



# D 58 E/D 58 E Black

H A Harman International Company

## Noise Cancelling Dynamic Microphone

### Description

This noise cancelling microphone is a gradient model which has its diaphragm assembly tuned to a mid-range frequency. As such, the D 58 E will give fairly flat response to near sources (due to proximity effect rise at low frequencies) while exhibiting a strong mid frequency and bass roll-off for sounds arriving from a distance. It is necessary that the microphone be addressed at distances no greater than about 2 inches (5 cm) for the speaker's voice to be clear and natural. The microphone is quite small and can thus be used at very short working distances without disturbing the user.

In addition, the close-in response of the microphone exhibits a broad rise in the mid-range between 1 and 5 kHz in order to improve speech intelligibility when the microphone is used in noisy environments. The D 58 E is rugged, lightweight, and operates well over a wide range of both temperature and humidity.

The Model D 58 E Black is the same as the D 58 E except for a black finish.



### Specifications

<b>Transducer type:</b>	Dynamic pressure gradient
<b>Frequency response:</b>	70 Hz to 10 kHz, $\pm 3$ dB
<b>Polar pattern:</b>	Hypercardioid
<b>Impedance at 1 kHz:</b>	240 ohms
<b>Recommended load impedance:</b>	Greater than 500 ohms
<b>Sensitivity:</b>	0.72 mV/Pa; -63 dB (re 1 V)
<b>Sound pressure level for 1% THD:</b>	130 dB (50 Pa)
<b>Hum sensitivity:</b>	-131 dBm (1 mG field)
<b>Environmental operating range:</b>	Temperature: 14° F to 140° F (-10°C to + 60°C) Maximum relative humidity: 90%
<b>Size:</b>	0.8" (20 mm) diameter 1.6" (42 mm) length
<b>Materials:</b>	Case: nickel-plated bronze; Sound Entry: sintered bronze screen and wire mesh grille
<b>Net weight:</b>	1.4 oz. (40 g)
<b>Shipping weight:</b>	5.3 oz. (150 g)
<b>Optional accessory:</b>	W 32 windscreen

### Features

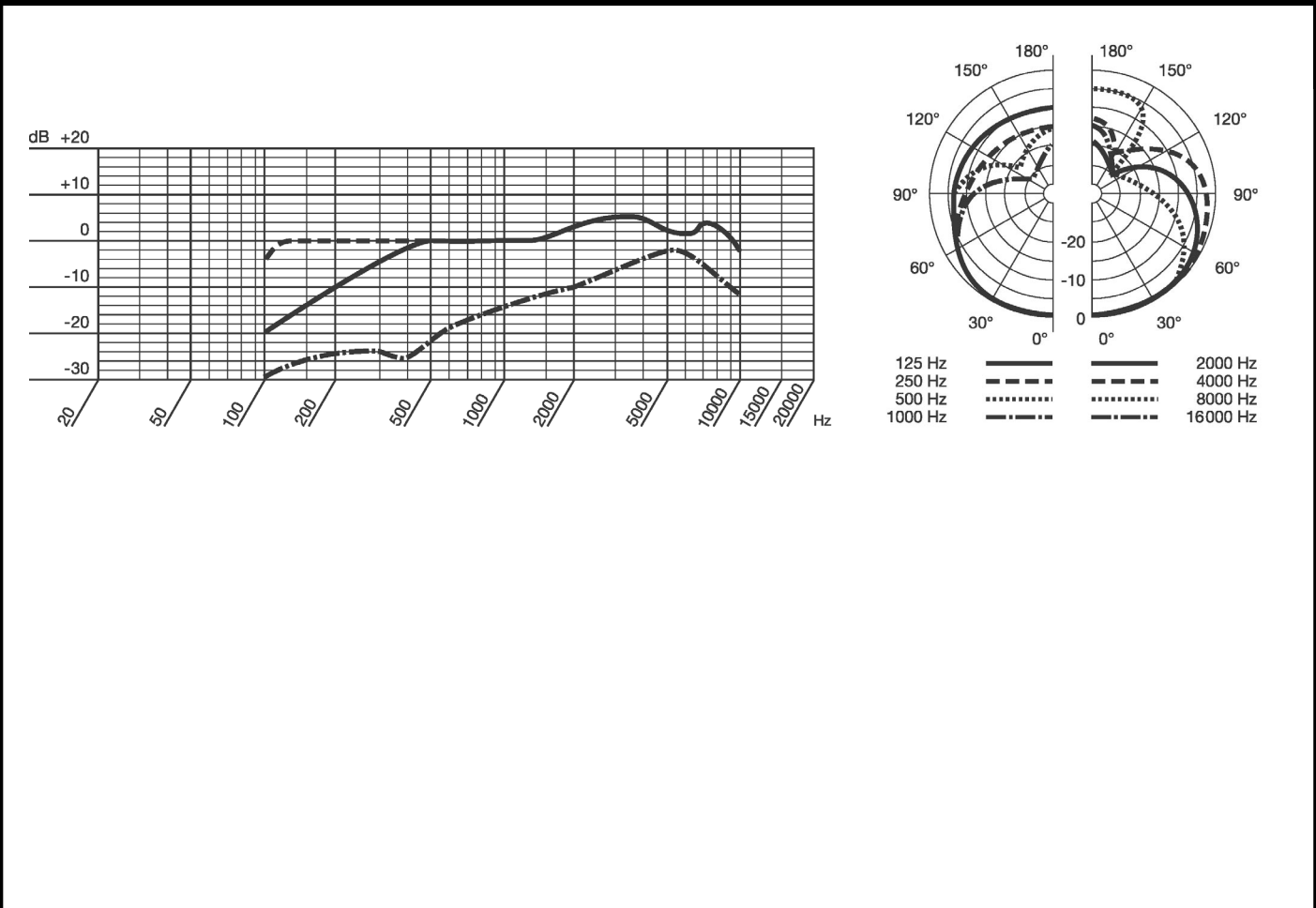
- High rejection of distant sound sources
- Hypercardioid pattern for pickup of near sources within 2" (5 cm)
- Unusually compact and lightweight

