

# HMEC 45 NoiseGard™

## Headsets | Pilot's Headset with NoiseGard™ Active Noise Compensation

Cat. No. 004498	HMEC 45
Cat. No. 004497	HMEC 45-CA
Cat. No. 004498	HMEC 45-KA
Cat. No. 004649	HMEC 45-KAX

### General Description

The HMEC 45 is a very lightweight and comfortable open pilot's headset (boomset) with NoiseGard™ active noise compensation. Different connector and powering versions are available to suit every conceivable cockpit configuration.



### Features

- Noise reduction of approx. 10 dB – consequently ATC signal can be decreased
- Lightweight, with soft ear pads
- Two-piece adjustable headband ensures a secure fit
- Boom microphone with noise-compensated electret capsule
- Adjustable microphone boom can be turned through 350° and thus be worn on either side
- FAA and JAA TSO approval C 57 a and C 58 a
- Delivery includes: 1 HMEC 45 headset, 1 MZW 45 windshield  
1 MZQ 2002-1 cable clip

### Recommended Accessories

- |                                   |                 |
|-----------------------------------|-----------------|
| ■ HZH 60 hygiene pads (100 pairs) | Cat. No. 003553 |
| ■ HZP 45 comfort hygiene pads     | Cat. No. 091592 |

### Replacement Parts

- |                     |                 |
|---------------------|-----------------|
| ■ Ear pads(1 pair)  | Cat. No. 046581 |
| ■ MZW 45 windshield | Cat. No. 075823 |

### Technical Data

#### Headphones

Transducer principle.....	dynamic
Ear coupling .....	supra-aural, open
Frequency response .....	20 – 18,000 Hz
Impedance active/passive .....	600 Ω/160 Ω (2 x 1,200 Ω/ 2 x 320 Ω connected in parallel)
Nominal SPL .....	102 dB/SPL ± 3 dB
(1 kHz, 1 mW) .....	(as per RTCA/DO 214)
Active noise compensation.....	10 dB ± 3 dB between 400 Hz and 1 kHz
NRN (Noise Reduction Rating) .....	11 dB
THD .....	< 1 %
Contact pressure.....	approx. 1.6 N
Weight without cable .....	140 g

#### Microphone incl. Preamplifier

Type .....	MKE 45-1
Transducer principle.....	back-electret condenser capsule, noise-compensated
Frequency response .....	300 – 5,000 Hz
Max. SPL .....	120 dB
Output voltage.....	400 mV ± 3 dB at 114 dB (as per RTCA/DO 214)
Terminating impedance .....	150 Ω
Operating voltage.....	8 – 16 V DC, 8 – 25 mA (as per RTCA/DO 214)

#### General Data

Connection cable.....	single-sided round cable, length 1.8 m
NoiseGard™ supply	
-CA/-KA.....	2 x 1.5 V AA batteries or 2 x 1.2 V AA rechargeable batteries
-KAX .....	12 – 35 V DC from the aircraft, via XLR-3 connector
Operating time approx.	
-CA/-KA.....	Batteries: 80 h Rechargeable batt.: 20 h
Switch -CA/-KA .....	Battery/NoiseGard™ on/off
Indicator -CA/-KA .....	green LED for Power On
Connector(s)	
-CA .....	XLR-5
-KA .....	
Headphones .....	1/4" stereo jack (6.3 mm Ø) (converted to mono)
Microphone .....	PJ-068 (5.25 mm Ø)
-KAX .....	
Headphones .....	1/4" stereo jack (6.3 mm Ø) (converted to mono)
Microphone .....	PJ-068 (5.25 mm Ø)
NoiseGard™ supply .....	XLR-3