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總台之聲 收視榜 地方專區 In this article, you find the answer to the question "What is CCTV?" and not only that, you will also understand the essential details about surveillance systems. Modern technology helps to secure places with the use of access control and modern security cameras. Perhaps you already saw the term "CCTV" while researching around, but you don't know what it means.CCTV stands for Closed-Circuit Television. It's a video surveillance system used for security purposes. The first CCTV system with analog cameras was used in 1942 in Germany to monitor rocket launch and later evolved to a more sophisticated system that uses digital surveillance cameras with video analytics capabilities.There are many modern CCTV cameras that can be used for different applications, even for home security.Many modern CCTV cameras can be used for different applications, even for home security. Let's take a look at some of them.CCTV cameras are used mainly in the following places:AirportsBanksHospitalsWarehousesSchoolsHotelsCasinosStadiumsSeaportsPolice StationMilitaryCommercial CentersVehicles (Truck, buses, car, trains)Train stationBus stationOfficesHomesCondominiumHow do CCTV systems work?Suppose you install security cameras in malls, shops, schools, businesses, or other locations and take the cables from each of the cameras to a recording and monitoring center. In that case, you will have your Closed Circuit Television, which can record footage from the cameras.At first, security systems could not be monitored remotely; operators were required to look at the screens for something suspicious and react according to some security protocol.One of the ideas of using cameras to help law enforcement avoid or reduce the incidence of crimes, since cameras are installed in closed or public places, there is a tendency to minimize crimes because the area is being watched, the criminal thinks twice before acting.CCTV security systems helps law enforcement. It's hard to say with 100% certainty whether you are being monitored when walking through public places. With the massive production of new security cameras, it is easy to find them installed in many areas.Traffic and accident controlYou will hardly drive on the road from one city to another without being monitored by at least one security camera. Nowadays, it is very common to find them installed on poles along great highways and even on streets and avenues of small and large cities.Security systems have become essential tools for traffic and accident control in various locations around the world. From a surveillance center, it is possible to view images from all the cameras.Factories, banks, and many other types of companies use security cameras to monitor manufacturing processes and products; some even use them to control activities performed by employees to record what is happening during working hours.CCTV cameras in a mallIt is common to have recorded evidence of employees' misbehavior to be used in lawsuits. Sometimes the footage can also benefit the employee. It all depends on what is on the CCTV footage of the video recorders.How analog CCTV systems workThe concept of traditional analog CCTV systems is quite simple; a camera must be connected directly to a monitor through coaxial cables that can carry the analog signal.The first analog CCTV cameras were a very low-resolution model. It was impossible to observe the details of objects and people with such a camera.With the resolution measured in TV lines, representing the number of lines generated and displayed on a monitor, this type of system will cease to exist in the next few years.Traditional analog systemsA CCTV system's idea is to generate, store, and display the video on a monitor. The diagram below exemplifies this concept on the three blocks. The cameras generate the images, record the footage, and finally, a monitor displays the video from the camera or tape recorder.The videos from the cameras were recorded in analog format by using a VCR (Video Cassette Recorder) on old CCTV systems.To date, this VCR recording technology is obsolete, but decades ago, that equipment was manufactured to ensure high-quality recording.It was very common to argue about what are the best VCRs. Many of the best ones were developed and manufactured in Japan with the latest technology.VCR recorderIt's not easy to find VCRs being used on such systems because they have changed from analog to digital.Cassette tapes for VCRs were produced on a large scale throughout the world in residential and industrial systems. Still, the technology has many limitations in terms of quality and practicality.VCR tapesThe first recording systems were composed of low-resolution cameras that generated black and white images for display on monitors and store on simple recorders with VHS tapes.Recording on cassette tapes was done linearly, which made it very difficult to search for recorded evidence since it was necessary to "run the tape" until reaching the point of interest where the event was recorded.Monitors and joysticksNowadays, it is very common to find LCD and LED monitors displaying high-resolution images. But that was not the case for old CCTV systems. In traditional CCTV systems, it was common to use VCRs connected directly to analog monitors.The idea is to bring the signals from the cameras to the VCR to record the footage and display it on analog monitors with the maximum number of lines, which means the system has high-resolution.Analog CCTV MonitorSome camera mounts have an internal motor that allows controlling the camera's movement directly from the surveillance room by using a joystick.Even in analog systems, it is possible to use cameras with advanced features. Those cameras can be controlled remotely from the surveillance room by sending commands from a joystick. Those camera models, known as PTZ (Pan, Tilt, and Zoom), have a built-in motor to control horizontal, vertical, and zoom movement.PTZ analog cameraThere are several cameras with analog technology, but with different