



# DYNAMIC STEREO HEADPHONES



- HIGH-QUALITY DYNAMIC STEREO HEADPHONES
- HIGH-FIDELITY REPRODUCTION DUE TO BROAD FREQUENCY RESPONSE (20 ... 20 000 Hz)
- INCREASED STEREO EFFECT
- HEADPHONES FIT THE HEAD GENTLY AND DO NOT SHIFT
- ELASTIC HEADBAND MAINTAINS TENSION
- ~~EARRPIECES FIT EARS SNUGLY (CARDANIC SUSPENSION)~~
- AVAILABLE WITH IMPEDANCES OF 75 OHMS OR 400 OHMS
- CABLE TENSION RELIEF PREVENTS TEAROUT EVEN UNDER HEAVY LOAD



**K 50 — The easiest way to stereo listening:**

**As standard equipment for any home hi-fi system, or as its cornerstone.**

- Tone quality superior to conventional loudspeakers. Only expensive studio loudspeakers can match the reproduction quality of the K 50.
- Music can be reproduced at concert hall volume (!), preserving the lowest bass notes and brilliant treble tones.
- ... and most importantly, the people around you remain undisturbed.
- Greater concentration in listening since the ear is shielded against environment noises.
- Substantially increased stereo effect since each ear has one channel to itself.
- Quality of stereo reproduction remains constant with K 50 Stereo Headphones, regardless of acoustic characteristics of environment (outdoor stereo listening).

**In addition to listening to stereo records and stereo broadcasts, the K 50 can be used in place of the loudspeakers in television and radio reception.**

**Radio and television studios use the K 50 for announcer's booths, control desk, mixing console, as well as for programs with an audience (quiz booth).**

**In recording studios, the K 50 is standard equipment for voice recordings (playback).**

**Today's international conferences are inconceivable without simultaneous translation systems using the K 50. In international radio communications and in shortwave amateur radio, the K 50 has replaced heavy magnetic headphones and aids intelligibility due to its extraordinary quality of reproduction.**

### Technical Data

(for 75 ohms systems):

Frequency Range: 20 . . . 20 000 Hz

Normal Power Requirement:

1 mw per channel, for a sound pressure level of 98 db (16  $\mu$ bar) at 1000 Hz equivalent to 275 mv per channel

Max. Undistorted Continuous Power Level:

112 db SPL per channel, equivalent to 250 mw, or 4.3 V per channel, at less than 3% thd

Total Harmonic Distortion:

less than 1% at an input of 275 mv or 1 mv per channel

Sensitivity:

500  $\mu$ bar/ $\sqrt{va}$  at 1000 Hz, equivalent to approx. 58  $\mu$ bar/v (109 db SPL) on 75 ohms

Impedance:

75 ohms  $\pm$  15% per channel throughout entire frequency range

### Technical Data

(for 400 ohms Systems):

Frequency Range: 20 . . . 20 000 Hz

Normal Power Requirement:

1 mw per channel, for a sound pressure level of 102 db (25  $\mu$ bar) at 1000 Hz, equivalent to 630 mv per channel

Max. Undistorted Continuous Power Level:

122 db SPL per channel, equivalent to 90 mw, or 6 v per channel at less than 3% thd

Total Harmonic Distortion:

Less than 1% at 630 mv or 1 mv per channel

Sensitivity:

800  $\mu$ bar/ $\sqrt{va}$  at 1000 Hz, equivalent to approx. 40  $\mu$ bar/v (106 db SPL) on 400 ohms

Impedance:

400 ohms  $\pm$  15% per channel throughout entire frequency range

### Dimensions:

(in mm)



### Order Information and Standard Accessories:

Order number **K 50/75** delivery includes:

Dynamic stereo headphones K 50 (75 ohm Impedance) with 2 m 2 x 1 conductor shielded cable, cable end free, in elegant leatherette carrying bag.

Order number **K 50/400** delivery includes:

Same as K 50/75, but headphones with 400 ohms impedance.

### Weights:

K 50 . . . . . 140 grams  
(80 grams without cable)  
Leatherette bag . . . . . 90 grams  
Weight with individual packing: 330 grams

### Recommended Accessories:

Z 50: One pair of rubber ear cushions  
MAS 50S: Stereo miniature standard connector

### Specifications:

The desired ideal dynamic stereo headphones should have two dynamic systems of 75 ohms each, or with an impedance of 400 ohms each. The frequency range should extend from 20 to 20 000 Hz; even with a loose fit, the transducer should guarantee full reproduction of the entire frequency range, particularly of the bass notes.

The elegant headphones of light gray color should be extremely light in weight but also rugged and of pleasing appearance. The lined metal headband should be immune to excessive bending and should always give the headphones a snug fit. The earpieces should be adjustable along the ends of the metal headband to fit the shape of the head. The weight of the headphones should be only 80 grams (!). This is to prevent fatigue even after hours of use.

The earpieces should be hygienically crystal-clear and should be easily exchanged by unscrewing. A pair of rubber caps should fit over the earpieces for wearing the headphones over long periods (communications and telephone exchanges).

A shielded two-wire cable of 2 m length having free cable end should be permanently mounted on the headphones. Tearout of the cable under extremely high tension loads should be prevented by means of a mechanical safety device (tension relief). The AKG Stereo Headphones K 50 correspond to the desired ideal, dynamic stereo headphones as described above.

**AKUSTISCHE UND KINO-GERÄTE GES. M. B. H.**  
**NOBILEGASSE 50**  
**1150 VIENNA 15, AUSTRIA**  
**TEL. 0222—92 16 47**

**TELEX: 11839**

