Auri™

TECHNICAL INSTALLATION

AURI™ USER GUIDE – RX1 COMMISSIONING TOOLS

REQUIRES FIRMWARE V1.4 OR LATER

AURIAUDIO.COM

AMPETRONIC | LISTEN TECHNOLOGIES

ACCESSING THE RX1 MENU

Access the RX1 Menu by pressing the Power and Volume Down buttons at the same time and hold for >2 seconds. You will see the following screen:

Menu

Use the volume buttons to navigate to “Tools” (press the volume down button two times).

Tools Menu Option

Press the right soft button (under the check mark) to select.

Menu: Tools Menu List

Press the right side soft button again.

Menu: Commissioning Tools List

There are two options on the Commissioning Tools List:
TX Survey and Signal Quality

TX SURVEY

The TX Survey tool scans the venue to to determine if the locations of the transmitters provides the necessary coverage for the room or venue.

The TX Survey tool will detect and report the data for all Auri transmitters in the venue.

To enter the TX Survey tool, navigate to "TX Survey" and press the right soft button (under the check mark) to select.

Once the values are displayed the user can see three data points: Symbol, RSSI Level, and TX #.

Note: The TX Survey tool does not need the RX1 receiver be connected to a broadcast stream.

1. **Symbol**
   - Solid check mark indicates a strong signal.
   - Flashing check mark indicates a fair signal.
   - "X" symbol indicates a weak signal.

2. **RSSI level**

   When the venue is empty this value should be better than 60dB.

3. **TX #**

   Shows the number of transmitted broadcasts. As an example, (a single TX2N will have both stream 1 and steam 2, reporting the number "2").

USING THE TOOL

Verify that you have the correct positions and number of transmitters in a venue.

Turn on one or more TX2N transmitters and perform a site walk. If the tool indicates an "X" at any time you need to reposition the transmitters or consider adding another one to provide adequate coverage.

The tool takes time to update due to the nature of the sample size and true running average measurement technique. For the most accurate reading, it's best to wait a few seconds to let the signal stabilize.

SIGNAL QUALITY

The Signal Quality tool works when you have selected a broadcast.

Once you are connected to a broadcast stream, access the user menu and scroll to Signal Quality. You will be able to evaluate the signal strength, quality of reception and interference.

The Signal Quality can be measured when the venue is empty or in use. Note any significant differences between when the venue is empty or being used to determine if any changes need to be made to the position or number of transmitters.

Using the Tool

When launching the Signal Quality tool, allow 5-6 seconds for the receiver to stabilize and provide accurate readings, and we recommend you use headphones during the test to hear the audio as the end user.

Once values appear, you will see the following information: RSSI Value, a bar graph showing the quality level, the current status of the signal, an interference rating symbol.

Note: The venue should be empty when performing this test, to provide optimal signal levels without obstructions.

Note: Perform a site walk throughout the venue to determine the signal strength and highlight any areas that might need to be adjusted.

*If you get an "X" symbol at any time, that is an indication you need to reposition your transmitters and/or add additional transmitters for better coverage.

1. **RSSI Value** (on the left of the screen).
2. **A bar graph showing** the quality level will appear as filled boxes (the more boxes filled, the better the signal).
3. **Text representing** the current status.
4. **Interference symbol:** Indicates possible interference or significant packet loss correction.

COMMISSIONING GUIDELINES: INTERPRETING SURVEY RESULTS

Coverage Goals

Discuss the required coverage with the venue: full coverage, partial coverage, multi-room spaces, or large spaces.

Ideal Outcome

No areas on the survey should display an "X", which indicates the signal is sufficient in an empty venue.

Interpreting "X" Locations

If "X" markers appear on the survey:

- Review these areas with the venue owner.
- Determine if the coverage meets expectations or if transmitter placement should be adjusted.
- An "X" does not always mean no signal, it may still connect, but with reduced quality.

SIGNAL QUALITY TOOL

Experiencing Poor Signal?

First, confirm whether a site survey was conducted. We offer a design service that provides a venue radio frequency coverage simulation using our devices.

Post-Installation Check

After installation, perform a site walk and record RSSI readings in multiple locations. Compare these results to the radio frequency coverage map to confirm with expected coverage.

Check Location Coverage

Ensure the tester is in an area marked for coverage on the floor plan. If the signal is poor in a covered area, compare live test results with the radio frequency map.

Unexpected Poor Quality Despite High RSSI

This may indicate interference. Wireless technologies like Wi-Fi or DMX can disrupt signal quality.

Troubleshooting Interference

Coexistence issues vary by venue. If possible, test by turning other services off/on to identify the source. Work with the venue owner to improve coexistence, options may include adjusting power levels or frequency bands.

Support can be requested here:

North America: support@listentech.com **ROW/Europe: support@ampetronic.com**

AMPETRONIC LISTEN TECHNOLOGIES

Phone: Americas +1-801-233-8992 Toll-free: +1-800-330-0891
ROW: +44 (0) 1636 610062 auriaudio.com