

# Peltor Aviation

Absolute world-class  
Safety and Comfort



# Peltor Aviation – *total safety and*



## A headset for high demands

When the ground is 32,000 feet below you, you can't afford to have anything go wrong.

Perfect communication, convenient design, low weight and maximum comfort are essential requirements of a headset in a noisy aviation environment, in the air and on the ground.

## A challenge

Peltor has the knowledge, experience and enthusiasm to meet this challenge, having been developing headsets for military, civil, sport and helicopter aviation since the early 1950's. In fact we are leaders in many aspects of product development.

## Safety first

Our headsets have no protruding features which can snag. All contacts are encased and reinforced at bending points. The low profile of the headband ensures that the headset sits firmly on the head and minimizes the risk of bumping against obstacles.

The parallel connector means that each earphone works separately, so that if one fails, the other works as usual.

Our new microphone arm features a securely encased cord. The small, sturdy design with four positions gives even more effective communication with its increased flexibility.

These small, carefully designed and extensively tested features are just some of the reasons why Peltor headsets are so safe. We've known this for more than 40 years!



# comfort must go hand in hand

## The new Aviation 8000 series

Our highly praised 7000 series headset now has a whole group of worthy successors.

The Aviation 8000 series has a more compact design. No protruding features that can snag on obstacles and affect safety and the cord is securely encased in the microphone arm.

### Remarkable comfort

The broad foam-and-fluid filled, breathing sealing rings seal effectively, but with minimal pressure distributed over the entire contact surface. The stainless sprung steel headbands maintain their resiliency and provide an unbeatable distribution of pressure. Plenty of space for the ears and a very low weight!

### Individual volume control

The Aviation 8000 series has easily accessible controls with inset volume and balance controls in one. This solution lets you compensate for different noise situations and individual variations, such as poor hearing in one ear.

### Positive communication

Effective noise attenuation through the entire speech frequency area up to 25 dB. A special filter eliminates wind and breath noises.



### New microphone MT51, MT52



- Small, lightweight and sturdy.
- Microphone arm twists 180 degrees, allowing both right- and left-mounting.
- 4-way adjustment with resistance settings – practically unlimited possibilities for individual settings.
- Quick Positioning – from speech to stand-by without changing the basic settings.

Model	Frequency <sup>2</sup>	125	250	500	1000	2000	4000	8000	H	M	L	SNR
Peltor Aviation Headset	Mean att. <sup>3</sup>	16.9	26.1	33.3	37.9	35.5	33.5	36.6				
	Stand. dev. <sup>4</sup>	3.6	2.4	2.8	2.0	2.3	2.2	2.4	34 dB	31 dB	22 dB	32 dB
	APV	13.3	23.7	30.5	35.9	33.2	31.3	34.2				

### Attenuation data for the Peltor Aviation Headset 8006, 8103, 8106

The Peltor Aviation headset is tested and approved according to PPE directive 89/686/EEC and applicable parts of the European EN352-1:1993 standard. Certificate issued by FIOH, Laajaniityntie 1, FIN-01620, Vantaa, ID no. 0403.

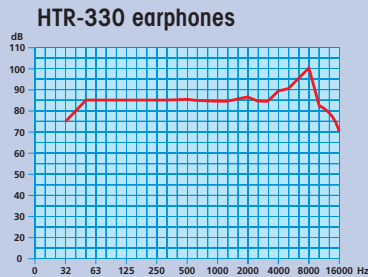


# Aviation 8003 MT52H79F-04 VI

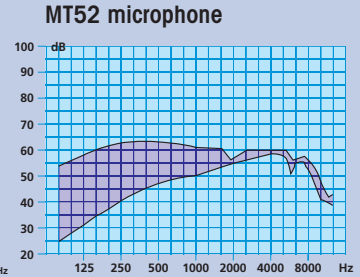
The Aviation 8003 headset has an ambient-noise compensated dynamic differential microphone, specially designed for aviation intercom systems. The microphone amplifier can be adjusted for output signals in the range of 300–600 mV. The frequency range is adjusted for good speech recognition. The earphones have a broad frequency range for good sound reproduction. Straight polyurethane cord, moulded connectors and a stereo/mono switch in the branching box. The earphones are connected with a 1/4" stereo connector and the microphone has a PJ068 connector.



