



Latest Advances in Megapixel Surveillance

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Outline

- IP surveillance: The Market Trend
- Megapixel as a Key Driver
- Challenges to Megapixel Technology
- VIVOTEK's Solutions for Megapixel Surveillance
- Conclusion
- Soon-to-be-launched Megapixel Cameras



IP surveillance: The Market Trend

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IP Surveillance Shows Strong Growth





IMS Research, 2008

Benefits of IP Surveillance



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Growing Demand for Megapixel Resolution





IMS Research, 2008

Wider Coverage



Exceptional Details



- >> Improved identification
- >> Superior image quality
- > ePTZ & multiple streams



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Megapixel Challenges



Consumes higher bandwidth and larger storage

>> Introduce higher *CPU loading* on live viewing clients



Bandwidth Management





CPU Loading Management





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Removing unnecessary information from being transmitted





>> Megapixel resolution over VGA bandwidth



H.264 Compression by File Size



H.264 provides with smaller bandwidth at the same quality



H.264 Compression by Bandwidth





On-board Storage

Generic scenario with remote storage





On-board Storage





Activity Adaptive Streaming





Single Stream Problem







Decreasing your CPU loading

>Flexibility in viewing with small images and storing with large images



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IP Surveillance System

Network Camera Subsystem







The Result of Network Camera System





Conclusion

- IP surveillance gains momentum in the market
- **Megapixel** is one of the major driving force
- Challenges exist in megapixel surveillance systems
- VIVOTEK is addressing these challenges in a systematic approach
- A total solution is provided in system level



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