

CCTV & Surveillance Systems ▶

In new age companies and organizations of the 21st century have become more conscious about their security and as a result surveillance systems have gained huge importance. Surveillance is the monitoring of behaviour and it includes simple methods such as direct observation, observation with binoculars, cameras. Many organizations today want to shore up the safety and security of their employees, visitors and students as well as their premises and assets, hence seek for innovative, affordable alternatives that deliver rapid and appropriate responses to crimes or Security threats.

Imaging Devices i.e. Digital & IP Cameras, Storage Devices i.e. Digital & Network Video Recorders and LCD Panels are the most important components of CCTV & Surveillance systems.

Imaging Devices ▶

Box Camera



It has modular structure, provides good quality images and can be installed anywhere with suitable housing. There are models available with Motion detection, digital noise reduction, digital image stabilizer function and zoom facility. These come with fixed/variable focal length lens.

IR Camera



Used for surveillance purpose where & when there is insufficient light to see. Infrared light sources can be used to augment the available ambient light for conversion by night vision devices, increasing in-the-dark visibility without actually using a visible light source.

Speed Dome Camera



These cameras work at a higher revolutionary speed and can be managed from the controller. The camera can be rotated upto 360 degrees. The PTZ ability allows the security guard to analyse events. Features like waterproof and anti-aging properties with full environmental protection are available. Suitable for entry, exit points.

Dome Camera



It is compact and self contained. Is suitable for indoor and outdoor use. A smoked or tinted security dome camera can deter theft in many locations because of its design i.e. as the direction in which the camera is pointing is not visible. There are models available with Motion detection, digital noise reduction, digital image stabilizer function and zoom facility. These come with fixed/variable focal length lens.

Performance IR/ Bullet Camera



They are self contained with lenses, IR LEDs, mounting brackets and weather hardened enclosures. Suitable for indoor & outdoor use.

IP Camera



IP cameras captures and transmits video and audio over Ethernet LAN and WAN to network video recorder (NVR) and further to the end computers and these components together make up a IP based video surveillance & security system. Robot PTZ, Dome camera etc offer IP options.

Vandal Proof Camera



Comes with rugged housings, break-resistant type shielding, and tamper-proof screws. Materials used can protect the camera against physical attack such as hammer knocks, drops etc. Suitable for high security locations; prisons, outdoors etc.

Robot PTZ Camera



PTZ stands for Pan, Zoom and Tilt. Essentially, a PTZ camera is set in a particular place, but has the ability to turn, usually in a complete circle (PAN). TILT at different angles both up and down, and ZOOM in on particular objects. A variant offering thermal image is also available.

HD Camera



High Definition or HD as name suggests cameras captures video in HD format 720p and 1080p enabling crystal clear image reproduction. Video can be transmitted via standard coaxial cable. Box, Dome and Robot PTZ offers HD option.

KAREL cameras are powered by smartV silicon

smartV is a specialist CCTV camera chip enabling

- Real time operations on camera functions
- BLC
- HLM
- 3D DNR
- AGC
- WDR
- Privacy masking
- High quality motion detection
- Mirroring

Reduces cost & power consumption



Storage Devices ▶

DVR



A Digital Video Recorder (DVR) is a device or application software that records video in a digital format to a disk drive, USB flash drive, SD memory card or other local or network mass storage device.

Different models of DVR offer upto 16 channels, storage upto 8 SATA(16 TB) internal HDD, H.264 compression and are Pentaplex i.e. capable of five operations paralely.

NVR



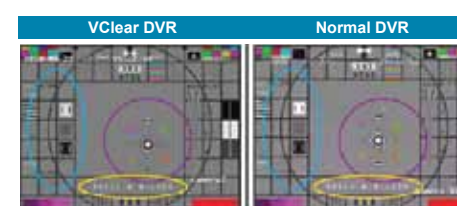
A Network Video Recorder or NVR is an internet protocol based device that sits on the network. Because they are IP based, Network Video Recorders can be managed remotely via LAN or over the Internet giving you greater flexibility. The basic function of an NVR is the simultaneous recording and remote access of live video streams from IP camera.

