



# ALS

## Assistive Listening System



This Professional Assistive Listening System with ADA Plaque and neck loops is a multichannel solution (in the 72-76 MHz band) to meet the needs of the Americans with Disabilities Act (ADA) standards for accessible design, useful to make venues of any capacity compliant.

The system can also be used to improve comprehension by people who have difficulty hearing or understanding speech in various settings including meeting rooms, houses of worship, movie theatres, schools, public hearing rooms, and more. The audio is sent wirelessly straight to their ears, avoiding the degrading effects of noise and distance on speech intelligibility. This system can be expanded with as many R-120 Receivers and neckloops as required.

# Components



## R-120 Receiver

- 20 user-selectable channels.
- Superb sound quality.
- LCD screen.
- Innovative and attractive design.
- Robust engineering for maximum reliability and durability.
- Small & lightweight.
- Multiple carrying options: (Belt clip, Neck strap & Velcro arm-band.)
- Channel lock feature.
- 100% digitally tuned.
- Long battery life (up to 55 working hours.)
- Limited lifetime warranty.



## EAR-120 Earphones

Dual earphones specially designed to optimize audio quality on R-120 receivers, featuring a 3.5 mm stereo plug.



## NKL-102 Telecoil Neckloops

- Use with any hearing aid with a T-coil.
- Neckloop creates and inductive loop right to the hearing aid.
- 3.5 mm stereo plug.
- For people with moderate to severe hearing loss.



## T-500 Transmitter

- 17 selectable channels in 72-76 MHz.
- Superb Audio Quality.
- Expandable transmission range of up to 1000ft with external antenna.
- Easy set up and operation.
- Broadcasts to an unlimited number of receivers.
- Multiple inputs and connector types.
- LCD display with backlight.
- Tabletop or rack-mountable.
- FCC/IC approved.
- Limited lifetime warranty.

## ADA Plaque



# Accessories



## CAS-10

- Holds up to 10 Enersound FM receivers.
- Convenient compartment for headphones and other accessories, including a bodypack transmitter and microphone.
- Metal core hinges.
- Nylon latches.
- Integrated handle.
- Strong polypropylene body.
- Convoluted polyurethane foam on lid to gently secure items.
- Custom die cut polyethylene foam divisions.

## CAS-325

- Holds up to 25 Enersound FM receivers
- Convenient compartment for headphones and other accessories, including bodypack or desktop transmitter and microphone.
- Lightweight.



## CAS-25



- Carrying and shipping case for up to 25 Enersound FM receivers.
- Convenient compartment for headphones and other accessories including a bodypack or desktop transmitter and microphone.
- Waterproof, impact resistant, crushproof, dustproof.
- Powerclaw™ latching system.
- Soft grip foldable handle.
- Lightweight NK-7™ resin & 100% stainless steel hardware.
- Automatic pressure release valve.
- Padlockable and stackable.
- Convoluted polyurethane foam on lid to gently secure items.
- Custom die cut polyethylene foam divisions.

# System Set-up

## Audience



**R-120 receivers  
with headphones  
or Neckloops**



**T-500  
Transmitter**



**Optional  
PA System**

# Technical Specifications

## T-500 Transmitter

- Operating Frequency: 72.1-75.9MHz.
- Number of Channels: 17 Selectable.
- Frequency Deviation:
  - Selectable, Wide: +/- 75kHz or
  - Narrow: +/- 25 kHz (Max Deviation.)
- Frequency Accuracy: +/- 0.005%
- Transmitter Stability: +/- 20ppm.
- Output Power:
  - Hi: 80,000uV/m at 3m.
  - Low: 40,000uV/m at 3m.
- Antenna: 50 ohm rubber ducky antenna or optional remote antenna.
- Antenna Connector: Modified TNC.
- Compliance: FCC part15, Industry Canada.
- Frequency Response: 100Hz ~15KHz
- Signal to Noise Ratio: 70db.
- System Distortion:<2%(THD) at 80% dev.
- Audio Input 1: 3-Pin XLR and ¼" (TRS) combination jack for MIC or LINE level Balanced or unbalanced. Nominal input level 0/56dbu (0.77V/1.3mV) (line/mic). Phantom Power:12VDC PIN 2&3 on XLR or Tip and Ring on ¼" TRS Jack.
- Audio Input 2: RCA Jack, unbalanced Line Level -10dBu nominal, 100KΩ.
- External Monitor In: RCA Jack, unbalanced, Line Level -10dBu nominal, 100KΩ.
- REC Output: RCA Jack, unbalance output, Line Level -10dBu nominal, 10 ohms.
- MIC Input: Front panel: 3.5mm 1/8" TRS jack, supplies +DC on tip for electret mics.
- Audio Processing:signal compression 2:1.
- Headphone Out: 3.5mm stereo TRS jack, adjustable output level, Max Power 61mW @8ohm, Impedance: 4~16ohm.
- Power Supply: In:100~240VAC, 50-60Hz., Out:15VDC, 1A. Connector: 5.00mm OD, 2.5mm ID, barrel type.

- Temp. Operation: 23F to + 104F.
- Temp. Storage: -4F) to + 140F.
- Humidity: 0~95% Relative Humidity.
- Dimensions (DxWxH): 5" x 5.5" x 2.36"
- Unit Weight: 1.2 lbs. (0.54 Kg.)
- Shipping Weight: 2.2 lbs. (1.1 Kg.)
- Rack Mounting: 1 1/2 rack space height, 1/2 rack space wide. One or two transmitters can be mounted in 1 1/2 rack space with optional rack mounts RM-501 or RM-502.

## R-120 Receivers

- Batteries: (2) alkaline AAA (1.5V x 2) Or (2) NiMH AAA rechargeable.
- Battery life:
  - Up to 55 hours of use w/alkaline batteries.
  - Up to 40 hours w/NiMH rechargeable.
- Number of channels: 20 user-selectable.
- Frequency range: FM 72.0 to 76.0 MHz.
- FM deviation: +/- 75 KHz.
- De-emphasis: 75 uS.
- Sensitivity: 1.12 uV at 12 db SINAD.
- Signal to noise ratio: 55 db at 100 uV.
- Audio frequency response: 80 Hz to 12 Khz.
- Audio power:33 mW +33 mW at 32 ohms.
- Audio connector: 3.5mm stereo phone jack.
- Current consumption: 22 mA nominal.
- Dimensions: 3" Diameter,1.22" High
- Weight without batteries: 2.3 ounces (65g.)