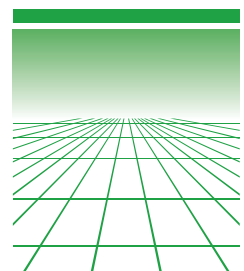


# Wireless TV listening systems



Enjoy the sound of your favourite TV shows at your own preferred volume without quality reduction and without disturbing other people.

HUMANTECHNIK – Your partner for audiological products



# earis®

## premium ■



»earis premium« – the top model of the »earis« series

»earis premium« opens up a completely new dimension for the hearing impaired to acoustically experience films, speech and music programmes on TV. The integrated »dynamic sound HS« offers a choice of five different representative sound images. **These are based on a development by the Fraunhofer Institute for Digital Media Technology IDMT in Oldenburg, which has created an algorithm specifically for users with impaired hearing, that represents the state of the art in intelligent audio modulation:** The sound is always dynamically optimized, according to the individual settings.

»earis premium« sets are available with either a stethoset receiver or a pocket receiver. The latter allows a wide variety of hearing components to be connected. A large adjustment wheel is used to control the volume up to 120 dB (A). Both receivers have easily interchangeable rechargeable batteries.

The TV listening system can also be switched to a communication hearing amplifier function. The receiver then picks up and amplifies the surrounding sounds and words of the people in the room.





Headphones not included in the »earis premium« scope of delivery



# earis<sup>®</sup>

## premium ■



»earis premium« includes: Ready-to-connect TV-listening system with transmitter and, according to the set, with either

- stethoset receiver ■ or pocket receiver and inductive neckloop
- 1 rechargeable battery ■ 1 power supply unit with adapters for various countries ■ 1 pair silicone rubber earpads, small (only included with stethoset receiver) ■ 1 Toslink-cable
- 1 audio-connection cable with 3,5 mm stereo jack plugs
- 1 audio-adapter RCA to 3,5 mm jack ■ 1 quick guide
- 1 user manual ■ 1 warranty card



»earis premium« pocket receiver for connecting the included »earis« inductive neckloop or any standard headphones.

dynamic sound **HS**

»earis premium« set with stethoset receiver





**»earis premium« makes your TV sound clear**

»earis premium« transmits the TV sound wirelessly via the 2.4 GHz digital frequency band and is available with a headset receiver or pocket receiver. The design of the LED status display represents a timeless modern appearance with an elegant high-tech accent. The system opens up a completely new and in this category unique feel-good hearing experience for its users.

**»dynamic sound HS«: hearing as you like it**

»dynamic sound HS« elevates the »earis premium« TV listening system to be the top model in its class on the market. »dynamic sound HS« provides five sound images that represent different listening preferences. You can select your own preferred »feel-good sound« at the touch of a button.

A specially developed algorithm continuously adjusts the TV-sound so that it always retains the character you have chosen for yourself – even when advertisement blocks or switching to other channels play in completely different sound and volume characteristics. The greater the deviation from the individually selected tone profile, the faster the compensating adjustment takes place.

Thus »earis premium« fulfils a significant wish of all people who would like to enjoy a higher level of sound enjoyment when watching television or listening to other media: Simple and effective self-adjustment.

Users of »earis premium« confirm there is a significantly improved understanding of speech in TV dialogues, even if these are mixed with background noise. Users also

report an enormous gain in perceived loudness – even when listening to music with great dynamic range or content.

**Switch over to communication**

When switching to the communication amplifier function, the inbuilt microphone in the »earis premium« receiver receives the words of those present in the room and amplifies them for the respective receiver.

»earis premium« stores the settings of the communication amplifier. This ensures that the user always returns to the last set volume when switching over.

**The »earis premium« transmitter**

The »earis premium« transmitter also serves as a charging station for the respective receiver. It also features a charging slot in the side for an additional receiver battery.

**The »earis premium« stethoset receiver**

The lightweight »earis premium« stethoset receiver with replaceable silicone rubber earpads guarantees maximum wearing comfort and exerts no pressure on the ears. The speaker arms also activate the on/off-switching mechanism.

**The »earis premium« pocket receiver**

The »earis premium« pocket receiver allows for the connection of standard commercially available listening options – from the included »earis« neckloop, which is part of every delivery, to any regular headphones or earphones.

A clip on the reverse side is used to attach it to clothing. For using a carrying cord, an appropriate eyelet is also included.



