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Microphones · Headphones · Wireless Microphones · Wireless Headphones · Headsets · Electroacoustical Components  
Microphones · Casques HiFi · Microphones sans fil · Casques sans fil · Micros-casques · Composants acoustiques  
Microfoni · Cuffie HiFi · Microfoni senza filo · Cuffie senza filo · Cuffie-microfono · Componenti acustici  
Micrófonos · Auriculares · Micrófonos inalámbricos · Auriculares inalámbricos · Auriculares con micrófono · Componentes acústicos  
Microfones · Fones de ouvido · Microfones s/fios · Fones de ouvido s/fios · Microfones de cabeça · Componentes acústicos

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**AKG Acoustics GmbH**

Lemböckgasse 21-25, P.O.B. 158, A-1230 Vienna/AUSTRIA, Tel: (+43 1) 86 654-0\*, Fax: (+43 1) 86 654-75 16,  
www.akg.com, e-mail: sales@akg.com, Hotline: (+43 676) 83 200 888, hotline@akg.com

**H** A Harman International Company

**AKG Acoustics GmbH**

Bodenseestraße 228, D-81243 München/GERMANY, Tel: (+49 89) 87 16-0, Fax: (+49 89) 87 16-200,  
www.akg.com/de, e-mail: infode@akg.com, Hotline: (+49 89) 87 16-22 50, hotlinede@akg.com

**AKG ACOUSTICS, U.S.**

914 Airpark Center Drive, Nashville, TN 37217, U.S.A., Tel: (+1 615) 620-3800, Fax: (+1 615) 620-3875,  
www.akgusa.com, e-mail: akgusa@harman.com

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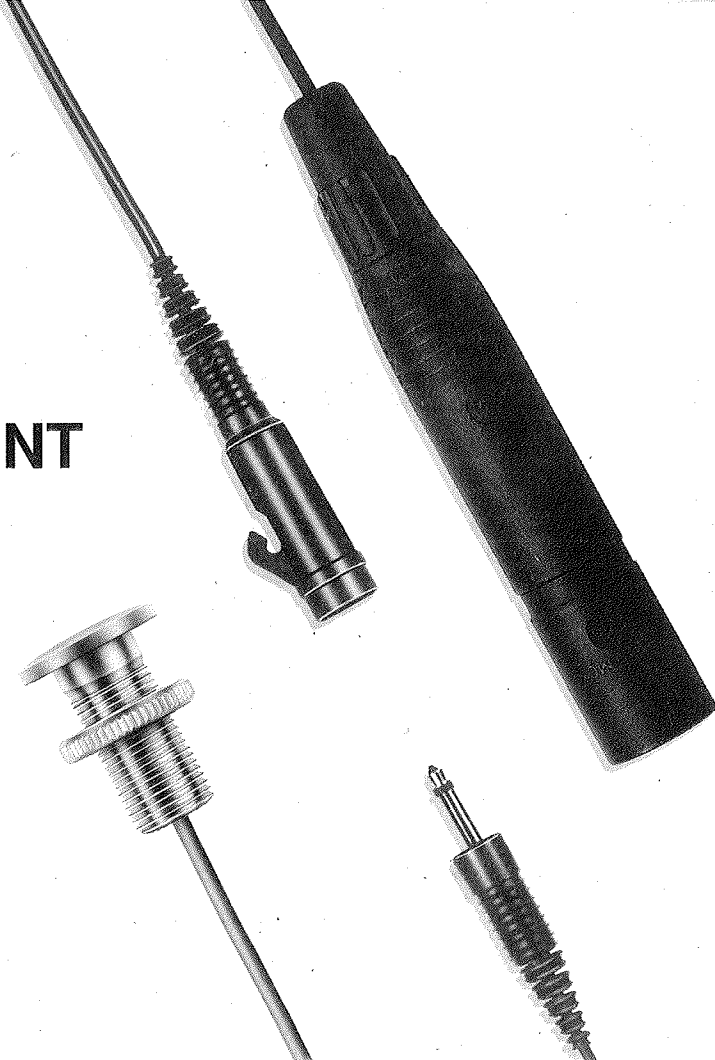
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04/05/9100 U 0746



