



Latest Advances in Megapixel Surveillance

Date: 2009.06.29

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

- Megapixel as a Key Driver
- Challenges to Megapixel Technology
- VIVOTEK's Solutions for Megapixel Surveillance
- Conclusion
- Soon-to-be-launched Megapixel Cameras



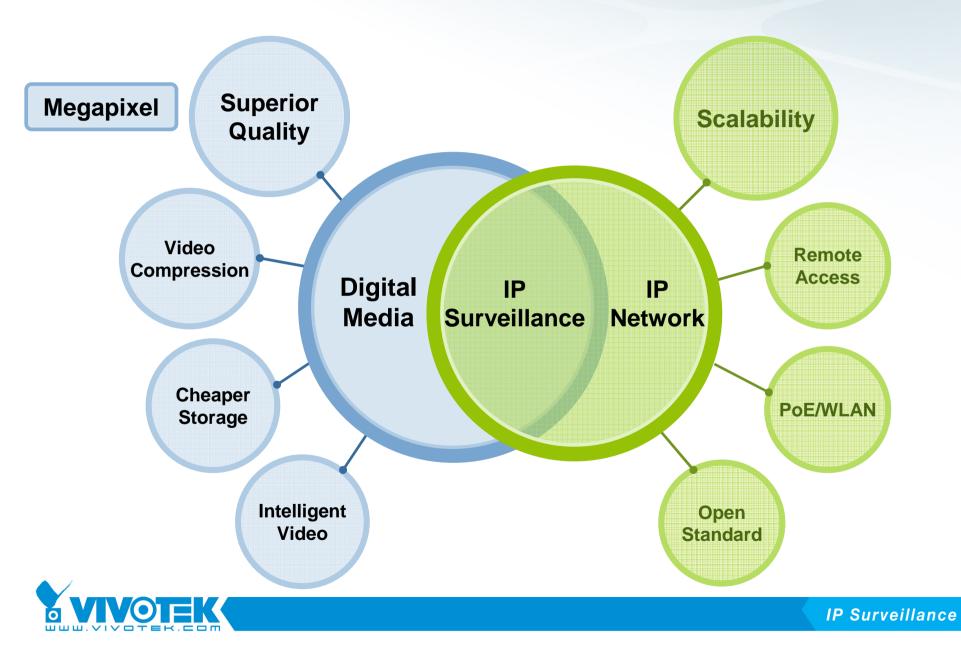
IP Surveillance Shows Strong Growth





IMS Research, 2008

Benefits of IP Surveillance



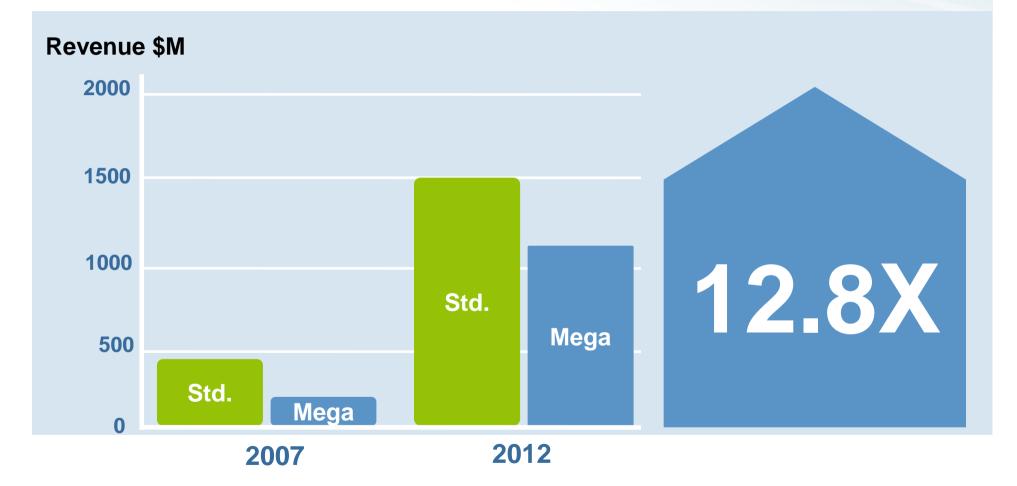
IP surveillance: The Market Trend

Megapixel as a Key Driver

- Challenges to Megapixel Technology
- VIVOTEK's Solutions for Megapixel Surveillance
- Conclusion
- Soon-to-be-launched Megapixel Cameras