Weight:.....370g  
 Microphone connector:.....Type PJ068  
 Earphone connector:.....1/4" stereo  
 Cord length:.....1,35m



**Hörtelefoner HTR-330**  
 Frequency range:.....32-16000Hz -6dB  
 Impedance:.....330Ω  
 parallel connected to 165Ω for systems up to 600Ω  
 Output level at 0,5V / 1kHz:.....81,5dBa  
 Volume control:.....Approx. 23dB



**MT52 microphone**  
 Type:.....Dynamic differential microphone  
 Frequency range:.....70-9000Hz -6dB  
 Sensitivity as lip mike:.....4mV / 220Ω  
 Impedance:.....230Ω  
 Noise suppression:.....12dB at 1kHz

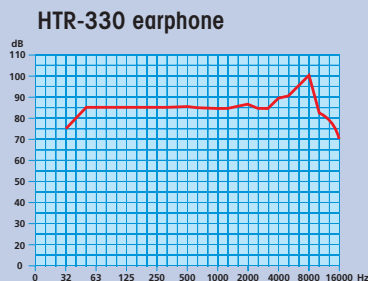
**K117A amplifier**  
 Frequency range:.....750-10000Hz -6dB  
 Amplification:.....300 – 680mV/220Ω at an input signal of 4mV/1kHz  
 Output impedance:.....Low  
 Connection impedance:.....300-2000Ω  
 Supply voltage:.....7-30V  
 Power consumption:.....4mA vid 27V

# Aviation 8006 MT51H79F-01 VI

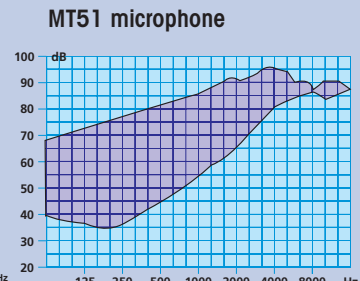
The Aviation 8006 headset has an ambient-noise compensated electret differential microphone, specially designed for aviation intercom systems. The frequency range is adjusted for good speech recognition. The earphones have a broad frequency range for good sound reproduction. Straight polyurethane cord, moulded connectors and a stereo/mono switch in the branching box. The earphones are connected with a 1/4" stereo connector and the microphone has a PJ068 connector.



Weight:.....360g  
 Microphone connector:.....Type PJ068  
 Earphone connector:.....1/4" stereo connector  
 Cord length:.....1,35m



**HTR-330 earphone**  
 Impedance:.....330Ω  
 parallel connected to 165Ω for systems up to 600Ω  
 Output level at 0,5V / 1kHz:.....81,5dBa  
 Volume control:.....Approx. 23dB



**MT51 microphone**  
 Type:.....Electret differential microphone  
 Frequency range:.....100-10000Hz±6dB  
 Sensitivity as lip mike:.....380mV / 220Ω  
 Noise suppression:.....28dB at 1kHz  
 Impedance:.....Low

**K116 V2 amplifier**  
 Frequency range:.....300-10000Hz ±6dB  
 Amplification:.....380mV/220Ω at an input signal of 4mV/1kHz  
 Output impedance:.....Approx. 300Ω  
 Connection impedance:.....500-1000Ω  
 Supply voltage:.....7-15V  
 Power consumption:.....10mA at 9V

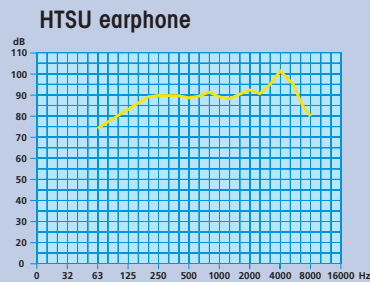


# Aviation 8103 MT52H79F-03

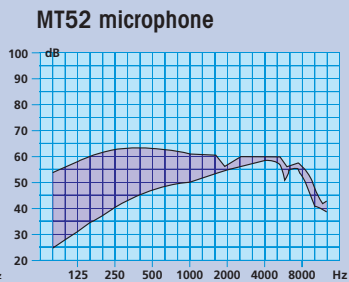
The Aviation 8103 helicopter headset has an ambient-noise compensated dynamic differential microphone, specially designed for aviation intercom systems. The microphone amplifier is designed for intercom systems with 5Ω impedance. The frequency range is adjusted for good speech recognition. The earphones have a more limited frequency range, to give the best possible speech recognition in the ambient noise of a helicopter. Spiral polyurethane cable with moulded NATO-standard connector.



