

LR-400

FM Display Receiver

Benefits...



Look & Listen™ Display –

Easily verify channel selection, whether the channel is locked, battery level, and RF power using the LR-400's LCD. Ease-of-use has never been better for users, or set up for installers!

SmartCharge™ –

Charging circuits are conveniently built into Listen's portable transmitters, saving money and hassle by eliminating the cost of external battery chargers and extending rechargeable battery life. Simply plug in a wall transformer; batteries automatically recharge within the unit and won't overcharge. This also eliminates the need to remove the batteries or a charger at a specified time.



Multi-Channel Selectability means Compatibility and Versatility!

Each Listen receiver offers 57 wide and narrow band channels at 72MHz or at 216MHz. Channels even match commonly used channel numbers and letters. Thus, this receiver is compatible with similar type FM transmitters. This means limitless application possibilities and assurance in finding a clear transmission channel.

Seek! Since Listen receivers offer 57 channels, this exclusive "seek" capability allows a user to walk into a facility and press the receiver's SEEK button to automatically find a transmitting channel; perfect for personal use!

Ideal for Assistive Listening, Language Translation, Tour Groups, etc.

The LR-500 features 57-channel selectability, extreme ease-of-use, complete accessories, and a 216MHz band option. Thus, this receiver is ideally suited and can be legally used for a wide range of applications at 216MHz. As always, both the 72MHz and 216MHz bands can be used for assistance for hard of hearing people.

Rock-Solid Performance! This receiver is digitally-tuned so reception won't drift – assurance that when you select a channel, it stays there, for consistent, high quality audio.

Works Where Others Won't – Because Listen products provide the best RF sensitivity and selectivity in the industry, transmission range is longer. This technology also provides better rejection of interference.

We HEAR you!

Earphone plugs in here and can be securely fastened (accepts mono or stereo jacks)

Lit LED = 'power on'
Flashing = 'battery low'
2X Flashing = 'charging'

Awesome!

Look & Listen™ Display – at-a-glance verification of channel selection, battery level, and RF signal strength (see page 5 for details)

ON/OFF and volume control

Denotes 72 or 216MHz receiver

The LR-400's CHANNEL and SEEK features are behind lockable door

Exclusive Listen **SmartCharge™** technology automatically charges the battery and shuts off when done, preventing overcharge and increasing battery life

Plug in wall transformer here to operate the unit and/or charge the batteries

Exclusive belt clip "loop" prevents unit from slipping off

Mechanical lock can prevent users from opening the door to channel controls and battery compartment

Tune to different channels using UP and DOWN buttons

Fast, no-fuss removal and replacement of batteries, if required

Door latches and can be locked shut

To find a channel with transmission press "SEEK" (placement behind the door prevents users from changing channels)

Switch to select alkaline or NiMH rechargeable batteries

Listen™

LR-400 Applications

Use Listen's Display Receiver when you need...

- To prevent users from changing channels
- The ability for the facility to tune operating channels and then lock out the user from changing channels
- Clear audio without drifting
- Automatic "Seek" to find available in-range transmission channels (under door)
- At-a-glance channel verification and battery level status
- To use for applications such as:
Language Translation, Theaters, Schools, Courtrooms, Stadiums/Arenas, Meeting Rooms, Places of Worship



The LR-400 has channel and SEEK buttons behind the door to prevent users from changing channels

COMPARISON

The LR-500

- Allows programming so users can only tune to certain channels
- Provides exterior access to SEEK and channel selection capabilities, thus, it's ideal for users who need to conveniently change channels or easily SEEK to find a channel with a transmission
- Offers maximum flexibility
- Is ideal for personal use, schools, language translation, museum, and high interference applications

The LR-400

- Accesses and displays all 57 channels (unless you lock it on only one channel)
- Has channel up and down and SEEK buttons behind the door, limiting access to channel changing
- Is ideal when users do not need to (or you do not want them to) change channels
- Is ideal when the receiver is tuned to the same channel most of the time
- Is ideal for places of worship, tour groups, theaters, and stadiums
- Is lower in cost than the LR-500

Easy Custom Ordering

Listen
RF Display
Receiver

LR-400

- 216

- 1

M

D

0

0

Other Other

Select Frequency:

072

72MHz frequency range for assistive listening

216

216MHz frequency range for assistive listening, language translation, or tour group use

Select Power/Charging Transformer or Cable:

1

117 VAC Wall Power/Charging Transformer



3

12VDC Automobile Power/Charge Cable

0

None

Select Battery:

(This unit uses two AA batteries.)

A

High capacity alkaline disposable batteries lasting 40+ hours



M

NiMH rechargeable batteries - rechargeable within unit using transformer. Lasts 20+ hours between charges (Charging transformer or charging tray needed for in-unit recharge.)



0

None

Select Earphone:

A

Single Ear Bud

B

Dual Ear Bud

C

Ear Speaker

D

Stereo Headset

E

Neckloop

0

None



Order Number Example: **LR-400-216-1MD00**

This order number indicates an LR-400 Display Receiver capable of receiving 57 channels at 216MHz, and has a power/charging transformer, two NiMH rechargeable batteries and a stereo headset.

Listen™

Specifications

LR-400 Display Receiver Specifications

RF Frequency Range:

72MHz: 72.05 - 75.95MHz

216MHz: 216.025 - 216.975 MHz

Sensitivity:

.6uV typical, 1uV maximum for 12dB SINAD

Max deviation at \pm 70kHz

Signal to Noise ratio:

Wide band channels, 60dB

Narrow band channels, 54dB

Frequency Response:

100Hz to 15KHz, \pm 3dB

Distortion:

< 2% THD

Squelch:

40dB with loss of RF signal

Antenna:

Uses headphone cable

Available Channels:

72MHz: 17 wide band, 40 narrow band

216MHz: 19 wide band, 38 narrow band

Physical Dimensions:

3" W x 1"D x 5"H

(7.6cm W x 2.5cm D x 13cm H)

Weight:

< 1 lb. (.45 kg) with batteries

Door:

Channel and Seek buttons are located behind door, door can be locked

Programmability:

User functions can be locked by pressing the SEEK button for >3 seconds

Power:

Two AA batteries, alkaline or NiMH rechargeable; external power connector 8-9 VDC, tip positive, <300mA

Battery Charging:

Fully automatic, <12 hours

Battery Life:

40 hours with high capacity alkaline, 20 hours with high capacity NiMH

Headphone Output:

750mV RMS maximum at 25kHz deviation, 32 ohms, 3.5MM mono or stereo

The logo for Listen Technologies Corporation, featuring the word "Listen" in a bold, teal, sans-serif font. A small trademark symbol (TM) is positioned to the upper right of the letter 'n'. A teal circle is located at the bottom right of the logo.