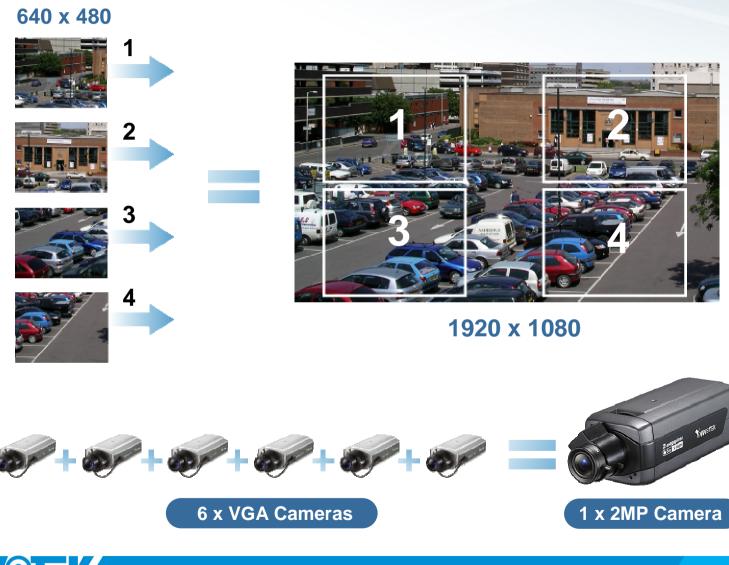
Growing Demand for Megapixel Resolution





IMS Research, 2008

Wider Coverage



Exceptional Details



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



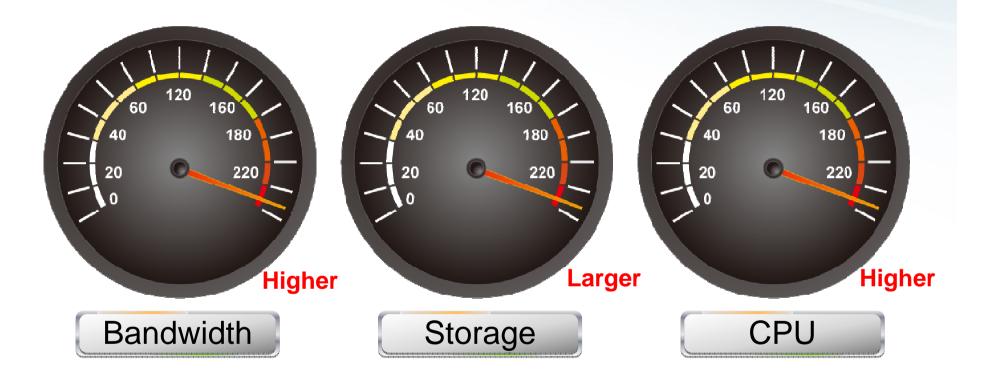
- IP surveillance: The Market Trend
- Megapixel as a Key Driver

Challenges to Megapixel Technology

- VIVOTEK's Solutions for Megapixel Surveillance
- Conclusion
- Soon-to-be-launched Megapixel Cameras



