Agenda

Time	Topic	Speaker
7:00	Welcome to LHCA and Introductions	Tracie Lyons
7:02	Introduction of vendors	Clifford Neuman
7:20	Overview - Security Systems for Residents	Clifford Neuman
7:35	Crime issues in the communities	Captain Joseph Stephen, LASD
7:40	Short Home Security Presentations Phil Dienstag Ben Moore Alex Eeshaghian Bill Kinsler	 RING Western Energy Control & Soln Buy Rite Electronics NAPCO
8:01	Security Cameras in the Baldwin HIlls	Keith Renty
8:08	Proposal for Ladera Security Cameras	Tracie Lyons
8:15	Private Patrol Service (SSS)	Tracie Lyons
8:20	Residents Q&A – fill out speaker cards	Tracie Lyons Clifford Neuman Panelists
8:40-9:15	Closing remarks, after which vendors are available at their tables.	

Homeowner Introduction
to
Alarms and Security Cameras

Clifford Neuman

Technology for Home Security

- Cameras
- Alarm Systems
- Integrated systems

- We have many presenters with tables who will provide you with more information about their offerings.

What do you want from Cameras

- Consider what your expectations are for a security system. That will significantly impact your choice of system.

- You might want:
  - Ability to remotely view cameras for alarm confirmation, out of curiosity, to check on your animals, or when someone rings your doorbell.
  - Local or remote storage of photos and video from your cameras for investigation after and event and as a deterrent.
  - Active monitoring of all activity is prohibitively expensive, so don't expect that from your alarm company.

Communicating Incidents

- You need monitoring of your alarm system
  - Monitoring services (you really need this)
    - Insurance discounts often depend on it
  - Self Monitoring
    - Notification to your phone, you verify and alert.
  - Neighbors
    - How often have you just gotten annoyed when a neigbors alarm goes off
- What monitoring can do
  - Notify police, fire, and/or patrol services
- Monitoring and Patrol do not need to be from the same service.
  - If same service, one gets a single point of contact, and better integration.
- Your cameras can be from yet a different service
  - But consider the benefits of integration
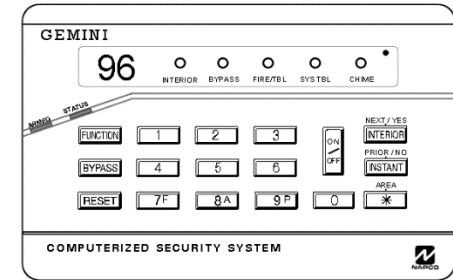
Alarm Monitoring Communications

- Landline (Copper, not Voice over IP)
  - Limited capability, requires "POTS" – Plain Old Telephone service (and payment for that phone line)
- Internet
  - Greater capability, but less reliable, how happy are you with Time Warner Cable or ATT U-verse?
  - More dependent on power being on
  - Some services charge extra, but difference is less than cost of separate copper line.
- Cellular (of which GSM is one example)
  - Useful as backup, capability but may be limited.
  - More or less reliable depending on service.
  - Usually an extra charge, but might be less than separate copper line.

Wired, Wireless, Hybrid

- For communication of sensors to alarm controller.
  - Wireless sensors simple to install
    - But they require that you change batteries periodically
    - May be vulnerable to jamming or other communications problems.
  - Wired sensors require lots of wiring
    - But this may have already been done when home was built, or for previous alarm installations.
  - You want your smoke detectors (at least some of them) to communicate with your controller.
    - Don't forget Carbon Monoxide (CO) Detectors
  - Some controllers support both (Hybrid)

Some Choices for Alarm Systems

- Traditional "NAPCO" systems
  - Limited capability, requires "POTS" – Plain Old Telephone service (and payment for that phone line)
  - Can be integrated with GSM and other technologies
- More Modern Systems like Honeywell Lynx
  - Supports control from a cellphone app
  - Easier to program, but not foolproof.
  - Often provides as part of packaged services.
- Systems promoting simple installation
  - Like Simplisafe
  - Lacks some features
- Systems Provided in a Package
  - Security Services Systems
  - ADT Home Security and Automation
  - Time Warner Cable – Intelligent Home
  - AT&T Digital Life

Placement of Controller

- Can be more secure if installed in a closet, separate from panel.

- More convenient and Easier to Install if Controller is in panel.

  - But burglars may try to destroy the controller before timeout on entry occurs.

Placement of Cameras

- Inside the Home
  - Privacy is a MUST
  - If you can view the cameras remotely, then assume that others can too.
  - If your monitoring company can use cameras to verify an alarm, then their employees can view what is on the camera at any time.
- Outside the Home
  - Point toward street, help neighbors and Sheriff
  - Wiring more difficult, most will want professional installation.
- Camera capabilities
  - Pan, Tilt, Zoom, or fixed
  - Night Vision
  - Resolution
  - Wired or Wireless (and source of power too)

Cost of Your Alarm System

- Consider the following costs
  - Purchase cost (one time)
  - Monitoring cost (monthly or annually)
  - Cost of required communication
    - If separate communication such as copper phone line needed.
    - If internet based and you already have internet, no need to figure into your cost.
    - Cost of cellular communication may be separate, or may be bundled into the monitoring contract.
  - Extra "add-on" costs
    - Some services charge a higher monitoring fee to give you access to your cameras, or to monitor alarm events on your cell phone. If they do, be sure to figure in the monitoring costs applicable to the features you want.

Network Security

- Default passwords
  - Make sure you change the passwords on your cameras. There are search engines that find "open" cameras with default passwords. Someone could be watching you.

- Data in the Cloud
  - If someone breaks into the cloud provider, or your account on the provider, they have access to your recorded data. Remember the celebrity photo hack a few years ago, don't become that kind of victim.

- Outside Access to your Home Networks
  - If you connect to your cameras from outside your network, then bugs in the software on your camera can allow outsiders a path in to your network. Keep you camera software (on the device) up to date, and be careful where you get your cameras.

Cameras and the Community

- Later speakers will report on deployment of security cameras in the Baldwin Hills community, and discuss proposals for security cameras in Ladera Heights.
- Independent of these community efforts, you can:
  - Install cameras facing the street
  - When crimes occur in your neighborhood review your recordings and providing relevant images to law enforcement.
- You can also alert your neighbors of suspicious activity you may observe.
  - Report your factual observations, not necessarily your conclusions.

Questions for the Presenters

- Is communication with the cameras and sensors wired or wireless (e.g. Between the home security controller, DVR, router)? How does this this impact ease or cost of installation, as well as reliability and resiliency.

- What is the means of communication to the outside (e.g. for alarm monitoring, for notifications, or for offsite storage of images/video). Does it use Internet, a phone line, cellular, and is a backup means is provided in case the primary means is unavailable. What are the costs of the various options.

- What information (e.g. images, video) is stored, where, for how long, is it remotely accessible?

- What are the capabilities when communication or power is off? For example, an alarm event might be communicated through a backup channel, but video might be unavailable.

- What kind of monitoring is included, or subscribed? Is it only the alarm component that is monitored, is video used to confirm alarmed events, etc. Can you personally view the video or camera feeds on your cell phone or computer at work?

- What about privacy? Who can view the photos or video from your cameras? If they tell you, only you, then they are wrong – the system may be designed that way, but you must always expect that at the very least someone will be able to "hack into" such systems.

- What about cameras outside the home? Will you system record activities on the street that may be helpful in instigations of crimes that occur elsewhere in the community? If enough homes do this, it creates a deterrent effect that benefits the entire community.

For More Information
Copies of these slides and additional information may be found at:

http://realmofsecurity.com

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