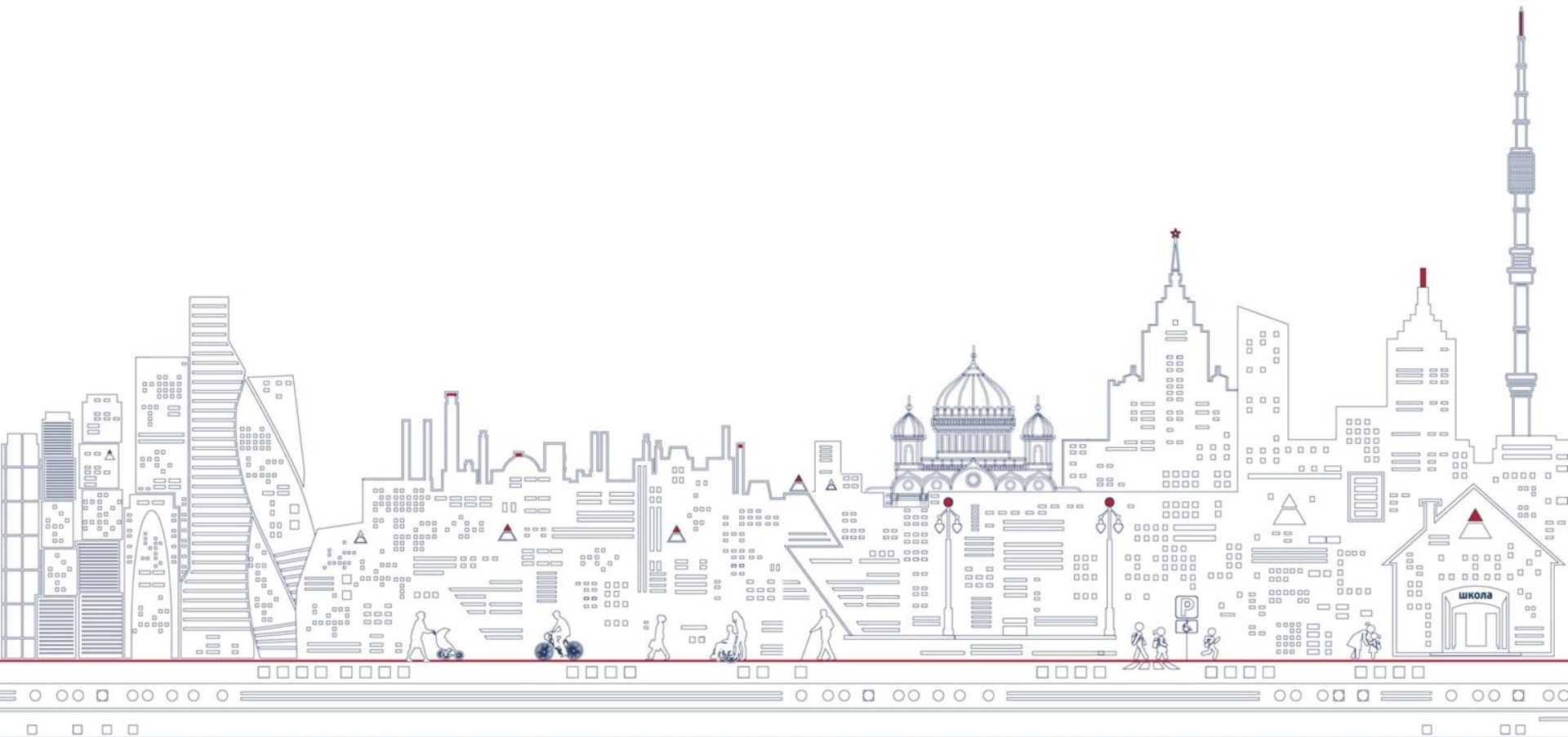


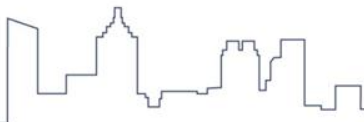


ISTOK-AUDIO
GROUP



Agenda

- **Hearing Aids**
- **Induction Loop Systems**
- **Sonnet FM**
- **Smart Bee**
- **Soundproof Cabins «Silent Cube»**
- **SpotAid**
- **InvaTouch**



Hearing Aids*

Istok Audio Group is a leader in Russia and CIS countries for the development, production and supply of rehabilitation and medical equipment.

Portfolio of Istok Audio Group includes wide range of modern high-tech hearing aids from economy to premium class.

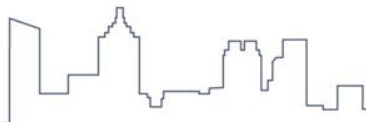
Unique capabilities of Istok Audio: powerful production base; high scientific capacity; vast experience; 3D modeling laboratory; cooperation with the world's leading manufacturing partners; access to the latest technologies and to the world best practices in development of technical means of rehabilitation.

