

Assistive Hearing System for NOVA's Hearing-Impaired

Names: Archer Heinzen & Tim White

1. **Amount:** \$1,600.00. This includes the system hardware quote from a local vendor (see attached), plus a small amount for extra cables and batteries.
2. **Why needed:** In NOVA's Kenmore liturgy space hearing-impaired individuals frequently experience difficulty in hearing the homilies, dialogue responses and prayers of the faithful. In recent months this has been partly alleviated by passing the microphone to each speaker during the dialogue, but use of the mic has been sporadic during prayers of the faithful. Moreover, depending on how the speaker holds the microphone, it can still be hard to understand speakers during the dialogue, and without a mic it is still impossible for many to hear the prayers. The prayers are the way we know what is going on with each other and if you don't understand the joys and sorrows of other community members, you miss a lot. Our assumption is that proper mic use during liturgy would benefit all present, and that assistive listening technology would be a significant benefit to those most hearing impaired.

Description: An assistive listening system (see attached description) helps hearing-impaired individuals to better hear what is said during a talk, meeting or liturgy (many churches and theatres use a similar system). It does this by wirelessly broadcasting audio from a fixed base transmitter to users. Each user would have a small receiver into which an ear speaker (earbuds or earphones) is connected (similar to using an iPod).

The assistive hearing system would operate by tapping into NOVA's existing PA system, and is portable if NOVA is celebrating outside Kenmore and the existing sound system is transported to the other site (e.g. Holy Week liturgies). It will not work at Lacy Woods Park since there is no AC power there. This system is useful whether or not users have a hearing aid. If users have a hearing aid with telecoil feature there is a neck loop with the receiver which can communicate directly with the user's hearing aid without the need for a separate ear speaker. The system is an efficient way to address the problem in that the total cost is far less than the cost of one individual hearing aid.

The initial system will accommodate 4 users and include one transmitter and 4 receivers each with an ear speaker. It can be expanded to more users as needed (extra receivers cost about \$150 each).

NOTE: In order for the assistive listening system to be effective it is important that the mic during liturgies always be passed to those who speak prayers and reflections.

3. **System Management:** The system equipment would be stored with NOVA's existing sound system. Music group members would assume responsibility for setup and operation of the system. Additional information on the system is available at the manufacturer's web site: Listen Technologies Corporation www.listentech.com. Purchase of the system would be through a third party: CTSI of Chantilly, VA.



4151 Lafayette Center Dr, Ste 700
 Chantilly, Virginia 20151
 Bob Garrison : 703.633.1447

Tim White
Listen
 Assistive Listening System

6 September 2016

Contact:
 Timm White
Phone:
 703-861-6745

Customer:
 Tim White
Email:
 jtw1950s@gmail.com

CTSI is pleased to provide this quote for materials listed below. Shipping is not included and will be added to the total. Installation will be done by customer.

CTSI is a Veteran Owned Small Business and SWaM Certified
 Cage Code: 0F4N9 DUNS: 053380457 DCJS: 11-3672

Project Proposal

| Item # | Manufacturer | Qty | Model | Description | Price Each | Price Ext. |
|---------------------|--------------|-----|-----------|---|-------------|-------------|
| Video System | | | | | | |
| 1 | Listen | 1 | LS-48-072 | Premiere Level II Stationary IR System w/ 1-LT-800-072 Transmitter, 4-LR-400-072 Receivers, 1- LA-326 Rack Mount Kit, 4- LA-164 Ear Speaker, 2- LA-166 Neck Loop, 1- LPT-A107-B Dual RCA to Dual RCA Cable 6.6 ft. (2 m), 4- LA-361 High Capacity AA Alkaline Batteries, 1- LA-304 Assistive Listening Notification Signage Kit | \$ 1,416.19 | \$ 1,416.19 |
| 2 | Listen | 1 | LA-125 | Antenna Kit for Rack Mount | \$ 42.25 | \$ 42.25 |

| Summary of : | Assistive Listening System | Totals |
|--------------------------------|----------------------------|-------------------|
| Equipment | | \$1,458.44 |
| Project Total, Excl Tax | | \$1,458.44 |
| Sales Tax : 6.00% | | \$87.51 |
| Project Total, with Tax | | \$1,545.95 |

- Exclusions:**
 1. Shipping.
 2. Installation.

