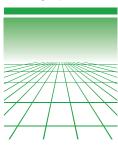




Enjoy the sound of your favourite TV show at your own individual volume without reducing quality and not disturbing others.

HUMANTECHNIK – Your partner for audiological products



# Earis

**"earis"** opens up a completely new dimension for hearing impaired people to listen to and enjoy feature films, speech and music programmes on TV, Radio or from any other audio device. The integrated Dynamic Sound Hearing Support **(Dynamic sound HS)** offers five selectable basic tone profiles. These five basic tone profiles were derived from research on the needs of hearing-impaired people when listening to the types of programmes described above. This research was carried out by the Fraunhofer Institute for Digital Media Technology IDMT in Oldenburg, Germany.

Whilst listening with the selected (preferred) tone profile the listened to programme is then continuously and dynamically being altered, by implementing an algorithm developed by the Fraunhofer Institute. This for example keeps any loud sounds from reaching the users hearing. This "cushions" the naturally changing levels for the respective listeners when advertisements are displayed or when switching to another TV channel. It acts like a continuously varying tone control on the listened to sound to match it to the users selected tone profile.

A large volume wheel is used for overall volume control up to 122 dB (A).

**»earis«** sets are available with either an under-the-chin receiver or a pocket receiver. The latter allows the connection of different listening options. Both receivers have exchangeable rechargeable batteries.

The TV listening system can also be switched to a communication amplifier function. The receiver then picks up and transmits the words of the conversation partners in the room.





# »earis«® makes your TV sound

»earis«® 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

Humantechnik has integrated the main feature that makes »earis«® the top model in the premium class on the market under the name »dynamic sound HS«. This provides five tone profiles that represent different listening preferences. You can select your personal feel-good sound at the touch of a button.

great dynamic range or content. earis® Set with headset receiver: Item number: A-4100-0 earis® Set with pocket receiver: Item number: A-4101-0 Modulation method: Pulse-code modulation PCM Analog-over-digital Carrier frequency: 2.4 GHz~2.5 GHz Signal-to-noise distance 10 dBm Transmission power Audio latency: < 47 ms > 70 m Transmission range: 0 °C to 45 °C Temperature range 5 Volt DC / 1.5 A Power supply: Power adapter: 100-240 Volt 50-60 Hz 300mA earis® headset receiver 1kHz<1% at 500mVrm 20-16 kHz Frequency range: Sound pressure level: 122 dB SPL at Input=1KHz/500mVrms Earpad material: Silicone rubber Power supply: AP18A 3.7V 400mAh, Lithium-Polymer rechargeable battery Running time per charge: approx. 9 hours approx. 2 hours Charging time: Weight (battery incl.): 61 g Dimensions (mm): 244 x 112.5 x 24 Temperature range: 0 °C – 45 °C earis® pocket receiver 3.5mm stereo jack socket 16 Ohm minimum AP18A 3.7V 400mAh Power supply: Lithium-Polymer rechargeable batter Running time per charge: approx. 9 hours approx. 2 hours Charging time: Weight (battery incl.): Ø: 63 x T: 24 mm Dimensions (mm): Temperature range: 0 °C - 45 °C

### Communication

A specially developed algorithm

continuously adjusts the TV-sound

so that it always retains the char-

acter 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

Thus "earis" fulfils a significant

wish of all people who would like to

enjoy a higher level of sound enjoy-

ment when watching television or

listening to other media: Simple and

significantly improved understand-

ing of speech in TV dialogues, even

if these are mixed with background

noise. Users also report an enor-

mous gain in perceived loudness

- even when listening to music with

effective self-adjustment.

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

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

# The »earis«® transmitter

The **»earis«**® transmitter also serves as a charging station for the respective receiver. It also features a charging slot in the side for an Users of **»earis«**® confirm there is a additional receiver battery.

# The »earis«® headset receiver

The lightweight "earis" headset 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«® pocket receiver

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





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



# The premium 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, integrates 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 patterns

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.

Temperature range:

# 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. Humantechnik recommends "earis" XS « for hearing-impaired people who value their personally preferred spound 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 "earis" XS« 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.



