

# HS 800 Digital

Aviation Headset



Audio box



Case

## FEATURES

- Outstanding ambient noise attenuation due to Digital Adaptive Noise Reduction (DANR)
- Ear pads with extra soft leather cover and viscoelastic filling
- Audio box to connect mobile phones, music players or iPhones (supplied with 3 connecting cables)
- Automatic volume reduction of phone or music player when signals from the intercom occur (selectable function)
- Mono/Stereo selection switch
- Noise-compensated microphone with adjustable gain
- Integrated dual volume control
- Power status LED
- Ear cups in carbon design with metal bezels
- Rugged headband design made of spring steel
- Light weight of approx. 340 g (without cable)
- Modular construction for easy servicing
- Five-year warranty
- Made in Germany

## APPLICATIONS

The HS 800 Digital is a closed-back aviation headset. The innovative DANR system (Digital Adaptive Noise Reduction) provides an extraordinary effective active ambient noise attenuation. The headphone features a very high reproduction precision and a balanced sound.

The soft, circumaural leather ear pads filled with viscoelastic foam and the adjustable padded headband provide a high comfort. The microphone with adjustable gain can be optimally positioned with the flexible gooseneck. The figure eight polar pattern ensures a high gain before feedback and noise cancellation. The rotating microphone holder allows positioning the microphone on the right or left hand side.

The connecting cable is single-sided. There are various versions with different connecting cables (e.g. 1/4" (6.35 mm) and PJ-068 jack, U-174/U jack or 6-pin Lemo connector). The connecting cable provides an audio box to adjust the volume of the headphone and to connect a mobile phone, music player (e.g. CD or MP3 player) or iPhone. If signals from the intercom occur, the volume of the mobile phone or music player can be reduced automatically. This auto mute function can be deactivated.

# HS 800 Digital

## VERSIONS

HS 800 Digital	Aviation headset with 1/4" (6.35 mm) and PJ-068 jack plugs . . . . . Order # 722.251
HS 800 Digital Rotor	Aviation headset with U-174/U jack plug, coiled cable . . . . . Order # 722.502
HS 800 Digital 6pin	Aviation headset with 6-pin Lemo connector . . Order # 722.499

## SPARE PARTS

BN 59-74/A	Headband pad, genuine leather, black, with fontanelle recess. . . . . Order # 908.541
EDT 800 LS	Ear pads, leather, black, viscoelastic . . . . . Order # 908.614
WS 20 sw	Wind shield, black . . . . . Order # 439.975