**»earis premium« gives me my personally preferred sound and thus real listening pleasure. I use the pocket receiver together with my favourite headphones.**

<b>»earis premium« Set with stethoset receiver:</b>	<b>Item number: A-4100-0</b>
<b>»earis premium« Set with pocket receiver:</b>	<b>Item number: A-4101-0</b>
Modulation method:	Pulse-code modulation PCM Analogue-over-digital
Carrier frequency:	2.4 GHz~2.5 GHz
Signal-to-noise distance:	-87 dB
Transmission power:	10 dBm
Audio latency:	< 47 ms
Transmission range:	> 70 m
Temperature range:	0 °C to 45 °C
Power supply:	5 Volt DC / 1.5 A
Power adapter:	100-240 Volt 50-60 Hz 300mA
<b>earis stethoset receiver</b>	
Harmonic distortion:	1kHz<1% at 500mVrms
Übertragungsbereich:	20-16 kHz
Sound pressure level:	122 dB SPL at Input=1kHz/500mVrms
Earpad material:	Silicone rubber
Power supply:	3.7V 400mAh, Lithium-polymer rech. battery
Running time per charge:	approx. 9 hours
Charging time:	approx. 2 hours
Weight (battery incl.):	61 g
Dimensions (mm):	244 x 112.5 x 24
Temperature range:	0 °C – 45 °C
<b>earis Pocketempfänger</b>	
Connection:	3.5mm stereo jack socket, 16 Ohm minimum
Power supply:	3.7V 400mAh, Lithium-polymer rech. battery
Running time per charge:	approx. 9 hours
Charging time:	approx. 2 hours
Weight (battery incl.):	41 g
Dimensions (mm):	Ø: 63 x T: 24 mm
Temperature range:	0 °C – 45 °C



**Reverse side of the pocket receiver with balance adjustment (featured on both receiver types), belt clip and eyelet for a carrying cord.**

# earis<sup>®</sup> XS





**A great decision for people who want to watch TV undisturbed and who value excellent sound - at individual volume.**

»earis XS«, the second system in the »earis« series, incorporates the essential features of the top model and is therefore comparable with TV listening systems from the premium segment of other manufacturers available on the market.

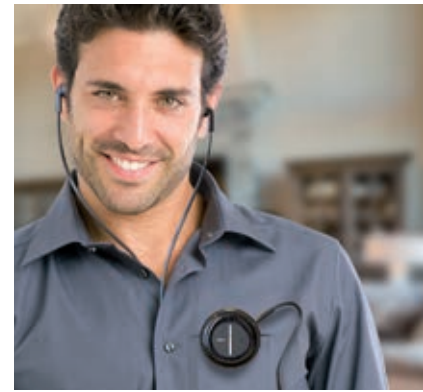
**Individual sound settings**

Like the top model, »earis XS« offers five presets. These were determined representatively in extensive investigations with normally hearing and hearing impaired testers. Without exception, users confirm that they see their preferred individual sound pattern represented.

**Differences to the »earis« top model**

Because »earis XS« does not feature the »dynamic sound HS« algorithm and the conversation amplifier function, it can be offered at a much lower price, even compared to other premium TV hearing systems. Humanteknik recommends »earisXS« for hearing-impaired people who value their personally preferred sound when watching television and use their TV hearing systems primarily for this purpose.

»earis XS« sets are available with an underchin- or pocket receiver. A pair of earphones is included in the standard scope of delivery of the pocket receiver, and the receiver also allows the connection of any commercially available headphones.



**I use »earisXS« alternately with my wife. She doesn't want to be disturbed by my sports broadcasts, and I don't like soap operas. So everyone can watch their favourite shows in the best audio quality - and the other has his peace of mind.**

<b>»earis XS« set with stethoset receiver:</b>	<b>Item number: A-4102-0</b>
<b>»earis XS« set with pocket receiver:</b>	<b>Item number: A-4112-0</b>
Modulation method:	Pulse-code modulation PCM Analogue-over-digital
Carrier frequency:	2.4 GHz~2.5 GHz
Signal-to-noise distance:	-87 dB
Transmission power:	10 dBm
Audio latency:	< 47 ms
Transmission range:	> 70 m
Temperature range:	0 °C bis 45 °C
Power supply:	5 Volt DC / 1.5 A
Power adapter:	100-240 Volt 50-60 Hz 300mA
<b>»earis XS« stethoset receiver</b>	
Harmonic distortion:	1kHz<1% at 500mVrms
Frequency range:	20-16 kHz
Sound pressure level:	122 dB SPL at Input=1kHz/500mVrms
Earpad material:	Silicone rubber
Power supply:	3.7V 400mAh, Lithium-polymer rech. battery
Running time per charge:	approx. 9 hours
Charging time:	approx. 2 hours
Weight (battery incl.):	61 g
Dimensions (mm):	244 x 112.5 x 24
Temperature range:	0 °C – 45 °C
<b>»earis XS« Pocketempfänger</b>	
Anschluss:	3.5mm stereo jack socket, 16 Ohm minimum
Power supply:	3.7V 400mAh, Lithium-polymer rech. battery
Running time per charge:	approx. 9 hours
Charging time:	approx. 2 hours
Weight (battery incl.):	41 g
Dimensions (mm):	Ø: 63 x T: 24 mm
Temperature range:	0 °C – 45 °C



