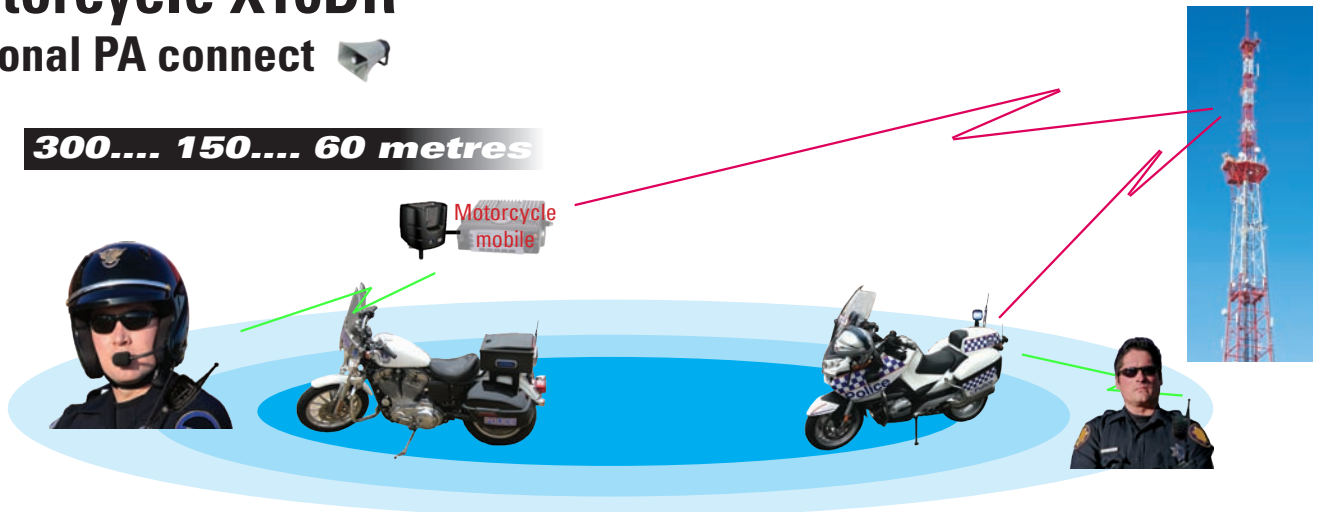


## Application Note 6

### Motorcycle X10DR Optional PA connect



One of X10DR key design criteria was to ensure motorcycle users would be able to enjoy the full benefit of the secure wireless microphone whether on, or off the bike. When on the bike, the officer need only press the traditional handle bar PTT button to talk thru the helmet's microphone connected to the X10DR speaker mic which then wirelessly connects to the X-ponder connected to the mobile radio mounted on the bike. When the officer leaves the bike, they can choose to leave their helmets on and press the X10DR Mic's side PTT button to talk. Nothing to un-plug! Alternatively, the officer can unplug their helmet, remove, and use the X10DR Mic like a tradition remote speaker microphone. No longer will the officer need to return to their bike to do a license check, whilst staying in complete radio contact when at their most vulnerability. Importantly they can stay ready to mount the bike and make pursuit if they need to at any time.

Additionally, a special function box can also be installed to also allow the X10DR to access the motorcycle's Public Address system so as to allow the officer to talk over the bike's PA system by simply pressing the X10DR microphone's orange button when away from the bike. This application is perfect for when an officer needs to direct traffic at an accident scene and needs at time to tell "observers" to move on.

When used with the XFB unit the officer must first press the PTT and then press the orange button for >1 second to activate the radios emergency facility if used.

The XFB-MR special function box connects to the host radio via a radio model specific XMC series interface cable. The XFB-MR connects to the vehicle PA system via an XMC-GEN generic interface cable. The XMC-GEN cable provides adjustable mic level audio to the input to the vehicle public address system along with a switched ground output to enable the public address. The X10DR connects to the XFB-MR via a XIB-CK cable

Wireless Pacific recommend use of our **multi-polarity antennas** so that the best possible coverage is provided to the X10DR user. Multi-polarity antennas provide superior coverage in non 'line of sight' coverage situations, especially when talking into concrete walled buildings or around corners or other physical obstacles to line of sight communications.

