

Technical Bulletin #1

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

X-System and CrewCom Synchronization

The need for a robust 900 MHz wireless intercom system on game day goes beyond that of coaches' communications. Stadium operations and production crews are often in need of reliable communications in these challenging game day environments, and much like X-System for coaches, CrewCom, the production version of the X-System technology, is quickly becoming a go-to solution for these crews. As the season progresses and as bowl games are announced, it will be critical to identify whether a venue may be using CrewCom for the event.

Fortunately, X-System and CrewCom have been designed to offer cross-platform synchronization. This synchronization is achieved by connecting X-System to any collocated CrewCom system using CAT-5 or fiber optic cabling. In addition, CoachComm will provide the necessary firmware update to your X-System to ensure adequate synchronization is achieved. It is important to note that the mechanisms for synchronization of these two products were conceived and executed to assure complete security of your system's audio/communications, while also allowing for connection to another system for sync purposes. For more information regarding the update and synchronization, contact CoachComm Customer Support at customer.support@coachcomm.com or 1.800.749.2761.

Antenna Mast Height

In past seasons, and more frequently, this season, the X-System mast height and its obstruction to field views has been questioned by other game day and production personnel. X-System's design and deployment has taken into consideration variables such as competing wireless traffic, antenna propagation, transmit power, and line-of-sight obstructions (player bodies.) These variables, combined with what is legally allowed for devices such as X-System, dictate higher antenna positioning for best Radio Pack signal strength and overall system performance.

We understand and appreciate the obstruction issue. While our general recommendation is always the higher the better, there are slightly lower masts being deployed in our X-System "ATA" package. This mast extends 12 feet from the ground (6 feet shorter than X-Cart's mast) and has been proven to perform similarly in the same environments. The current mast provided with X-Cart packages could be shortened by simply extending one less mast section, but the mast index pin would not be able to lock in the proper orientation. The lack of indexing will make the mast more susceptible to rotating out of position. If you would like to experiment with a one-section-shorter mast deployment, we recommend that you monitor the mast orientation periodically to avoid this potential issue. At the end of the day, only you (the customer), can determine if the reduction in signal strength (if any) resulting from a shortened mast is acceptable or not. (The diagram on page 2 further illustrates this mast height comparison.)

This suggestion only applies to X-Systems packaged in the X-Cart, and X-System "ATA" users should continue to use the maximum height of their current mast.

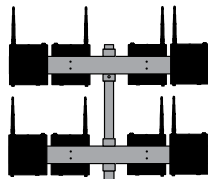
**X-Cart Mast
Height**

18 ft.

**Shortened*
X-Cart Mast
Height**

(*Shorten by extending one
less mast section.)

15 ft.



12 ft.

**ATA Mast
Height**



**Drawing Not To Scale
Measurement From Ground**

CoachComm, LLC
205 Technology Parkway
Auburn, Alabama 36830 USA
www.coachcomm.com
Toll-Free 1.800.749.2761
Fax 1.888.329.2658

COPYRIGHT © 2019 CoachComm, LLC. All rights reserved. The X-System™ word mark is a trademark of CoachComm, LLC. All other trademarks are property of their respective owners. Document Reference: 2019.11 D0000541_A