Our Products:

- Argo
- Bagira
- Bagira Pro
- Istok / Sonata
- Santa
- Santa Pro



** Please pay attention that names of products could differ depending on export market (characteristics unchanged)*



Hearing Aids – Argo

Digital hearing aids with an adaptive system of directional microphones. ARGO series of digital hearing aids include 3 product lines of 4 models, which are used for correction from mild to severe levels of hearing loss to meet requirements of a wide range of customers.

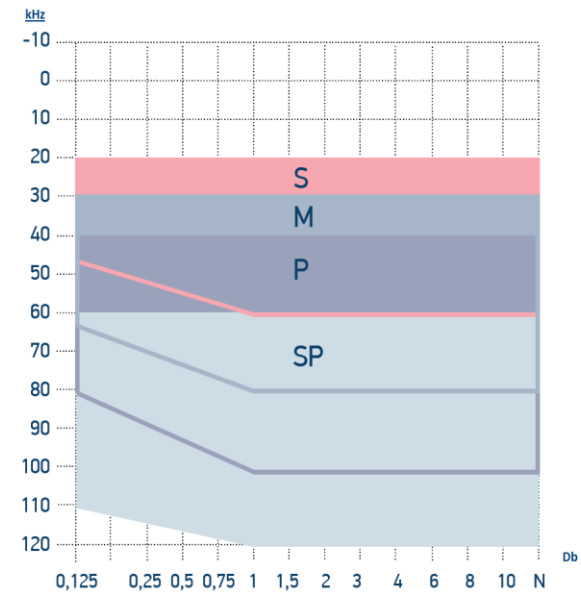
The true digital quality of sound is provided through multi-channel compression (WDRC), 128-band noise suppression, feedback cancellation in antiphase, and a directional microphones system. The ten-band equalizer allows adjusting suppression level for each frequency band up to 24 dB (1 dB increment).

Specifications:

- Multi-channel digital signal processing
- 4 individually adjustable acoustic programs
- Automatic adaptive directional microphones system for Argo 8 (Argo 4- fixed directional microphones system, Argo 6- directed microphones with adaptive orientation)
- Adaptive feedback cancellation in antiphase
- Adaptive 4-level noise suppression in 128 frequency bands
- System of noise generators for tinnitus therapy
- Autotelephone function for automatic switch of the hearing aid to the phone mode, when the receiver approaches the hearing aid
- Wide dynamic range compression (WDRC)
- Ten-band equalizer
- Adaptive broadband automatic gain control system (AGC) for output signal
- Double compression (fast and slow) in each frequency channel
- Microphone noise reduction system and ambient noise reduction of LF noises
- Choice of rules to calculate amplification
- Special rules to calculate amplification for children DSL v.5
- SANTA hearing aid software
- Hearing Aid Journal (recording data of working modes)
- Bass Boost feature (additional amplification of LF for Argo SP)

Key features:

- Programmable volume control with adjustable range
- Smooth programs switching
- Programmable sound indication at program switching
- Programmable sound indication of battery discharge
- Telephone coil
- FM-compatibility, audio input



Hearing Aids – Bagira

Environment analysis allows automatically optimize the parameters of the hearing aid, based on permanent analysis of acoustic environment. Hearing aid Bagira applies the concept of automatic program that defines the strategy of processing the signal, depending on the acoustic environment. This program is based on adaptive automatic functions that constantly optimize operation of hearing aid systems for the current acoustic environment. As soon as the situation is recognized, Bagira forms the best combination of hearing aid features for the given moment of time.

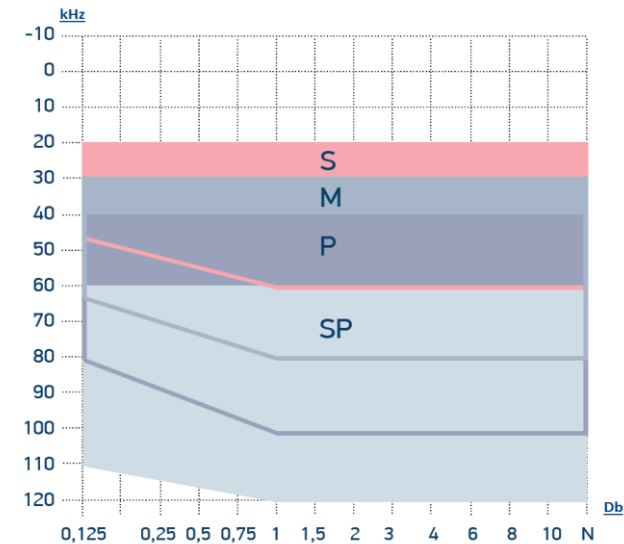


Specifications:

