

Surveillance Camera Guide

IP camera

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An Internet Protocol camera, or IP camera, is a type of digital video camera that receives control data and sends image data via an IP network. They are commonly used for surveillance, but, unlike analog closed-circuit television (CCTV) cameras, they require no local recording device, only a local area network. Most IP cameras are webcams, but the term IP camera or netcam usually applies only to those that can be directly accessed over a network connection.

Some IP cameras require support of a central network video recorder (NVR) to handle the recording, video and alarm management. Others are able to operate in a decentralized manner with no NVR needed, as the camera is able to record directly to any local or remote storage media. The first IP Camera was invented by Axis Communications in 1996...

Closed-circuit television

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Closed-circuit television (CCTV), also known as video surveillance, is the use of closed-circuit television cameras to transmit a signal to a specific place on a limited set of monitors. It differs from broadcast television in that the signal is not openly transmitted, though it may employ point-to-point, point-to-multipoint (P2MP), or mesh wired or wireless links. Even though almost all video cameras fit this definition, the term is most often applied to those used for surveillance in areas that require additional security or ongoing monitoring (videotelephony is seldom called "CCTV").

The deployment of this technology has facilitated significant growth in state surveillance, a substantial rise in the methods of advanced social monitoring and control, and a host of crime prevention measures...

Artificial intelligence for video surveillance

intelligence for video surveillance utilizes computer software programs that analyze the audio and images from video surveillance cameras in order to recognize

Artificial intelligence for video surveillance utilizes computer software programs that analyze the audio and images from video surveillance cameras in order to recognize humans, vehicles, objects, attributes, and events. Security contractors program the software to define restricted areas within the camera's view (such as a fenced off area, a parking lot but not the sidewalk or public street outside the lot) and program for times of day (such as after the close of business) for the property being protected by the camera surveillance. The artificial intelligence ("A.I.") sends an alert if it detects a trespasser breaking the "rule" set that no person is allowed in that area during that time of day.

The A.I. program functions by using machine vision. Machine vision is a series of algorithms...

Surveillance

interception, and more recently closed-circuit television (CCTV) cameras. Surveillance can unjustifiably violate people's privacy and is often criticized

Surveillance is the systematic observation and monitoring of a person, population, or location, with the purpose of information-gathering, influencing, managing, or directing.

It is widely used by governments for a variety of reasons, such as law enforcement, national security, and information awareness. It can also be used as a tactic by persons who are not working on behalf of a government, by criminal organizations to plan and commit crimes, and by businesses to gather intelligence on criminals, their competitors, suppliers or customers. Religious organizations charged with detecting heresy and heterodoxy may also carry out surveillance. Various kinds of auditors carry out a form of surveillance.

Surveillance is done in a variety of methods, such as human interaction and postal interception...

Hidden camera

is disguised as another object. Hidden cameras are often considered a surveillance tool. The term "hidden camera" is commonly used when subjects are unaware

A hidden camera or spy camera is a camera used to photograph or record subjects, often people, without their knowledge. The camera may be considered "hidden" because it is not visible to the subject being filmed, or is

disguised as another object. Hidden cameras are often considered a surveillance tool.

The term "hidden camera" is commonly used when subjects are unaware that they are being recorded, usually lacking their knowledge and consent; the term "spy camera" is generally used when the subject would object to being recorded if they were aware of the camera's presence. In contrast, the phrase "security camera" refers to cameras that are visible and/or are accompanied by a warning notice of their presence, so the subject is aware of the camera's presence and knows they are being filmed...

Omnidirectional camera

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In photography, an omnidirectional camera (from "omni", meaning all), also known as 360-degree camera, is a camera having a field of view that covers at least a full circle (360°) in the horizontal plane, up to a full sphere (1 spat).

Omnidirectional cameras are important in areas where large visual field coverage is needed, such as in panoramic photography and robotics.

Video camera

more often surveillance and monitoring tasks in which unattended recording of a situation is required for later analysis. Modern video cameras have numerous

A video camera is an optical instrument that captures videos, as opposed to a movie camera, which records images on film. Video cameras were initially developed for the television industry but have since become widely used for a variety of other purposes.

Video cameras are used primarily in two modes. The first, characteristic of much early broadcasting, is live television, where the camera feeds real time images directly to a screen for immediate observation. A few cameras still serve live television production, but most live connections are for security, military/tactical, and industrial operations where surreptitious or remote viewing is required. In the second mode the images are recorded to a storage device for archiving or further processing; for many years, videotape was the primary...

Remote camera

A remote camera, also known as a trail camera or game camera, is a camera placed by a photographer in areas where the photographer generally cannot be

A remote camera, also known as a trail camera or game camera, is a camera placed by a photographer in areas where the photographer generally cannot be at the camera to snap the shutter. This includes areas with limited access, tight spaces where a person is not allowed, or just another angle so that the photographer can simultaneously take pictures of the same moment from different locations.

Remote cameras are most widely used in sports photography. 35 mm digital or film, and medium format cameras are the most common types of cameras that are used.

Camera

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A camera is an instrument used to capture and store images and videos, either digitally via an electronic image sensor, or chemically via a light-sensitive material such as photographic film. As a pivotal technology in the fields of photography and videography, cameras have played a significant role in the progression of visual arts, media, entertainment, surveillance, and scientific research. The invention of the camera dates back to the 19th century and has since evolved with advancements in technology, leading to a vast array of types and models in the 21st century.

Cameras function through a combination of multiple mechanical components and principles. These include exposure control, which regulates the amount of light reaching the sensor or film; the lens, which focuses the light; the...

Pan-tilt-zoom camera

the need for additional wiring. Analog PTZ Camera: Analog pan-tilt-zoom cameras are used to record surveillance footage, which is then stored in a DVR. DVR

A pan-tilt-zoom camera (PTZ camera) is a robotic camera capable of panning horizontally (from left to right), tilting vertically (up and down), and zooming (for magnification). PTZ cameras are often positioned at guard posts where active employees may manage them using a remote camera controller. Their primary function is to monitor expansive open regions that need views in the range of 180 or 360 degrees. Depending on the camera or software being used, they may also be set up to automatically monitor motion-activated activities or adhere

to a defined schedule.

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