



Keeping our Neighbors Safe;  
Security & Surveillance  
Solutions

**Products and Solutions for the Electrical Industry**

# Topics of Discussion

- Camera Systems
- Access Control Systems
- Fire Alarm Systems
- Mass Notification

# Camera Systems 4 Types (Vivotek/Speco/Invid)

- Analog/TVI
  - Uses coax cable/Siamese cable
  - Needs power supplies
- Hybrid
  - Analog/TVI
  - Additional IP ports
- IP
  - Uses CAT5e/CAT6
  - Powered through the data cable (PoE)
- Online
  - Typically, wireless
  - Records online/in the cloud for a fee

# Cameras

- Cameras come in my styles
  - Box Camera
  - Bullets
  - Turrets
  - Fixed Domes
  - Speed Domes
  - 180 degree
  - 360 Degree (Fish Eye)
  - Muti sensor
  - Infra red



# Which camera and why?



# Network Video Recorders NVR's

- Table top models
- Rack Mounted
- Wall Mounted



# What is National Defense Authorization Act or NDAA Compliance?

In short, John S. McCain National Defense Authorization Act (NDAA) for Fiscal Year 2019 was signed into law in August of 2018 and subsequently NDAA 2020 for this year. The law, specifically [Section 889](#), prohibits federal agencies, their contractors and grant or loan recipients from procuring or using “telecommunications and video surveillance equipment or services” from specific Chinese companies as a “substantial or essential component of any system, or as critical technology as part of any system.” The NDAA ban includes telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation, as well as video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company.

## ACCESS CONTROL (CDVI)

- Typical system handles 2 doors and 4 card readers (Entry/Exit per reader port)
- With a firmware update a controller can be converted to an elevator controller for free up to 256 floors
- Can control up to 10,000 users
- Stores up to 10,000 cards
- Buffers up to 25,000 events
- Controller can send emails and / or alert a camera in the event of access violation, door forced open, alarm, etc.





## ACCESS CONTROL (ICT)

- **Protégé WX – Small Business Solution**

- All-in-One solution

- Built in Web Server

- Wizard Driven Install

- 3G/4G Cellular Interface

- **Protégé GX – Enterprise Solution**

- Most Secure – Server Access needed

- Unlimited Growth Capability

- Additional Features

- Time and Attendance

- Wireless Access Doors

- Touch Screen Visitor Logging

- DVR and Camera Integration



# ACCESS CONTROL DEVICES (CDVI/CAMDEN/ICT)

- Proximity Cards (Prox Cards)
- Card Readers
- Bluetooth Readers
- Door Strikes
- Mag Locks
- Annunciators
- Pushbuttons; Touch and Touchless
- Biometrics
- Facial Recognition



# Fire Alarm Systems (Edwards/Kiddie)

## 2 Types of Systems

- Conventional
  - Typically used for smaller applications or have budget restrictions
  - “Intelligence” is in the fire alarm panel
- Addressable
  - Typically used for larger more complex systems
  - Each detector has its own individual address and intelligence
  - Intelligent devices are capable of reporting more than fire and fault conditions
- Critical issue
  - If you are adding to an existing system, you **MUST** match the existing equipment

# Mass Notification System (Federal Signal)

- Used to alert people in the event of an emergency
- Different Type Systems
  - Emergency Use inside a building or companies with multiple building
  - Systems that can cover a golf course, campus, town or larger areas
- Mass Notification Systems
  - Lightening
  - Tornados/Hurricanes
  - Natural Disasters
  - Active Shooter
  - Misc Alerts

# Types of Alerts



- Mechanical sirens or buzzers
- Strobe lights
  - Typically mounted with the siren or buzzer
  - More often used on indoor applications
- Voice announcements
- Various Tones



## State Contracts

- PEPPM
- CoStars

# Questions

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