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With our online security selection guide, you can easily choose from a wide variety of security products. From two-way radios and accessories; to padlocks, locksets, doors and door hardware; to closed circuit televisions and monitors; Grainger has more of the products you need to keep your facility safe and secure.

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- For more information, go to www.grainger.com/security
Be Smart. Be Secure.

Security is a bigger issue than it’s ever been. The threat to property, inventory, even personnel and customers grows every year. A good closed circuit TV system can help make your business safer, more efficient, and less prone to theft and accidents.

Determine your needs

The type of closed circuit TV (CCTV) system you need should be determined by your budget, the type of business you have and the inherent security risks you face.

- **Monitor Only**
  The most basic function is to monitor activity in a specific area or areas in real time at your site. This gives you the ability to observe events as they happen from a closed circuit monitor located on the property.

- **Monitor and Record**
  Depending on your security concerns, you may choose the ability to monitor and record. This gives you the ability to monitor activity as it happens, and to review video footage at a later date. It also provides a material record for activity that takes place on the property.

- **Monitor, Record and View Remotely**
  A third option gives you the ability not only to record, but to view activity from a remote location, in real time via the internet. This configuration allows users to actively monitor the premises from a personal computer, eliminating the need for an around-the-clock physical presence on the property.
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LOOK AT YOUR OPTIONS

Choosing a camera for the job

Camera Type

- **Traditional Cameras** provide a low-cost affordable option with higher resolution. Installing these cameras usually requires special housing and mounting equipment. Camera lenses are sold separately.

- **Bullet Cameras** are the most popular and versatile surveillance cameras. Bullet Cameras are ideal for indoors and for well-lit outdoor areas. Their compact, modular design enables installation in tighter spaces. They can be installed on either walls or ceilings.

- **Dome Cameras** provide the highest resistance to weather, dirt and dust. Their design and construction also make them virtually tamper-proof. Dome cameras are ideal for outdoor areas and large interior spaces such as office buildings or retail settings.

- **Pinhole Cameras** are miniature and virtually impossible to detect. Pinhole cameras are ideal for covert surveillance in places like offices or storage rooms or in any instance where detection is more of a priority than deterrence.

Factors to Consider When Choosing a Camera

- **Number of Cameras** will be determined by the size and layout of the area under surveillance. One camera may be sufficient for a small business, but larger businesses may need more.

- **Location of the Camera** will determine what type you need. Areas exposed to water, dirt or dust require cameras designed for weather resistance. Areas vulnerable to criminal mischief may require vandal-resistant dome cameras. Cameras placed on the wall or the ceiling may require mounting accessories.

- **Moving Cameras** allow surveillance of larger areas. Stationary cameras allow you to monitor only the area directly within their viewing field. A single moving camera can often do the job of two stationary cameras.

- **Light Conditions** must be considered, especially if recording equipment is being used. Many cameras cannot provide an adequate picture in low light. Day/Night cameras are ideal because they automatically switch to black and white when light levels decrease.

- **Focal Length** determines how a camera selects focus. A longer focal length puts distant images in sharper focus. Shorter focal length is ideal for security because it provides a wider view of the surroundings, minimizing blind spots.

- **Resolution** for standard video cameras is 420 lines per inch. Anything greater than 420 is considered high resolution. High resolution is ideal for large areas and for video recorded for playback because it provides better detail, color, contrast and motion sensitivity.
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Get viewing equipment that makes everything clear

**Screen size**

Screen size, measured diagonally, varies from nine to twenty-one inches for stationary monitors. Choose your screen size based on viewing distance and/or the number of cameras you will be using. Larger monitors allow a broader, more detailed view of objects in one area and also give you the option of viewing footage from as many as four cameras at once.

**Screen type**

- **Black and White**: Black and white, or monochrome screens are commonly used because of their low price. While resolution is lower, black and white video provides better contrast in very low light situations.

- **Color Flat Panel LCD**: LCD (Liquid Crystal Display) provides the highest resolution available, as well as superior brightness. Flat panels optimize resolution on the periphery of the video image so that none of the viewing area is obscured. These are effective for real-time monitoring and optimal for video playback.

- **Color CRT**: CRT (Cathode Ray Tube) technology predates LCD, and offers a notably lower price and better resolution on smaller screens. Color CRT is preferable to black and white CRT because it makes identification easier.

- **Portable Test LCD**: These portable video monitors are used for troubleshooting during the installation of surveillance cameras in the field. By viewing the camera footage through the portable monitor, the installation team can effectively adjust the angle and focal length of the camera without multiple trips back to a fixed monitor.

Measure diagonally from the bottom left corner to the top right corner of the screen. This is your viewable area and typical screen size.
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Get recording equipment that preserves the details

**VCR**

VCRs (Video Cassette Recorders) provide the most basic level of functionality in terms of recording and playback. The cost of a VCR is less than the cost of a DVR, but recording time is limited to six hours or less without changing tapes. A system configured around VCR technology requires one recording device for each camera unless a Multiplexer is used.

**DVR**

DVRs (Digital Video Recorders) provide the most functionality and flexibility. They work best for larger systems, enabling connection with up to 16 cameras without the use of a Multiplexer. DVRs include an extensive selection of recording, viewing and search features. DVRs also make it possible for recorded footage to be viewed from a remote location via the internet.

**Benefits of DVR**

The advantages of DVR recording are significant when the accumulation and management of recorded data is an issue. A key example is the ability to instantly jump to view specific footage without tedious fast-forward or rewinding. The following features can help you optimize your system’s ability to record, view and store footage.

- **Variable Frame Rate:** Lowering the frame speed of the recording allows longer recording periods without taking up as much hard drive space.
- **Video Compression:** The user can reduce the file size of the recording without compromising the image quality. This is another way to free up valuable data storage space for systems that record around the clock from multiple cameras.
- **Motion Activation:** Recording begins whenever movement is detected, allowing the system to record only when an actual event is under way, avoiding the need to record around the clock and the need to store unnecessary footage. Motion can also trigger a tone or a recorded warning to intruders.
- **Scheduled Recording:** This feature allows you to record only during specific periods that pose a higher security risk than others. This on-off feature will create less footage and requires less space for data storage.
- **Hard Drive Options:** 24-hour a day recording from multiple cameras at high speed and high resolution requires the storage of massive amounts of data. DVR hard drives are available in sizes up to 160 gigabytes. Built-in CD-RW (Compact Disc Rewritable) drive is available on some models, making it easy to back-up and transfer data.
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Get connecting equipment that brings everything together

Once you select your components, refer to the manufacturer’s installation instructions to determine what else you will need to configure your system. Different cameras, monitors and recording systems relying on different technology platforms will have different connection requirements. These systems will only be effective if they are connected using manufacturer-specified components.

Accessory your system

- **Camera Housing:** Weatherproof, aluminum outdoor Camera Housing protects traditional box cameras from the elements.

- **Monitor Mounts:** Video Monitor Brackets enable monitors to be installed on walls or ceilings, indoors and outdoors.

- **Plug-in Power Supply:** Provides plug-in power supply for CCTV cameras.

- **Central Power Supply:** Provides power supply to as many as 16 cameras and protects them from surges and outages.

- **Cables and Connectors:** These components include Extension Cables for connecting Cameras and Monitors, plus BNC Video Cable for connecting Monitors, Multiplexers, Digital Video Recorders and Quad Splitters.
MAKE THE CONNECTION

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