

Wireless Solution Drives Down Climbing Crime Rates and Increases Public Safety

City of Columbus chooses RADWIN video surveillance solution for its Neighborhood Safety Project

Overview

In 2010, the city of Columbus - the most populated city in Ohio - was facing an unprecedented period of violence. In an effort to drive down escalating violent crime rates, city officials and civic leaders decided to take a high-tech approach to solving the problem. Partnering with MCIS, they piloted a Neighborhood Safety Program where safety cameras would be placed in strategic locations throughout five high-crime neighborhoods.

The Challenge

- **Reliability** – The equipment would have to perform flawlessly since human lives would be at stake.
- **Cost** – Although the application called for equipment with excellent quality, the solution needed to be cost-effective.
- **Vulnerability** – Aside from being too costly, fiber optic cable was unacceptable because overhead wiring is more susceptible to vandalism and does not have the protective enclosures of the video cameras. Underground fiber also requires costly trenching.
- **Interference** – Despite the close proximity within which separate pieces of radio equipment would be operating, there could be no cross-radio interference which is common in collocation installations. A robust solution that would eliminate collocation interference was required.



The Wireless Integrator

MCIS, Inc.

MCIS is a microwave engineering firm providing affordable and robust bandwidth options. The company delivers secure, highly reliable, licensed and unlicensed wireless links, turn-key systems, broadband leases, and system maintenance.

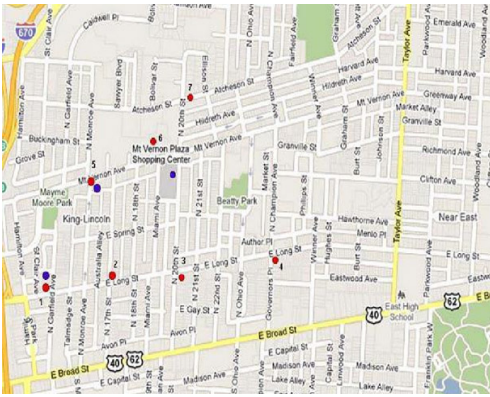
www.mciszone.com

The Distributor

Winncom Technologies

Winncom Technologies is a worldwide distributor and provider of complete networking solutions that address the needs of various markets and applications. They offer a full range of network infrastructure and access products based on the industry's leading manufacturers.

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The Solution

The need for a high-quality, cost-effective transmission solution led the city to identify point-to-point wireless broadband as the best option. RADWIN's wireless broadband systems were chosen for the city's video surveillance network.

Designed by MCIS, the wireless surveillance network consists of more than 130 video cameras, with some locations having as many as three cameras per site. The number of cameras and their placement was carefully chosen to achieve maximum coverage in each neighborhood.

Using mainly the 5.8 GHz band, the RADWIN 2000 B and 2000 L wireless broadband systems transmit high-resolution video 24x7 to each neighborhood substation. The images are then transmitted back via fiber to the main police station in Columbus where they are monitored in real-time.

The Result

RADWIN's systems help guarantee public safety by providing high-quality surveillance information to police.

The RADWIN-based wireless network is operating flawlessly and is providing dedicated, high-quality video around the clock. The impact of the surveillance network is already being felt, with local newspapers and TV stations reporting that drug dealing, prostitution and loitering has dropped dramatically in the target neighborhoods.

“The Neighborhood Safety Program has the potential to significantly impact crime and will assist law enforcement in apprehending and prosecuting criminals. It is yet another way we can help our Police Division work smarter through the use of technology.”

Councilmember Andrew J. Ginther
Chairman of the Public Safety Committee
Columbus, Ohio, USA



Why the City of Columbus Chose RADWIN

- » **Collocation Installation** - RADWIN's innovative Hub Site Synchronization (HSS) feature eliminates interference common to collocation installations. This enables installing multiple radios in one location.
- » **Maximum Reliability** - Systems are designed to operate flawlessly in challenging topographies and harsh weather conditions.
- » **High-Bandwidth** - RADWIN's Point-to-Point broadband solution supports the kind of high-bandwidth security applications that this safe city deployment required, with assured performance and guaranteed bandwidth.
- » **Cost-Effective** - By deploying RADWIN's solution the city was able achieve public safety goals while still meeting budgetary constraints.

About RADWIN

Delivering best of breed wireless connectivity solutions, RADWIN is committed to providing a complete offering for the Sub 6 GHz domain. Recognized as the market leader, RADWIN provides competitively priced products that achieve unmatched reliability, flexibility and installation simplicity. Deployed in over 140 countries around the world, RADWIN's success is due to swift delivery of high quality wireless connectivity products that secure unrivaled performance for broadband access, backhaul connectivity, private networks and specialized broadband mobility applications.

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