Patented Technologies for x 28 series DVRs ▶

- VSecureNetTM, network intrusion protection technology that guarantee network data security against unauthorized access



- VClearTM removes noise in the base-band video and increases pixel correlation, resulting in superior video quality at much lower bit rates than otherwise possible.



- JSCATM (Joint Source-channel Coding Adaptation) analyses the channel condition and adjusts the source coding parameters accordingly, resulting in superior network performance.



- VSafeTM, the video analysis technology, implements advanced video analytics, such as object recognition and extraction, motion detection and tracking, etc.



DVR



A digital video recorder (DVR) is a device or application software that records video in a digital format to a disk drive, USB flash drive, SD memory card or other local or networked mass storage device. Uses Patented VClearTM & JSCATM technologies.

Hybrid DVR



A DVR (Digital Video Recorder) commonly used for surveillance that lets the user connect both analog and IP cameras to the newly-built or existing surveillance system. Uses Patented VClearTM, VSecureNetTM, VSafeTM & JSCATM technologies.

HD DVR



A HD DVR is a digital video recorder capable of recording in high definition. This is a newer addition to the DVR market that is becoming increasingly popular. Uses Patented VSafeTM & JSCATM technologies.



Intrusion Detection Systems ▶

Intrusion or Burglar alarms are systems designed to detect unauthorized entry into a building or area. It consist of an array of sensors, a control panel, alerting system and interconnections. Sensors detect intruders by many methods such as monitoring door and window contacts, by passive infrared motion detectors, ultrasound, vibration, electric or magnetic fields, or microwaves. Sensors may be directly wired to a control panel that provides sensor power or may communicate wireless.

Intrusion alarm systems may also be combined with closed-circuit television surveillance systems to automatically record the activities of intruders, and may interface to access control systems for electrically locked doors. Systems range from small, self-contained noisemakers, to complicated, multi-zoned systems with color-coded computer monitor outputs.

Karel Intrusion system are robust and designed to inter operate or integrated with next generation products for different applications. Systems work without interruption for long periods and under extreme conditions. Our systems support multi- language and Fire, police, medical help dual button shortcuts and up to 32 custom hot keys are available. Karel Intrusion systems provide proximity reader option so only one panel can be used instead of 4 panels (partitions feature).



Highlights ▶

- 6 to 32 hard wired programmable zones
- Auto Arm
- Built-in communicator for PSTN LINES for CMS and personal calling
- Full Contact ID communication protocol;
- Integrated USB interface for programming
- Telecom line cut supervision
- Keypad with temperature sensor
- Remote Control by using cell phone(Android)
- Programming system parameters with PC.
- Remote Update and programming by GPRS,PSTN and LAN
- 1024 event log, including date, time, user name/zone
- 4 Partitions
- 3 PGM
- Hybrid Structure
- 1.0A switching-mode power supply with short-circuit protection, battery charge & discharged battery disconnection circuits
- Comes with Deluxe 32- character backlit, dual-line LCD display Keypad

Detectors & Sensors ▶



PIR : measures infrared (IR) light radiating from objects in its field of view. Can be installed on indoor wall (opposite the door and above door) with its suggested installation height. Outdoor models can be installed at any places according to max range of detection.



PET Detectors : It detects only human not pet, it Can be installed on indoor wall (opposite the door and above door) with its suggested installation height. Outdoor models can be installed at any places according to max range of detection.



Magnetic contacts : Gate and Windows can be protected against intruders by using magnetic contacts. When door and Windows are violated or opened, signal is sent to control which triggers the alarm.



Dual Technology PIR : Uses two technologies i.e. microwave and PIR can produce alarm only when both trigger simultaneously. It reduces false alarm. Pet type as well as out door type are available.



Beam Detectors : Two beams are applied and if somebody passes in front of the detectors, it triggers the alarm. It simulates outdoor solution like fence.



Smoke Detector : Detects the smoke and sends signal to the control panel for an alarm if it exceed the set limit. Can be installed in the kitchen and rooms.



Gas Detectors : Detects the level of gas and sends signal to the control panel for an alarm if it exceeds the set limit. Can be installed in the kitchen and rooms.

Alarming Devices ▶

- Bells (WD Warning Devices), Sirens
- Strobes, Lights
- Voice & Video Call