Megapixel Challenges



Consumes higher bandwidth and larger storage

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

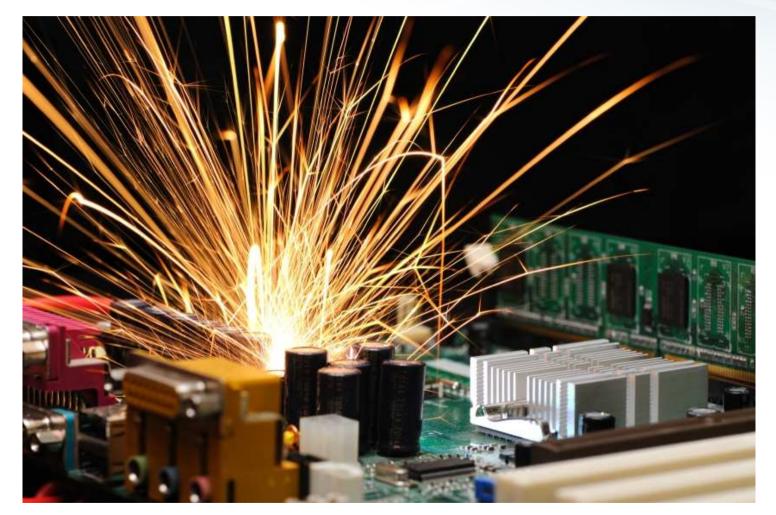


Bandwidth Management





CPU Loading Management





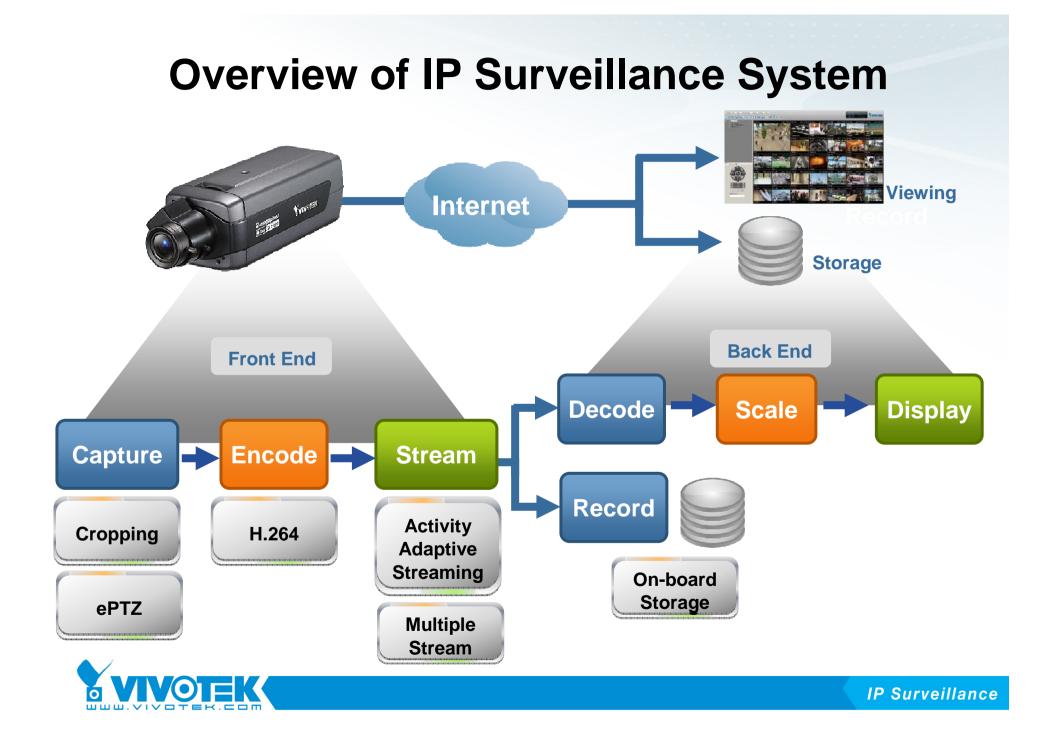
- IP surveillance: The Market Trend
- Megapixel as a Key Driver
 - Challenges to Megapixel Technology

