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AUDIOropa

Hearing Augmentation.

innovate / distribute / support

About MadisonAV.

MadisonAV is an Australian owned and operated business that innovates, distributes and supports a range of high-quality AV product solutions from globally recognised brands.



Innovate.

We bring together detailed knowledge of AV industry best practice and innovative products from global technology partners.

Our experience supporting AV and broadcast solutions across key market sectors is underpinned by 30 years of insights and customer understanding.

Distribute.

We efficiently connect customers with leading, state of the art solutions through our sales, warehouse and distribution networks across Australia. Our heavy investment in stock ensures we have what you need, when you need it.



Support.

Our dedicated team provide a successful formula for delivering innovation, agility and practicality for any complex AV project challenges. From specification assistance, design support, or post sale technical support, our team is right behind you.

About AUDIORopa.

AUDIORopa by Humanteknik is a division of Humanteknik Group, world leaders in hearing augmentation solutions.

With a focus on high-quality audio systems and products, AUDIORopa cater to various industries, including public transport, healthcare, and security. Their cutting-edge technologies ensure efficient communication, enhancing safety and convenience for users worldwide. AUDIORopa's commitment to excellence and customer satisfaction positions them as a reliable partner for organisations seeking advanced audio solutions.



AUDIORopa

Introduction to Hearing Augmentation

Hearing augmentation refers to the various devices and technologies that assist individuals with hearing impairments to improve their ability to hear and communicate effectively. The aim of hearing augmentation is to enhance the auditory experience for those with hearing loss, thereby improving their overall quality of life and facilitating their participation in social, educational, and professional settings.

In recent times, significant changes to the Building Code of Australia (BCA) have been instrumental in making public areas more accessible for the hearing impaired.

Complementary to these changes are standards under the Disability Discrimination Act, mandating the installation of hearing augmentation systems in public buildings where people gather.



Contact Us.

For more information on the range of AUDIORopa Hearing Augmentation Solutions for your next project visit us at www.madisonav.com.au or call on 1800 00 77 80.

INDUCTION LOOP SYSTEMS.

Using an induction loop system, wearers of hearing-aids and Cochlear implants equipped with a tele-coil (T-Coil) can pick up the signals emitted by electric/electronic audio sources (microphone or other amplified audio systems) directly in their personal hearing devices. As a result, they hear the sound without any annoying background noise, echo or reverberation. An outstanding advantage of using induction loop systems is that no special receivers are required. All that's needed is a telecoil equipped personal hearing device.

SINGLE CHANNEL LOOP AMPLIFIER

The Pro Loop NX series is primarily designed for continuous use, making it an ideal choice for long-lasting performance. The integrated switch mode power supply and the Class-D amplifier design enable high efficiency and reduced waste heat generation. The Pro Loop NX series comes equipped with 3 mixable inputs and a dedicated microphone input with 48V phantom power support.



FOR COUNTER SPACES PRO LOOP NX3

- Loop current max. 2.5 A RMS
- The balanced input 1 can be switched between microphone and line sensitivity. The unbalanced input 2 handles line level signals or the audio signal of an electret microphone



FOR SMALL ROOMS PRO LOOP NX7

- Loop current max. 7 A RMS
- 100V Priority input
- Link connections allow several Pro Loop NX Amplifiers to be combined into one unit
- A screw-fixed cover plate prevents the setting from being changed



FOR LARGE ROOMS PRO LOOP NX15

- Loop current max. 14 A RMS
- 100V Priority input
- Link connections allow several Pro Loop NX Amplifiers to be combined into one unit
- A screw-fixed cover plate prevents the setting from being changed

MULTICHANNEL LOOP AMPLIFIER

The Pro Loop NX7 LOS and Pro Loop NX15 LOS has three mixable inputs. Two inputs process analogue microphone and line levels. For condenser microphones, 48 V phantom power can be switched in. The third input processes 100 V signals with priority over the other inputs.

With the two-channel amplifier, loop output B can be switched between 0° or 90° phase shift.



SMALL AND MOBILE LOOP SYSTEMS

LA-90 / LA-90 set

The LA-90 is a compact loop system for transmission over small distances, for example at reception desks, counters or in sales areas.