- Automatic adaptive program with function of environment analyze
- 8-channel digital signal processing
- 4 individually adjustable acoustic programs
- Automatic adaptive directional microphones system
- Adaptive feedback cancellation in antiphase
- Adaptive 4-level suppression of noise in 128 frequency bands
- System of noise generators for tinnitus therapy
- Autotelephone function
- Wide dynamic range compression (WDRC)
- 16-band equalizer
- Broadband adaptive automatic gain control (AGC) for output signal
- Double compression (fast and slow) in each frequency channel
- Microphone noise reduction system and reduction of ambient LF noises
- Choice of rules to calculate amplification
- Special rules to calculate amplification for children DSL v.5
- SANTA hearing aid software
- Hearing Aid Journal feature
- Bass Boost feature (additional amplification of LF for Bagira SP)
- Audibility support feature in case of battery discharge

Key Features:

- Programmable volume control with adjustable range
- Smooth programs switching
- Programmable sound indication at program switching
- Programmable sound indication of battery discharge
- Telephone coil
- FM-compatibility, audio input
- Multitone melodies



Hearing Aids – Bagira Pro

Bagira Pro is 16 – channel digital programmed hearing aid with automatic analysis of the surrounding acoustic environment. Enable to correct any hearing loss due to floating matrix solution. Unique flexibility of settings is provided by possibility to use from 1 to 16 channels of digital signal processing. The automatic program guarantees the device work in 12 acoustic situations.

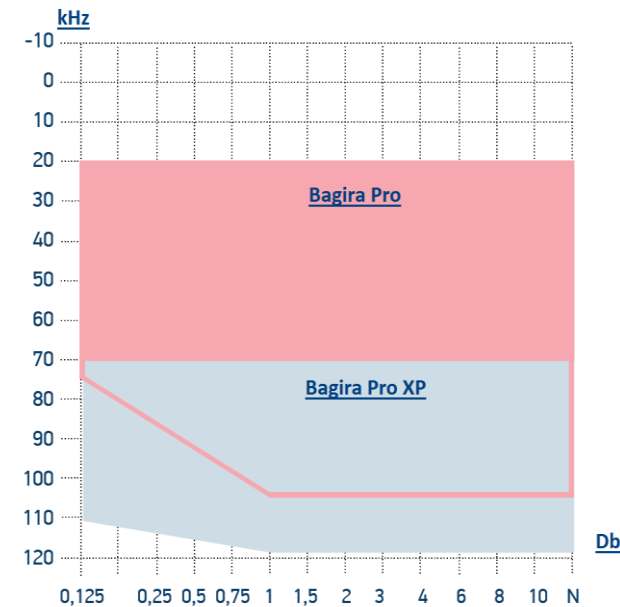


Specifications:

- Automatic adaptive program with function of environment analyze
- From 1 to 16 -channel digital signal processing
- From 1 to 6 individually adjustable acoustic programs
- Automatic adaptive directional microphones system of directional microphones
- Adaptive feedback cancellation in antiphase
- Adaptive 4-level suppression of noise in 128 frequency bands
- System of noise generators for tinnitus therapy
- Autotelephone function
- Wide dynamic range compression (WDRC)
- 16-band equalizer
- Broadband adaptive automatic gain control (AGC) for output signal
- Double compression (fast and slow) in each frequency channel
- Microphone noise reduction system and reduction of ambient LF noises
- Choice of rules to calculate amplification
- Special rules to calculate amplification for children DSL v.5
- SANTA hearing aid software
- Hearing Aid Journal feature
- Bass Boost feature (additional amplification of LF) for Bagira Pro XP
- Audibility support feature in case of battery discharge
- Suppression of impulse noises

Key Features:

- Programmable volume control with adjustable range
- Smooth programs switching
- Programmable sound indication at program switching
- Programmable sound indication of battery discharge
- Telephone coil
- FM-compatibility, audio input
- In Situ Audiometry
- Audiogram record in Hearing Aid
- Nano coating to protect from water and dust
- Multitone melodies



Hearing Aids – Istok / Sonata

Istok and Sonata analog hearing aids are used for correction of all of hearing loss levels (I – IV).

They offer an optimal balance of functionality and reliability at a reasonable price, which makes our devices attractive in the mid-range price segment.

