



## CHICAGO POLICE - VIDEO SURVEILLANCE CASE STUDY



Since 2003, the Chicago PD has strategically installed video surveillance camera systems on 25-foot poles in high-crime areas throughout the city with impressive results. The camera systems are actually bullet-proof boxes that include a sophisticated video camera, in addition to Mountain Secure Systems wireless mesh routers. The surveillance systems are called PODSS™, a product of Avrio RMS Group, a system integrator offering advanced video surveillance solutions. The video surveillance cameras transmit real-time video at 30 frames per second, with a television quality picture, to a police operations command center via the wireless mesh network. Best of all, the video cameras can also be remotely controlled to focus on specific incidents.

According to Paul Zucker of Avrio RMS Group, "With the wireless 4.9GHz mesh routers, surveillance video travels virtually interference free on the 4.9GHz licensed Public Safety band, free from unlicensed WiFi interference. The immediate result is noticeably enhanced video quality." Previously, the unlicensed 5.8 GHz band was used for most of the mesh, but there is enough WiFi activity in Chicago for

interference levels to occasionally degrade the video signal. The 4.9GHz band is licensed specifically for Public Safety use in the United States, and only government-operated systems may use it.

Zucker has been pleased with the robust nature of the Mountain Secure Systems wireless products, "Mountain Secure Systems' routers are secure, highly reliable and are easily managed remotely because of the advanced application software." As of 2011, Avrio RMS Group has installed approximately 1100 wireless routers in Chicago.

Police officials say the cameras have been critical to the city's success in reducing street-based drug dealing that leads to gang violence. Since the inception of this wireless video surveillance network, crime rates have been reduced in monitored areas by 72%.

These impressive statistics result from a series of initiatives that include the use of Mountain Secure Systems mesh technology, camera surveillance, street intelligence and community feedback to deploy resources in areas prone to violence.

### THE SYSTEM INTEGRATOR: AVRIO RMS GROUP

#### The Challenge:

Mission critical video surveillance over broadband wireless mesh in high crime areas of Chicago, IL.

#### Solution:

Mountain Secure Systems wireless mesh routers - coupled with a sophisticated camera system.

#### Results:

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