- »earis XS« includes a ready-to-connect hearing system set with transmitter and:
- stethoset receiver
  - or pocket receiver
  - 1 rechargeable battery
  - 1 AC power supply
  - 1 pair of small earbuds (only with stethoset receiver)
  - 1 earphone (only with pocket receiver)
  - 1 Toslink cable
  - 1 audio connection cable with 3.5mm stereo jack plug
  - 1 audio adapter RCA to 3.5mm jack
  - 1 quick reference guide
  - 1 user manual
  - 1 warranty card

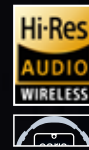
# earis<sup>®</sup>

# MAX

Expected to be available from April 2024



 **Bluetooth<sup>®</sup>**  
 **AURACAST**



### System features »earisMAX« Bluetooth<sup>®</sup>-5.3 headphones

- Bluetooth<sup>®</sup> version 5.3
- Auracast<sup>™</sup>
- LE-Audio
- Calibration and saving of individual hearing profile values
- Real-time transmission via AAC und LC3
- HiRes LDAC (high-resolution audio)
- Active noise cancellation ANC
- Transparency function
- Multi-point connection

### Further system components

- Stationary Bluetooth<sup>®</sup> transmitter
- Storage stand with inductive charging
- Bluetooth<sup>®</sup> microphone with clip

Detailed information on the system in the special brochure »earisMAX« - planned for March 2024





**The Bluetooth® system  
»earisMAX« – with  
Auracast™ and LE-Audio:  
convenient media listening  
at the cutting edge of audio  
technology.**

»earisMAX« is a system that opens a new chapter in Bluetooth audio with Auracast™ and LE audio in terms of performance, comfort and application flexibility - including the integration of hearing aids.

The system features different components that can be used both individually or in combination.

**The smart Bluetooth® 5.3 headphones »earisMAX«**

The »earisMAX« headphones integrate continuous volume control and noise cancellation (ANC) directly on the device.

The headphone battery is charged via a USB-C charging port.

A storage stand is available as an **optional accessory**, which includes a wireless (inductive) charging station.

**The smartphone app »earisMAX«**

The smartphone app »earisMAX« offers advanced setting options for customising the sound of the »earisMAX« Bluetooth® headphones to individual hearing preferences right up to calibrating the individual hearing profile of its users and saving the data in the headphones. All further customised settings then take the saved profile into account.

**The »earisMAX« Bluetooth® transmitter with Auracast™**

The transmitter offers connection options for a wide range of audio sources, such as digital optical and

HDMI connections. Connected to a TV set without a Bluetooth® interface, it transmits the TV sound to the »earisMAX« headphones as well as to personal Bluetooth®-enabled hearing systems.

**Das »earisMAX« Bluetooth® Mikrofon mit Clip**

The microphone also incorporates Auracast™ and allows communication with people wearing Bluetooth® receivers for acoustic speech understanding, e.g. »earisMAX« headphones, accordingly equipped hearing aids or other suitable receiver systems.

When connected to an audio source, the microphone transmits its audio signals to all receivers within range. Switch to receiving: Receive mode allows listening to Bluetooth® transmissions via connected personal listening components.