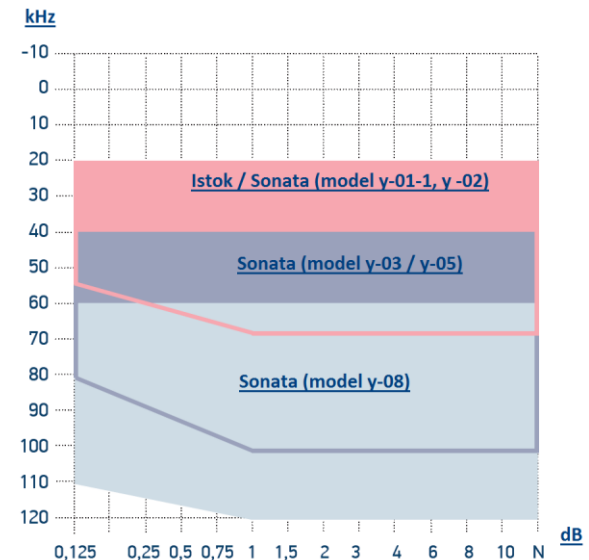
Specifications:

- Automatic gain control system (AGC) supports natural balance between sounds of different loudness (models Sonata Y-02, Sonata Y-05, Sonata Y-08)
- Two-directional (push-pull) amplifier provides more capacity (models Sonata Y-03, Sonata Y-05)
- Output sound pressure level (OSPL) adjustment (models Sonata Y-03, Sonata Y-08)
- Low level of non-linear distortion at high amplification (models Sonata Y-02, Sonata Y-03, Sonata Y-05, Sonata Y-08, Sonata Y-01-1)
- Compact device with attractive design (models Sonata Y-01-1, Sonata Y-02)



Key Features:

- High reliability due to surface mount technology
- High-sensitive induction coil ensures good loudness and distinctness during telephone conversation
- Wind Deflector for Sonata models
- Gain Control
- LF Control
- AGCO Control (models Sonata Y-02, Sonata Y-05, Sonata Y-08)
- OSPL Control (models Sonata Y-03, Sonata Y-08)
- Microphone – Telephone Switch (T-M) (models Sonata Y-01-1, Sonata Y-02, Sonata Y-03, Sonata Y-05)
- Microphone – Telephone Switch (O-T-M) (model Sonata Y-08)



Hearing Aids – Santa Pro

Digital hearing aids with trimmer combine the advantages of digital technologies with the convenience of adjustment inherent in analog devices. Santa Pro multi-channel hearing aids are used for correction from mild to severe levels of hearing loss both for adult patients and children.

Being very flexible, they offer accurate and fast adjustment according to the users' needs. From 1 to 4 trimmer controls are used for the adjustment, no additional tools are required.

Santa Pro can be programmed on experts' recommendations and users' needs.

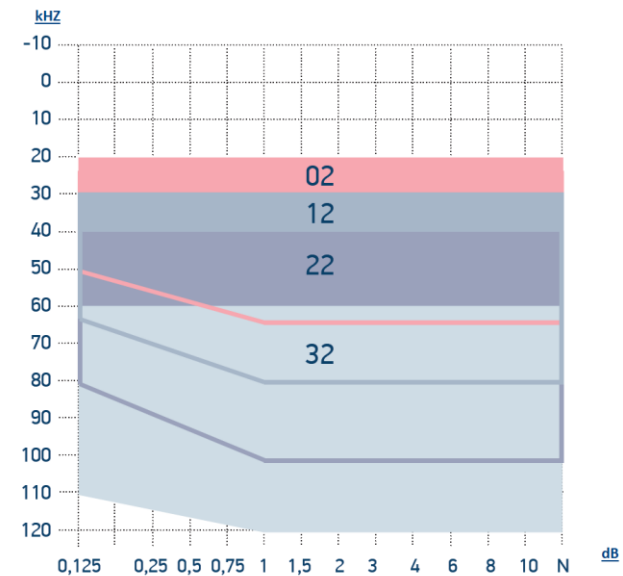
The adjustment procedures are available both to experts in adjustment of programmed and digital aids and to those who are familiar with analog aids only.

Specifications:

- Opportunity to program matrix of Hearing Aid
- Broadband AGC for output signal (AGC-0)
- Double compression (fast and slow)
- Microphone noise reduction system and reduction of ambient LF noises
- Sound indication of battery discharge and of switch between telephone and microphone modes
- Telephone coil
- Mode switch (M-T) (models T-02, T-12)
- Mode Switch (O-T-M) (models T-22, T-32)
- Adaptive multi-band noise reduction
- Up to 4 programs of hearing
- Tinnitus masker
- Nano coating of device
- Adaptive feedback cancellation in antiphase
- Single-channel, two channel and four channel sound processing

Key Features:

- Any combination of 4 trimmers from a list available:
- General or per-channel amplification;
- General or per-channel compression coefficient;
- General or per-channel compression threshold;
- Low frequency and high frequency tones;
- Peak clipping;
- AGC for output signal;
- Channel separation frequency (in 2-channel option only).



