

# HMEC 45 NoiseGard™

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

### 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 appx. 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 wind and pop screen  
1 MZQ 2002-1 cable clip  
1 pouch

### 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 wind and pop screen Cat. No. 075823

### Product Variants

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

### 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
THD .....	< 1 %
Contact pressure.....	appx. 1.6 N
Weight without cable .....	140 g (4.94 oz)

#### Microphone incl. Preampfier

Type .....	MKE 45-1
Transducer principle.....	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 (5.91 ft)
NoiseGard™ supply	
-CA/-KA.....	2 x 1.5 V AA batteries or 2 x 1.2 V AA rechargeable batteries
Operating time appx.	
-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, Ø 6.3 mm (1/4") (converted to mono)
Microphone.....	PJ-068, Ø 5.25 mm (0.21")

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- MZW 45 wind and pop screen Cat. No. 075823

### Product Variants

- HMEC 45-CAP Cat. No. 004569
- HMEC 45-KAP Cat. No. 004570

### Technical Data

#### Headphones

Transducer principle.....	dynamic
Ear coupling .....	supra-aural, open
Frequency response .....	20 – 18,000 Hz
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(1 kHz, 1 mW) .....	(as per RTCA/DO 214)
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#### General Data

Connection cable.....	single-sided round cable, length 1.8 m (5.91 ft)
NoiseGard™ supply	
-CAP .....	28 V DC from the aircraft, via pin 5 of the XLR connector
-KAP .....	28 V DC from the aircraft, via tip of the microphone connector
Switch .....	NoiseGard™ on/off
Connector(s)	
-CAP .....	XLR-5
-KAP .....	
Headphones .....	1/4" stereo jack, Ø 6.3 mm (1/4") (converted to mono)
Microphone.....	PJ-068, Ø 5.25 mm (0.21")