Why IP Video?
Advantages of IP Surveillance vs. Analog
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Advantages of IP Surveillance vs. Analog

For video surveillance in today’s high-security world, an increasing number of customers are turning to IP camera solutions. If you’re looking to install a new surveillance system or wish to upgrade an existing system, IP surveillance offers several advantages over traditional CCTV analog video technology. Take a closer look at the many ways in which network cameras have surpassed their analog counterparts.
Image Quality

• **Progressive Scan**
  Many IP cameras use progressive scan technology to ensure even objects in motion come through crystal clear.

• **Megapixel Resolution**
  Network cameras with megapixel resolution capture extremely detailed video images and provide a much wider field of view than traditional surveillance cameras.

• **True Digital Solution**
  With a network camera system, there’s only one digital conversion right at the outset, which means no image degradation due to excessive conversions.

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<tr>
<th>Analog Resolution</th>
<th>Megapixel Resolution</th>
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<table>
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<tr>
<th>CIF 352 x 240</th>
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<th>4CIF 704 x 480</th>
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<table>
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<tr>
<th>HDTV 1280 x 720</th>
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<th>1.3 Megapixel 1280 x 1024</th>
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<th>HDTV 1920 x 1080</th>
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<tr>
<th>2 Megapixel 1600 x 1200</th>
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<th>3 Megapixel 2048 x 1536</th>
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Remote Monitoring

• **Web Access**
  Access your IP camera footage and control camera functions remotely from any computer using a standard web browser.

• **Mobile Surveillance**
  Some network cameras allow for remote monitoring via cell phone or PDA.

• **Remote Storage**
  IP camera footage can be stored digitally at remote locations.
On-Camera Intelligence

• Optimized Bandwidth
  Advanced functionality at the camera level reduces bandwidth.

• Advanced Motion Detection
  Intelligent motion detection increases video monitoring efficiency and cuts down on false alarms.

• Auto Tracking
  Auto tracking allows network cameras to detect and follow action as it happens.

• Analytics
  IP cameras can include sophisticated video analytics such as people counting, left-object detection, and detection of loiterers.

• Tamper Detection
  With tamper detection, an automated alert is sent any time the lens is compromised or the camera isn’t fully functional.

• Audio Detection
  Audio detection triggers recording and automated alerts when specific sounds such as broken glass or gunshots are detected.

• Built-In Triggers
  On-board triggers can initiate recording, alarms, and other system output.
Installation Benefits

• **Power over Ethernet**
  PoE allows network cameras to receive their power via standard Ethernet cable.

• **Leverage Existing Network**
  An IP camera system lets you leverage your existing wired or wireless network.

• **Integrated PTZ**
  PTZ controls are often integrated into the camera, unlike analog cameras which require additional wiring for pan/tilt/zoom functions.
**Security**

- **Encryption**
  While analog cameras deliver video over vulnerable coax cabling, IP cameras use strong encryption to send digital transmissions safely and securely.

- **Password Protection**
  Network cameras are password protected so only authorized users can access them.

- **Continuous Recording**
  IP cameras with PoE and battery backup provide uninterrupted recording even during a power outage.

- **Device Authentication**
  Thanks to device authentication, there’s zero risk of an IP video signal being hacked.

**Future-Proof / Scalability**

- **Room to Grow**
  Additional cameras can be added at any time, allowing your IP surveillance system to grow with your network and infrastructure.

- **Backwards-Compatibility**
  IP-based systems are backwards-compatible. With video servers and encoders, you can incorporate your existing analog cameras.

- **Easy Integration**
  IP camera solutions provide seamless integration with other security and network infrastructure, such as access control, point-of-sale, and alarm systems.