Weight:.....370g  
 Connectors:.....Nexus TP-120  
 "European NATO"  
 Cord length:.....0,4-1m



**HTSU earphone**  
 Impedance:.....32Ω  
 parallel connected to 16Ω for systems up to 60Ω  
 Output level at 0,5V / 1kHz:.....89,5 dBa



**MT52 microphone**  
 Type:.....Dynamic differential microphone  
 Frequency range:.....70-9000Hz ±6dB  
 Sensitivity as lip mike:.....4mV / 220Ω  
 Impedance:.....230Ω  
 Noise suppression:.....12dB at 1kHz

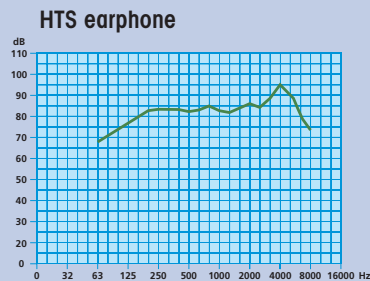
**K115A microphone adapter**  
 Attenuation:.....8dB  
 Output signal level:.....0,4 mV / 220Ω  
 Output impedance:.....Low  
 Connection impedance:.....System impedance 5Ω  
 Supply voltage:.....7-30V  
 Power consumption:.....4mA at 27V

# Aviation 8106 MT51H79F-02

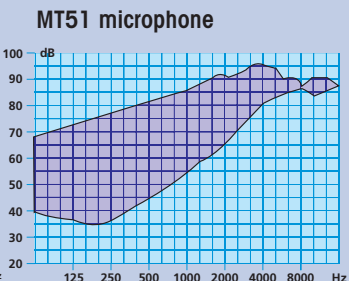
The Aviation 8106 helicopter headset has an ambient-noise compensated electret differential microphone. The earphones have a more limited frequency range, to give the best possible speech recognition in the ambient noise of a helicopter. Spiral polyurethane cable with moulded NATO-standard connector.



Weight:.....360g  
 Connectors:.....Nexus TP-120  
 "European NATO"  
 Cord length:.....0,4-1m



**Hörtelefon HTS**  
 Impedance:.....230Ω  
 parallel connected to 165Ω for systems up to 600Ω  
 Output level at 0,5V / 1kHz:.....81dBa



**MT51 microphone**  
 Type:.....Electret differential microphone  
 Frequency range:.....70-10000Hz ±6dB  
 Sensitivity as lip mike:.....380mV / 220Ω  
 Noise suppression:.....28dB at 1kHz  
 Impedance:.....Low

**K116 V2 amplifier**  
 Frequency range:.....300-10000 Hz ±6dB  
 Amplification:.....380mV/220Ω at an input signal of 4mV/1kHz  
 Output impedance:.....Approx. 300Ω  
 Connection impedance:.....500-1000Ω  
 Supply voltage:.....7-15V  
 Power consumption:.....10mA at 9V

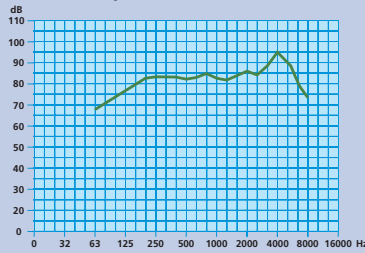
# Ground Mechanic MT72H7F-01

Effective noise-attenuating headset with ambient-noise compensated dynamic differential microphone and built-in microphone amplifier for reliable communication between ground crew and cockpit. The frequency range of the earphones gives good sound reproduction. The microphone is mounted on the left and has Peltor's Quick Positioning, which allows quick and easy switching from stand-by to active mode. The headset has a broad, comfortable headband, collapsible for the easiest and safest transport and storage. Spiral polyurethane cable with Peltor's standard J11 moulded connector. Connects to the aircraft via an adapter with PTT button.



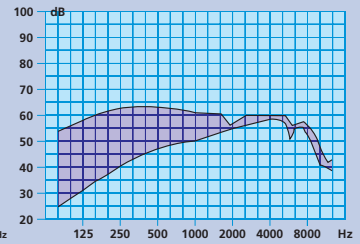
Weight:.....330g  
Connectors:.....U-174/U

**HTS earphone**



**HTS earphone**  
Impedance:.....230Ω  
parallel connected to 115Ω  
Output level at 0,5V / 1kHz:.....81 dBa

**MT52 microphone**



**MT52 microphone**  
Type:.....Dynamic  
Frequency range:.....70-9000Hz ±6dB  
Sensitivity as lip mike:.....4mV / 220Ω  
Impedance:.....230Ω  
Noise suppression:.....12dB at 1kHz

**FM23 amplifier**

Frequency range:.....63-1600Hz -6dB  
Amplification:.....200mV/200Ω at an input signal of 4mV/1kHz  
Supply voltage:.....15-27V  
Power consumption:.....18mA at 27V

Model	Frequency <sup>2</sup>	125	250	500	1000	2000	4000	8000	H	M	L	SNR
MT72H7A	Mean att. <sup>3</sup>	17,9	25,1	29,5	38,2	32,7	37,8	40,1	32 dB	29 dB	22 dB	31 dB
	Stand. dev. <sup>4</sup>	4,0	2,7	3,2	2,9	3,6	4,0	3,8				
	APV <sup>5</sup>	13,9	22,4	26,3	35,3	29,1	33,8	36,3				

**Attenuation data for Peltor Ground Mechanic Headset**

The Peltor Ground Mechanic Headset is tested and approved according to PPE directive 89/686/EEC and applicable parts of the EN352-1:1993 European norm. Certificates issued by FIOH, Laajaniityntie 1, FIN-01620, Vantaa, ID no. 0403.

