



Wireless Video Surveillance

Solutions for the Transportation Industry

Product Highlights

- Extend high speed data beyond current fiber and copper locations, to weigh and toll stations, construction sites and portable signage.
- Can be used in locations where wired infrastructure doesn't exist
- Less expensive than wired solutions
- Can leverage existing IP networks
- Can be used to monitor remote locations
- Can be set up, reconfigured, expanded, or even disassembled quickly when required for special events
- Video images can be transmitted over a secure Internet connection or private IP network at little or no cost
- Scalable – can be expanded at little cost, without having to lay wire or cable
- Can be integrated with VIP solutions to provide surveillance in high-speed mobile environments (commuter trains, LRT)



EION's wireless video surveillance solutions allow you to combine the reliability, ruggedness, and quick installation of new wireless technology to form a flexible, scalable, and cost effective video backbone network for integration into your ITS strategy.

EION's solutions support Transportation systems:

Advanced Traveler Information Systems

Advanced Traveler Information systems deliver data directly to travelers, empowering them to make better choices about alternate routes or modes of transportation. When archived, this historical data provides transportation planners with accurate travel pattern information, optimizing the transportation planning process.

Advanced Traffic Management Systems

Advanced Traffic Management systems employ a variety of relatively inexpensive detectors, cameras, and communication systems to monitor traffic, optimize signal timings on major arteries, and control traffic flow.

Incident Management Systems

Incident Management systems provide traffic operators with the tools to allow quick and efficient response to accidents, hazardous spills, and other emergencies. Redundant communications systems link data collection points, transportation operations centers, and travel information portals into an integrated network that can be operated efficiently and intelligently.

EION's wireless video surveillance solutions allow you to:

- Combine benefits of both wireless and IP technology in a single solution
- Conduct dependable and secure surveillance in virtually any setting
- Deploy rapidly – sites can be installed and operational in as little as four hours
- Operate a flexible network where cameras can be reconfigured as needs change
- Add surveillance of mobile environments like trains and buses to your surveillance system

How EION's wireless video surveillance solutions work:

- Cameras capture video images in a format that is suitable for transmission over the IP network
- The images are transmitted to a subscriber unit located near the monitored area
- The subscriber unit wirelessly transmits the images to an access point device
- The access point device relays the images over the Internet or private IP network to a control centre
- Images can be monitored and stored on a server

How EION's surveillance solutions help your organization:

- Makes industrial facilities, property, and personnel more secure
- Wireless technology reduces implementation and maintenance costs. No cost to bury cable or leased line charges.
- Non Line of Sight (NLOS) capability; reduces total base stations required.
- Protects investment in current and legacy equipment by allowing you to use your existing IP network for video surveillance

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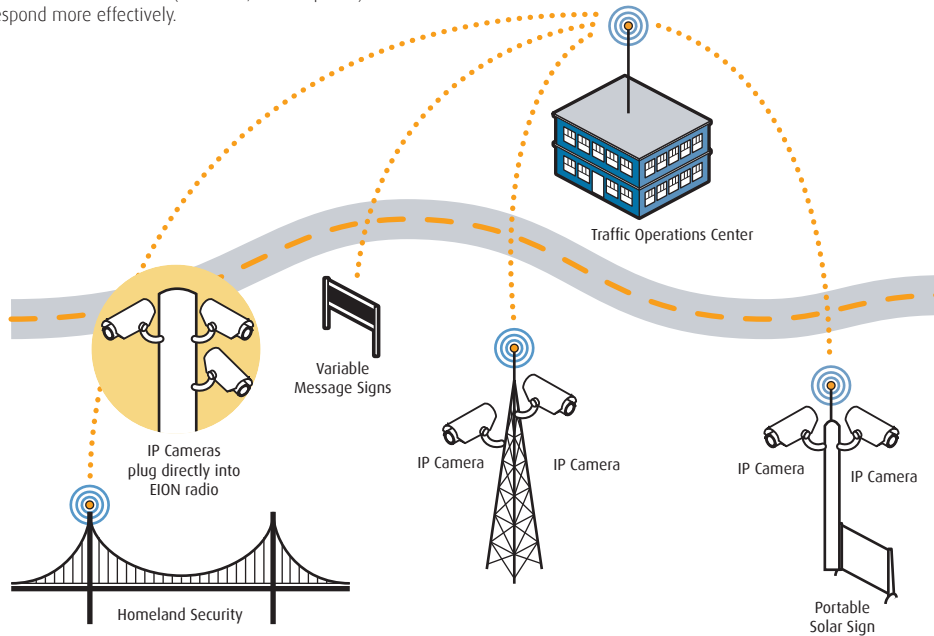
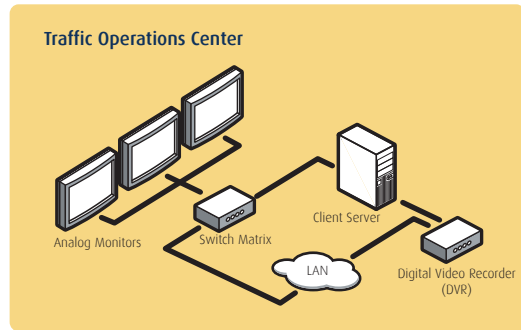
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How does it work?

EION's wireless video surveillance solutions are ideally suited for transportation monitoring applications, where fiber infrastructure is unavailable or cost and time-prohibitive to install.

By installing the flexible wireless solution, planning departments can monitor usage and make more effective decisions about future changes. They can also efficiently expand or redeploy the equipment to other sites as needs change.

The public benefits with real-time visibility to road conditions, enabling them to make better choices about alternate routes. And emergency services can receive real-time information (accidents, licence plates) enabling them to respond more effectively.



EION Product Suite

	VIP 110-24	Ultima 3	LibraPlus 5845
Ideal Use	Harsh Environments	Rural settings, applications requiring extended range	Multi-camera backbone links, special events, applications requiring superior throughput and capacity
Advantages	Cost-effective, dependable solution	Superior range, ruggedness, robustness, and solid performance	Highest throughput and capacity and rapid deployment
Throughput (raw/effective)	11 / 8 Mbps	12 / 10 Mbps	up to 54 Mbps
Maximum Range	Up to 60 km (37 miles) point to point, 22 km (14 miles) point to multipoint	75 km (45 miles) point to point, 38 km (24 miles) point to multipoint	50 km (32 miles) point to point, 50 km (32 miles) point to multipoint
Frequencies	2.40 to 2.50 GHz	5.725 to 5.850 GHz	5.x GHz
Weather Resistance	Yes	Yes	Yes
MPEG 4 Streams*	5	8	20
Technology	DSSS	MC-DSSS	OFDM
Security	Proprietary protocol, inherently secure	Proprietary protocol, inherently secure	WPA, WPA-EAP (TKIP AES), WEP (64, 128, 154) MPPE

* Assumes high quality RF link, and encoders set to 1 MB bit rate



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EION Wireless, a division of EION Inc., is a global provider of Broadband Wireless products that enable effective, economic and secure wireless high-speed communications solutions. As a Principal Member of the WiMAX Forum with several thousand broadband wireless installations, EION Wireless is committed to providing standardized, interoperable products based on 802.16 standards. The company's licensed and unlicensed frequency products are used by wireless ISPs, private network operators, and remote rural networks and in voice and data backhaul applications to solve last mile challenges. EION Wireless works with more than 165 worldwide channel partners to support its diverse global customer base.

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