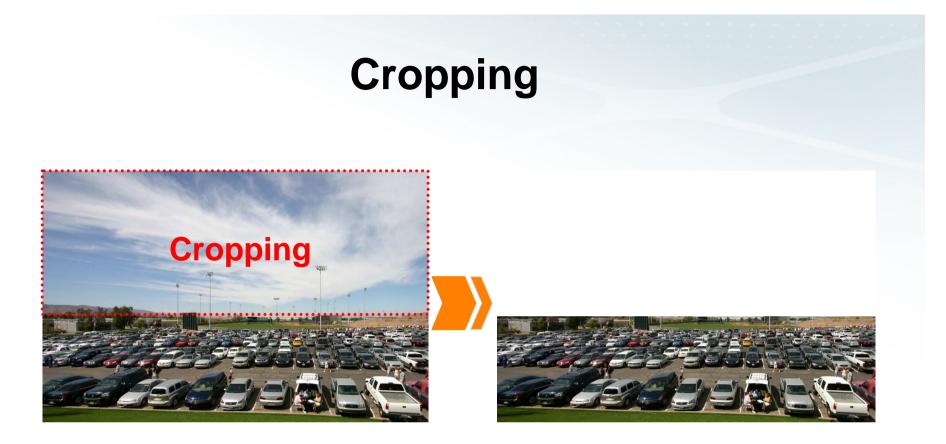


VIVOTEK's Solutions for Megapixel Surveillance

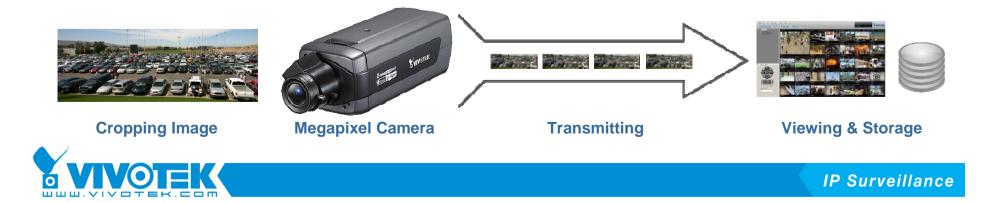
- Conclusion
- Soon-to-be-launched Megapixel Cameras