protection, housings to meet specific installations. Sometimes it is necessary to use domes or bullet cameras with infrared.In large CCTV projects, it is possible to find a mix of camera models, most of them have a fixed viewing angle, and other models such as the PTZs mentioned above are used for patrolling the area.CCTV camerasCurrently, the number of cameras scattered throughout cities and commercial establishments is scary. Due to the new electronic security products' low cost, there is a proliferation of such a device in many countries.Over time, analog systems have evolved into digital recorders known as DVRs. The acronym is original from the name Digital Video Recorder.Digital Video Recorder (DVR)When using a DVR to record the footage from security cameras, there is a conversion of the analog to digital signals before recording and transmission over the local network or Internet.Usually, the footage is recorded based on motion detection to save storage space, which is very useful in modern video surveillance systems.This recording method is standard among systems with analog or IP cameras.Modern security camerasIn addition to analog systems' evolution to the hybrid version that uses DVRs for digital recording, new technologies have also emerged from analog systems that can provide higher resolution and thus better image quality.These technologies are known as HD-TVI, HT-CVI, and AHD. To learn more about such technologies, read the article: HD-TVI, HD_CVI and AND comparisonIt's also common to use IP cameras for the new security projects. If you want to become a professional CCTV installer or designer, take a look at the material available in the blog. Just click the links below:Please share this information with your friends... 广告 Security Cameras Top selection of IP and Coax Complete Systems Custom tailored for your application Video Recorders Industry leading DVR's and NVR's The Best Way to Watch Your Cameras from Anywhere Without Any Fees - Ever! Over 0 Years As a Top USA Supplier 00000+ Satisfied Customers Best Selling Security Camera Systems See What Our Customers Are Saying I've been a customer for over a decade and very happy with the quality and reliability. Fast delivery and most definitely top-notch commercial grade equipment. Support team is knowledgeable and patient. I would absolutely recommend this company. I can't say enough about their tech support! Tim from support was so patient and more than willing to help. We have several CCTV systems and won't buy anything else, solely due to their support! Won't find anything else like it. Purchased their 8 camera 4K bullet system and added 2 fisheyes. All hardwired. The equipment is super easy to hook up. Everything is literally plug and play. Picture quality is superb! The cameras show good detail and great color images even at night. Called to inquire about a 24 camera system for our church and got exactly what we needed. The wide angle cameras helped us to cover the entire property. Installation was a breeze and everyone is always amazed by the exceptional image quality. Set it up to view on my phone within 15 minutes. Works flawlessly. Highly recommend for top quality and great support. Bought a system from CCTV. Easy to install. After a few weeks realized I needed some extras cameras. I went back in to order more. The ones I click on and purchased were not compatible with my system. A live person from CCTV called and emailed about the problem. With their help we got the right cameras shipped. Most companies I have dealt with would have shipped the order even though it was the wrong item. I appreciate the customer service CCTV has provided. Would recommend to any and all in need of their product. Recently ordered your top featured system and received it within a few days. I am so impressed with how technology has improved. With my past systems, I used to receive so many false positive motion notifications. I really love the new smart motion alerts since it focuses specifically on humans and vehicles. I will say it has been a huge time saver. Well done! Excellent. Spent extra time explaining how each of our needs would be met by the system they put together for us. Extremely professional and understanding when we had to call once we received our items. Highly recommend them to others. I've been using CCTV security pros for a decade. Great company! Great customer support! Superior camera performance! Customer service was really good. I had a lot of questions and they were very patient and told me everything. Really good pricing too. I definitely recommend this company. See All Google Verified Reviews SAVE WITH AMAZING EVERYDAY PROMOTIONS FREE UPGRADE TO AN 8 OR 16 CHANNEL RECORDER on All 4 & 8 Camera Complete Systems! FREE HIGH DEFINITION LCD 22" MONITOR INCLUDED on All 16, 24, 32, & 64 Camera Systems! CCTV Security Pros has proudly served over 75,000 satisfied customers since 2008 with high-quality CCTV security camera systems designed for both residential and commercial use. Our wide selection of security cameras includes advanced models offering up to 4K Ultra HD video quality, smart motion detection with instant cell phone alerts, reliable night vision, audio features, and easy remote access on your smartphone, tablet, or PC — all with no monthly fees. Most of our security camera systems use wired connections to ensure maximum reliability and consistent performance. Thanks to our plug-and-play design, these CCTV cameras are simple enough for DIY installation, but we also provide professional installation services for homes and businesses. Every security camera system we sell is backed by a 3-year warranty, lifetime U.S.-based customer support, and a satisfaction guarantee. Explore our extensive inventory of CCTV cameras and systems on our website, with daily shipping Monday through Friday. Need assistance? Our knowledgeable experts are ready to help you choose the perfect security camera system to protect your property. Video Surveillance Cameras and Systems with No Extra Fees! 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