## Adapter

**FL9E**

Sturdy box with easy-to-use PTT button and clamp for easy, effective attachment. Extremely oil and cold resistant polyurethane extension cord of 3–6 m. Spiral in the part that hangs from the aircraft body and straight in the part that lies on the ground.

Weight:.....285g  
Connectors:.....PJ-051



**FL9E-03**

Like the FL9E above, but the entire extension cord is spiral. Length 1.5–6.5 m.

Weight:.....430g  
Connectors:.....PJ-051



# Aviation – accessories

Peltor constantly develops new accessories, particularly in the hygiene area, to make our headsets as efficient and comfortable as possible for long periods of use.

Accessories, spare parts and additional equipment are all developed and manufactured by the same creative people who designed our headsets. This guarantees adaptability and safe function.

## Hygiene kit

Replace sealing rings and attenuation cushions quickly and easily. The set contains two sealing rings and two attenuating cushions.

To ensure good function and hygiene, replace twice a year.

## Wind protection

An effective wind muffler for microphones.

One per package.

## Clean single-use protectors

Packages of 100 pairs, which are easy to apply to the sealing rings.

## Mike Protector

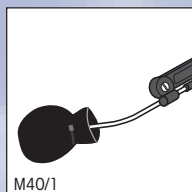
An effective single-use microphone protector that increases the microphone's life span. About 50 replacements/pkg.

## Storage bag

Effectively protects the headset during transport and storage.

## Cable clamp

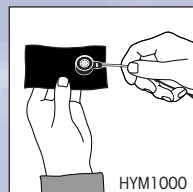
Stress-relieving clamp that can be attached to a lapel or pocket to keep the cord out of the way.



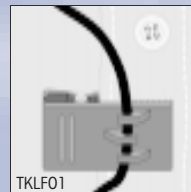
M40/1



M995



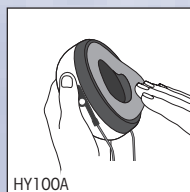
HYM1000



TKLF01



HY79



HY100A

Accessories, spare parts and additional equipment for Peltor Aviation headsets.

	<b>8003</b> MT52H79F-04 VI	<b>8006</b> MT51H79F-01 VI	<b>8103</b> MT52H79F-03	<b>8106</b> MT51H79F-02	<b>Ground Mechanic</b> MT72H7F-01
Hygiene kit	HY79	HY79	HY79	HY79	HY73
Wind protection	M40/1	M995	M40/1	M995	M40/1
Clean single-use protectors	HY100A	HY100A	HY100A	HY100A	HY100A
Mike Protector	HYM1000	HYM1000	HYM1000	HYM1000	HYM1000
Storage bag	FP0901	FP0901	FP0901	FP0901	FP0901
Cable clamp	TKFL01	TKFL01	TKFL01	TKFL01	TKFL01

# Peltor Aviation Headsets

## Small – yet spacious

The cups are light and comfortable. Despite their small outer dimensions, they provide ample space for the ears. This means both effective attenuation and good comfort.

## Two-point fasteners

Individually sprung bands of special steel provide an even distribution of pressure and stability despite the low contact pressure.

## Pressure balancing

An ingenious channel system ensures effective balancing of pressure. Provides both comfort and excellent attenuation.

## Broad, soft sealing rings

Peltor's unique foam-and-fluid filled rings distribute pressure evenly and give a low surface pressure. A must when the wearer also wears spectacles.

## Noise-compensated microphone

High-quality speech reproduction even at ambient noise levels of over 115 dB.

## Quick Positioning

Shift between speech and stand-by without changing your individual basic settings.

## Foldable headband

Adjusts to the shape of any head. A broad, soft head cushion gives comfort and stability. Continuous height settings.

## Frequency-compensated sound reproduction

Peltor earphones have a special frequency filter that considers the attenuation characteristics of the cup. This provides the best possible sound quality in noisy environments.

## Safety connection

The cord and contact are specially designed for the best function and reliability. The contacts are encased and reinforced at stress points.