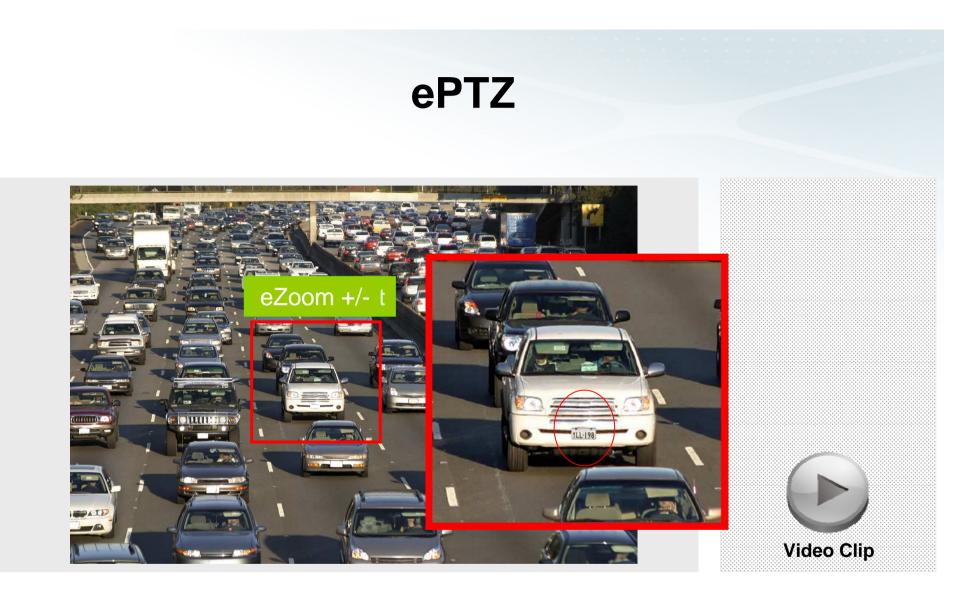






Removing unnecessary information from being transmitted

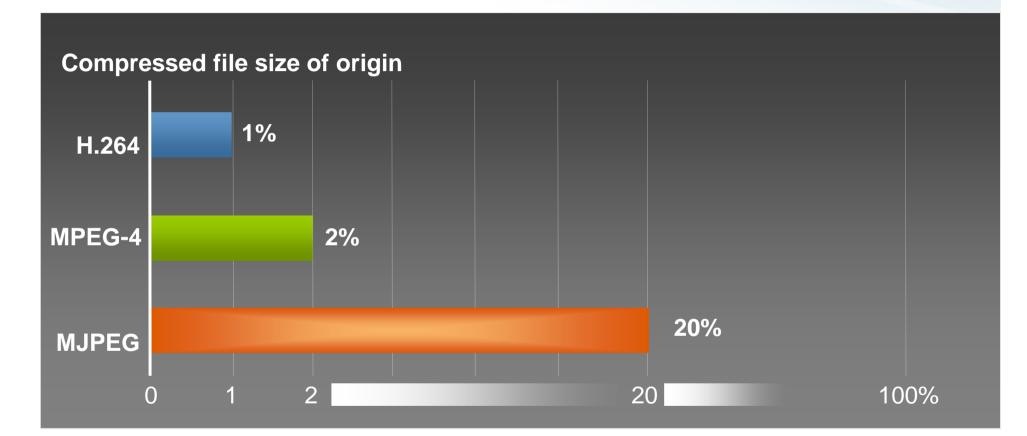




>> Megapixel resolution over VGA bandwidth



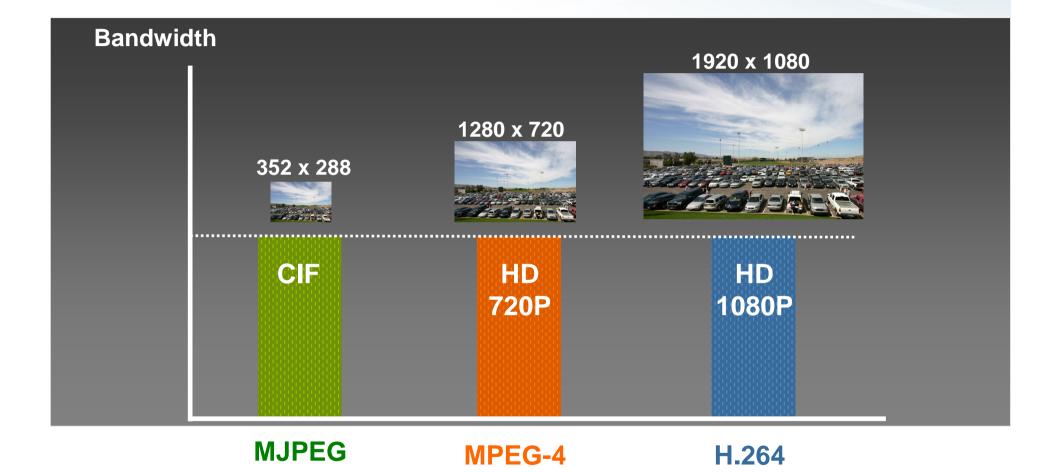
H.264 Compression by File Size



H.264 provides with smaller bandwidth at the same quality



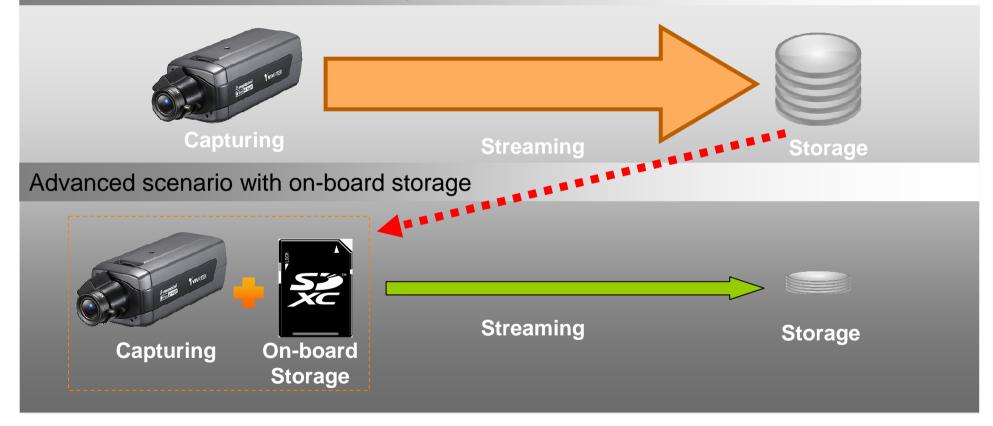
H.264 Compression by Bandwidth