# Architects and Engineers Specifications

The microphone shall be a dynamic noise reduction type with a hypercardioid pickup pattern. For sound sources within an operating distance of 5 cm the microphone's on-axis response shall be 70 Hz to 10 kHz,  $\pm 3$  dB. The sensitivity at 1 kHz shall be no less than 0.72 mV/Pa (-63 dB dBV) at an operating level of

128 dB, the THD shall be no greater than 1%. The microphone's dimensions shall be no greater than .8 inches in diameter and 1.6 inches in length. The microphone shall be the AKG Acoustics Model D 58 E.

## 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 two years 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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 <p><b>H</b> A Harman International Company</p>	<p><b>AKG Acoustics GmbH</b> Lemböckgasse 21-25, P.O.B. 158, A-1230 Vienna/AUSTRIA Tel: (43 1) 86 654-0*, Fax: (43 1) 86 654-516 Internet: <a href="http://www.ake.com">http://www.ake.com</a></p> <p><b>AKG Acoustics;</b> A Division of Harman Pro Germany Bodenseestraße 228, D-81243 München/GERMANY Tel: (089) 87 16-0, Fax: (089) 87 16-200</p> <p><b>Arbiter Pro Audio</b> Wilberforce Road, London NW9 6AX/ENGLAND Tel: (0181) 202 1199, Fax: (0181) 202 7076</p>	<p><b>AKG ACOUSTICS, U.S.</b> 914 Airpark Center Drive Nashville, TN 37217, U.S.A. Tel: (615) 620-3800, Fax: (615) 620-3875</p> <p><b>Studer Japan Ltd.</b> 2-43-7, Uehara, Shibuya-ku, Tokyo 151-0064/JAPAN Tel: (813) 3465-2211, Fax: (813) 3465-2214</p> <p><b>Erikson Pro Audio</b> 620 McCaffrey, St-Laurent, Quebec, H4T 1N1, CANADA Tel: (514) 738-3000, Fax: (514) 737-5069 Internet: <a href="http://www.jam-ind.com/eriksonpro">www.jam-ind.com/eriksonpro</a></p>
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DS-D 58 E