## C 562 CM CEILING MOUNT

Bedienungshinweise  
User Instructions  
Mode d'emploi  
Istruzioni d'uso  
Modo de empleo  
Instruções de Uso



DEUTSCH

ENGLISH

FRANÇAIS

ITALIANO

ESPAÑOL

PORTUGUES

## Description:

The C 562 CM works on the boundary microphone principle and should be installed in a sound reflecting surface such that the diaphragm will be flush with the surface (Fig. 1) and face the sound source.

The C 562 CM can be installed in a desk top, table top, wall, or ceiling. This prevents comb filter effects or other interferences that may arise when a microphone is placed close to a reflecting surface.

The sensitivity and frequency response of the microphone depend on the size of the surface in which it is installed. The larger the surface, the smoother the resulting frequency response and the more extended the microphone's bass response.

The polar pattern of this microphone is approximately hemispherical. When installed in a reflective surface, the C 562 CM's sensitivity is 6 dB higher than that of a conventional omnidirectional microphone. Using an omnidirectional pressure transducer, the C 562 CM is much less susceptible to vibrational and wind noise than a cardioid.

The C 562 CM comprises the flush mount microphone with a 0.5-m (20-in.) fixed cable terminated in a 1/8" mono jack plug and a separate phantom power adapter also with a 0.5-m (20-in.) fixed cable and 1/8" mono jack socket. The phantom power adapter has a low-impedance, electronically balanced output and can be connected to both balanced and unbalanced inputs.

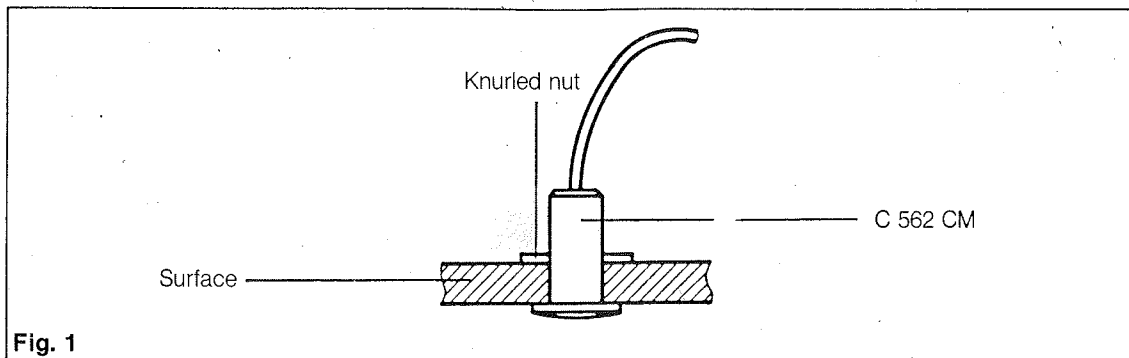


Fig. 1

## Installation:

The panel in which the microphone is to be installed should be no thicker than 19 mm (6/8"). Drill a hole 12.5 mm (1/2") in diameter. Thread the cable through the hole from the front, then push the microphone all

the way in and hold. Slip the knurled nut over the jack and cable, and screw it down on the microphone shaft until the microphone is firmly held in place (Fig. 2).

