

Technical Bulletin #1

This document provides best-practice recommendations for using your X-System. If you have any questions after reviewing this document, please consult the additional product documentation available at <http://www.coachcomm.com/x-system-x2-support/> or call Customer Support at 1.800.749.2761.

Updating Your System to Version 1.1

Have you updated your system to version 1.1? Doing so will help ensure your coaches' communications have all of the latest improvements and added features. Visit the [X-System Firmware Update Information](#) page for instructions on performing this important update if you have not done so already.

Proper Antenna Orientation

For best performance, after updating your system to version 1.1, we recommend a change in your system's antenna settings. This requires a change within the system's configuration file using our X-Ware software. After making these setting changes, if your system uses detachable whip antennas, only a single antenna will be needed on each Radio Transceiver. See the [How to Change Antenna Diversity Settings document](#) for more information.

After updating your antenna settings you will need to verify everything is working properly by doing a quick range test:

1. Turn on all Radio Packs (RPs) and ensure they log in by observing that the Link Quality (LQ) numbers on each RP's display are in the 90s.
2. Walk test each RP approximately 20–30 feet from the Radio Transceiver (RT) and ensure those LQ numbers remain in the 90s for each RP.

» If the LQ numbers drop below 90, contact CoachComm Customer Support at 1.800.749.2761 for assistance.



Figure 1: Radio Pack Screen - LQ Numbers

Mounting Your Antennas

Important! Your antenna is the most vital part of system setup, and improper setup or location of your antenna(s) can result in poor performance or even system failure. Poorly positioned antennas can still provide adequate signal pre-game but can hinder communications during the game.

Mount Antennas Outside Whenever Possible: Always make sure there are no obstructions between the antenna and the field. The most common obstructions are windows. Even though you can see through windows, they can still hinder your wireless signal due to clear metallic-based coating.

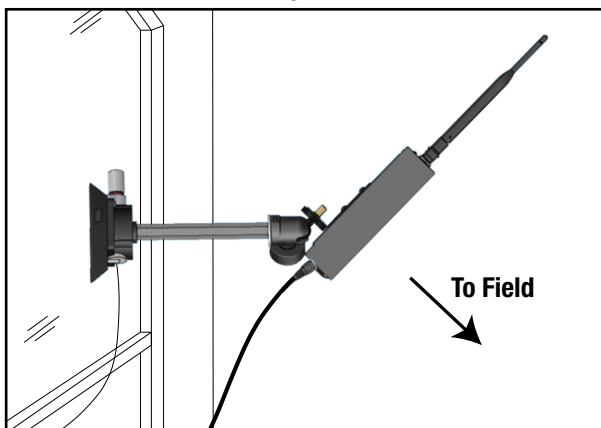


Figure 2: Mounted RT with Whip Antenna

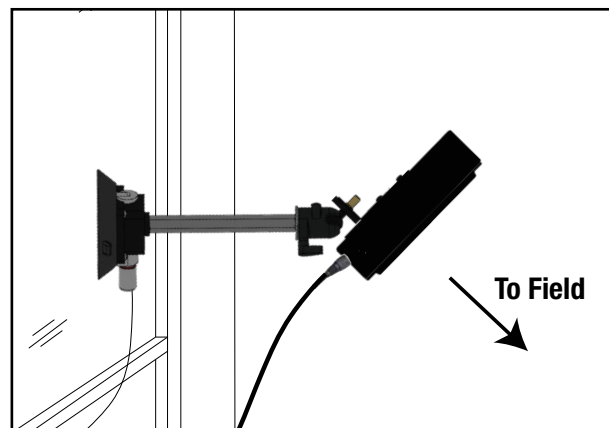


Figure 3: Mounted RT with Flat Directional Antenna

- Whenever possible, open windows (tinted or not) to remove any obstruction between the antenna and the field. This will provide the best possible environment for optimal performance.
- If the press box windows do not open, system performance may be affected, depending on the type of window. If possible, use provided extended length cables to relocate your antenna outside to achieve better performance.

Point The Antenna Logo Toward Your Team: Using either the clamp or suction cup, secure the RT bracket so that each RT's logo points toward the center of your team's coaches' box.

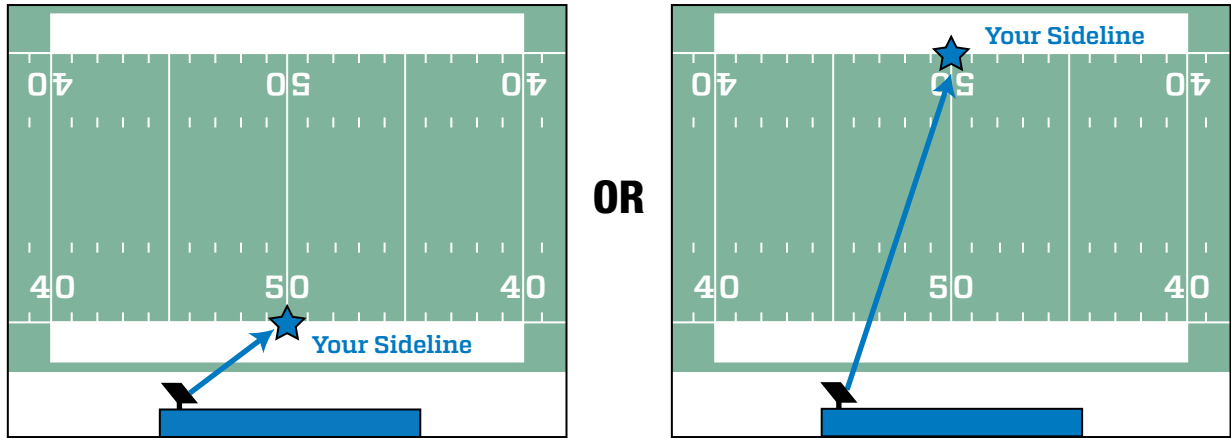


Figure 4: Antenna Pointing Toward Center of Coaches' Box

Suction Cup and Clamp Mounts: Use the clamp or suction cup to mount your antennas. The suction cup may be attached to the outside of a dry window or to a flat, dry surface (such as a table top), and you should always attach the suction cup's safety cable to a fixed object. See [page 26 of the X-System Operating Manual](#) for mounting hardware details.

TIP: If the ball mount knob is touching the bracket and preventing you from fully tightening it, you can reposition the knob (without loosening any mount hardware) by pulling the knob outward and rotating it to a better position. See [this ball mount video](#) for a tutorial.

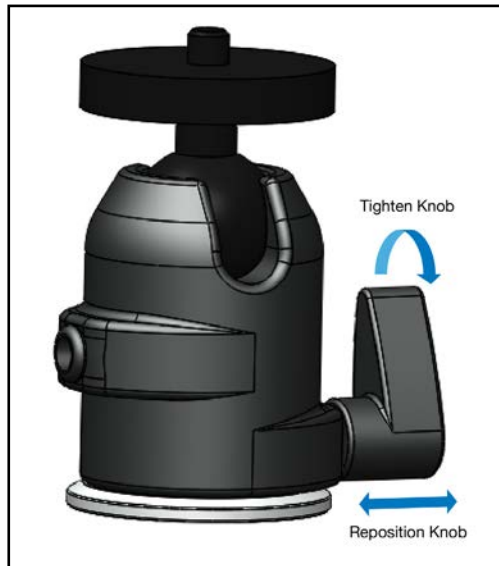


Figure 5: Ball Mount Knob