DEX™

A WIRELESS WORLD

USER INSTRUCTIONS

TV-DEX

WIDEX®

HIGH DEFINITION HEARING

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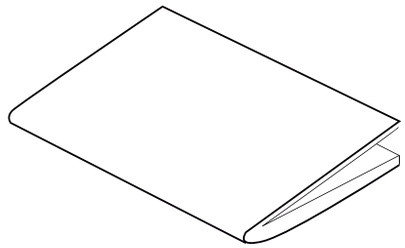
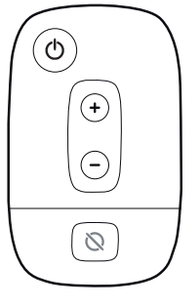
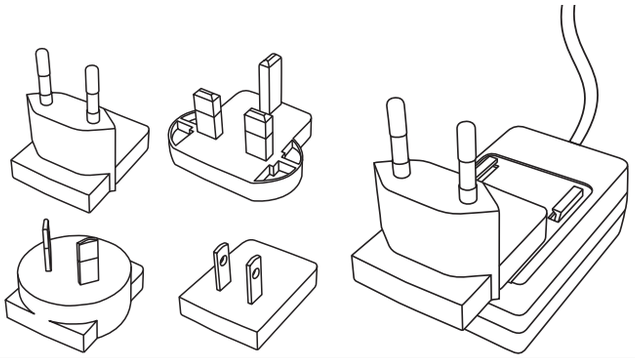
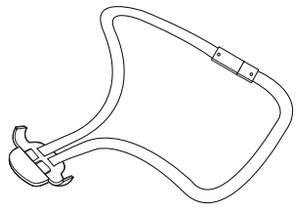
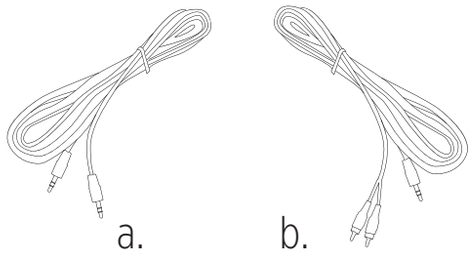
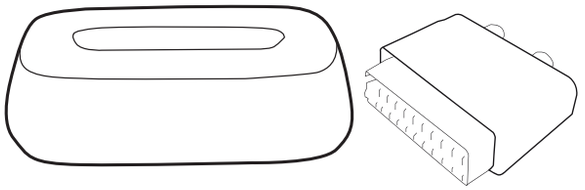
User manual	
TV-Controller II	
Box 1: Mini USB power supply	

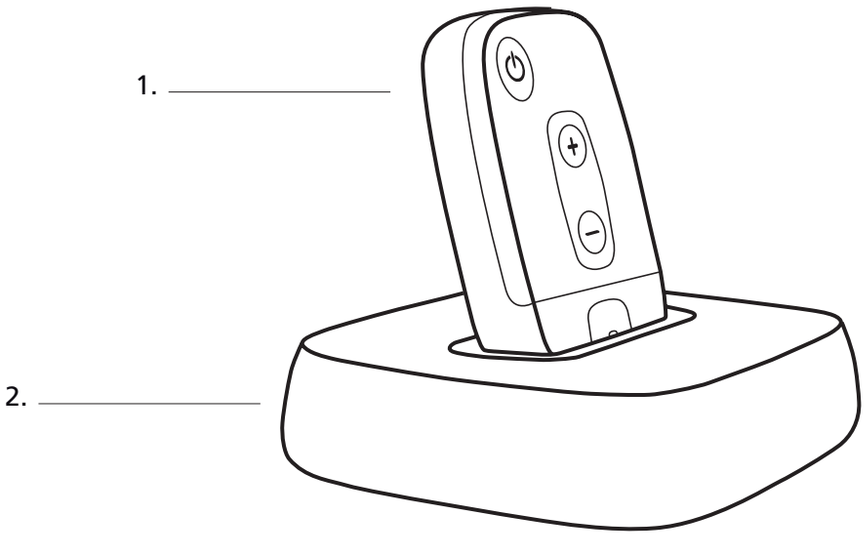
Box 2: **Lanyard**	
Box 3: a. 3.5 mm jack to 3.5 mm jack cable b. 3.5 mm jack to phono cable	 a. b.
Box 4: a. TV-Base b. SCART adaptor *(For European markets only)*	 a. b.

DESCRIPTION OF DEVICE

The TV-DEX comprises a TV-Controller (1) and a TV-Base (2).

1. **TV-Controller** II
2. **TV-Base**

The TV-DEX allows the user to listen to audio input using WidexLink for connection to Widex hearing aids.



If you need help to identify the serial number (usually six or seven digits) on the product, please contact your hearing care professional.

WARNING

This booklet contains important information and instructions. Please read this booklet carefully before you start using the device.

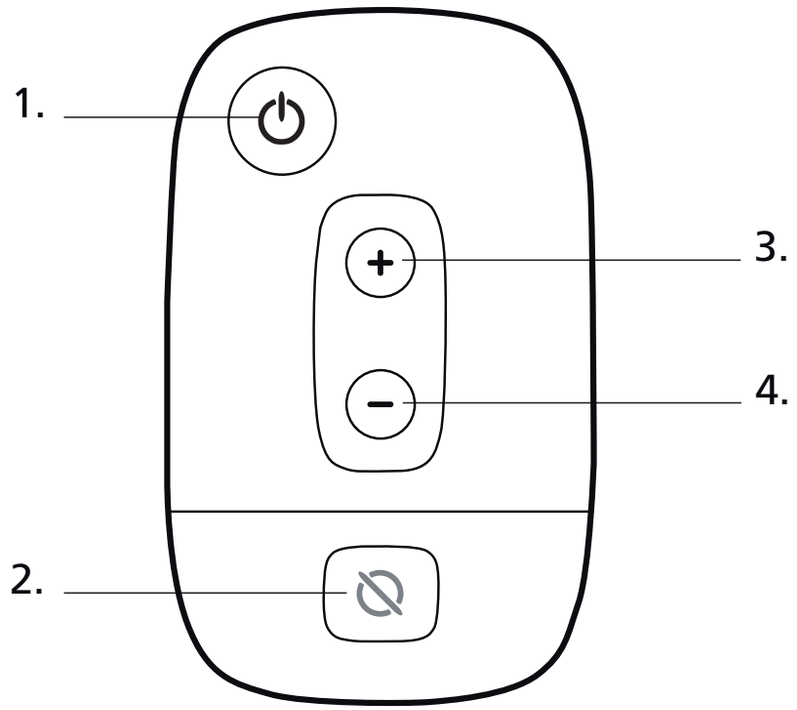
Intended use

The TV-DEX is a wireless device intended for listening directly to the TV or other audio sources.

TV-CONTROLLER II

The controller is provided with four keys:

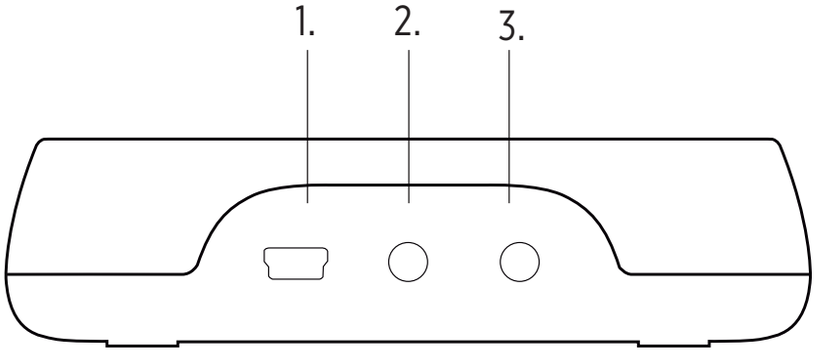
1. **Transmission on/off**
2. **Room off**
3. **Volume up**
4. **Volume down**