Payment Terms : Progress Billing, on approved credit

| | |
|-------------------------|-------------------------------|
| Purchase Order # | Date of Acceptance |
| | |
| Tax Exempt ID # | Print Name & Title |
| | |
| Options Selected | Authorized Signature |
| | |

Email Signed Proposal to: bgarrison@ctsi-usa.com or Send to CTSI Fax: 703-631-3396

Quote Terms: All material and labor carry a 1-year warranty after installation, or manufacturer's warranty if less than one year on material. Customer agrees that if payment is not made as specified in the conditions portion of this contract, they will pay interest at 1% per month plus reasonable attorney fees needed in the collection of past due invoices. All price quotes reflect payment by cash, check, or wire transfer. Payment by credit card or other methods may incur additional charges that will be added to the invoice. Cancellation by customer will result in charges for labor, material restocking fees and shipping. If customer is tax exempt, they must provide the necessary identification number next to their acceptance of this proposal. If customer is not tax exempt, they assume all liability associated with the appropriate tax, unless included in this proposal. All work is to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements are contingent upon strikes, accidents, or delays beyond our control. Owner is to carry fire, tornado and all other necessary insurance. For a period of one (1) year following the date of any Order under this Agreement, neither CTSI nor customer shall solicit employment or hire any employee of the other who is directly involved in the performance of this Agreement. This proposal may be withdrawn by us if not accepted within 30 days. Material is FOB origin.



Configuration:

- LS-48-072 Listen Premiere Level II Stationary RF System (72 MHz)
- LS-48-216 Listen Premiere Level II Stationary RF System (216 MHz)

Product Overview:

The LS-48-072 Listen Premiere Level II system has everything you need for an easy system to specify, install, operate, and meet legislative requirements for assistive listening. Great for larger venues to deliver an optimum range of up to 1,500 ft. (457.2m). Includes our LR-400 digital display receivers, which make it easier to monitor channel selection, battery level, and signal strength. Ideal for applications when assistive listening, single channel language interpretation, and personal use are desired. Venues will benefit from managing the LR-400 when locking on one channel is needed, but programming multiple channels are not or if the receiver channel is not changed regularly by the user. The included neck loops and signage ensures the system meets the minimum legislative requirements for venues with a capacity up to 100.

Highlights:

- Ensures public venues deliver an enriched listening experience while meeting new legislative requirements for assistive listening
- Superior audio quality – 80 dB signal-to-noise ratio (SNR), setting the industry’s sound quality standard
- Offers 57 digital channels – Listen receivers are digitally-tuned so the transmission won't drift
- Look & Listen™ LCD shows channel, battery status, and signal strength
- Limited Lifetime Warranty with hassle-free support
- Long transmission range ensures coverage for the entire venue

- Includes:** One (1) LT-800-072-01 RF Transmitter (72 MHz)
 One (1) LA-122 Universal Antenna Kit (72 MHz and 216 MHz)
 One (1) LA-326 Universal Rack Mounting Kit
 Four (4) LR-400-072 Portable Display RF Receiver (72 MHz)
 Four (4) LA-164 Ear Speaker
 Two (2) LA-166 Neck Loop
 One (1) LPT-A107-B Dual RCA to Dual RCA Cable 6.6 ft. (2 m)
 Four (4) LA-361 High Capacity AA Alkaline Batteries (2)
 One (1) LA-304 Assistive Listening Notification Signage Kit

| Product Specification: Listen Premiere Level II Stationary RF System (72 MHz) | |
|---|-------------|
| Physical | |
| Shipping Weight | 24.0 (10.3) |