**»I am a sound gourmet and have high standards- especially when it comes to listening to music.**

**It seems as if earisMAX is tailor-made for me, and with the smartphone-app I get the maximum out of it. Simply brilliant.«**

Main features	
Bluetooth®-Version	5.3 (LE-Audio as well as Auracast™)
High definition audio	AAC, LC3
Smartphone app	Available free of charge for Android and iOS, with comprehensive sound customisation functions and audiometric settings
ANC (active noise cancelling)	Incorporated
Transparency mode	Can be parameterised
Multi-point connection	Can be activated
Wear/usage recognition	Incorporated as standard
Frequency range	20 Hz - 20 kHz
Max. SPLI (Sound pressure level 1 kHz)	123 dB
THD (Harmonic distortion at 1 kHz)	< 0.5%
Operating time per battery charge	approx. 50 hours (without ANC)
Charging time	2 hours
Transmission range	10 m
Sound settings	Can be parameterised via smartphone app
Volume control	Continuous
Microphone (receiver)	Incorporated
Weight	250 g
Dimensions	170 x 192 x 82 mm
Rechargeable battery	720 mAh
Scope of delivery	Bluetooth® headphones earisMAX, USB-C cable, softcase for storage
Optional accessories	
earisMAX Bluetooth® transmitter	For connection to audio sources
Storage stand with inductive charging	Headphone storage and wireless charging
Bluetooth® basic functions	Transmitter microphone / receiver with clip
earisMAX-Set, individually packed	
e.g. Bluetooth® headphones earisMAX, Bluetooth® transmitter, inductive storage stand	

**Auracast™**

Also known as broadcast audio, the Auracast™ function enables Bluetooth®-transmitters such as smartphones, laptops, TVs or public address systems - if so equipped - to transmit audio signals to an unlimited number of nearby Bluetooth® receivers, such as headphones, earphones, speakers or hearing aids.



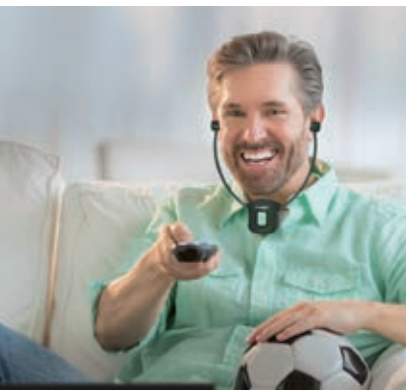
Image left: The system:

- 1 Bluetooth-headphones (A softcase is included in the delivery)
- 2 Optional: Storage stand with inductive charging
- 3 Bluetooth transmitter with Auracast™-function and various inputs for the simultaneous connection of several audio devices, like TV-sets and Hifi stereo sets. The selection of the audio source is done by a button on the front face of the unit.
- 4 Auracast™-enabled Bluetooth-transmission-microphone with clip, suitable for presenters and moderators.



# sonumaxx<sup>NX</sup>

Expected to be available from 1st quarter 2024



»That's what I call a live experience. My »sonumaxx-NX« takes me into the atmosphere of a football stadium...  
... and in the halftime break, I can switch to the communication amplifier and talk to my wife.«

## »sonumaxx-NX« sets a new quality position in its class for TV-listening systems.

As the successor system to the previous sonumaxx-2.4, the new »sonumaxx-NX« offers significantly better quality features than its predecessor.

Due to the use of a more recent technical basis, »sonumaxx-NX« is not compatible with components from the predecessor model.

Audiological technology, ergonomically intelligent design and superior digital 2.4 GHz transmission technology make a significant contribution to ensuring that »sonumaxx-NX« has an all-round convincing quality with powerful amplification, top stereo sound, comfortable operation and versatility.

### Acoustic or inductive listening

»sonumaxx-NX« is available with two different receiver types: a) with a stethoset receiver and b) with the compact pocket receiver. The latter,

in particular, allows a clear increase in versatility in the choice of listening options - including inductive hearing for hearing aid wearers or CI systems.

With an adjustable volume of **up to 120 dB** the »sonumaxx-NX« also offers a balanced and pleasantly clear sound in the upper amplification range.

The transmission between transmitter and receiver via the 2.4 GHz frequency band proves to be resistant to interference and safe.

### The »sonumaxx-NX« transmitter

To connect the transmitter to a TV or other audio system, the included connection set has all the common connection cables, including Toslink.

The transmitter serves as storage and docking station for the receiver as well as a receiver battery charger.

A fully charged battery allows an operating time of about **8 to 9 hours**. Two receiver batteries are included in the set, one can be used in a receiver whilst the other is being charged in the side charging port.

On the front of the »sonumaxx-NX« transmitter buttons allow the user to select from three pre-programmed tone profiles for the one closest to their listening preference.

## The »sonumaxx-NX« receivers: Listen to TV sound without disturbing others and switch to communication if required

The housings for the chinrest receiver and the pocket receiver and their operating elements are identical.

A particularly convenient feature of the »sonumaxx-NX« receiver is the ability to switch from receiving television sound to communication at the touch of a button. An integrated microphone then picks up the sounds of the surroundings and »sonumaxx-NX« amplifies them.