Hearing Aids – Istok Mini

Istok Mini is analog hearing aid in a miniature case for correction moderate and moderate-severe levels of hearing loss. The perfect balance of functionality, reliability and reasonable price makes this device the best solution in the base price segment.

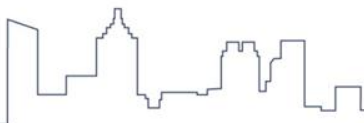
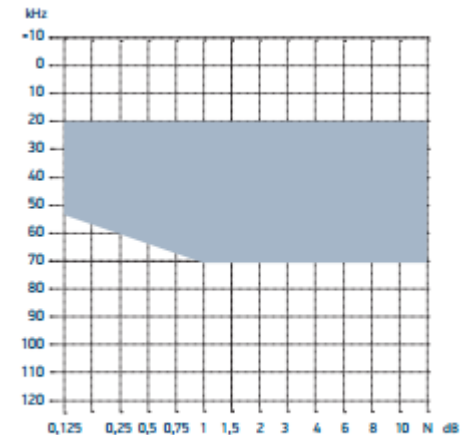
Modification with a telephone coil is Y-01k

Specifications:

- High reliability due to the use of surface mount technology
- High-sensitive induction coil ensures good loudness and distinctness during telephone conversation
- Automatic switch to a telephone coil when approaching mobile to hearing aid (in case magnet field is absent in mobile, special magnet could be purchased separately)
- Gain Control
- Non-operative adjustment of low frequencies tones
- Miniature device with attractive design

Key Features:

- Battery size 13
- 2-position lockable battery compartment



Hearing Aids – Sonata Mini

Sonata Mini is analog hearing aid in a miniature case for correction moderate and moderate-severe levels of hearing loss. The perfect balance of functionality, reliability and reasonable price makes this device the best solution in the base price segment.

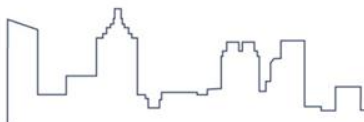
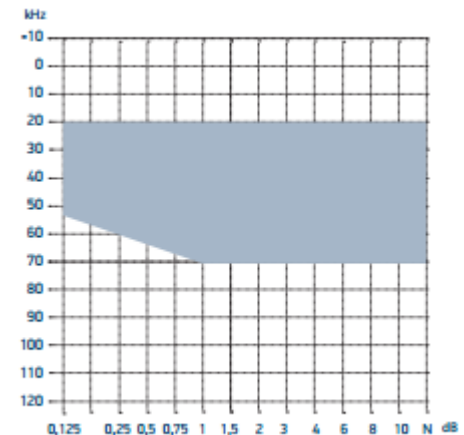
Modification with a telephone coil is Y-02k.

Specifications:

- AGC provides a high degree of speech intelligibility, natural sounding and a rich sound palette
- Keep the natural balance of different volume sounds
- Gain Control
- Non-operative adjustment of low frequencies tones
- Non-operative AGC adjustment

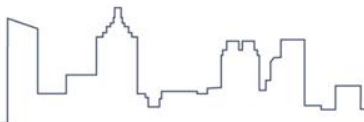
Key Features:

- High reliability due to the use of surface mount technology
- High-sensitive induction coil ensures good loudness and distinctness during telephone conversation
- Automatic switch to a telephone coil when approaching mobile to hearing aid (in case magnet field is absent in mobile, special magnet could be purchased separately)
- Battery size 13
- 2-position lockable battery compartment



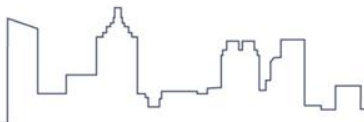
Agenda

- **Hearing Aids**
- **Induction Loop Systems**
- **Sonnet FM**
- **Smart Bee**
- **Soundproof Cabins «Silent Cube»**
- **SpotAid**
- **InvaTouch**



Induction Loop Systems

- Accessible environment is a priority need for people with disabilities, who should be provided with conditions enabling them to enjoy a high standard of life. This concern physical comfort together with full access to information and services.
- When attending public events, persons with hearing loss may feel discomfort and anxiety about missing certain important information. Ambient noises, distances from the speakers, and receiving echo feedback are the main factors that prevent users of hearing aids, including cochlear implants, from receiving full content of speech communication.
- To decrease the negative effects, they need special equipment in public facilities Istok-Audio Group Solution propose **Induction Loop Systems.**
- Induction Loop Systems, depending on requirements could be: portable, wall-mounted and stationary systems for large spaces.



Induction Loop Systems



Hear Here S is a compact and lightweight solution, easily fits desk and covers a radius of 1.5 m.

