volts. The microphone shall be the AKG Acoustics Model C414B/TLII.

Graphical Data

Cardioid

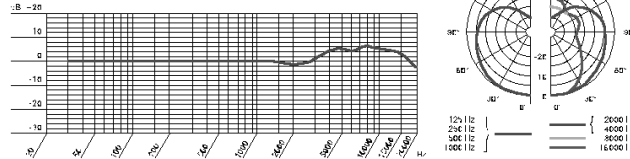
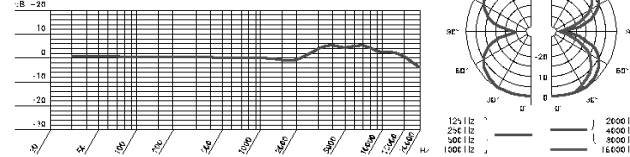
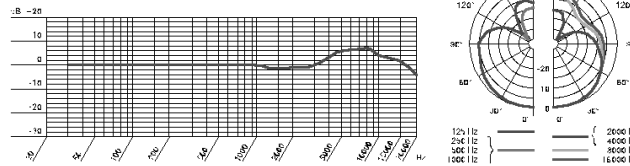


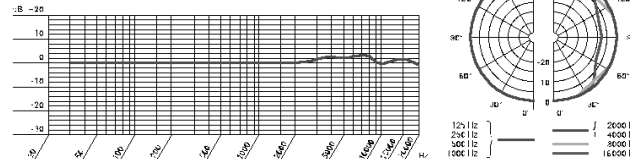
Figure eight



Hypercardioid



Omni directional



AKG is constantly improving and modifying its products, therefore, specifications are subject to change without notice.

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 date 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 your 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..

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