User Manual

Xepton NX-900 Stationary
User Manual

1. General information

1.1 Introduction

Thank you very much for purchasing Xepton NX-900 Stationary. You have chosen a modern and reliable communication system. Please read this manual carefully to be able to set up the unit correctly and to familiarise yourself with all of the system features. The Xepton NX-900 Stationary is an ideal system for application within groups-ranging from simple dialogue to interpreter, team-teaching and conference systems.
Being slim and light-weight in design, it combines quality and versatility with easy use and state of the art radio technology.

1.2 Scope of delivery Xepton NX-900 Stationary

Please check if all of the following components are included:

- **Xepton NX-900 Stationary**
- USB cable
- Mounting brackets and screws
- User manual
- Warranty card

Should any parts be missing, please contact your dealer or the manufacturer directly.

1.3 Main Features

- 902.5~927MHz
- Supports an unlimited amount of receivers
- 8 selectable channel groups
- Signal range of up to 80 m
- Digital transmission
- Encryptable transmission
- Can be powered with a portable USB power pack

2. Xepton NX-900 Stationary

2.1 Controls and displays

LCD

▲-button

MODE-button

▼-button

ON/OFF-switch

Headset-jacks
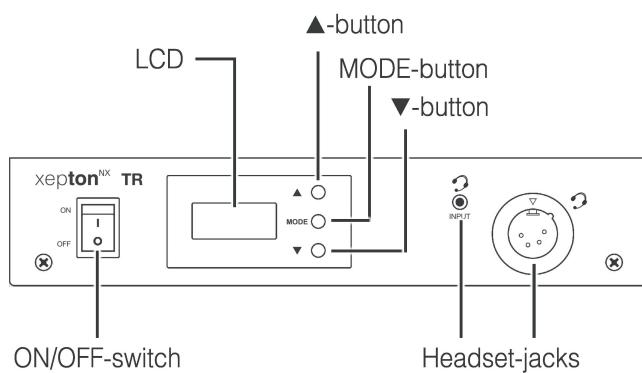
3. How to Use

3.1 Power ON / OFF

Use the ON/OFF switch to switch the device on. The LC-display will light up and the current setup as well as the battery status are shown. The device is ready for use after 3 seconds. After 8 seconds the display goes out. It lights up again when an entry is made and goes out again after 8 seconds.
Use the ON/OFF switch again to switch the device off.

3.2 Channel selection

Switch the device on and press the MODE-button for 3 seconds.
The symbol »CH« in the display will blink. Select a channel of 0-7 by pressing the »▲« and »▼« buttons. After the selection, wait for 3 seconds to set the selected channel number.
Transmitters and receivers must be set to the same channel number if they are to communicate with each other.
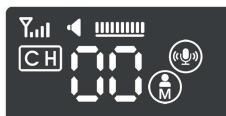
3.3 ID selection

Within a channel, each TRX needs to have a different ID from »00« to »99«. Every channel with a TRX must have a TRX set to the master-ID »00«, which defines it as the master transmitter of the group. The icons »M« (master) and »Microphone« (talk enabled) are indicated on the display as soon as the ID is set to »00«.
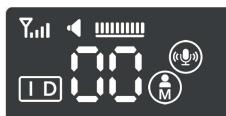

To set the ID, continue as follows: On the powered-up device, press and hold the MODE-button for 3 seconds. The symbol »CH« on the display will blink. Press the MODE-button again. The symbol »ID« will start to blink. By means of the »▲« and »▼« buttons, select an ID from »00« to »99«, while taking care that each TRX within the channel has its own number.

After the selection, wait for 3 seconds to set the selected ID number.

Any ID setting apart from »00« will cancel the master function and the icon »M« will disappear.

3.4 Volume up / down

The volume can be adjusted through 6 levels from muted to maximum. On the powered-up device, press the »▲« and »▼« buttons to adjust the volume as desired.

3.5 Monitoring function On / Off

The monitoring function enables you to hear your own voice over the system. Proceed as follows if you wish to activate the monitoring function:

On the powered-up device, press and hold the MODE-button for 3 seconds. The symbol »CH« in the display will blink.

Press the MODE button two times. The »SO« symbol in the display blinks. By using the »▲« and »▼« buttons, select »SO« to activate the monitoring function or SF to deactivate it. After the selection, wait for 3 seconds to set the selected function.

Please note:

The default setting is »SF« (monitoring deactivated).

3.6 Microphone sensitivity

The microphone sensitivity can be adjusted through 5 levels according to environmental requirements:

On the powered-up device, press and hold the MODE-button for 3 seconds. The symbol »CH« in the display will blink.

Press the MODE button three times. The »C1« symbol in the display blinks. By using the »▲« and »▼« buttons, select between C1 (low sensitivity) and C5 (high sensitivity).

Please note: The default setting is »C3«.

3.7 Audio output high / low

Apart from the volume control, it is possible to adjust the basic audio output level. A higher audio output will raise the maximum volume – this might be required in noisy surroundings.

On the powered-up device, press and hold the MODE-button for 3 seconds. The symbol »CH« in the display will blink.

Press the MODE button four times. The »UH« symbol is shown in the display. By using the »▲« and »▼« buttons, select UH (high output) or UL (normal output). After the selection, wait for 3 seconds to set the selected output level.