»earis«® Package contents: eady-to-connect TV hearing system set with transmitter and

- underchin receiver
- or pocket receiver
- 1 rechargeable battery
- 1 AC power supply1 pair of small earbuds
- (only underchin receiver)

  1 earphone (only pocket receiver)
- 1 toslink cable
- 1 audio connection cable with 3.5mm stereo jack plug
- 1 audio adapter cinch to 3.5mm jack
- 1 quick reference guide
- 1 user manual
- 1 warranty card

Item number: A-4112-0 »earis®XS« with pocket receiver: Modulation method Pulse-code modulation PCM Analog-over-digital Carrier frequency: 2.4 GHz~2.5 GHz Signal-to-noise distance -87 dB 10 dBm Transmission power Audio latency: < 47 ms Transmission range: > 70 m 0 °C to 45 °C Temperature range 5 Volt DC / 1.5 A Power supply: Power adapter: 100-240 Volt 50-60 Hz 300mA »earis®XS« headset receive 1kHz<1% at 500m 20-16 kHz Frequency range: Sound pressure level: 122 dB SPL at Input=1KHz/500mVrm Earpad material: Silicone rubber Power supply: AP18A 3.7V 400mAh. Lithium-Polymer rechargeable 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 »earis®XS« pocket receiv Connector: 3.5mm stereo jack socket 16 Ohm minimum AP18A 3.7V 400mAh Power supply: Lithium-Polymer rechargeable batter Running time per charge: approx. 9 hours approx. 2 hours Charging time: Weight (battery incl.): 41 g Ø: 63 x T: 24 mm Dimensions (mm):

0 °C - 45 °C



# sonu**maxx** BT

»sonumaxx-BT« is the contemporary combination of TV-listening system, mobile phone headset and communication amplifier in a single system. Simply switch to the feature you require.

»sonumaxx-BT« brings the TV sound directly to your ear, clearly understandable as loud as you like and without disturbing anyone. The tone profile settings give you greater control to your listening.

# Use »sonumaxx-BT« for phone calls or participate in conversations.

Thanks to Bluetooth technology, your »sonumaxx-BT« is always in touch with your mobile phone. As soon as you receive a call, your mobile phone automatically transmits the ringtone to your sonumaxx-BT «receiver. By pressing the phone button, you take the call while the reception of the TV sound is muted.

**Switch to conversation:** If you want to take part in conversations in the room, simply press the amplifier button on your »sonumaxx-BT« and use it as a sound amplifier.

**Bluetooth transmission directly to your hearing aids:** If you wear hearing aids with a standard Bluetooth interface, you can purchase

# onumaxx-BT« Sets

- »sonumaxx-BT« Set, transmitter with headset receiver Item number: A-4107-0
- »sonumaxx-BT LR« Set, transmitter with neckloop receiver Item number: A-4137-0

## sonumaxx-BT« transmitter

»sonumaxx-BT« universal
Bluetooth transmitter:
Item number: A-4117-0

mitter separately and connect it to any audio device. This allows you to comfortably receive any media sound directly in your hearing aids.

# **Essential features**

- Three tone profiles to enhance your sound experience.
- Variable volume control
- Powerful sound up to 125 dB
- Receiver left/right Balance control
- Compatible with all TV-sets
- Long running time per battery charge
- Versatile: Transmitter and receiver of the »sonumaxx-BT« can also be used independently and paired with any other Bluetooth transmitter or receiver
- Separately available: Universal Bluetooth-transmitter for people, who already own standard Bluetooth-enabled equipment.

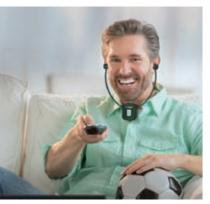


»I listen to my TV as loud as I like. Nobody else is disturbed...

... and at the touch of a button I can receive telephone calls or join in conversations.«



Specifications	
Transmission method:	Digital Bluetooth (Stereo)
Carrier frequency:	2,4 Ghz
Audio frequency transmission range:	30 - 20000 Hz
Harmonic distortion:	< 2%
Signal-to-noise distance:	> 70 dB
Temperature range:	-20 °C~ 40 °C
Transmitter	
Transmission frequency band:	2,4 GHz
Bluetooth version:	3.0
Transmission range:	approx. 10 metres
Audio input:	3,5 mm stereo jack, Toslink, S/PDIF
Power consumption:	2.5 mW
Power supply:	5 Volt DC / USB
Power adapter:	110-230 VAC
Weight:	107g
Dimensions, WxHxD:	109 x 40 x 108 mm
Receiver	
Bluetooth version	4.1
Maximum volume / Sound pressure:	125 dB
Running time per charge:	7 hours
Battery-type:	3,7 V Lithium-Bat. / 380 mAh
Charging time:	< 3 hours
Weight:	65 g
Dimensions:	Casing Ø 67mm / D: 26 mm



»That's what I call a live experience. My »sonumaxx-2.4« takes me into the atmosphere of a football stadium...