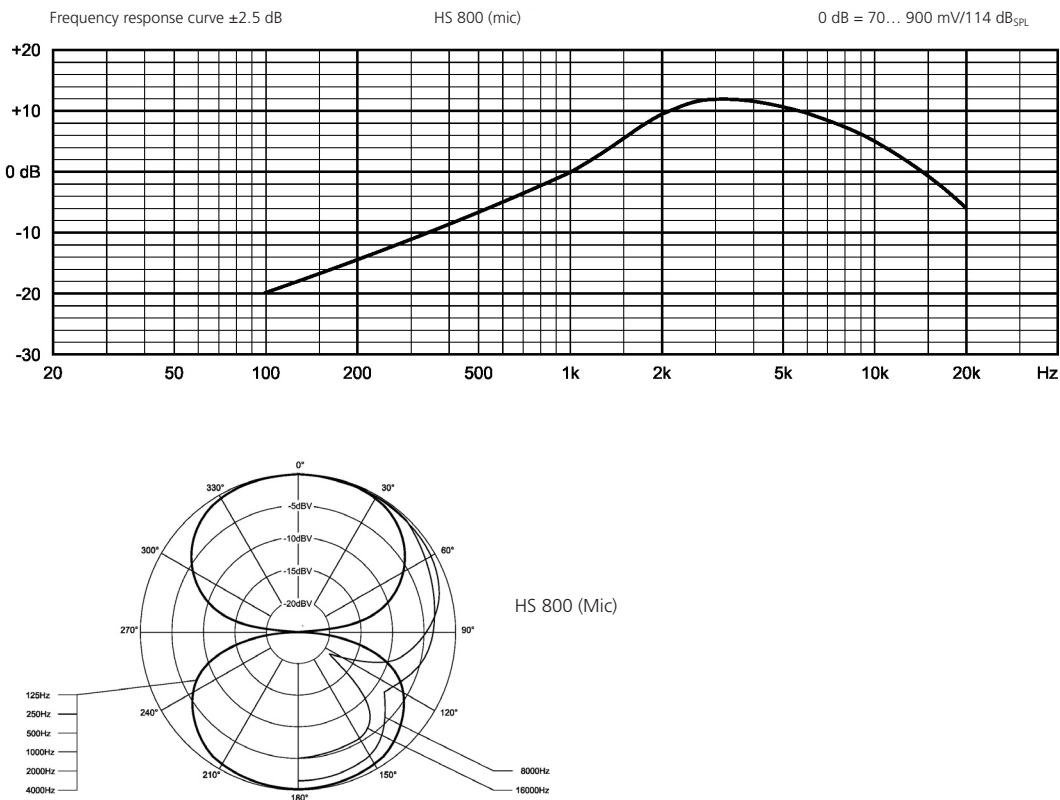
## SUPPLIED ACCESSORIES

- Padded case
- Wind shield for the microphone
- 2 AA batteries (HS 800 Digital and HS 800 Digital Rotor only)
- Connecting cable for mobile phones
- Connecting cable for iPhones
- Connecting cable for portable music players such as CD or MP3 players
- Connecting cable for external power supply (HS 800 Digital only)
- 3-pin XLR socket for installation into the aircraft for the external power supply of the audio box (HS 800 Digital only)

Customised versions may include different accessories.

## FREQUENCY RESPONSE & POLAR PATTERN

This frequency response curve (measuring tolerance  $\pm 2.5$  dB) and polar pattern correspond to a typical production sample for this microphone.



# HS 800 Digital

## TECHNICAL SPECIFICATIONS

### Headphone

Transducer type . . . . . Dynamic  
Operating principle . . . . . Closed  
Frequency response . . . . . 10 - 20,000 Hz  
Nominal impedance mono/stereo . . . 260  $\Omega$  / 560  $\Omega$   
Nominal SPL . . . . . 100 dB SPL  
T.H.D. . . . . < 0.2%  
Power handling capacity . . . . . 100 mW  
Sound coupling to ear . . . . . Circumaural  
Nominal headband pressure . . . . . 4 N

### Microphone

Transducer type . . . . . Condenser (back electret)  
Frequency response . . . . . 400 - 15,000 Hz  
Polar pattern . . . . . Figure eight  
Sensitivity at 1 kHz . . . . . 1 mV - 13 mV/1 Pa, adjustable  
Max. SPL . . . . . 120 dB  
Nominal impedance . . . . . approx. 350  $\Omega$   
Current consumption . . . . . approx. 5 - 10 mA  
Supply voltage . . . . . typ. 16 V DC (8 - 16 V DC,  
acc. to RTCA/DO 214)

### General

Weight without cable / audio box. . . . approx. 340 g (0.75 lb)

### HS 800 Digital

Cable . . . . . approx. 1.80 m (70.87"),  
straight cable

#### Connection

Headphone . . . . . 1/4" stereo jack plug  
(6.35 mm)

Microphone . . . . . PJ-068 jack plug

Power supply audio box . . . . . 2 x 1.5 V AA batteries or  
rechargeable batteries,  
alternatively 12 - 36 V DC  
from aircraft system via  
3-pin XLR connector

Current consumption . . . . . approx. 80 mA (when  
powered by batteries  
or rechargeable batteries)  
max. 30 mA (when powered  
via on-board power supply  
system)  
Operating time DANR. . . . . approx. 25 hrs. when  
powered by batteries or  
rechargeable batteries  
Music player / mobile telephone . . . . Mini jack socket (3.5 mm)

### HS 800 Digital Rotor

Cable . . . . . Coiled cable

#### Connection

Headphone, microphone . . . . . U-174/U jack plug

Power supply audio box . . . . . 2 x 1.5 V AA batteries or  
rechargeable batteries

Current consumption . . . . . approx. 80 mA (when  
powered by batteries  
or rechargeable batteries)

Operating time DANR. . . . . approx. 25 hrs. when  
powered by batteries or  
rechargeable batteries

Music player / mobile telephone . . . . Mini jack socket (3.5 mm)

### HS 800 Digital 6pin

Cable . . . . . approx. 1.80 m (70.87"),  
straight cable

#### Connection

Headphone, microphone . . . . . 6-pin Lemo connector

Power supply audio box . . . . . 12 - 36 V DC from aircraft  
system via 6-pin Lemo  
connector

Current consumption . . . . . max. 30 mA

Music player / mobile telephone . . . . Mini jack socket (3.5 mm)