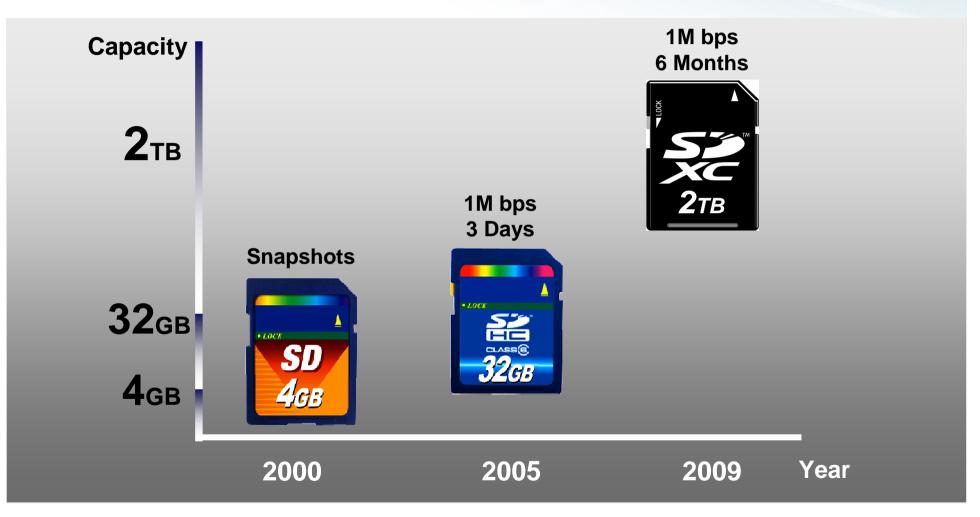
On-board Storage

Generic scenario with remote storage



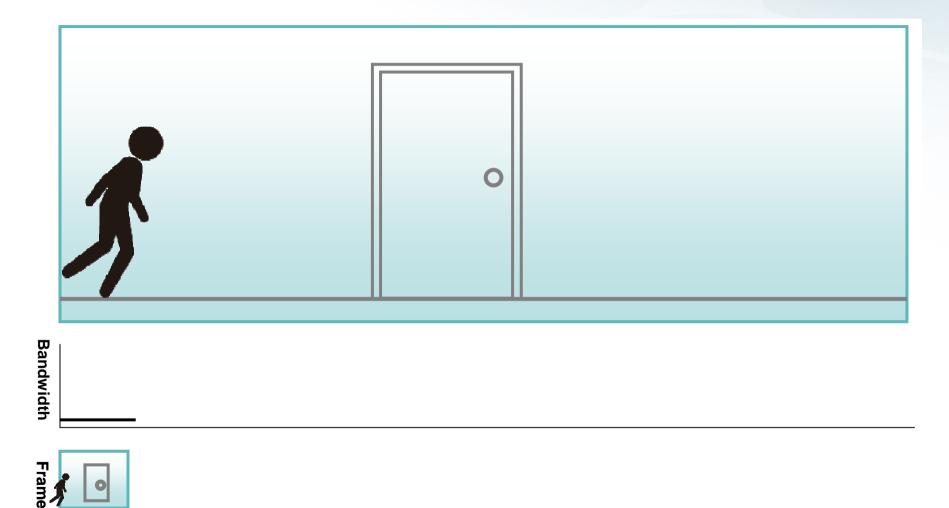


On-board Storage



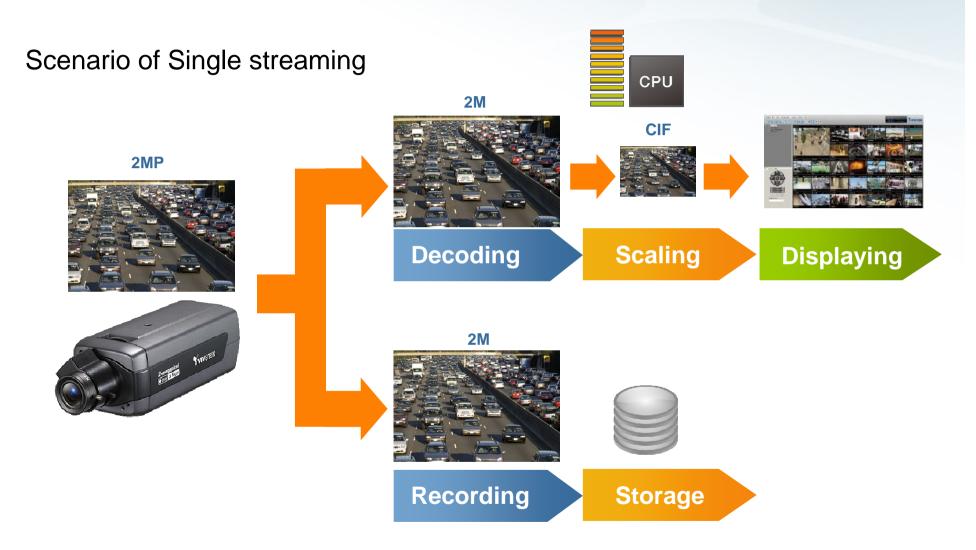


Activity Adaptive Streaming

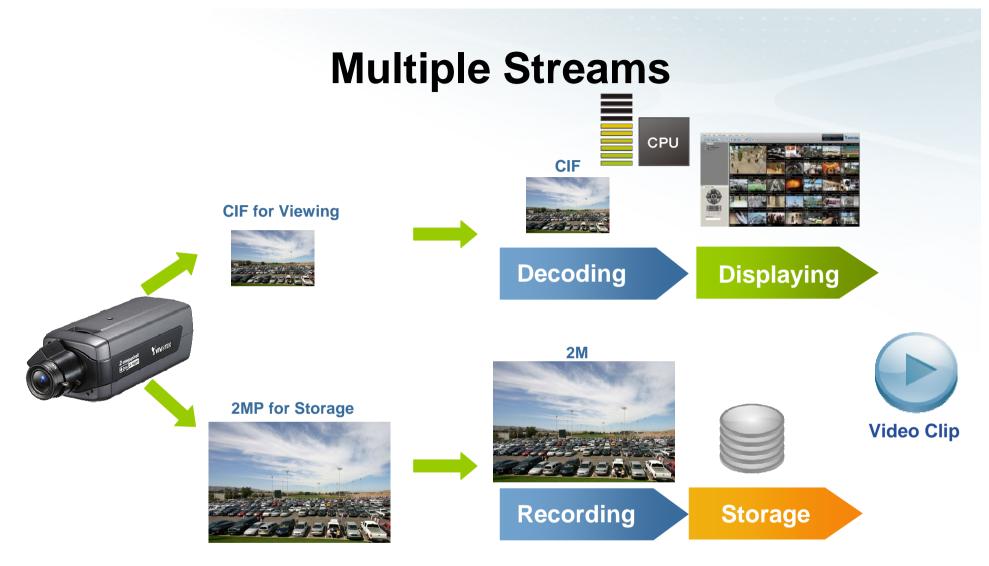




Single Stream Problem







Decreasing your CPU loading

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



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