... and in the halftime break, I can switch to the communication amplifier and talk

# sonu**maxx**<sup>2.4</sup>

»sonumaxx-2.4« sets a new quality position in its class for TV-listening systems.

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

# Acoustic or inductive listening

»sonumaxx-2.4« is available with two different receiver types: a) with a headset receiver and b) with the compact pocket receiver. The latter, in particular, allows a clear increase in versatility in the choice of listento my wife.« ing options - including inductive hearing for hearing aid wearers or CI systems.

> With an adjustable volume of up to 120 dB the »sonumaxx-2.4« also offers a balanced and pleasantly clear sound in the upper amplification range

digital radio (Stereo)

2.4 GHz

> 75 dB

5 Volt DC

0° C – 55° C

30 - 20000 Hz

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

# The »sonumaxx-2.4« transmitter

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

The transmitter serves as a storage and docking station for the receiver as well the receiver battery charger. A fully charged battery allows an operating time of about 6 to 8 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-2.4« transmitter buttons allow the user to select from three pre-programmed tone profiles for the one closest to their listening preference.

The »sonumaxx-2.4« receivers: listen to TV sound without disturbing anyone and switch to conversation amplifier if needed

The housings for the headset receiver and the pocket receiver as well as their controls are identical. A convenient feature of the »sonumaxx 2.4« receiver is the ability to switch from receiving TV sound to communication at the touch of a button. When activated, an integrat-

# »sonumaxx-2.4« set, transmitter with stethoscope receive A-4108-0 sonumaxx-2.4« PR, set, transmitter with pocket receiver

Item number:

ed microphone picks up the sounds of the surroundings and »sonumaxx 2.4« amplifies them.

### The headset receiver

The receiver of the »sonumaxx 2.4« with its stethoscope design is comfortable to wear without undue pressure on the ears. The replaceable earpads made of soft silicone enhance the comfort.

# The pocket receiver

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

The pocket receiver set includes a neckloop in addition to the standard accessories. For those who prefer inductive earhooks they can be obtained from the Humantechnik accessories range.



100-240 Volt 50-60 Hz Power adapter: approx. 43 g up to 25 m Receiver: approx. 6 to 8 hours Li-Polymer 3,7V 350 mAh Battery-type: Number of batteries approx. 5 h (2,5h at 90% load) Loading time: Max. volume approx. 120 dB (A)

10

Carrier frequency:

Signal-to-noise distance

Temperature range:

Power supply:

Audio frequency transmission range





LH-056TV: Headphones with high sound quality

The stereo headphone system with
integrated volume
control allows
separate settings for
the left and right sides.
Five metres of cable for
connection to the audio
source (e.g. TV) provide

for a generous range of movement. Please note that these headphones do not feature independent amplification.

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 distorsion:	0,5 %		
Max. volume:	approx. 115 dB (A)		
Weight:	90 g		
Range:	5 m cable length		
Impedance:	32 W		

Humantechnik's TV listening systems also allow for expansion, for example the operation of several receivers with a single transmitter.

The systems also offer extended versatility of use: if you intend to use them in media rooms of cultural or social institutions or if you want to operate several TV hearing systems in adjacent rooms, we recommend that you consult your specialist dealer, who will be happy to show you the possibilities.



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

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 headset receiver »sonumaxx-2.4«		
and headset receiver »sonumaxx-BT« Item number		
3 Standard earpads (2 pairs)	A-4997-0	
3 Tapered shape, maxi pack (24 pairs)	A-4998-0	

Replacement batteries	Item number
Rechargeable battery for »earis«	A-4980-0
Rechargeable battery for »sonumaxx-2.4«	A-4968-0

»earis« neckloop	Item number
5 »earis« neckloop	A-4892-0

Replacement connection cables	Item number	
Cable set Toslink, includes optical lead	A-4961-0	



E-Mail: info@humantechnik.com

Your specialist dealer will give you comprehensive and competent advice