ICP HEARING SYSTEMS
APPROVED FOR LOUD WORKPLACES
HÖRLUCHS® – DEVELOPMENT & PRODUCTION LABORATORY
ICP HEARING SYSTEMS FOR LOUD WORKPLACES

THE NEW GENERATION OF THE WORLD’S FIRST ICP HEARING AID WITH APPROVAL FOR LOUD WORKPLACES: HÖRLUCHS ICP RIC 16, BTE 16 AND BTE P 16 (PREVIOUS MODELS: ICP XS, DUO AND P)

Old-fashioned hearing systems are not reliable at loud workplaces. The AS HÖRLUCHS ICP (Insulating Communication Plastic) hearing systems are approved by construction authorities for use at loud workplaces. The system consists of a hearing aid with a specially developed loud-workplace program and a plastic ear protection piece approved for the purpose (HAWEI ICP, SOWEI ICP). This means that the hearing system is 100% PPE (personal protection equipment) as well as 100% a medical product listed in the medical aids register. It means that the hearing aid can also be used privately.

Approval: Plastic attenuation piece per DIN EN 352-2 and hearing aid based on DIN EN 352-7

HÖRLUCHS ICP HEARING SYSTEM — ONE SYSTEM, TWO SUPPLY ROUTES

SUPPLYING HEARING AIDS AS PERSONAL PROTECTION EQUIPMENT

- The legal distributor of the personal protection equipment is HÖRLUCHS.
- The full system is preprogrammed exclusively by HÖRLUCHS and delivered ready-made. Licensed partner acousticians handle supply according to the guidelines that apply on site.
- Approval according to the European guidelines and standards for personal protection equipment.
- Hearing aid with type approval test and certification of an ear protection program per DIN EN 352-7.
- Ear mold with type approval test and certification as personal protection equipment per DIN EN 352-2.
- Release according to the occupational safety act and the German noise and vibration occupational safety act.

SUPPLYING HEARING AIDS AS MEDICAL DEVICES

- The legal distributor of the medical product is Audio Service.
- The full system is preprogrammed exclusively by HÖRLUCHS and delivered ready-made. Licensed partner acousticians handle supply according to the guidelines that apply on site.
- Approved according to the medical products guidelines
- German hearing aid institute (DHI) for medical product testing.
- Listed in the medical aids guideline directory (HilfsM-RL)
- The marketed medical products conform to directive 93/42/ECC on medical products (MDD) and are recognized worldwide.
HEARING AID ATTENUATION PIECES FOR HEARING AID USERS

The HÖRLUCHS SOWEI ICP and the HÖRLUCHS HAWEI ICP are hearing aid ear molds specially approved for loud workplaces. The SOWEI ICP and HAWEI ICP attenuation piece can be used in connection to the HÖRLUCHS ICP RIC 16, BTE 16 and BTE P 16 hearing aids specially approved by construction authorities (previous models: ICP XS, DUO and P) in an ear protection program as an active unit at loud workplaces.

SOWEI ICP ATTENUATION PIECE FOR SOUND TUBE CONNECTIONS AND ANGLE HEARING AIDS

SOWEI ICP ATTENUATION PIECE FOR RIC HEARING AIDS

The new product made from silicone is extremely flexible. The wearer can barely feel it, and others can barely see it. Moreover, its passive attenuation value of 30 dB SNR (with HLFs1 filter) makes it ideally adaptable to the ICP hearing aid. The SOWEI ICP attenuation piece is available for the following attachment models:

- HEARING AIDS WITH SOUND TUBE CONNECTIONS
  (Standard Tube 3,1mm)

- HEARING AIDS WITH EXTERNAL RECEIVERS (RIC SYSTEMS)

Approval: DIN EN 352-2

HAWEI ICP ATTENUATION PIECE FOR SOUND TUBE CONNECTIONS AND ANGLE HEARING AIDS

The tried-and-true HAWEI ICP attenuation piece’s combination of hardness and softness makes it pleasant to wear. Moreover, its ABS cover plate makes it especially stable. Its 27 dB passive attenuation value make it flexible to use. Connection models: Hearing aids with sound tube connections (standard tube 3.1 mm).