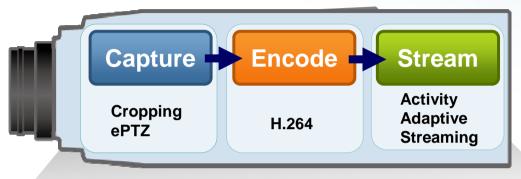
Conclusion

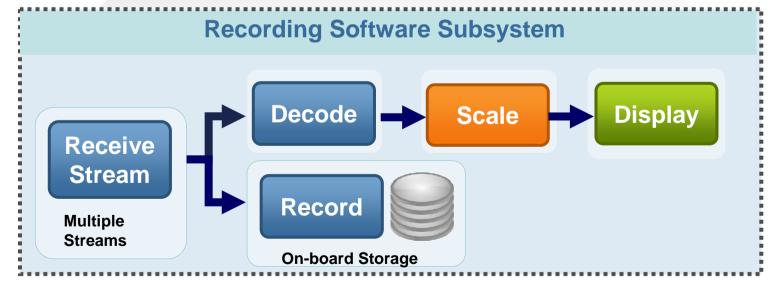
Soon-to-be-launched Megapixel Cameras



IP Surveillance System

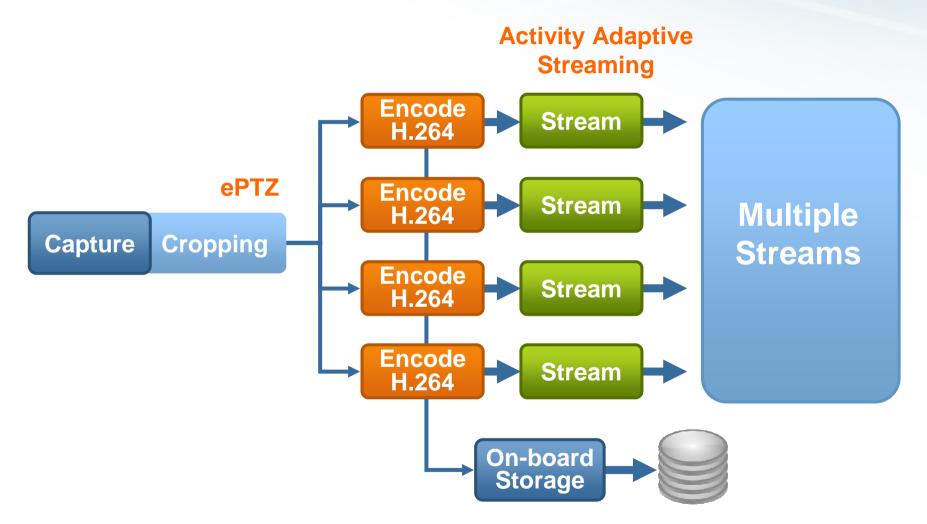
Network Camera Subsystem







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



- - 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



Soon-to-be-launched Megapixel Cameras



