



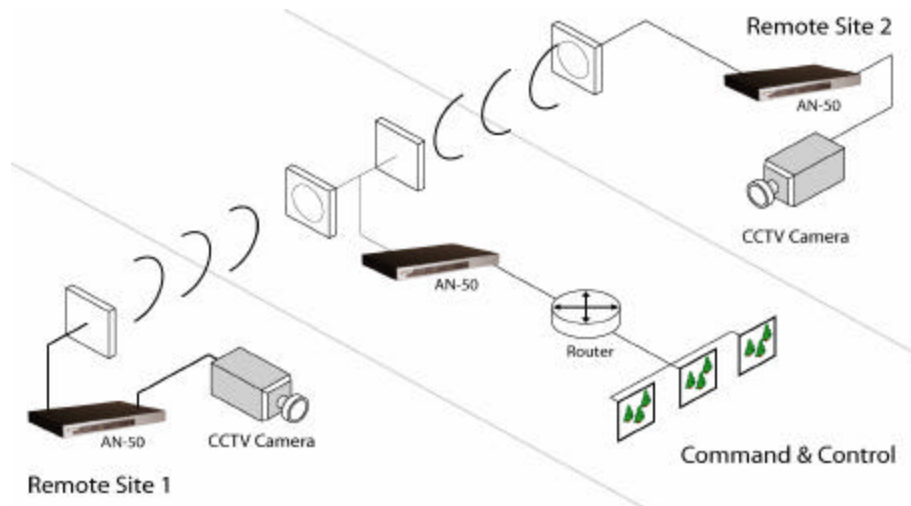
Application Note

Video Surveillance

Enhanced security including remote video surveillance has become a major initiative for many organizations including: first responders (police, fire, and medical), military, facility managers, utilities, transportation, border patrol and other security-sensitive organizations involved with homeland security or corporate security. Developments in high-resolution video cameras, digital video recorders and other technologies allow remote monitoring over an IP

Wireless provides reliable broadband connectivity for remote Video Surveillance market

network. The challenge faced by these security organizations is how to transmit high bandwidth real time video and other information back to the command and control center.



Business Requirement

The ability to monitor remote locations allows security organizations to provide rapidly and cost effectively enhanced security. The high-resolution video cameras used for real-time surveillance require a reliable high speed IP connection to the control center.

The option to use readily available copper or fiber connections is simply not feasible for many situations where a video surveillance system needs to be set up immediately. Also, the video surveillance equipment may need to be relocated multiple times as events unfold.

Broadband Wireless systems such as Redline's AN-50 allow a video surveillance system to be set up wherever the surveillance equipment needs to be located. The AN-50 provides a reliable high-speed connection back to the control center. The Non-line-of-sight capability allows for rapid deployment and operation even from difficult urban locations. The equipment can be relocated or redeployed rapidly – this is simply not possible with fiber or wire-line connections.

Redline's AN-50 offers an ideal solution in a compact 1U form factor. The AN-50 can transport up to 48 Mbps of data over distances of up to 80 km (50 miles). Over the air encryption ensures security of sensitive surveillance data.

Wireless Advantage

Broadband wireless allows the security organization to rapidly set up video surveillance equipment where it is needed – in difficult urban or remote locations. Furthermore, the equipment can be repositioned or redeployed without having to re-route the backhaul connection. Compared to landline solutions, the AN-50 product do not incur a recurring monthly cost

Redline AN-50: Redlines AN-50 system is designed to provide voice and data solutions for:

- Public Safety Organizations
- Medium and Large Enterprises
- Private Security Companies
- Law Enforcement
- Local and Regional Governments
- Carriers and Service Providers
- Schools, Libraries and Hospitals
- Property Management Companies
- Large Facilities such as Airports, Utilities, and Ports

Typical Uses

- Connect video surveillance equipment to control center
- Connect Voice and high speed IP based equipment over long range wireless links
- Extend head office and regional office systems out to branch locations
- Event based security monitoring

Key Features

- OFDM technology provides robust wireless links even in the presence of multipath interference
- Ability to operate in some non line of line of sight conditions
- Up to 48 Mbps data rates over 100BaseT interfaces
- Ranges of up to 80 km (50 miles)
- Point-to-point and point-to-multipoint configurations
- Adaptive modulation adapts to changing path conditions for robust link reliability
- Offers high speed 64 QAM modulation
- Remote Network Management System support
- Over the air encryption
- IP traffic priority (802.1p)
- Easiest wireless solution to install
- Single or dual AC or DC power supplies for redundancy

Benefits to Security Organizations

- Cost effective, secure and robust backhaul of video surveillance
- Easiest to install, relocate and redeploy as needed
- Reduces the cost of providing high speed data links between locations
- Proactive remote management and diagnosis tools provide high levels of reliability for your telecom and IT staff
- Can provide a redundant link to backup land-line based facilities

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