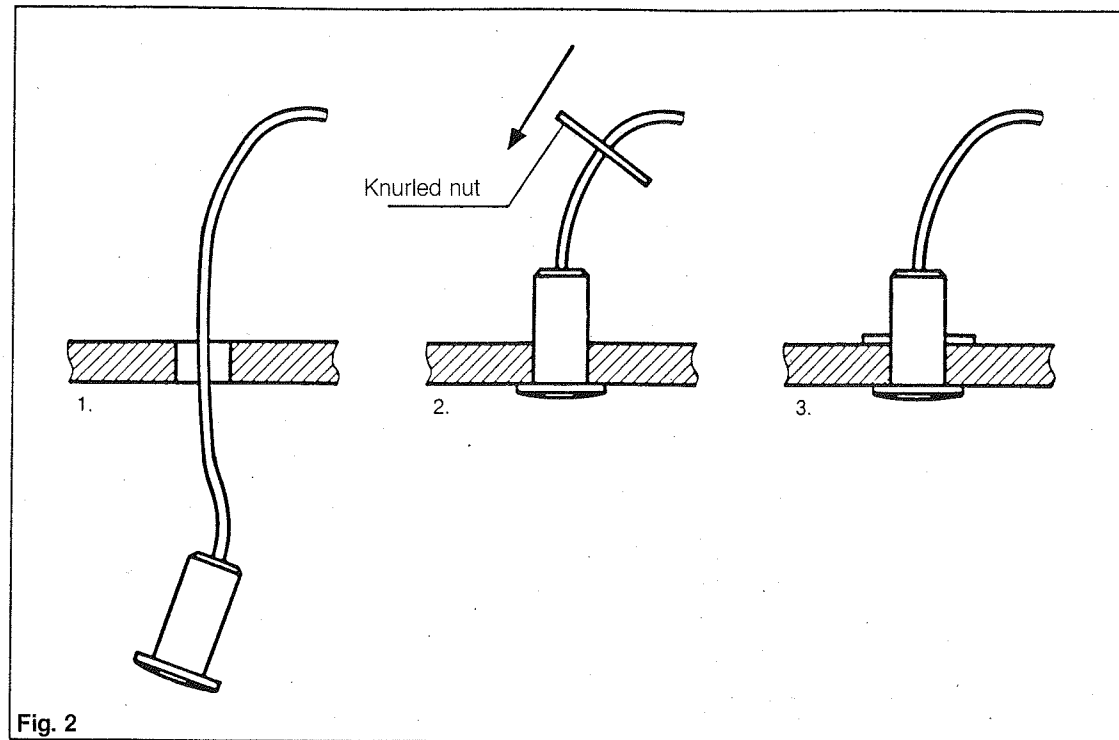


Fig. 2

## Use:

The main advantages of this type of microphone are that it is small, easy to install, inconspicuous, and provides for good quality recordings. Therefore, the microphone is recommended especially for recording sessions involving "microphone shy" persons. The C 562 CM may also be used where no microphone

must be visible for visual/esthetic reasons.

1. One method would be to install the microphone in a reflective wall (with no wallpaper or other sound absorbing material) near the sound source. The wall should be as even and reflective as possible (Fig. 3).