External radio microphone and built-in receiver provide convenient features of the system.

This system is ideal for person to person contact in areas such as banks, pay desk, post offices, small meeting rooms, reception desks, offices, ticket booths and all other commercial and government servicing points.

Specifications:

- audio line-in connector for any sound-reproducing equipment.
- line-out connector for loudspeakers.
- 2 microphones, (one of them is in-built, and the other is wireless external)
- Power supply 220 V, 50 Hz
- Power consumption, max. 20 Wt
- Frequency range 100 – 8 000 Hz
- Accumulator life 2 hours
- Panel dimensions (w/o power supply unit) 250 x 270 x 91 mm
- Panel weight (w/o power supply unit) 1.1 kg



Induction Loop Systems



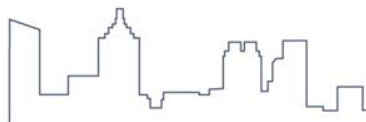
Hear Here M is wall mounted solution, enables translation of messages directly to hearing aids, covers radius of 3.2 m.

External radio microphone and built-in receiver provide convenient features of the system.

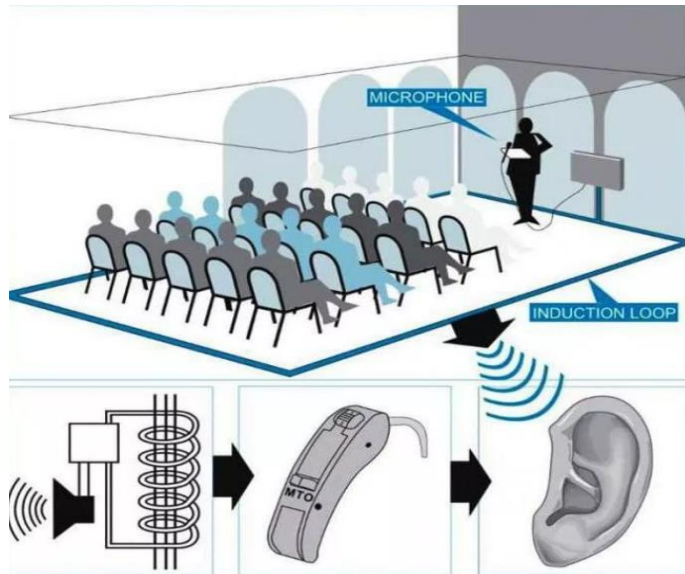
This system is ideal for museums, libraries, pay desks, information services etc. together with information services, where information is preliminary prepared or for emergency messages.

Specifications:

- audio line-in connector for any sound-reproducing equipment
- line-out connector for loudspeakers.
- 2 microphones, (one of them is in-built, and the other is wireless external)
- USB and SD flash card
- Power supply 220 V, 50 Hz
- Power consumption, max. 40 Wt
- Frequency range 100 – 8 000 Hz
- Panel dimensions (w/o power supply unit) 500 x 500 x 60 mm
- Panel weight (w/o power supply unit) 3.5 kg



Induction Loop Systems



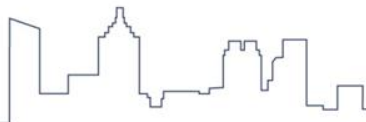
Hear Here L informational system could cover areas from 25 m up to 1 000 m. Ideally suitable to cover large spaces such as conference and lecture halls, museums.

Mounted into floor, ceiling or walls close to induction loop. Could be installed invisibly for interiors and doesn't require special technical service.

Could be connected to alarm systems, loudspeakers and other signal sources.

Specifications:

- Power supply 220 V, 50 Hz
- Power consumption, max. 400 Wt
- Frequency range 60 – 10 000 Hz
- Amplifier Unit weight and dimensions differ depending on coverage area



Induction Loop Systems

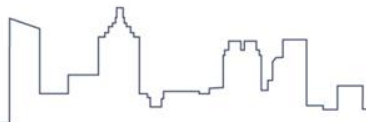
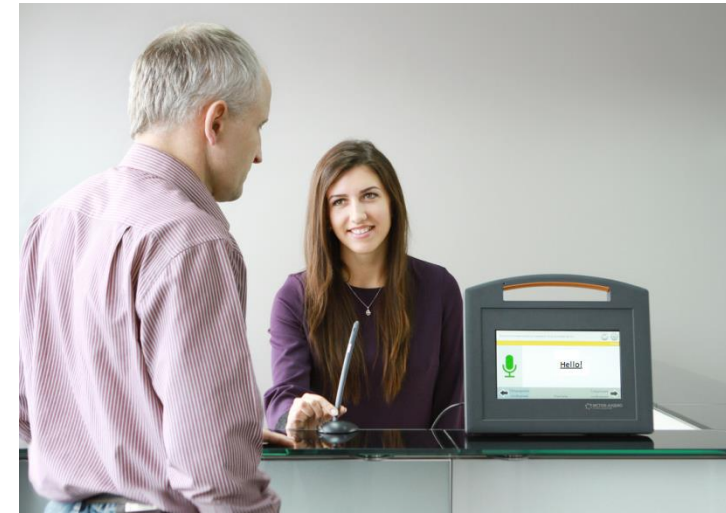