### The stethoset receiver

The receiver of the »sonumaxx-NX« in stethoscope design is comfortable to wear without causing unpleasant pressure on the ears. The comfy, replaceable ear pads made of soft silicone also contribute to this.

### The pocket receiver

The pocket receiver offers more versatility and individuality. It allows the connection of all commercially available listening options, for example such as headphones, earphones or headsets.

Neckloop for inductive hearing included: The scope of delivery of the pocket receiver set also includes a neckloop as standard.

Specifications	
Transmission method:	digital radio (Stereo)
Carrier frequency:	2,4 GHz
Audio frequency transmission range:	30 - 20000 Hz
Harmonic distortion:	< 0,5 %
Signal-to-noise distance:	> 75 dB
Temperature range:	0° C - 55° C
Transmitter:	
Power supply:	5 Volt DC
Power adapter:	100-240 Volt 50-60 Hz
Weight:	118 g
Transmission range:	up to 25 m
Receiver:	
Running time per charge:	approx. 8 to 9 hours
Battery-type:	Li-Polymer 3,7V 350 mAh
Number of batteries included:	2
Charging time:	approx. 5 h (2,5h at 90% load)
Max. volume:	approx. 120 dB (A)
Weight:	66 g

»sonumaxx-NX« sets	
■ »sonumaxx-NX« set, transmitter with stethoset receiver Item number:	<b>A-4109-0</b>
■ »sonumaxx-NX PR« set, transmitter with pocket receiver Item number:	<b>A-4139-0</b>





The pocket receiver has a clip so that it can be worn comfortably on your clothes.

The »sonumaxx-NX« system set includes a ready-to-connect TV hearing system with a transmitter and either a headset receiver or pocket receiver with clip, as well as

- 2 rechargeable batteries,
- 1 power supply,
- 2 pairs of earpads

Audio connector set:

- 1 Audio-connection cable with 3,5 mm stereo jack plugs,
- 1 Audio adapter 3,5 mm to 6,3 mm jack,
- 1 RCA-to-3,5 mm jack adapter,
- 1 Toslink-cable,
- 1 microphone with 1m cable is included where a direct audio connection is not available.

The pocket receiver set includes a neckloop.



### LH-060TV: Comfortable TV headphones with high sound quality

These deluxe stereo TV headphones with extra-soft earpads provide comfortable wearing – even over many hours. Separate volume adjustment for each side is given and the 5.5-metre long cable provides generous freedom of movement.



#### Specifications: LH-060TV (A-4882-0)

Transmission method:	via connection cable
Frequency range:	20-20000 Hz
Harmonic distortion:	0,5 %
Max. volume:	approx. 113 dB (A)
Weight:	260 g
Anschlusskabel:	5,5 m cable length, 3,5 / 6,3 mm stereo jack-plug
Impedance:	24 Ω

### LH-056TV: TV headphones

(not depicted) Stereo TV headphones with volume control for independent adjustment left and right, five metres of cable for connection to the audio source (e.g. TV set).

#### Specifications: LH-056TV (A-4881-0)

Transmission method:	via connection cable 3,5 / 6,3 mm stereo jack plug
Frequency range:	20-20000 Hz
Harmonic distortion:	0,5 %
Max. volume:	approx. 115 dB (A)
Weight:	90 g
Range:	5 m cable length
Impedance:	32 Ω



### S/PDIF Audio converter, Item no.: A-4963-0

*(Limited amounts / delivery as long as stock lasts)*

The S/PDIF converter converts digital signals from corresponding audio sources into analogue audio signals and makes them available for use by systems with analogue audio inputs. Power is supplied via a power supply unit which is included in the set.



#### Silicone rubber earpads for headset receiver »earis« Item number

1	Standard earpads (2 pairs)	A-4890-0
2	Tapered shape (2 pairs)	A-4891-0

#### Silicone rubber earpads for stethoset receiver »sonumaxx2.4« and »sonumaxx2.4« Item number

3	Standard earpads (2 pairs)	A-4997-0
3	Standard earpads, maxi pack (24 pairs)	A-4998-0

#### 4 Replacement batteries Item number

	Rechargeable battery for »earis«	A-4980-0
	Rechargeable battery for »sonumaxx-2.4«	A-4968-0

#### »earis« neckloop Item number

	Neckloop, stereo, 1 m	A-4927-0
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#### Replacement connection cables Item number

	Cable set Toslink, includes optical Toslink lead	A-4893-0
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Your specialist dealer will give you comprehensive and competent advice