Approval: DIN EN 352-2

SOWEI ICP SOUND INSULATION

HaweI ICP SOUND INSULATION
PROFESSIONAL EAR PROTECTION
FOR INDUSTRY & SKILLED TRADES

EQUIPMENT AND FEATURES
ICP RIC 16, BTE 16 AND BTE P 16

TECHNICAL EQUIPMENT
• ICP EAR PROTECTION PROGRAM
  • 6 hearing programs
  • 32 signal processing channels / 16 frequency channels
  • 16 AGC Channels / 16 MPO Channels
  • Data Logging
  • Wireless: • AudioLink • Binaural synchronisation
  • Wireless audio input option
• PROGRAMMABLE TINNITUS FUNCTION

PRODUCT FEATURES
• For open and closed adjustment

BASIC EQUIPMENT
• Batter compartment as ON/OFF switch
• Rocker switch, programmable as ON/OFF switch, volume control, tone adjustment, tinnitus noiser louder/softer
• Level dependent signal tones/melodies (activatable/deactivatable) for low battery power, program change, volume control, ON/OFF switch function
• Telecoil
• Personal color concept
• Audiomatic (P) turn-on delay (activatable/deactivatable)
• IP67 CERTIFIED

OPTIONS
• Audiostreamer Smart Connect
• Smart Remote remote control
• Smart Connect app
• Smart Remote app
• AutoPhone set

HOUSING COLORS
• Dark gray • Silver • Grey

SIGNAL PROCESSING
• G3 anti-feedback system
• Interference noise manager:
  • Adaptive interference noise reduction • Wiener Filter
  • Adaptive wind noise reduction
  • Impulse suppressor
  • Automatic situation control • Selectronic
• AudioTronic multi-microphone system:
  • Panorama • Direktional static
  • Automatic • Adaptive
  • Language 360 • AudioSpot
• FREQUENCY AND DYNAMISM CONCEPT:
  • Selective frequency compression • TRC S
  • Sound Upgrade (in wireless audio input mode)

AUTOMATIC FUNCTIONS
• Intelligent Acclimatic
• Comformatic

EQUIPMENT AND FEATURES
ICP RIC 16

PRODUCT FEATURES
• RIC hearing system with external receiver

BASIC EQUIPMENT
• Dual Energy Technology: Takes ordinary or rechargeable batteries

OPTIONS
• Smart Power 1) battery charging station
• Explosion hearing test S with Vmax = 45 dB 2)
• Explosion hearing test M with Vmax = 60 dB 2)
• Explosion hearing test P with Vmax = 70 dB 2)
• Individual CLIC MOLD 2.0 (open or power)
• Click domes (open, semi-open, closed or double)

PROGRAMMING ADAPTER
• Adapter 312 Item No. 108 24 469

MAXIMUM ACOUSTIC AMPLIFICATION
• Peak value at 50 dB and amplification 45 dB 45 dB (per IEC 60118-7:2005) and 57 dB (per IEC 60118-0)
• Peak value at 50 dB and amplification 60 dB 60 dB (per IEC 60118-7:2005) and 70 dB (per IEC 60118-0)
• Peak value at 50 dB and amplification 70 dB 70 dB (per IEC 60118-7:2005) and 80 dB (per IEC 60118-0)

BATTERY TYPE
• Type 312

ADAPTATION RANGE FOR 60 DB RECEIVER-IN-CANAL
PRODUCT FEATURES
• For standard tube / slim tube

BASIC EQUIPMENT
• Dual Energy Technology: Takes ordinary or rechargeable batteries
• Adjustable hearing angle

OPTIONS
• Battery charging station with Smart Power
• Small hearing angle
• AudioFix
• Eyeglass adapter
• Fitting Set – thin tube

PROGRAMMING ADAPTER
• Adapter 13 Item No. 108 24 470

ACCESSORIES
• Battery compartment clip in red and blue for side recognition
• Thin Tube with open tip