Hear Here S+

- Combines technologies of transmitting the information to hearing aids and display as a text message (for people with total deafness).
- Built-in induction system transmits speakers voice directly to hearing aids. This allows to obtain good quality of speech in a noisy environment.
- Opportunity to write a message ensures bilateral communication with hearing impaired person.

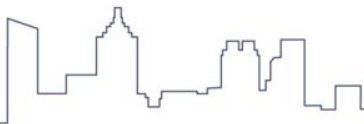
Specifications:

- Induction loop with sensor display
- Power cable
- Tabletop microphone
- Tablet for feedback communication



Agenda

- Hearing Aids
- Induction Loop Systems
- **Sonnet FM**
- Smart Bee
- Soundproof Cabins «Silent Cube»
- SpotAid
- InvaTouch



FM-System “Sonnet”



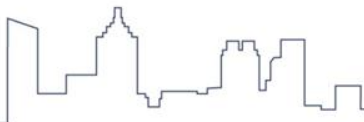
Sonnet system could be used in:

- Schools and Universities
- Museums
- Concert Halls
- Sport Buildings

Could be used by people with hearing aids and cochlear implants. It allows to distinguish voice of speaker from external noise. Distance from source doesn't influence quality of a signal. Built in volume control enable listener set comfort level of sound. Having both in-built and remote microphones, this system allows people with hearing impairment to hear their own voice and control pronunciation. Easy to use and connect all elements.

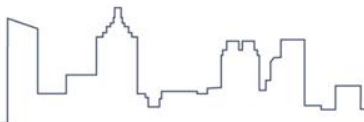
Specifications:

- One microphone
- Set of receivers (up to 11)
- Induction loops, headphones, behind the ear hook
- Reception range – 50 meters.
- Battery life – 8 hours
- Convenient system for storage and charge elements



Agenda

- Hearing Aids
- Induction Loop Systems
- Sonnet FM
- **Smart Bee**
- Soundproof Cabins «Silent Cube»
- SpotAid
- InvaTouch



Smart Bee Daisy - Digital Player

for Visually Impaired people

Smart Bee — digital portable player, combines functions of modern "talking books" with capabilities of advanced communicators. Smart Bee combined attractive and convenient design, reliability and ease to use.

Key Features

- Wi-Fi internet connection to work with podcasts and Internet radio stations.
- Radio with ability to save favorite radio stations;
- Voice Recorder with built-in and external microphones provides ability to record to flash card and internal memory;
- Ability to record from external source to SD and internal memory
- Voiced clock function play current time;
- Alarm clock - ability to set 5 alarms with snooze function, with ability to set own melody;
- Timer allows to set the time counter from 5 minutes to 4 hours ;
- Voiced calculator with basic mathematical actions: addition, subtraction, multiplication or division;
- Diary allows creating voice notes with reminder function;
- Compass - helps to determine the directions in degrees with the voice message;

Specifications:

- Built-in speaker, ensuring high quality of sound, with output power 1 W
- Adjustable volume playback (25 levels)
- Background music could be set while reading the books (5 tone effects available)
- Push-button keypad, all control buttons are equipped with vibration, audible alarm and voice notification.
- Ability to set «electronic book marks»
- The device support following media types:
 - SD flashcards (maximum 64 GB),
 - External drive
 - Internal memory (8 GB).
- Ability to update internal software
- Battery life – 14 hours
- Time to full battery charge – 4 hours
- Dimensions 120×60×20 mm, weight 115 g.

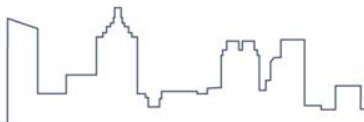


Supported file formats:

- The international audio books format Daisy 2.0, 3.0
- Text files: TXT, HTM, HTML, WORD, EPUB, PDF
- Audio files: MP3, WMA, WAV, WAVE (PCM), FLAC, APE, ACC, OGG Vorbis, RA, M4A, M3U
- Video files: RM, RMVB, AVI, MP4, 3GP, MOV, WMV, FLV, MPG, MPEG, DAT

Agenda

- **Hearing Aids**
- **Induction Loop Systems**
- **Sonnet FM**
- **Smart Bee**
- **Soundproof Cabins «Silent Cube»**
- **SpotAid**
- **InvaTouch**



Soundproof cabins “Silent Cube”



The creation of a controllable acoustic environment is one of the most important conditions in hearing examination. The use of Sound-Proof cabins ensures the reliability and accuracy of the results of audiometric studies, eliminates the impact of ambient noise by improved noise absorption and impermeability coefficients.