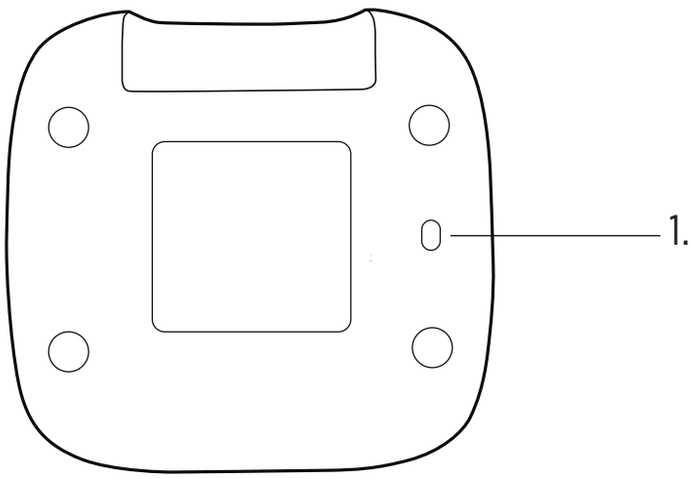
TV-BASE

On the back of the base you will find the following inputs:

1. **Power**
2. **TV**
3. **Audio**



On the underside of the base there is a switch with a choice of two settings:



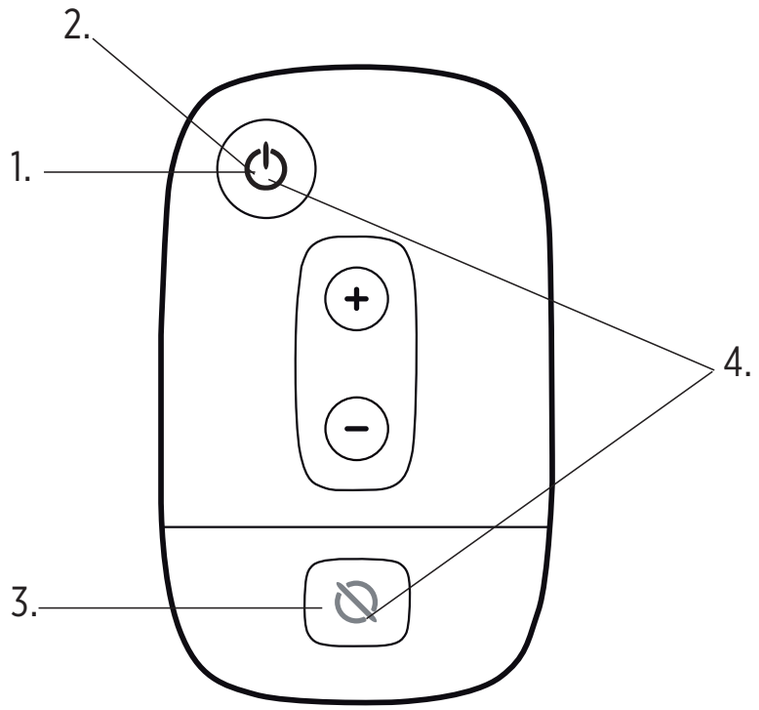
1. Monaural/binaural switch

The setting chosen by your hearing care professional depends on whether you use a hearing aid in only one ear (monaural) or in both ears (binaural).

LIGHT-EMITTING DIODES

There are two light-emitting diodes (LEDs) on the controller.

1. **Constant green light:** Transmission
2. **Changing from green to red:** Transmission off
3. **Constant red light:** Room off active
4. **Flashing red and green light:** Battery charging

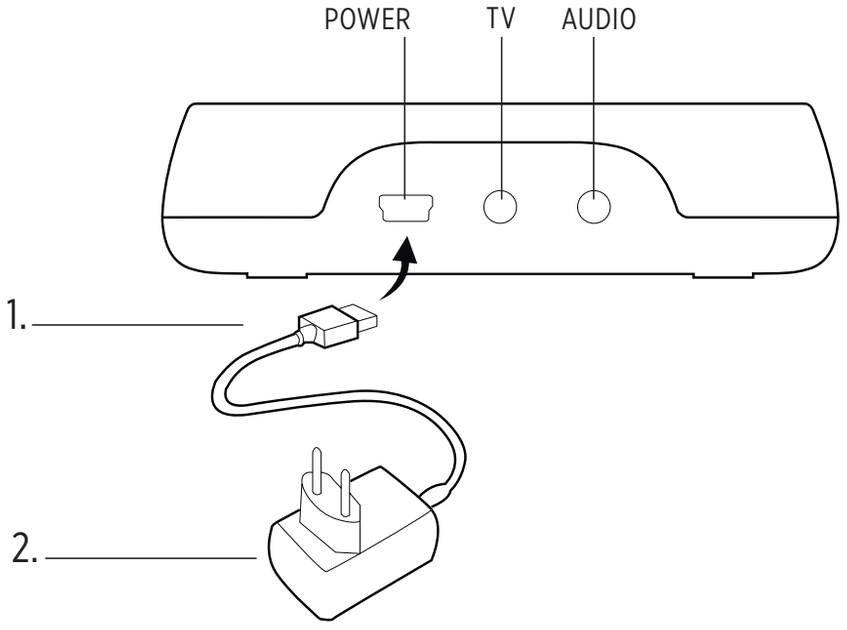


GETTING STARTED

You can skip steps 5+6 if you only wish to transmit from the TV, and steps 3+4 if you only wish to transmit from an audio source.

Connecting the units:

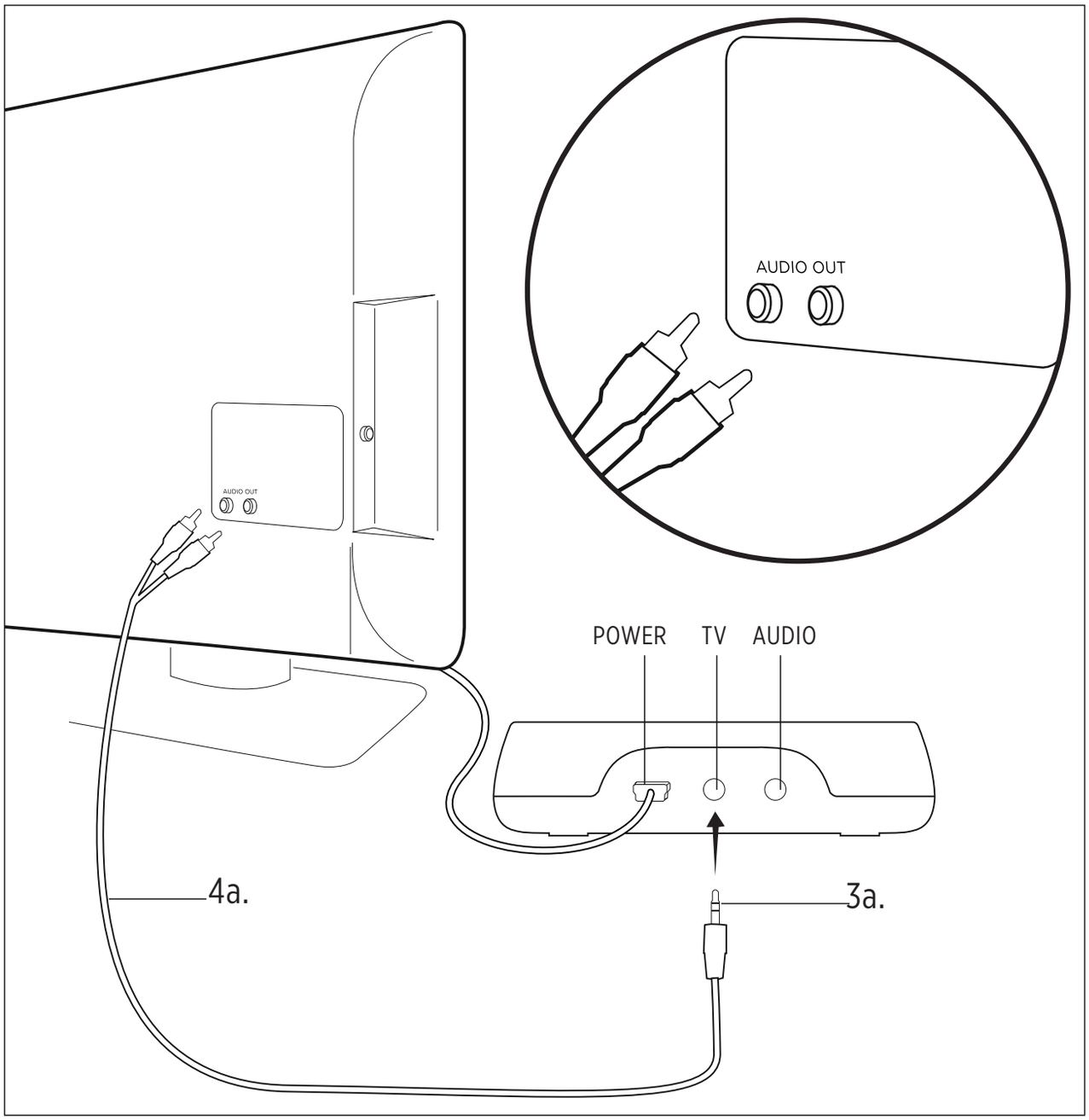
1. Connect the mini-USB power supply unit to the base. (The supply unit is supplied with 4 plugs. Connect the plug used in your country as illustrated).
2. Plug the other end into a wall outlet.



