



H A Harman International Company

SOLIDTUBE

Tube Condenser Microphone

Description

It has been said that the AKG SOLIDTUBE is what a modern large diaphragm condenser microphone would look like if the transistor had never been developed. Everything about it is in fact modern, except the use of the ECC 83 (12AX7) vacuum tube. The microphone was introduced on the occasion of AKG's fiftieth anniversary, and it was designed from the ground up as a new expression of the tube philosophy which many recording engineers have never lost sight of -- sound warmth and the generous margin of overload that tube/transformer output stages are known for. Only the power supply makes use of solid state components.

Much of the "signature" of large format condenser microphones lies in the geometry that surrounds the diaphragm assembly. The SOLIDTUBE has a large housing/screen assembly which reacts minimally with the capsule, creating a broad +6 dB peak in response only above 10 kHz. Over most of the range the response lies within a window of ± 2 dB. Midband pattern rejection at 180° is in excess of 20 dB.

The microphone is response tailored for solo vocal and instrumental pickup in the studio, and as such has only a dedicated cardioid pattern. The Solidtube is shipped with all necessary cabling, an isolation shock mount, windscreen and a custom aluminum flight case.

Specifications

SOLIDTUBE Microphone:

Transducer type:	1 in. (25 mm) diaphragm pressure gradient
Diaphragm material:	Gold-sputtered mylar foil
Tube type:	ECC 83 (12AX7)
Frequency response:	20 Hz - 20 kHz
Polar pattern:	Cardioid
Impedance:	200 ohms $\pm 25\%$
Recommended load impedance:	greater than 600 ohms
Sensitivity at 1 kHz:	20 mV/Pa; -34 dB (dB re 1 V)
Equivalent noise level (A-weighted):	20 dB (DIN 45412)
Sound pressure level for 3% THD:	130 dB (145 dB SPL with -20dB preattenuation)
Dynamic Range:	110 dB
S/N ratio re 1 Pa (A-weighted):	74 dB
Pre-attenuation switch:	-20 dB
Low frequency rolloff:	12 dB/octave below 100 Hz
Current consumption:	less than 2 mA
Microphone size:	2.5" (63.5 mm) diameter; 8.6" (219 mm) length
Microphone net weight:	2 lb (0.92 kg)

Features

- **Dedicated cardioid pattern with response tailored to solo vocals and instrumentals in the modern studio**
- **Wide dynamic range of 110 dB in the studio**
- **Integral 20-dB pre-attenuation switch**
- **Low frequency cut at 100 Hz**
- **Includes aluminum flight case, with all necessary cabling, shock mount and windscreen**



Specifications contd.

SOLIDTUBE Power Supply:

Power requirements:	115/230 Vac
Current consumption:	40 mA @ 230 Vac, 80 mA @ 115 Vac
Fuse size/type:	Type TO, 1 A slow blow, (5 x 20 mm)
Power supply dimensions:	9" x 2.8" x 5.9" (W x H x D), (228 x 70 x 150 mm)
Power supply weight:	3.2 lb (1.5 kg)
Microphone connector:	6 pin XLR
Output connector:	3 pin XLR
LF cut:	12 dB/octave, 100 Hz
Ground lift:	isolates signal ground from chassis ground

SOLIDTUBE system shipping weight: 11 lb (5.0 kg)

Included accessories: N-SOLIDTUBE power supply unit
H-SOLID elastic shock mount suspension
MK-SOLID power supply cable (30 ft)/10 m
W-SOLID foam wind/pop screen
Power cables (European and North American) Custom flight case

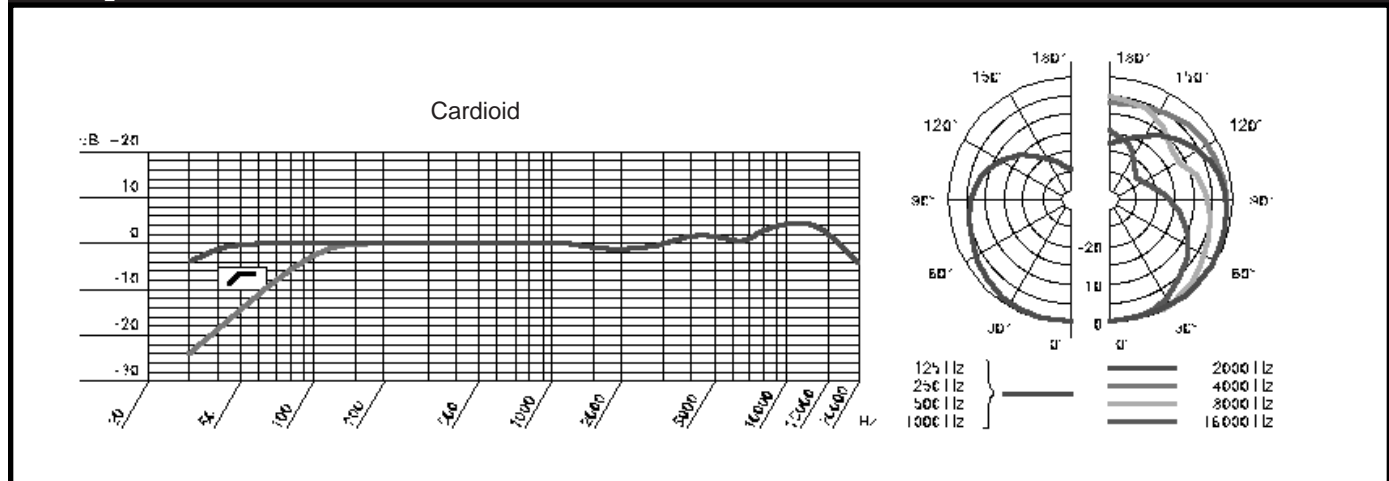
Optional accessories: PF100 pop screen with integrated gooseneck and stand mount

Architects and Engineers Specifications

The microphone shall be a 1 inch tube type condenser with a dedicated cardioid pattern. The diaphragm material shall be gold-sputtered mylar foil, and the on-axis sensitivity shall be no less than 20 mV/Pa. The inherent noise floor of the microphone shall be no greater than 20 dB (A-weighted), and the operating sound field for 3% THD shall be no less than 130 dB. The microphone size shall be no greater than 2.5 inches in diameter and 8.62 inches in

length, and the microphone net weight shall be no greater than 2.02 pounds. The microphone shall be powered by an external power supply. Facilities for low cut, 12 dB/octave at 100 Hz, and pre-attenuation of 20 dB shall be included. An aluminum flight case, all cabling, isolation shock mount, and windscreens shall be included as standard accessories. The microphone shall be the AKG Acoustics SOLIDTUBE.

Graphical Data



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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