

7 Fundamental Questions to answer when designing a video security solution

From "How to Design Video Surveillance Solutions"

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7 Fundamental Questions

- What type of cameras should I use?
- How should I connect cameras to video management systems?
- What type of video management system should I use?
- What type of video analytics should I use?
- How Should I view my surveillance video?
- How should I integrate video with my other systems?



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What type of cameras should I use?

- Two basic principles of camera deployment.
- 1. Use choke points
 - Doorways, hallways, driveways, etc.
- 2. Cover Assets
 - Physical objects such as safes, cash registers, lobbies, etc.



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What type of cameras should I use?

- Analog
- IP – Connected via a network
- Standard Definition vs Megapixel
- Fixed vs PTZ
- Day/Night and Infrared
- WDR – Wide Dynamic Range



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How should I connect cameras to video management systems?

- Analog – using coax cable, plus power supply.
 - Can also use UTP (Unshielded Twisted Pair)
- IP – using Cat5e cable with POE (power over ethernet)



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Video Management Systems

- Embedded DVRs
- HDVR (Hybrid DVRs) typically also called PC DVRs
- NVRs – IP only
- IP Video Surveillance Software



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Storage

- Storage duration – 14, 30, 60 or 90 days
- Types of Storage
 - Internal to HDD
 - Directly Attached – or Network
 - Storage Clusters (very large systems)



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Video Analytics

- Different Levels of Video Storage
- Optimize storage – with motion detection
- Identify threatening/interesting events
 - Perimeter violation
 - Abandoned object
 - People counting



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Viewing Video

- Local Viewing – direct from DVR
- Remote PC viewing – via software or web browser
- Mobile Viewing
- Video wall viewing



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Integrating Video with Other Systems

- Can integrate access control
- Entry sensors
- Point of Sale
- High end software systems that pull everything together (only for very large complex systems)



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Closing

- If you have additional questions please email peter@gspamerica.com
- Or call 1-800-298-0470



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