TV:

3a. Connect the jack to phono cable to the base.

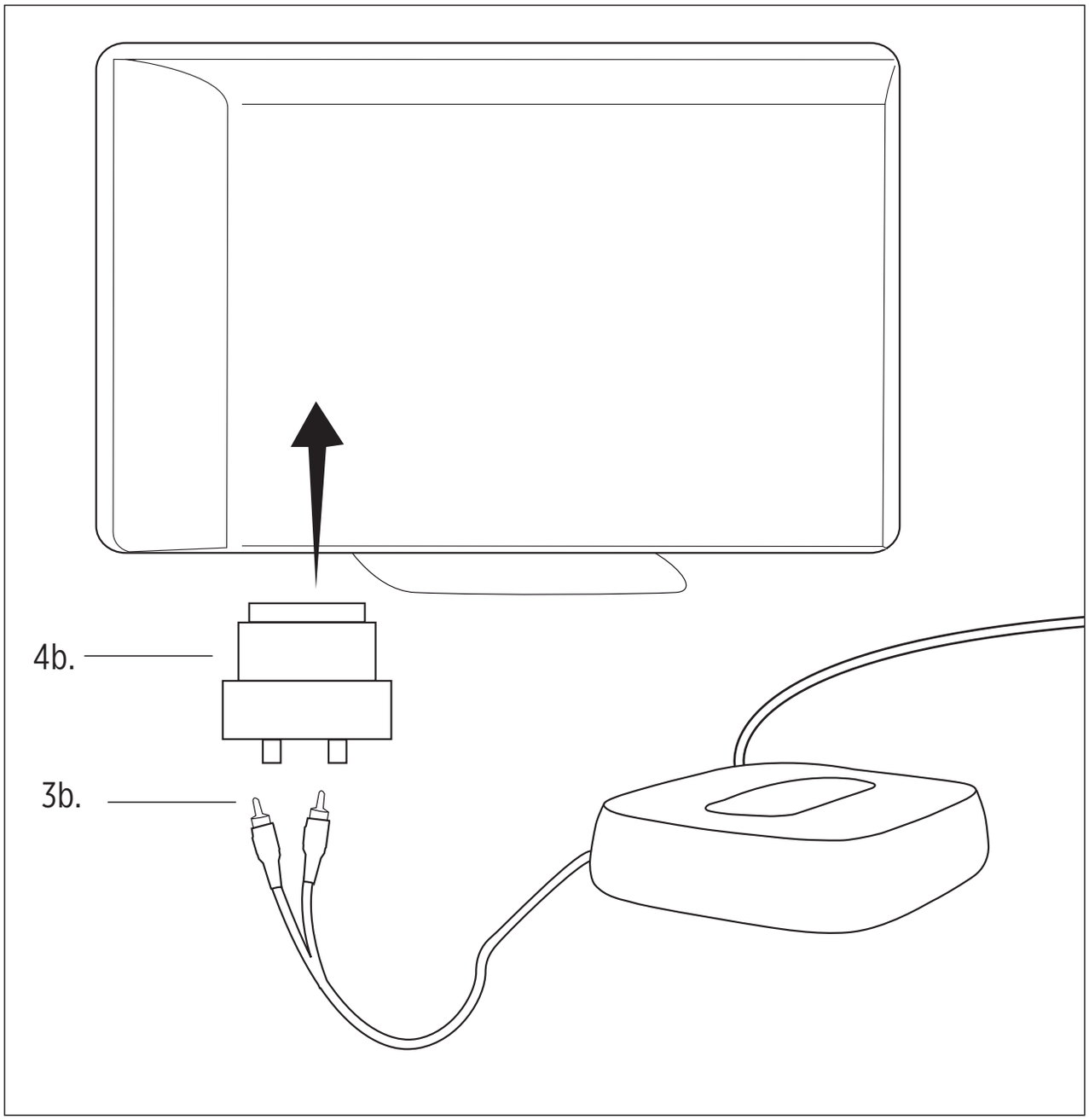
4a. Plug the two phono connectors at the other end of the cable into AUDIO OUT on the TV. Please refer to the user guide for your TV for further details.



For European markets only: If the TV has no AUDIO OUT, a SCART adaptor should be used:

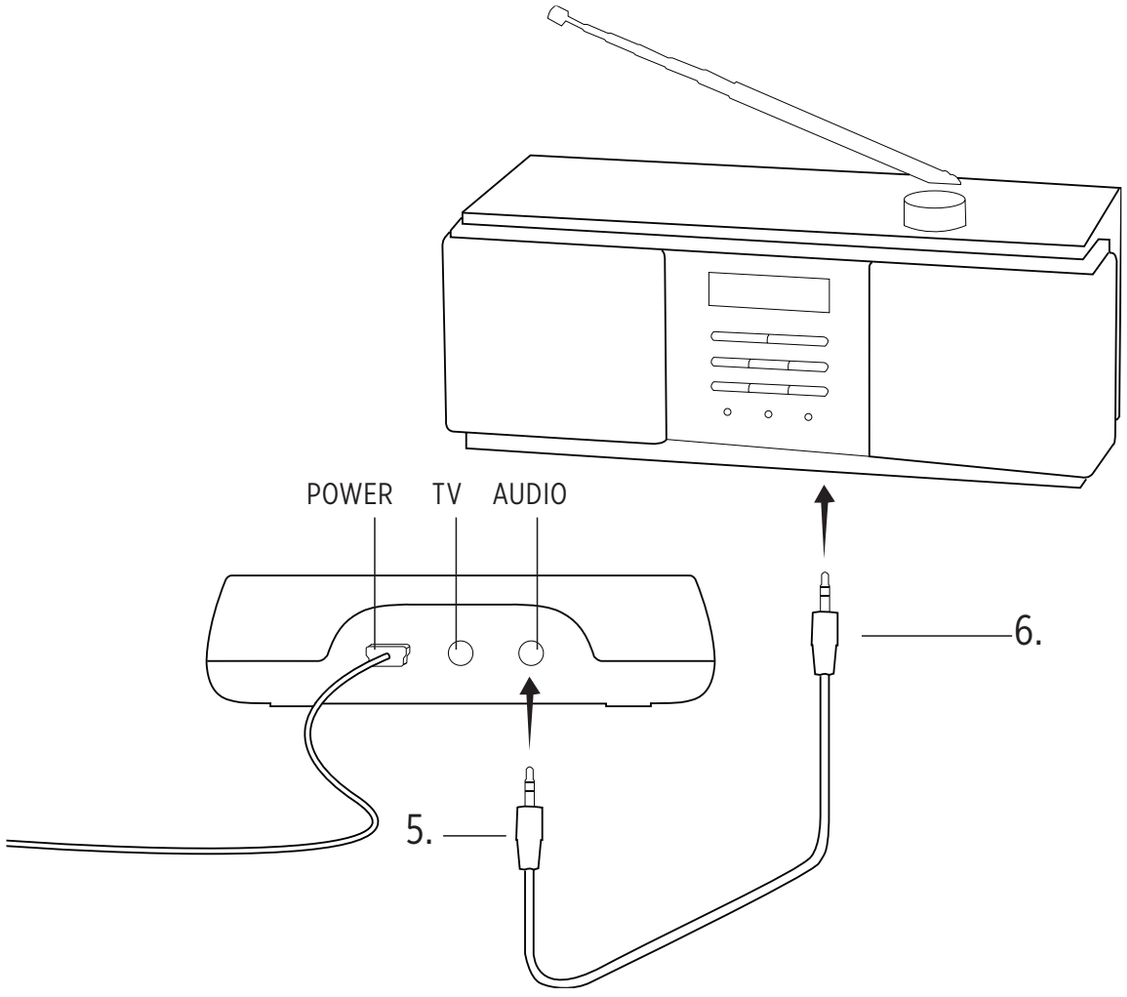
3b. Connect the phono connectors to the two terminals on the included SCART adaptor (red to red and white to white).

4b. Plug the SCART adaptor into the TV´s SCART socket.

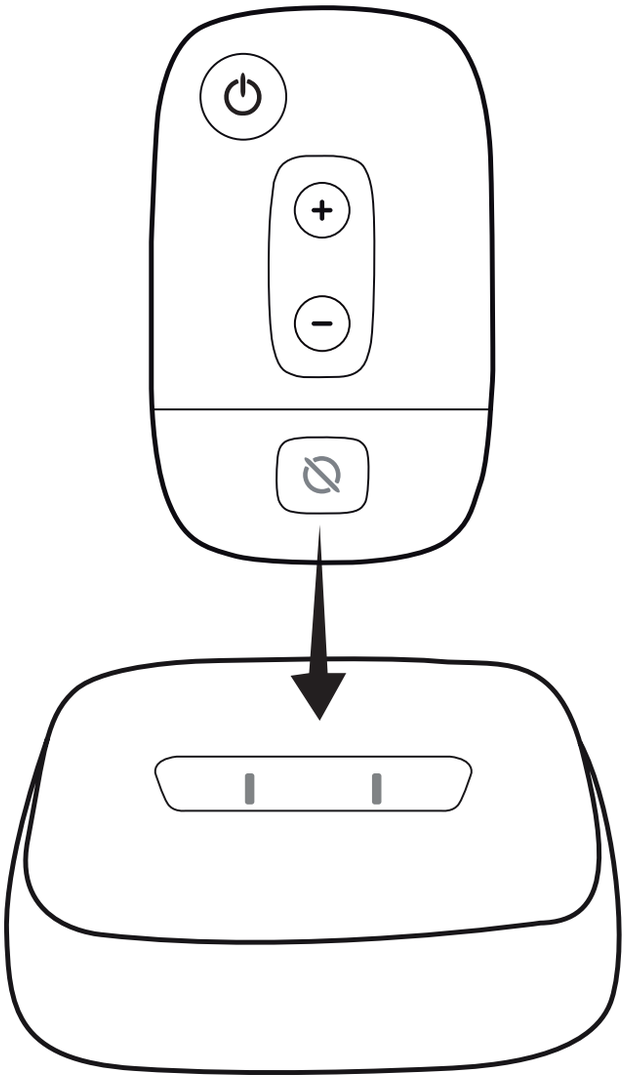


Audio:

5. Plug the jack to jack cable into the audio input on the base.
6. Connect the other end to the audio source (e.g. a stereo system).



7. Place the controller in the base and allow it to charge for eight hours (the first time).

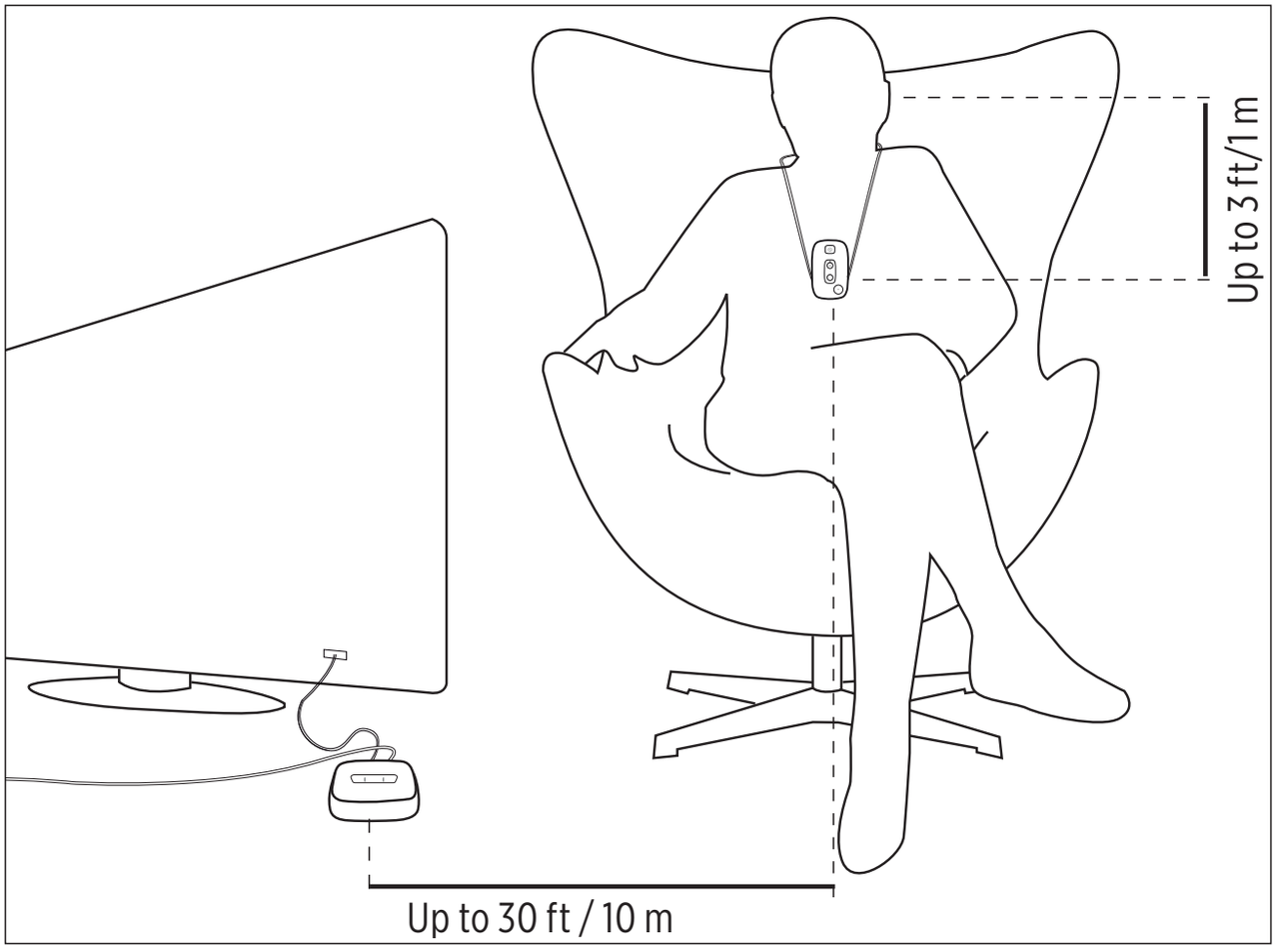


When using more than one tv-base

If you only have one base, this base is automatically selected the first time you charge the controller in the base. If you have more than one base, you can change between these by placing the controller in the base you wish to use for approx. 5 seconds.

USAGE

When appropriate, the TV controller may be attached to the lanyard in your package contents to wear around the neck as a convenience.



WARNING

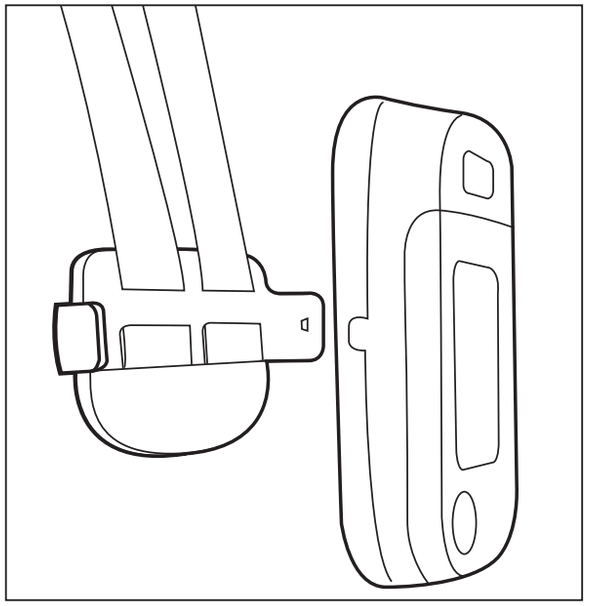
Interference with active Implants

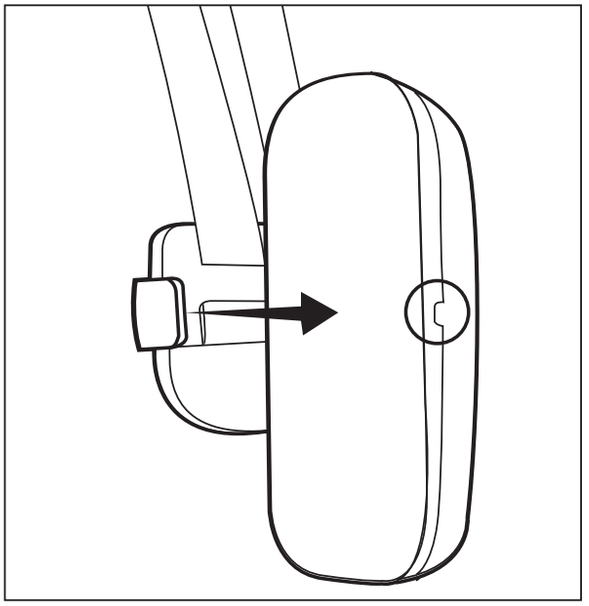
- In order to show caution, we advise to follow the guidelines recommended by manufacturers of defibrillators and pacemakers regarding use of cell phones:
- If you wear an active implantable device keep the Wireless Hearing Aids and Hearing Aid Accessories such as wireless devices or communicators at least 15 cm/6 inches away from the implant.
- If you experience any interference, do not use the hearing aids and/or hearing aid accessories and contact the manufacturer of the implant. Please note that interference can also be caused by power lines, electrostatic discharge, airport metal detectors etc.
- If you have an active brain implant, please contact the manufacturer of the implant for risk evaluation.

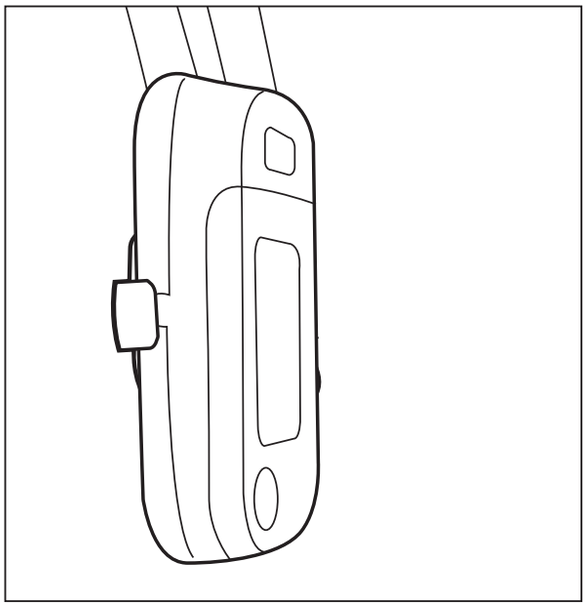
If you have an implantable device, we advise to keep magnets* at least 15 cm/6 inches away from the implant. (*= can be specified as Autophone magnet, hearing instrument case, magnet in a tool, etc.)

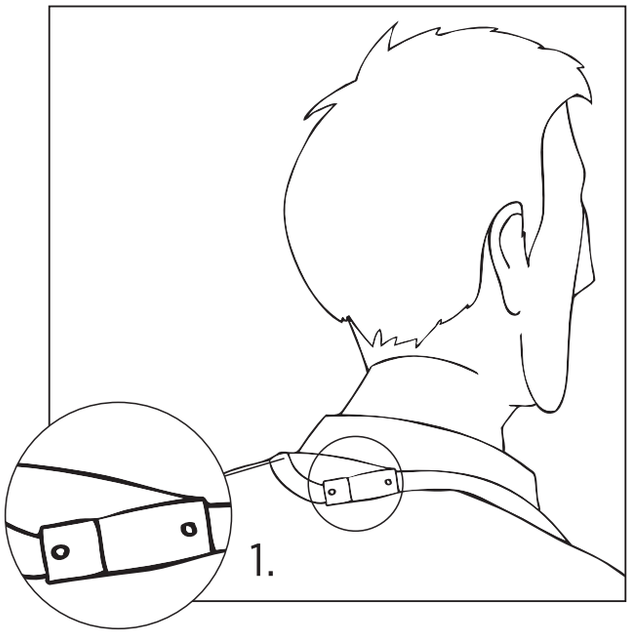
INSTRUCTIONS FOR LANYARD USAGE

Place the controller in the plastic holder at the end of the lanyard as illustrated.









WARNING

The breakaway buckle of the lanyard must be positioned at the back of your neck (1).

TRANSMISSION

With either TV or audio connected

- Press the transmission on/off key on the controller once to start transmitting from the connected source. An acoustic signal will sound in your hearing aids, and the transmission LED will turn green.
- Press the key again once to stop transmission. The hearing aids will enter the Master program as indicated by a voice message or beep tones. The green LED will change briefly to red and then off.

With both TV and audio connected:

- Press the transmission on/off key on the controller once to start transmission from the TV. An acoustic signal will sound in your hearing aids, and the transmission LED will turn green.
- Press the key a second time to transmit sound from the audio source instead. An acoustic signal will sound in your hearing aids.

- Press the key a third time to stop transmission. The hearing aids will enter the Master program, as indicated by a voice message or beep tones. The green LED will change briefly to red and then off.

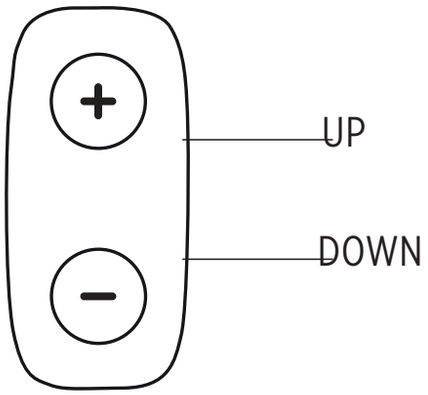
If you carry your controller around with you and move outside the operating range, transmission will be interrupted and your hearing aids will switch to the Master program. The LED will flash at slow intervals to indicate that transmission has been interrupted. The change will be indicated by a voice message. If your hearing aids are set up with beep-tone indication instead, no acoustic indication will sound.

If you come in range again, the controller will detect the signal from the TV/Audio and restart transmission. A sound will be heard in the hearing aids. The LED will light constantly rather than flash.

Note that the LED may continue to be red if you chose to turn off the hearing aid microphones during transmission.

Adjusting the volume

Press the volume up key to raise the volume of the transmitted TV or audio sound. Press the volume down key to lower the volume.



Mute

You can mute the transmitted TV or audio sound on the TV or audio source.

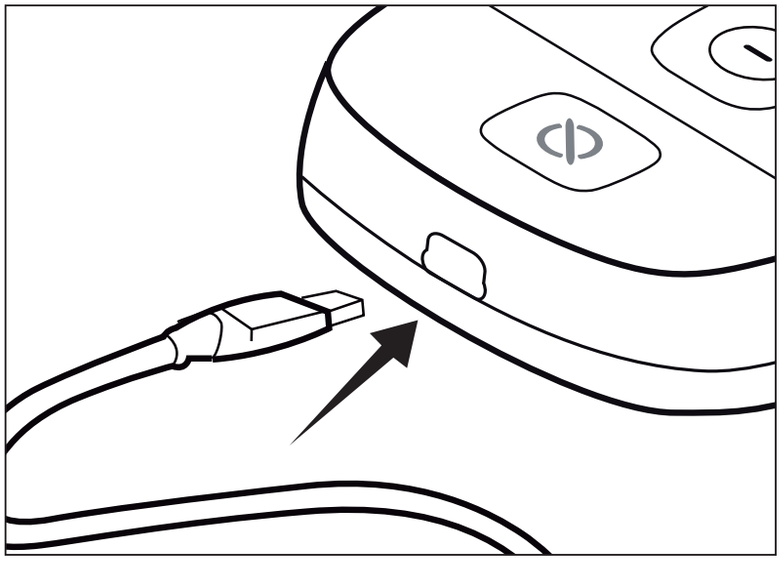
Room off

If you wish to turn the hearing aid microphones off during transmission, so that you only hear the transmitted sound, press the room on/off key once. To turn the microphones back on, press again. An acoustic indicator will sound in your hearing aids, and the red LED will turn off.

Recharging the battery

The controller uses a rechargeable battery. When fully charged, the battery has a capacity of approx. 10 hours of transmission, decreasing over time. When the battery runs low, transmission is interrupted. To recharge the battery, place the controller in the base for approximately 4 hours.

You can also recharge the battery using an appropriate USB power supply supplied by Widex.



WARNING

Do not attempt to change the battery. Contact your hearing care professional.

CARING FOR YOUR TV-DEX

The device is a valuable object and should be treated with care. Here are some things you can do to prolong the life of your device:

WARNING

- Do not expose the device to extreme temperatures or high humidity.
- Do not immerse it in water or other liquids.

CAUTION

- Clean the device with a soft cloth. Never clean it with acids, alcohol, strong detergents or other liquids.
- Avoid dropping the device.
- It is not recommended to keep your cell phone/PDA within close proximity of the device e.g. same pocket.
- Never try to open or repair the device yourself.
  (To be performed by authorized personnel only).

WARNING

- **Do not carry your device with you during X-rays, MRIs and other scans or radiation treatments** and never place your device in a microwave oven. These are some of the types of radiation that can damage your device.
- Radiation from room surveillance equipment, burglar alarms, cell phones and similar sources is weaker and will not damage your device. However, on occasion radiation from devices such as certain burglar alarms, automatic motion detectors and other electronics may cause noticeable audible interference during device and hearing aid use.

WARNINGS

WARNING

- Keep the TV-DEX and its parts and accessories out of reach of children and anyone else who might swallow parts of the device, or otherwise cause injury to themselves with these items. In case of ingestion, contact a physician immediately.
- Do not use the device on aircraft or in hospitals without permission.
- Do not use the device in mines or other areas with explosive gases.

CAUTION

- Although your device has been designed to comply with the most stringent international electromagnetic compatibility standards, the possibility cannot be excluded that it may cause interference with other equipment, such as medical devices.

WARNING

Interference with active Implants

- In order to show caution, we advise to follow the guidelines recommended by manufacturers of defibrillators and pacemakers regarding use of cell phones:
- If you wear an active implantable device keep the Wireless Hearing Aids and Hearing Aid Accessories such as wireless devices or communicators at least 15 cm/6 inches away from the implant.
- If you experience any interference, do not use the hearing aids and/or hearing aid accessories and contact the manufacturer of the implant. Please note that interference can also be caused by power lines, electrostatic discharge, airport metal detectors etc.
- If you have an active brain implant, please contact the manufacturer of the implant for risk evaluation.

If you have an implantable device, we advise to keep magnets* at least 15 cm/6 inches away from the implant. (*= can be specified as Autophone magnet, hearing instrument case, magnet in a tool, etc.)

SAFETY WARNING

This device is powered by an external power supply.

- Only connect a power supply that is compatible with the TV-DEX.
- The power supply must have an output rating of 5VDC, 500mA, and a mini USB connector.
- The power supply input rating voltage and wall plug must be compatible with the AC wall outlet in your region.
- The power supply must have the certification marks showing certification by a safety agency acceptable in your region.

Widex strongly recommends that you always use a power supply unit that is supplied by your Widex Distributor to ensure safe and efficient use of your TV-DEX.

TROUBLESHOOTING

Problem	Potential cause	Solution
Your TV-Controller does not work	The battery is exhausted	Charge the battery
	Base has not been selected	Place the TV-Controller in the TV-Base for at least 5 seconds
	The battery needs replacement	Contact your hearing care professional
The green diode on the TV-Controller turns on for a brief period of time and then turns off	The jack plug for tv or audio connection is not connected to the TV-Base	Connect the jack plug as shown on pages 14-16
	The TV-Base is not connected to the electrical power source	Connect the TV-Base as described on page 13

Problem	Potential cause	Solution
No transmitted sound even if the green diode is turned on	TV/audio source is not switched on	Switch TV/audio source on
	Sound source and TV-Base are not properly connected	Connect the sound source and TV-Base as shown on pages 14, 16, 16
Transmission interrupted	TV-Controller battery is exhausted	Charge the V-Controller
	TV-Controller is out of operating range	Move within operating range
When trans-mitting, parts of the sound image from the TV/audio source are missing	Monaural/binaural switch on the underside of the TV-Base is not set correctly	Check that the switch is in the correct position. See page 9.

Problem	Potential cause	Solution
Volume of transmitted sound changes when you adjust the volume of the sound source	TV-Base is not connected to the correct output	Connect the TV-Base to the correct TV/audio output. Please refer to the user instructions for the TV/audio source.

REGULATORY INFORMATION

The following Table summarizes the technical details of the WidexLink technology as it is implemented in the TV-DEX.

Unit	**TV-Controller**		**TV-Base**	**Hearing aids**
Type	Radio 2	Radio 1	Radio 1	Radio 2
Antenna type	Inductive antenna	Planar Inverted F antenna	PCB F antenna	Inductive antenna
Antenna dimensions	Ø6 mm L – 40mm	NA	NA	Ø1.8 mm L – 4.85mm
Modulation	FSK	GFSK	GFSK	FSK
Magnetic Field Strength	-9dBµA/m at 10m distance	NA	NA	-54dBµA/m at 10m distance
Output power	11nW EIRP*	+4 dBm EIRP*	+4 dBm EIRP*	29pW EIRP*
Range	<1m remote unit to hearing aid.	<10m between tv and TV-DEX.	<10m between tv and TV-DEX.	<1m remote unit to hearing aid. <30cm between hearing aids
Center frequency	10.6MHz	2.45GHz ISM	2.45GHz ISM	10.6MHz

Channels	Single channel radio	17 logical channels	17 logical channels	Single channel radio
Bandwidth	660kHz (-15dB)	2 MHz	2 MHz	660kHz (-15dB)
Data rate	212kbit/s raw channel capacity	2 Mbit/s	2 Mbit/s	212kbit/s raw channel capacity
Data flow	Simplex	Time division duplex (TDD)	Time division duplex (TDD)	Simplex or semiduplex
Protocol	Random access – no collision avoidance.	Packet based protocol, time divided.	Packet based protocol, time divided.	Random access – no collision avoidance.

* EIRP = Equivalent isotropically radiated power.

(Benefits) The use of wireless transmission allows convenient and synchronized control of hearing aid functions. The wireless hearing aids share input information between the two partner hearing aids. In so doing, the wearers would experience the following additional user benefits (only when wearing binaural hearing aids).

Synchronization of volume control setting between hearing aids – The volume in both hearing aids will change when the VC is adjusted on one ear.

Synchronization of listening programs between hearing aids – The same listening program is used in both hearing aids when one is changed by the user.

Surveillance of partner hearing aid – The hearing aid(s) will signal an alert ("partner check") when a hearing aid battery has expired, or that one of the hearing aids has fallen off. In rare instances, a much stronger wireless source nearby may activate this alert. This serves as an early warning to the wearer of such service interruption.

Coordination of compression – The hearing aids maintain the intensity level difference between ears (inter-aural level difference, ILD). In some situations where speech is presented to one side and noise the other side, this coordinated action could enhance the relative loudness of the speech sounds to the noise background and improve speech understanding for some wearers.

More accurate identification of feedback – The hearing aids distinguish between "true" hearing aid whistling (or feedback) and music sounds to prevent unnecessary feedback cancellation and preserve natural sound quality.

(Contraindications):

- Congenital or traumatic deformity of the ear
- Active drainage from the ear within 90 days
- History of rapid progressive hearing loss within previous 90 days
- Acute or chronic dizziness
- Sudden unilateral hearing loss in previous 90 days

The TV-DEX contains radio transmitters / receivers with the following

TV-BASE radio transmitter parameters:

- Frequency (range): 2.45 GHz (2.4 – 2.5 GHz)
- Bandwidth: 2 MHz
- Channel: 17 logical channels
- Modulation: GFSK
- Radiated output power: 2.5 mW / +4 dBm
- Magnetic field strength: N/A
- Duty Cycle: 100 % (averaged over 1 hour of operation)
- Time division duplex (TDD)

TV-CONTROLLER radio 1 transmitter parameters:

- Frequency (range): 2.45 GHz (2.4 – 2.5 GHz)
- Bandwidth: 2 MHz
- Channel: 17 logical channels
- Modulation: GFSK
- Radiated output power: 2.5 mW / +4 dBm
- Magnetic field strength: N/A
- Duty Cycle: 100 % (averaged over 1 hour of operation)
- Time division duplex (TDD)

TV-CONTROLLER radio 2 transmitter parameters:

- Frequency (range): 10.6 MHz (10.2 – 11.0 MHz)
- Bandwidth (-15dB): 660 kHz
- Channel: Single channel radio
- Modulation: FSK
- Radiated output power: 11 nW / -49 dBm
- Magnetic field strength: -9 dBμA/m @ 10 m
- Duty Cycle: 100 % (averaged over 1 hour of operation)
- Simplex

The radio receivers in the TV-BASE and TV-CONTROLLER are using the same frequency and bandwidth as the corresponding transmitter.

Cables and transducers:
The TV-BASE is using a standard 3.5 mm jack to 3.5 mm jack or phono to 3.5 mm jack cable for audio input signal.

Quality of Service for Wireless Technology in the WidexLink System

WidexLink wireless technology enables communication between two partners of a binaural pair of Widex wireless hearing aids and with their matched external devices. The requirements for the quality of service (QoS) vary among the various components and their intended user scenarios.

During daily use, the requirements on audio streaming from TV-Controller to hearing aids include a BER better than 10^{-3}. The communication is simplex with a bitrate of 212 kbits/s. For remote control commands the QoS requirements include a BER better than 10^{-2}. The lower BER requirement results from redundant transmissions. Each key press results in transmissions of 7 data packages of which only one is needed for a successful communication.

The requirements from TV-Base to TV-Controller include a BER better than 10^{-3}. The communication is semi duplex with a bit rate of 2Mbits/s and a total latency <10ms (including the link from the TV-Controller to the hearing aids) to insure high quality audio transmission.

Wireless Security Measures

Security of the wireless signals is assured through device system design that includes:

- Individual MAC address for each unit which is checked during each transmission.
- A built-in pairing table which specifies valid and legitimate pairing among units
- A proprietary Widex communication protocol which checks the package numbers during each transmission.
- A Cyclic Redundancy Check (CRC) to check data validity and correct errors.

Guidance and manufacturer's declaration

Electromagnetic emissions

The TV-DEX is intended for use in the electromagnetic environment specified below. The customer or the user of a TV-DEX should assure that it is used in such an environment.

Emissions test	Compliance	Electromagnetic environment - guidance
RF emissions CISPR 11	Group 1	The TV-DEX uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF emissions CISPR 11	Class B	The TV-DEX is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
Harmonic emissions IEC 61000-3-2	TV-BASE: Class A TV-CONTROLLER: Not applicable *)	
Voltage fluctuations/ flicker emissions IEC 61000-3-3	TV-BASE: Complies TV-CONTROLLER: Not applicable *)	

**) Battery powered equipment*

Electromagnetic immunity

The TV-DEX is intended for use in the electromagnetic environment specified below. The customer or the user of a TV-DEX should assure that it is used in such an environment.

Immunity Test	**IEC 60601 Test level**	**Compliance level**	**Electromagnetic environment – guidance**
Electrostatic discharge (ESD) IEC 61000-4-2	± 6 kV contact ± 8 kV air	± 6 kV contact ± 8 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30 %.
Electrical fast transients/burst IEC 61000-4-4	± 2 kV for power line supplies ± 1 kV for input/ output lines	TV-BASE: ± 2 kV for power line supplies ± 1 kV for input/ output lines TV-CONTROLLER: Not applicable *)	Mains power quality should be that of a typical commercial or hospital environment.

Surge IEC 61000-4-5	± 1 kV line(s) to line(s) ± 2 kV line(s) to earth	TV-BASE: ± 1 kV line(s) to line(s) ±2kV (live to earth & neutral to earth) Combination wave TV-CONTROLLER: Not applicable *)	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	<5 % U_T (>95 % dip in U_T) for 0.5 cycle 40 % U_T (60 % dip in U_T) for 5 cycles 70 % U_T (30 % dip in U_T) for 25 cycles <5 % U_T (>95 % dip in U_T) for 5 s	TV-BASE: Dips of: 100% (duration 10ms and 20ms) 30% (duration 0.5s) and 10% (duration 5s) reductions TV-CONTROLLER: Not applicable *)	Mains power quality should be that of a typical commercial or hospital environment. If the user of the TV-DEX requires continued operation during power mains interruptions, it is recommended that the TV-DEX be powered from an uninterruptable power supply.

Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment
NOTE U_T is the a.c. mains voltage prior to the application of the test level.			

**) Battery powered equipment*

Electromagnetic immunity – cont.

The TV-DEX is intended for use in the electromagnetic environment specified below. The customer or the user of a TV-DEX should assure that it is used in such an environment.

Immunity Test	IEC 60601 Test level	Compli-ance level	Electromagnetic environment – guidance
			Portable and mobile RF communications equipment should be used no closer to any part of the TV-DEX, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.
Conducted RF IEC 61000-4-6	3 Vrms 150 kHz to 80 MHz	3 Vrms	**Recommended separation distance** $d = 1.2\sqrt{P}$

Radiated RF IEC 61000-4-3	3 V/m 80 MHz to 2.5 GHz	3 V/m	d = 1.2 $\sqrt{P}$ 80 MHz to 800 MHz d = 2.3 $\sqrt{P}$ 800 MHz to 2.5 GHz where *P* is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in metres (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey [a], should be less than the compliance level in each frequency range [b]. Interference may occur in the vicinity of equipment marked with the follow-ing symbol: 

NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies. NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.
a. Field strengths from fixed transmitters, such as base stations for radio (cellular/ cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the TV-DEX is used exceeds the applicable RF compliance level above, the TV-DEX should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or re-locating the TV-DEX. b. Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

Recommended separation distances

Recommended separation distances between portable and mobile RF communication equipment and the TV-DEX.

The TV-DEX is intended for use in the electromagnetic environment in which RF disturbances are controlled. The customer or the user of the TV-DEX can help prevent electromagnetic interference by maintaining a minimum dis-

tance between portable and mobile RF communications equipment (transmitters) and the TV-DEX as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of transmitter W	**Separation distance according to frequency of transmitter m**		
	150 kHz to 80 MHz $d = 1.2 \sqrt{P}$	**80 MHz to 800 MHz** $d = 1.2 \sqrt{P}$	**800 MHz to 2,5 GHz** $d = 2.3 \sqrt{P}$
0.01	0.12	0.12	0.23
0,1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23

For transmitters rated at a maximum output power not listed above, the recommended separation distance *d* in metres (m) can be estimated using the equation applicable to the frequency of the transmitter, where *P* is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

This TV-DEX may be interfered with by other equipment even if that other equipment complies with CISPR emission requirements.

(EMI/EMC Compliance).

The TV-DEX complies with the following EMC/EMI standards:

Standard	Test type	Note
47 CFR Part 15, subpart C	RF emissions	USA Federal Communications Commission (FCC) requirements for intentional radiators.

EN 300 330-2 V1.5.1	RF emissions incl. Spurious emission	EMC and radio spectrum matters for Short Range Devices in the frequency range 9 kHz – 25 MHz
EN 303 440-2 V1.4.1	RF emissions incl. Spurious emission	EMC and radio spectrum matters for Short Range Devices in the frequency range 1 GHz – 40 GHz
IEC 60601-1-2:2007	EMC emission Immunity, RF and ESD	Medical electrical equipment. General requirements for basic safety and essential performance. Electromagnetic compatibility.
EN 301 489-3 V1.6.1	Immunity, RF and ESD	Standard for Low Power Transmitters in the frequency range 9 kHz – 40 GHz
EN 301 489-17 V2.2.1	Immunity, RF and ESD	Standard for 2.4 GHz Wideband Transmitters

Important notice for prospective hearing aid users

Good health practice requires that a person with a hearing loss have a medical evaluation by a licensed physician (preferably a physician who specializes in diseases of the ear) before purchasing a hearing aid. Licensed physicians who specialize in diseases of the ear are often referred to as otolaryngologists, otologists, or otorhinolaryngologists. The purpose of medical eval-

uation is to assure that all medically treatable conditions that may affect hearing are identified and treated before the hearing aid is purchased.

Following the medical evaluation, the physician will give you a written statement that states that your hearing loss has been medically evaluated and that you may be considered a candidate for a hearing aid. The physician will refer you to an audiologist or a hearing aid dispenser, as appropriate, for a hearing aid evaluation.

The audiologist or hearing aid dispenser will conduct a hearing aid evaluation to assess your ability to hear with and without a hearing aid. The hearing aid evaluation will enable the audiologist or dispenser to select and fit a hearing aid to your individual needs.

If you have reservations about your ability to adapt to amplification, you should inquire about the availability of a trial-rental or purchase-option program. Many hearing aid dispensers now offer programs that permit you to wear a hearing aid for a period of time for a nominal fee after which you may decide if you want to purchase the hearing aid.

Federal law restricts the sale of hearing aids to those individuals who have obtained a medical evaluation from a licensed physician. Federal law permits

a fully informed adult to sign a waiver statement declining the medical evaluation for religious or personal beliefs that preclude consultation with a physician. The exercise of such a waiver is not in your best health interest and its use is strongly discouraged.

Children with hearing loss

In addition to seeing a physician for a medical evaluation, a child with a hearing loss should be directed to an audiologist for evaluation and rehabilitation since hearing loss may cause problems in language development and the educational and social growth of a child. An audiologist is qualified by training and experience to assist in the evaluation and rehabilitation of a child with a hearing loss.

FCC ID: TTY-TVB

FCC ID: TTY-TVC2

IC: 5676B-TVB

IC: 5676B-TVC2

Federal Communications Commission Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged

to try to correct the interference by one or more of the following measures:

— Reorient or relocate the receiving antenna.
— Increase the separation between the equipment and receiver.
— Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
— Consult the dealer or an experienced radio/TV technician for help.

NOTE:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
Changes or modifications to the equipment not expressly approved by WSAUD A/S could void the user's authority to operate the equipment.

Industry Canada Statement / Déclaration d'industrie Canada

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada.
To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) this device may not cause interference, and

(2) this device must accept any interference, including interference that may cause undesired operation of the device.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada.

Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

(1) l'appareil ne doit pas produire de brouillage, et

(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Directive 1999/5/EC

Hereby, WSAUD A/S declares that the TV-Controller and TV-Base are in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

A copy of the Declaration of Conformity according to 1999/5/EC can be found at:

http://www.widex.com/doc

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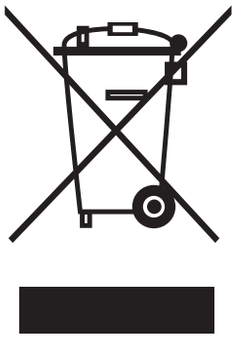


Electrical and electronic equipment (EEE) contains materials, components and substances that can be hazardous and present a risk to human health and the environment when waste electrical and electronic equipment (WEEE) is not handled correctly.

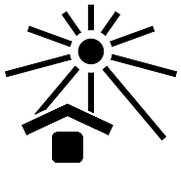
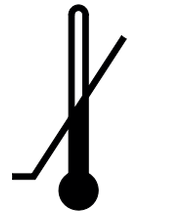
Do not dispose of hearing aids, hearing aid accessories and batteries with ordinary household waste.

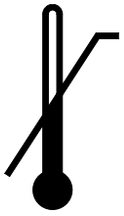
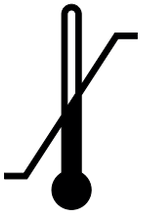
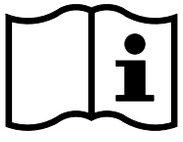
Hearing aids, batteries and hearing aid accessories should be disposed of at sites intended for waste electrical and electronic equipment, or given to your hearing care professional for safe disposal. Proper disposal helps to protect human health and the environment.

SYMBOLS

Symbols commonly used by WSAUD A/S in medical device labeling (labels/IFU/etc.)

Symbol	Title/Description
	**Manufacturer** The product is produced by the manufacturer whose name and address are stated next to the symbol. If appropriate, the date of manufacture may also be stated.
	**Date of manufacture** The date when the product was manufactured.
	**Use-by date** The date after which the product is not to be used.
	**Batch code** The product's batch code (lot or batch identification).

Symbol	Title/Description
	**Catalog number** The product's catalog (item) number.
	**Serial number** The product's serial number.*
	**Keep away from sunlight** This product must be protected from light source and must be kept away from heat.
	**Keep dry** The product must be protected from moisture and/or The product must be kept away from rain.
	**Lower limit of temperature** The lowest temperature to which the product can be safely exposed.

Symbol	Title/Description
	**Upper limit of temperature** The highest temperature to which the product can be safely exposed.
	**Temperature limits** The highest and lowest temperatures to which the product can be safely exposed.
	**Consult instructions for use** The user instructions contain important cautionary information (warnings/precautions) and must be read before using the product.
	**Caution/Warning** Text marked with a caution/warning symbol must be read before using the product.

Symbol	Title/Description
	**WEEE mark** **“Not for general waste”** When the product is to be discarded, it must be sent to a designated collection point for recycling and recovery.
	**CE mark** The product is in conformity with the requirements set out in European CE marking directives.
	**Alert** The product is identified by R&TTE Directive 1999/5/EC as an equipment Class 2 product with some restrictions on use in some CE member states.
	**RCM mark** The product complies with EMC and radio spectrum regulatory requirements for products supplied to the Australian or New Zealand market.

Symbol	Title/Description
	**Interference** Electromagnetic interference may occur in the vicinity of the product.

*The six-or seven-digit number on the product is the serial number. Serial numbers may not always be preceded by **SN**

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Manual no.:
9 514 0130 041 #09
Issue:
2020-11
CIB201/1214

514013 004104