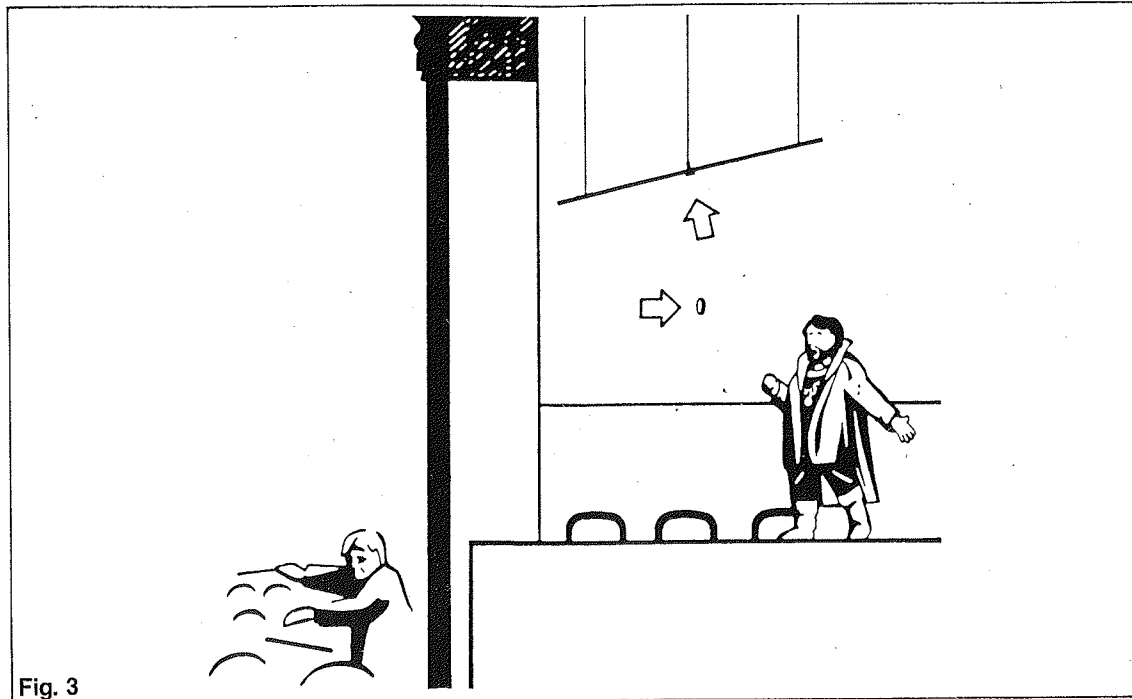


Fig. 3

2. The microphone can also be installed nearly invisibly in church pulpits or conference tables (Fig. 4). Alternatively, one or more microphones

may be installed in the reflective false ceiling of the conference room (Fig. 5).

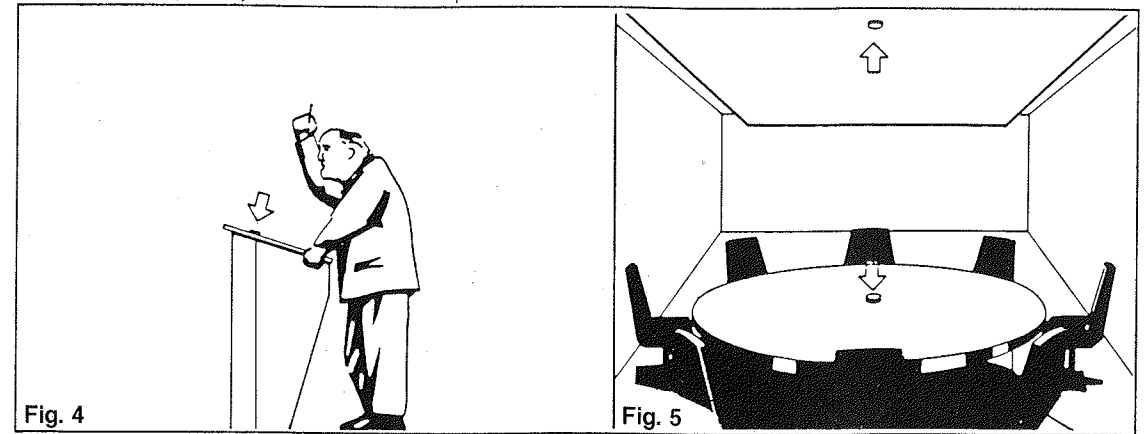


Fig. 4

Fig. 5

3. Due to the hemispherical polar pattern, unwanted sounds from unexpected directions may sometimes be picked up. One remedy would be to angle the panel with the microphone away from the unwanted source, provided the panel is not too large nor permanently installed (Fig. 6). Some

sound engineers use suitably sized (1 x 1 m) plexiglass panels or thick-pile carpet angled toward the unwanted sound source(s). High vibration attenuation can be achieved by placing a layer of sound absorbing material (e.g., soft foam) beneath the reflective panel (Fig. 7).