MAXIMUM ACOUSTIC AMPLIFICATION
• Peak value at 50 dB and hearing angle 60 dB (per IEC 60118-7:2005) and 71 dB (per IEC 60118-0)
• Peak value at 50 dB and thin tube 53 dB (per IEC 60118-7:2005) and 61 dB (per IEC 60118-0)

BATTERY TYPE
• Typ 13

ADJUSTMENT RANGE

PRODUCT FEATURES
• For standard tube

BASIC EQUIPMENT
• Button programmable as a program selection button, program selection button with ON/OFF function
• Adjustable hearing angle

OPTIONS
• Small hearing angle
• Eyeglass adapter

PROGRAMMING ADAPTER
• Adapter 13 Item No. 108 24 470

ACCESSORIES
• Battery compartment clip in red and blue for side recognition

MAXIMUM ACOUSTIC AMPLIFICATION
• Peak value at 50 dB with dampened hearing angle 70 dB (per IEC 60118-7:2005) and 77 dB (per IEC 60118-0)
• Peak value at 50 dB with undampened hearing angle 75 dB (per IEC 60118-7:2005) and 79 dB (per IEC 60118-0)
• Peak value at 50 dB with open tube 65 dB (per IEC 60118-7:2005) and 68 dB (per IEC 60118-0)

BATTERY TYPE
• Typ 13

ADJUSTMENT RANGE
REMOTE CONTROL

The ICP hearing aid supply for loud workplaces always contains a remote control. This has many functional options:

FUNCTIONS
- Hearing program change
- Volume setting
- Turning hearing systems on and off
- Alarm function
- Button lock

CONNECTION OPTIONS

SMART CONNECT

TV  TELEPHONE AT LOUD WORKPLACE
MUSIC THROUGH EARPHONES
MUSIC
COMPUTER
LISTEN AND PROTECT — AT THE SAME TIME!

THE HA ACTIVE ELECTRONIC EAR PROTECTION WITH ICP FUNCTION

HÖRLUCHS HA ACTIVE

The HA ACTIVE is a new development from HÖRLUCHS, specially made for people with a demanding workplace where communication within the sound range plays a crucial role regardless of hearing capability. So, for example, people with existing hearing weaknesses can adjust the system to their needs. Active electronic ear protection with a fully digital high-tech amplifier with which finely tuned, highly sensitive microphones allow optimal directional and ambient hearing.

The custom-fitted ear protection piece and a special compound technology for locating the receiver and technology in the external ear make for very high passive basic attenuation (32 dB), providing great protection for the ear.

Outstanding is the behavior of the high-tech amplifier technology with impulse sound, such as a blast or a shot (up to 170 dB). The speed of the electronic restriction and opening after the blast occurs in real time, and is therefore optimal for the wearer. The ear wax filter system (HF4 black or CeruStop) protects against avoidable repairs due to moisture and sweat.

However, the HA ACTIVE does not just protect hearing, but also aids in difficult hearing situations, such as communication at the workplace or early detection of soft noises during hunting. People with normal and impaired hearing benefit: The system can be adjusted to individual hearing loss for those hard of hearing (just send in the audiogram). For communication by telephone or mobile device, there is also an optional telephone coil providing direct, clear transmission to the ear.

VERSION 1:
- Size 10 battery lasts for about 30 hours of use
- Volume control (continuous)
- Adjustable to 12 frequency bands (with possible hearing loss)
- Small design (shaped to the ear canal)

VERSION 2:
- Size 312 battery lasts for about 60 hours of use
- Volume control (continuous)
- Adjustable to 12 frequency bands (with possible hearing loss)
- Program button for hearing program
- T coil allows connection for telephone, radio, etc.
- Medium to large shape (concha)

TARGET GROUPS:
- Employees at loud workplaces with a great deal of communication
- Employees with mild hearing loss at loud workplaces
- Police, military, hunters

Approval: DIN EN 352-7
Type: Concha, GG
Material: Acrylic
Passive attenuation: SNR 32 dB

DELIVERED WITH:
The HÖRLUCHS HA ACTIVE comes standard with a case, side detection, CeruStop filter system, serial number and user information.