Situated between the speakers, the LA-90 captures spoken words using its built-in microphone, or alternatively, an external microphone can be connected. The incorporated induction loop wirelessly transmits these signals to hearing aids or other devices with inductive receivers (like the LPU-1). Furthermore, the option to connect headphones is also available.

The LA-90 Set includes the compact LA-90 induction loop system and also contains a table microphone and a connected telephone handset. Power is supplied either via the plug-in power supply unit or via the internal rechargeable battery.



RECEIVERS

The LPU-1 takes the signals transmitted by an induction loop system directly to the ears of people who do not wear hearing aids. The ear buds of the featherweight ergonomically designed under-the-chin receiver can swivel to stay comfortably fixed in the user's ears even when he/she moves his or her head. The soft flexible material of the ear buds also nestles gently into the auditory canal to effectively subdue ambient noise.



INFRARED TRANSMISSION SYSTEMS (IR).

Infrared audio transmission ensures interference-free and safe communication directly to personal hearing devices. Ideal for confidential areas like courtrooms, conference rooms, and multiplex cinemas with neighbouring transmission systems. It is also valuable in schools, universities, and large auditoriums with partial signal coverage or high radio-frequency emissions in city centres.



FOR SMALL SPACES AUDIOROPA PRO IR-101 KIT

This PRO IR-101 Kit Comprises of the Following:
 1 x PRO IR-202 IR-Transmitter (HT A-4082-0)
 1 x PR-22 Belt Pack IR Receiver (HT A-4037-0)
 1 x Single Charger for PR-22 (HT A-4971-0)
 1 x Headphones (HT A-4908-0)



FOR SMALL TO MEDIUM SPACES AUDIOROPA PRO IR-102 KIT

The PRO IR-102 Kit Comprises of the Following:
 1 x PRO IR-202 IR-Transmitter (HT A-4082-0)
 2 x PR-22 Belt Pack IR Receiver (HT A-4037-0)
 2 x Single Charger for PR-22 (HT A-4971-0)
 1 x Mono Neck Loop (HT A-4928-0)
 1 x Headphones (HT A-4908-0)



FOR MEDIUM TO LARGE SPACES AUDIOROPA PRO IR-202 KIT

This PRO IR-202 Kit Comprises of the Following:
 1 x PRO IR-202 IR-Transmitter (HT A-4082-0)
 3 x PR-22 Belt Pack IR Receiver (HT A-4037-0)
 3 x Single Charger for PR-22 (HT A-4971-0)
 2 x Mono Neck Loop (HT A-4928-0)
 3 x Headphones (HT A-4908-0)



FOR LARGE SPACES AUDIOROPA PRO IR-400 KIT

This PRO IR-400 Kit Comprises of the Following:
 1 x PRO IR-400 IR-Transmitter (HT A-4026-0)
 5 x RCII02 2-Channel IR Under Chin-Receiver (HT A-4043-0)
 1 x 5-Bay Charger for Under Chin-Receiver (HT A-4976-0)

RADIO FREQUENCY TRANSMISSION SYSTEMS (RF).

The AUDIOropa RF wireless transmission systems offer diverse solutions for business, leisure, sports, and education, including guided tours, multilingual interpretation, and team communication with a rugged build for harsh environments. The receivers support neckloops for direct inductive transmission to hearing aids and include audio amplifying receivers with output jacks for connecting earphones or headphones.

XEPTON-NX STATIONARY TRANSMITTER

- 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



XEPTON-NX PORTABLE RECEIVER

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 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.

- 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



OUR DESIGN SERVICES.



Navigating the intricacies of hearing augmentation can seem overwhelming, but we believe in simplifying the process for you. At MadisonAV, we specialise in providing the expertise and guidance needed to ensure seamless integration of hearing augmentation systems into your designs. Our commitment to swift response times guarantees that your design requests will be met promptly and effectively.

At MadisonAV, we embrace and support the three main hearing augmentation audio technologies available today, induction loop systems, infrared transmission systems and radio frequency transmission systems.

Contact our specialised technical support team if you require assistance with:

- Hearing augmentation loop design
- Specification assistance
- In-house technical expertise or access to world-leading specialists
- Loop Design Software (available to Integrators and Consultants)
- Loop Design and Commissioning Training





Connect with us.

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