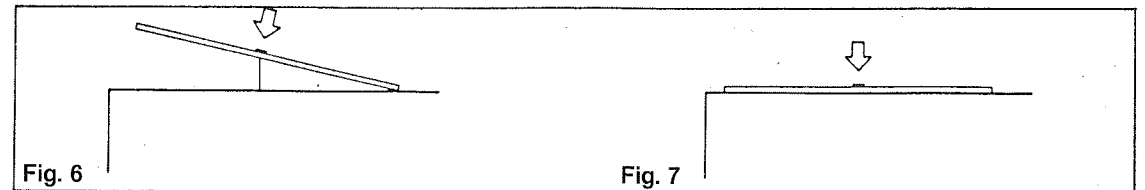


Fig. 6

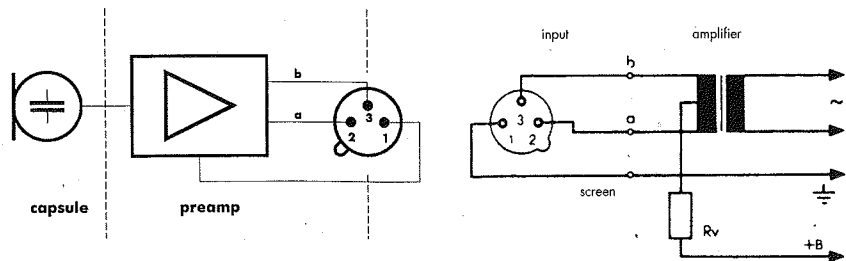
Fig. 7

## Powering:

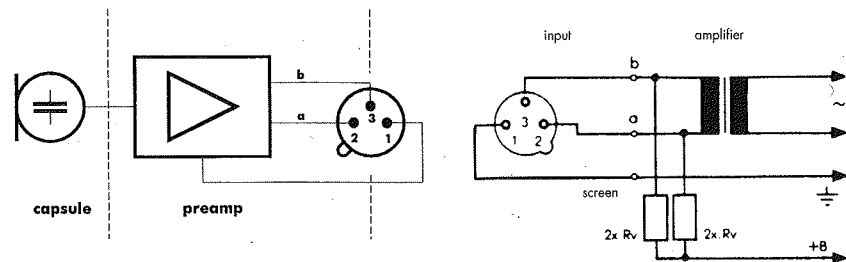
The C 562 CM may be powered from any standard phantom power supply acc. to DIN 45596. These standards specify a positive voltage on the audio

lines versus the screen of the audio cable of 12, 24 or 48 volts.

Input circuitry incorporating transformer **with** center tap (ungrounded).



Input circuitry incorporating transformer **without** center tap (ungrounded).



The resistors  $2 \times R_v$  must have a tolerance not exceeding 0.5% in order to satisfy the symmetry requirement.

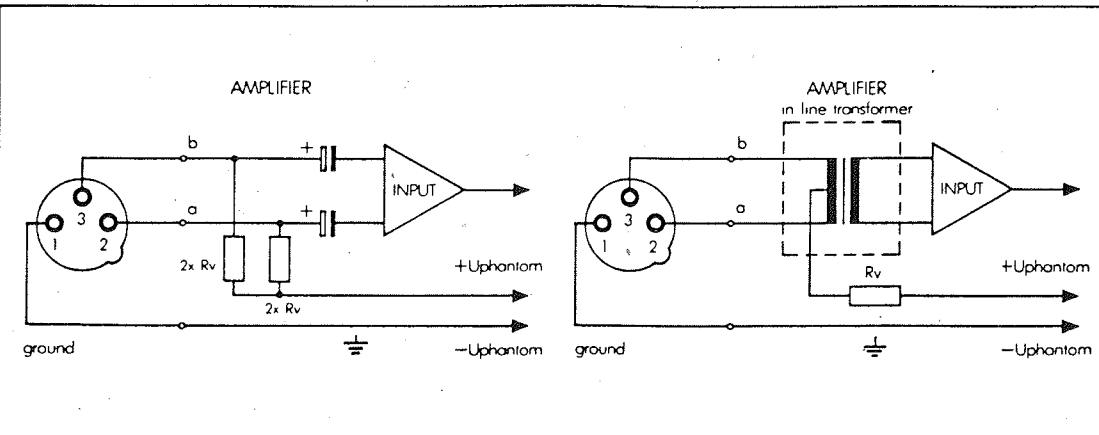
### Standardized values for $R_v$ and $2 \times R_v$

