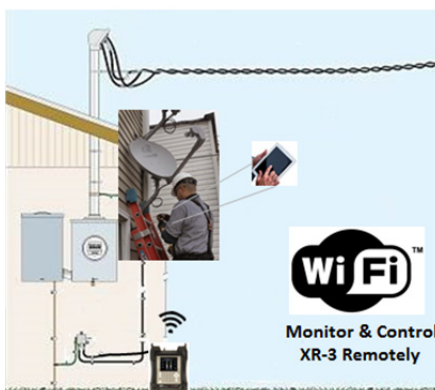# XR-3 Remote

Companion iOS Phone/Tablet App for XR-3

Rev 5 March 2019

Purpose: The XR-3 Remote hands free iOS app is designed to allow you to wirelessly monitor and control your XR-3 satellite meter from your iPhone or iPad.

Applications:

- When troubleshooting an existing satellite system whose dish antenna reflector is mounted up high (i.e. on roof or eave mount), connect the XR-3 satellite meter at the ground block location and power on the XR-3. Then pair your XR-3 meter to your iOS mobile device via WiFi. Climb the ladder with your phone fastened to your forearm, check for proper alignment of or realign dish antenna reflector while you monitor the signal level and quality on the phone with the XR-3 Remote app. This method offers safety and speed benefits for the satellite technician. You don't have to first remove the LNBF head and temporarily connect short coax jumper cables from the LNBF to your satellite meter. The XR-3 meter's screen is mirrored on your mobile device, allowing you to identify the satellite, toggle to different satellites and transponders and measure RF level, demodulated signal quality, and LNB LO drift.

- When troubleshooting coax cable in a building, leave your XR-3 at one point in the network while you walk to inspect and resolve an issue at another point in the network. Then remotely monitor the XR-3 using the XR-3 Remote app on your mobile device to confirm the issue has been resolved.

What do you need to get started?

1) iPhone, iPad, or iPod touch running iOS version 10.3 or later
2) WiFi Enabled XR-3 Modular Test Instrument (hardware version 3.01 or 3.05) with a related satellite meter module. To confirm the hardware version of your XR-3, press MENU, select Versions from the Main Menu and refer to the Base HW Version field. If your XR-3 doesn't have hardware version 3.01 or 3.05, contact Applied Instruments for a quote to have it modified.

Distance Reach: Since it operates using traditional 2.4 GHz 802.11 Wi-Fi technology, approximate reach is up to 150 feet indoors and up to 300 feet outdoors, but depends on solid walls, objects, and terrain between the XR-3 meter and phone/tablet.

How to obtain the app: Purchase and download the XR-3 Remote app from the iTunes store

XR-3 Meter functions able to be monitored and controlled remotely: Satellite main Run screen and AZ/EL screen. Other functions (more screens) may be enabled in the future via software update.

How to link your phone/tablet to the XR-3:

1) Power on your XR-3.
2) Turn on Wi-Fi on your iPhone or iPad if it's not already enabled.
3) When searching on your iOS device for the wireless network that you'd like to join, select the SSID (name) of your XR-3 and enter the password.
4) In your XR-3, you can view and modify its related SSID and password by selecting MENU --> WiFi --> WiFi Menu --> WiFi Options --> Hands Free Cfg.
5) On your XR-3, exit the WiFi menu to return to the meter's Run screen (where your bar graphs are shown)
6) On your iPhone or iPad, open the XR-3 Remote app. The phone will sync with your meter and your meter's main Run screen display will be mirrored on the phone.

XR-3 Remote App Functions

The app functions in both portrait and landscape modes.

The user interface on the iOS app is the same as the interface on the XR-3 meter.

There are three or four buttons at the top (in portrait orientation) or along the left side (in landscape orientation):

1) Info: Provides app version number and contact info for Applied Instruments. Call or email Applied Instruments for technical support about the XR-3 Remote app and/or the XR-3.
2) Screenshot: Capture a screenshot of the app and save it to your Photos albums.
   Note: To be able to save screenshots, you will first have to grant Photos permission to the app by going to Settings →Privacy →Photos →XR-3 Remote or by going to Settings → XR-3 Remote → Photos.
   If prompted, turn app permissions ON for Phone and Storage and Photos.
3) Display Settings – Choose whether to keep the screen on all the time while using the app (overrides phone sleep settings) and whether to lock the screen orientation to portrait, landscape-left, landscape-right, or auto-rotate.
4) Help – Provides instructions on how to connect your mobile device to the XR-3

Note: Presently only the AZ/EL, LNB, ID, Sound, Enter, and Arrow buttons are active in the app. Other soft-keys may be enabled via future app and meter software updates.