Please note:
Selecting »UH« can cause white noise and should only be used in loud environments. We recommend the default setting »UL«.

3.8 Input level switch

This switch controls the input level of the 2 audio input connectors on the rear panel. Depending on the strength of the input signal, the signal can be

amplified or attenuated by 10dB if necessary. When the switch is in the center position »N« (neutral), no change in level is applied.

+10 dB / N / -10 dB

INPUT LEVEL

3.9 Power supply

The transmitter is powered over the USB connection. The device can be powered by a regular USB powerpack for mobile phones and can hereby be used in a portable manner. Connect the powerpack to the USB connector on the rear of the device. The power consumption of the device is approx. 200mA.

4. Applications

4.1 Transmitting with Xepton NX-900 Stationary and receiving with RX

RX
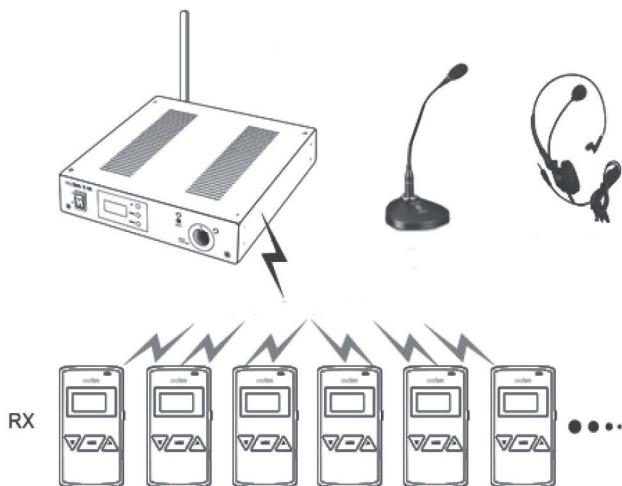
An unlimited amount of RX or RX-U receivers can be used to receive the transmission of the TR. All devices must be set to the same channel group number.

4.2 Two-way communication with transmitter Xepton NX-900 Stationary, two TRX transceivers and RX receivers.
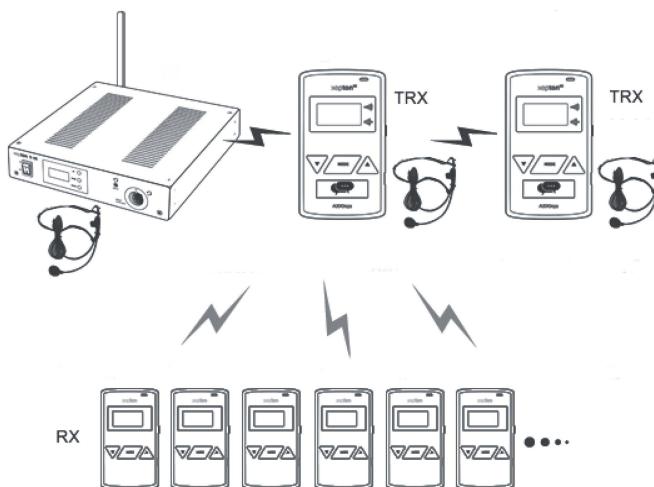

It is possible to have a two-way communication between the Xepton NX-900 Stationary and two TRX transceivers.
An unlimited amount of RX rceivers can receive the transmission.
All devices must be set to the same channel group number and each transmitter device must have its own ID number, with one transmitter device having the master-ID >>00<<
The receivers must be of the bidirectional type.

4.3 Assignment of the connection sockets

XLR 4-pin

1: MIC GND
2: MIC HOT
3: SPEAKER
4: GND

XLR balanced

1: GND
2: HOT (+)
3: COLD (-)

6.3 mm jack

HOT (+)

GND

COLD (-)
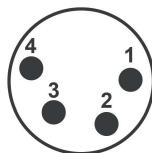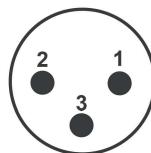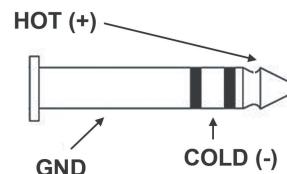
4.4 Encryption

If the use of Xepton NX-900 Stationary requires, such as in court buildings or during private sessions, the communication between transmitter ana rceiver can be encrypted. Other Xepton NX-900 Stationary devices can then no longer participate in the communication. For this purpose, basic settings on the involved devices must be changed - please contact your authorized dealer.

5. Specifications

Dimensions:	45 x 220 x 220 mm (H x W x D)
Weight:	1360 g
Transmission frequency:	902.5 ~ 927 MHz
Transmission power:	10 mW maximum
Latency:	< 50 ms
Frequency response:	100 Hz bis 14 kHz (unidirectional)
or:	100 Hz - 7 kHz (bidirectional)
Power:	USB 5V/DC / 1A
Power consumption:	200 mA
Range:	up to 80 m

Manufacturer Information :

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FCC Compliance 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.

Modifications: Any modifications made to this device that are not approved by Maytel may void the authority granted to the user by the FCC to operate this equipment.

A minimum separation distance of 20cm must be maintained between the antenna and the person for this appliance to satisfy the RF exposure requirements.

The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter, except in accordance with FCC multi-transmitter product procedures."

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.