Audiometric Cabin used in tonal and speech audiometry, conducted by otolaryngologists, audiologists, to assess the hearing function of patients during mass and preliminary medical examinations.

The audiometric cabin equipped with a lockable, a window and a forced ventilation system located in the ceiling panel. The walls of the cabin made from material with small electromagnetic and acoustic conductivity. The cabin has interior lighting.

Application areas:

- In healthcare facilities;
- To conduct scientific researches in silent environment;
- For mass examination of hearing in schools and manufactures.

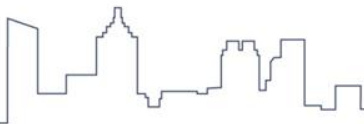
Advantages:

- The guarantee of acoustic effectiveness in the examinations;
- High-leveled noise reduction;
- Suppression of acoustic and mechanical (hull) noise
- Magnetic gasket along the door perimeter ensures impermeability and noise insulation;
- The wide range of dimensions for every situation.
- Modern design



Agenda

- Hearing Aids
- Induction Loop Systems
- Sonnet FM
- Smart Bee
- Soundproof Cabins «Silent Cube»
- **SpotAid**
- InvaTouch



Alert system “SpotAid”

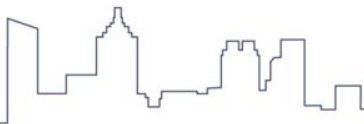
System includes:

- **SpotAid Receiver**- table top receiver obtains signals from transmitters, which inform about calling by vibration, sound signal and light indication. Number of transmitters for 1 device could be up to 100, exact location of the signal transmitter is shown on a screen. Other characteristics: enlarge screen, clock, alarm, calendar, battery charge status, last call information.
- **SpotAid Transmitter**- wireless buttons, installed in all areas of the building and adjacent territory with informational plate. Transmitters have contrast surface, enlarge pressing area with Braille (text could vary). Vandal-proof, made of a special type of plastic, resistant to damage and provides full protection from water, dirt, dust, moisture-resistant. Could be placed indoor and outdoor (could work from -35 to + 50 C temperatures). Enlarge pressing area, button could be pressed with elbow, shoulders, back of the hand. Increased distance of signal transmission (up to 100m). There are several types of SpotAid Transmitter buttons.
- **SpotAid Sound Info** could be purchased additionally, activated when SpotAid transmitter is activated, providing pre-recorded information or information from translational network of the building. Indoors and outdoors usage (down to - 50 C degrees).
- **SpotAid Signal Retranslators** could be purchased additionally, increasing the distance of SpotAid transmitter buttons up to 150 meters.



Agenda

- **Hearing Aids**
- **Induction Loop Systems**
- **Sonnet FM**
- **Smart Bee**
- **Soundproof Cabins «Silent Cube»**
- **SpotAid**
- **InvaTouch**



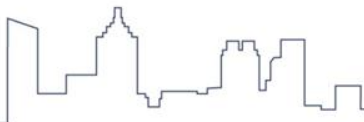
Software “InvaTouch”

Modern technical solutions make it possible to create conditions for accessibility of important information about the organization in universal form by installing informational terminals made for people with special needs in the entrance zone. The terminal is intended for getting information about the organization (working hours, reception hours, names of employees, numbers of offices, events' announcements), displays interactive plan of the building and ways inside it. There are two variants of terminals: wall terminals and floor terminals.

Special adaptive software developed by specialists of “Istok Audio Group” is an important feature and essential part of the terminal. It allows people with different kinds of disability to use and control the terminal.

Software includes:

- contrast mode of displaying information, screen magnifier, increase of font size, approximation and distancing texts and images for visually impaired people;
- sensory-sound system of terminal control, voice scoring of information for blind people;
- induction system transmitting an audio information directly to the hearing aids for hearing impaired people;
- video communication with specialists and dispatching services of the organization who can provide sign language translation for deaf people;
- all information and terminal control area can be placed into lower part of the screen for people in wheelchairs;
- for all users there is an opportunity of wireless text connection with organization's employees and that allows to remotely receive answers or ask for help.



Contacts:

Russian Federation, 141190 Moscow Region, Fryazino,

Zavodskoy proezd, 3A

Ph.: +7 (495) 792-02-10 ext. 3273

Mob.: +7 (964) 589-18-98

+7 (903) 514-16-61

E-mail: kupriyanova@ia-group.ru