+ UB	$R_v$	$2 \times R_v$
12 V $\pm$ 2 V	300 Ohm	680 Ohm
24 V $\pm$ 4 V	680 Ohm	1.200 Ohm
48 V $\pm$ 4 V	3.300 Ohm	6.800 Ohm

### Phantom powering with unbalanced inputs

If only single ended (grounded) amplifier inputs or no input transformers are available, either capacitors or optional transformers must be wired into the audio

lines to prevent leakage currents from entering the input stage.



## Specifications:

Transducer Type:	condenser (self-polarized)
Polar Pattern:	hemispherical (semi-omnidirectional)
Frequency Response:	20 to 20,000 Hz (on infinite surface)
Sensitivity at 1000 Hz:	20 mV/Pa $\pm$ -33 dBV re 1 V/Pa measured on 1.5 x 1.5 m surface
Max. Sound Pressure for 1% THD:	62 Pa $\pm$ 130 dB SPL
Equivalent Noise Level:	
– acc. to DIN 45405 (CCIR 468-2):	28 dB
– acc. to DIN 45412 (A-weighted):	16 dB-A
S/N ratio re 1 Pa (A-weighted):	78 dB
Impedance at 1000 Hz:	$\leq$ 600 ohms
Recommended Load Impedance:	$\geq$ 2000 ohms
Powering:	Universal Phantom Power from 9 to 52 volts d.c. acc. to DIN 45596
Current Consumption:	approx. 2 mA
Connector:	3-pin XLR-type (Phantom Power Adapter)
Dimensions:	20 $\varnothing$ x 3 (28) mm (4/5 $\varnothing$ x 1/8 (1 1/8) in.)
Net Weight:	~30 g (without cable) $\pm$ 1 oz.

This product conforms to EN 50 082-1, provided the audio/power supply equipment it is connected to complies with CE standards.

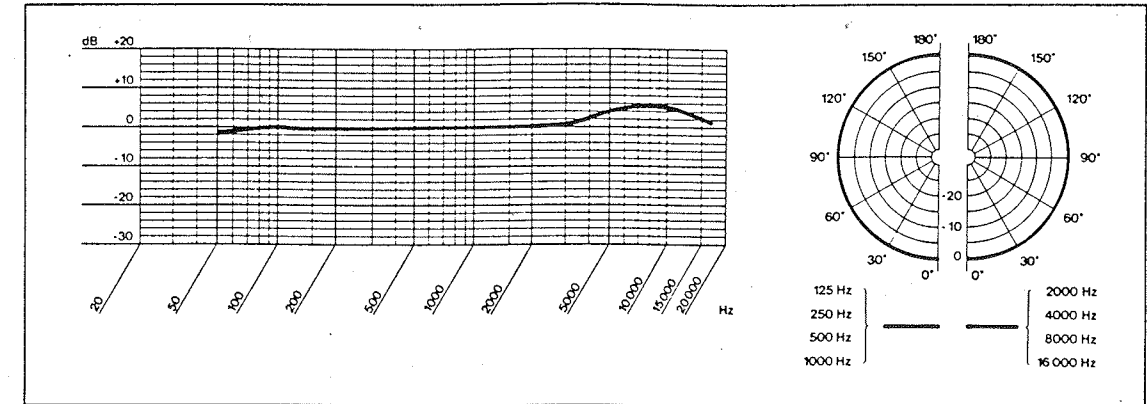
## Standard Accessories:

Mounting hardware  
Fixed 0.5-m (20-in.) cable with 1/8" mono jack plug  
Phantom power adapter with XLR connector and  
0.5-m (20-in.) cable with 1/8" mono jack socket

## Optional Accessories:

B 18 Battery power supply  
N 62 E AC power supply for 2 microphones  
N 66 E AC power supply for 6 microphones

## Frequency Curve:



## Dimensional Drawing:

