



Live communication for
tour guiding, interpreter
services, Hearing
assistance and more

Radio transmission systems



AUDIOropa



»xepton-NX« (UHF)

The system.....	5
The components at a glance.....	7

Transmitters

Pocket transmitter TX.....	9
Stationary transmitters TR.....	11

Receivers

Pocket receivers RX for unidirectional and bidirectional applications	13
Stethoset receivers RX-U for unidirectional and bidirectional applications.....	13

Transceiver

Transceiver TRX.....	15
----------------------	----

Accessories: »xepton-NX«

Charging systems / charging and transport cases / accessories	17
---------------------------------------------------------------------	----

Contact

AUDIOropa Sales Office	18
------------------------------	----

Content



Mouse click on the symbol
(following pages top right)
leads to the table of contents





xep^{ton}^{NX}

The »xep^{ton}-NX« programme, presented and described on the following pages, forms the basis for a wide range of applications. From unidirectional tour guide systems and interpreter applications to professional dialogue and intercom configurations, the system proves to be a convenient solution - both for portable use and when using stationary components.

The large audio frequency range that »xep^{ton}-NX« opens up is a feature of quality. Voice reproduction becomes more transparent and recorded media sound has a more authentic effect on the listeners.

The system consists of a pocket transmitter, two receiver types – pocket receiver and stethoset receiver – and a transceiver for mobile dialogue applications. A stationary transmitter is also available.

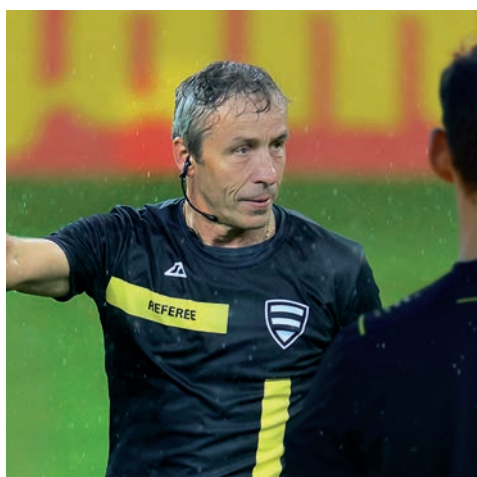
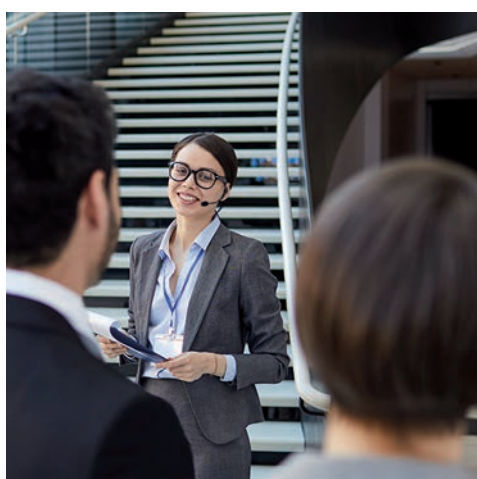
Light in weight and compact in design, the transmitters and receivers, including a stethoset receiver, are comfortable to wear.

The menu of the components, which can be accessed via the display, is navigated via three keys and is so conveniently structured that literally anyone can operate it.

Both types of application – unidirectional and bidirectional – allow parallel communication in several groups, for example simultaneous moderation in different languages or simultaneous tours of several groups in close proximity.

Encryption for more security in communication

For use in security-sensitive and/or confidential environments, AUDIOropa offers individually encrypted configurations of »xep^{ton}-NX« for the respective tasks on request.



The system

»xep^{ton}-NX« – moderation and communication system for clear, lively voice transmission

- Clear speech intelligibility
- Discreet moderation in places that do not permit noisy guided tours
- One-way or two-way operation offers flexibility in a variety of applications
- Two different receiver types, pocket receivers and stethoset receivers
- Stable audio connection
- Up to 80 m range indoors or outdoors
- Easy to use
- Status indicators via LCD display
- Up to 12 hours transmission time and 15 hours reception time per battery charge
- Connection possibility for different hearing components such as headset, headphones, earphones or neckloops for inductive audio transmission to corresponding hearing components





»xepton-NX« – audio transmission technology for mobile and stationary applications

Basic components of the wireless moderation and communication system »xepton-NX« are pocket transmitter and pocket receiver, a transceiver for dialogue applications as well as a stationary transmitter for moderation, interpreter services or other applications in auditoriums.

Part of the scope of delivery of the mobile components (fig. left) is – with the exception of the stethoset receiver – also a belt clip for attachment to clothing.

Corresponding connection sockets on the TX and TRX mobile voice transmitters allow connection to standard headsets or microphones and headphones. The RX receiver has standard connection sockets for hearing components such as headphones or earphones.

Inclusion of hearing-aid and CI users

Connecting a neckloop to the RX receiver opens the system for the option of »inductive listening«. The neckloop generates inductive audio signals and transmits them wirelessly to personal audiological hearing systems such as conventional hearing aids or cochlear implant systems (CI) with integrated T-coil. This way, wearers of CIs or people with hearing aids can also be included into hearing the presentations.

The stethoset receiver

An exception in the receiver design is the RX-U stethoset receiver. This has been designed as a closed compact receiver with integrated loudspeaker earbuds and is not encryptable.

»xepton-NX«

Portable communication system, configurable for individual tasks

- Large transmission range
- Highly differentiated, sonorous and »lively« speech transmission
- Easy to use
- Belt clip for pocket transmitter and receiver for attachment to clothing



Fig.: stationary transmitter »xepton-NX« TR





The powerful TX pocket transmitter is designed for classic unidirectional applications such as tour guidance or interpreting services.

The device has two jack sockets (3.5 mm), of which one is for microphone input – for example for connecting standard headsets or clip-on microphones with cable.

The second socket serves as an input for audio line signals, for example from an MP3 player.

When the unit is switched on, it is immediately ready for operation and a LCD display shows the current status. The menu-based handling is carried out using only three keys. The transmission time per battery charge is about 12 hours.

Specifications: »xepton-NX« TX, pocket transmitter

Item no.: A-5110-0

Dimensions (W x H x D)	50 x 88 x 17 mm
Weight	66 g
Transmission frequency	863-865 MHz
Transmission power	10 mW
Transmission range	50 Hz to 14 kHz (-10 dB)
Latency	< 17 ms
Number of channel groups	8
Power supply	LI-ION 3.7 V / 1100 mAh
Transmission time per charge	On average 12 hours
Transmission range	up to 80 m
Standard scope of delivery	Pocket transmitter xepton-NX TX, ear-worn microphone EM-01, beltclip BC-1, USB charger, USB charger cable, lanyard strap, user manual, warranty card

Subject to change

Pocket transmitter

»xepton-NX« TX

- Designed for classic moderation applications (tour guiding, interpreter services, lectures etc.)
- Small, powerful transmitter with simple 3-button operation
- Menu navigation via LCD display
- Operation with any number of receivers
- Range: up to 80 m
- Optionally also available with encrypted transmission





The stationary transmitter »xepton-NX« TR for unidirectional applications is specially designed for installation in 19" racks. The electronics are mechanically protected by a robust metal housing.

The menu, visualized via an LC display on the front, is uncomplicated and easy to use for every user.

The mounting brackets required for rack mounting are included in the delivery.

Specifications: »xepton-NX« TR, Stationary transmitter, unidirectional		Item no.: A-5130-0
Dimensions	45 x 220 x 220 mm (H x B x T)	
Weight	1.360 g	
Transmission frequency	863-865 MHz	
Transmission power	10 mW	
Number of channel groups	8	
Transmission range	50 Hz to 14 kHz (-10 dB)	
Latency	< 17 ms	
Power supply	USB power supply, 5 V	
Antenna	External antenna	
Transmission range	up to 80 m	
Standard scope of delivery	xepton-N TR, brackets for rack installation, USB powersupply and cable	

Subject to change

Optional accessories: Passive transmitting antenna / UHF omnidirectional antenna for »xepton-NX TR«

Technical data: »OAP-NX« passive UHF omnidirectional antenna		Item no.: A-5297-0
Frequency range:	500 - 950 MHz	
Function:	passive transmit and receive antenna	
Impedance:	50 Ohm	
Connection:	BNC	
Tripod connection:	3/8" and 5/8"	
Dimensions:	approx. 275 x 130 x 20 mm	
Weight:	approx. 175 g	

Subject to change

Stationary transmitter

»xepton-NX« TR

- Designed for stationary use in conjunction with »xepton-NX« receivers
- LCD function display
- For installation in racks (19") or as a free-standing device
- Balanced input via 6.3mm jack socket
- Optionally also available with encrypted transmission



»OAP-NX«
passive UHF
omnidirectional
antenna





The pocket receiver, also equipped with an LCD display, has two outputs for connecting various hearing components, for example headphones or earphones.

It is also possible to connect neckloops. The latter transmit the sound via induction (wirelessly) to ac-

cordingly equipped hearing aids. This way, any hearing impaired person can receive the sound directly in their hearing aids and at their individual volume during guided tours, almost undisturbed by ambient noise.

Specifications: »xepton-NX« RX, pocket receiver, unidirectional		Item no.: A-5120-0
Dimensions (W x H x D)	50 x 88 x 17 mm	
Weight	66 g	
Transmission frequency	863-865 MHz	
Transmission range	50 Hz to 14 kHz (-10 dB)	
Latency	< 17 ms	
Power supply	LI-ION 3,7 V / 1100 mAh	
Receiving time	average of 15 hours	
Standard scope of delivery	xepton RX-1, in-ear-phones ER-01, beltclip BC-1, USB charger, USB charger cable	

Subject to change

Pocket receiver

»xepton-NX« RX

- lightweight compact pocket receiver
- LCD function display
- Simple 3-button operation
- Connections for listening components like earphones, headphones or inductive neckloops
- Optionally also available with encrypted transmission





For typical dialogue applications, such as team communication in sports or in a professional-industrial environment, the use of several TRX transceivers is recommended.

When set up as an intercom system, up to 100 assigned devices can be realised. Only three buttons are needed to control the device via an LCD displayed menu. A further button activates and deactivates the speech function when pressed.

Specifications: »xepton-NX« TRX, Transceiver		Item no.: A-5100-0
Dimensions (W x H x D)	50 x 88 x 17 mm	
Weight	88 g	
Transmission frequency	863-865 MHz	
Transmission power	10 mW	
Latency	< 50 ms	
Number of channel groups	3	
Audio transmission frequency range	100 Hz to 7 kHz	
Power supply	LI-ION 3,7 V / 1100 mAh	
Antenna	Internal spiral antenna	
Transmission time per charge	average of 10 hours.	
Transmission range	up to 80m	
Standard scope of delivery	Transceiver xepton-NX TRX, Headset HSB-02, USB charger and cable, neck strap, user manual, warranty card	

Subject to change

Transceiver

»xepton-NX« TRX

- Ideal for dialogue applications, such as in sports, education or conferences
- LCD function display
- Handy, light and easy to use
- Simultaneous transmission for up to 3 »xepton-NX« TRX per group
- Operation in up to 3 groups with up to 100 integrated devices each
- Optionally also available with encrypted transmission





Accessories for »xepton-NX«

❶ 20-bay charger CS-20, for portable transmitters and receivers	Item no.: A-5256-0
❷ 2-bay charger CS-2, for portable transmitters and receivers	Item no.: A-5257-0
❸ USB charger case for 20 pieces portable transmitters and receivers (not stethoset receivers)	Item no.: A-5251-0
❹ DC-20, 20-bay drop-in charging case	Item no.: A-5253-0
❺ Charger case DC-40, for portable transmitters and receivers	Item no.: A-5254-0

Without picture

Arm band holder AM-01	Item no.: A-5292-0
Microphone headset HSB-02	Item no.: A-5273-0
Plug-in microphone PM-01	Item no.: A-5263-0
One side ear hook EHE-01	Item no.: A-5281-0
RCB-20 20-bay charging bag	Item no.: A-5250-0
MCB-10 10-bay charging case	Item no.: A-5252-0
LI-ION for TX-1 und RX-1	Item no.: A-5260-0
USB cable UC-01	Item no.: A-5261-0
USB-power supply	Item no.: A-5262-0
Clip-on microphone CM-01	Item no.: A-5264-0
EM-01 ear microphone (included with TX-1)	Item no.: A-5265-0
HM-01 headband microphone	Item no.: A-5266-0
Microphone headset EBB-01	Item no.: A-5271-0
EHR-01 Microphone headset	Item no.: A-5272-0
ER-01 In-ear earphones	Item no.: A-5280-0
Comfortable headphones	Item no.: A-5282-0
Belt clip BC-01	Item no.: A-5291-0
OAP-NX, Passive TX/RX antenna for stationary transmitter, xepton-NX TR	Item no.: A-5297-0

Chargingbays / Accessories

»xepton-NX«

AUDIOropa

AUDIOropa is a brand of the Humantechnik Group

The AUDIOropa portfolio focuses on audio technology for professional use – stationary and mobile. The portfolio includes

- Inductive loop systems
- Radio transmission systems
- Infrared transmission systems
- Intercom systems
- Wi-Fi streaming system (Bettlear brand)
- Auracast™ streaming system (Bettlear brand)

The focal point of the application of these systems are solutions for acoustic accessibility within the scope of inclusion projects.

AUDIOropa systems prove their worth even under difficult acoustic conditions with an increase in audio quality and speech understanding for hearing impaired people, resulting from the integration of audiological technology.

Welcome to the dialog:

Headquarters

HUMANTECHNIK GmbH

Im Woerth 25
D-79576 Weil am Rhein (Germany)

Contact

HUMANTECHNIK GmbH
AUDIOropa Sales Office

Osterfeldstr. 16a
31515 Wunstorf (Germany)
Tel.: +49 (0) 50 31 / 6 97 07 36

info@audioropa.com
www.AUDIOropa.com