Integrated Communication & Surveillance Solution for Residential Complexes

Advantages

- Karel PBX at the centre
- Call waiting
- Free calls to other House units
- Easy IP Installation
- Supports SOHO Surveillance & Home Automation
- Compatible with: Analog Telephone PBX Analog Surveillance Systems
- Supports all SIP videophone systems
- Economical Solution for video and audio communication
- Any IP phone anywhere in the world can call the house unit
- Easy cabling



SIP-Based Intercom System >>

Karel's SIP devices are designed to co-work with IP Video Phone to create an integrated SIP based door entry system. This system can fully utilize the SIP protocol to link to SIP VoIP services which customer might be using and can also be integrated with existing Telecom systems.

These devices provide Home Security for daily life to customers on their community network. IT lets customer to set Security areas in your house and it helps to guard the home safe by sensing abnormal situations (CO, Gas, and Emergency Button). Once alarm is triggered, three calls will automatically be made to predefined destination with Alarm Speech Announcement.

The system allows to view live video (Surveillance) up to 12 cameras, so you can see what's happening in other rooms and outside your house. Messages that include alarm record, visitor record (pictures of visitors), call record, and community notice can be read through the indoor station.

SIP-based Video Indoor Station supports several high quality audio and video codecs. It acts like a SIP video phone that allows you to make video phone calls to the friends and neighbors.









Key Features:

- SIP Protocol (RFC3261) Compliant
- · Register to Standard SIP Based IP PBX as an Extension Number.
- · Built-In Color Camera
- Built-In Speaker and Microphone
- GPIO Ports for External Usage

Access Control System >>

All businesses; small, medium and large, needs to protect their property, assets & staff. It is common in buildings that are secured by locks and keys for doors to be left unlocked all day. This also creates unwanted intrusion such as theft and malicious damage.

An access control system determines who is allowed to enter or exit, where they are allowed to enter or exit, and when they are allowed to enter or exit. Historically this was partially accomplished through keys and locks. Mechanical locks and keys do not allow restriction of the key holder to specific times or dates & do not provide records of the key used on any specific door and the keys can be easily copied or transferred to an unauthorized person. When a mechanical key is lost or the key holder is no longer authorized to use the protected area, the locks must be re-keyed.

Electronic access control uses computers to solve the limitations of mechanical locks and keys. A wide range of credentials can be used to replace mechanical keys. The electronic access control system grants access based on the credential presented. When access is granted, the door is unlocked for a predetermined time and the transaction is recorded. When access is refused, the door remains locked and the attempted access is recorded. The system will also monitor the door and alarm if the door is forced open or held open too long after being unlocked.











Karel Access control systems provide security and flexibility for buildings, staff and assets. From one door up to 100's of doors across multiple sites. Karel has a solution to suit your needs.

Components >>

- 1) Controller
- 2) Readers
- 3) Types of Cards / Methods
- There are three types (factors) of authenticating information:
- something the user knows, e.g. a password, pass-phrase or PIN
- something the user has, such as smart card or proximity card
- something the user is, such as fingerprint, verified by biometric measurement

Benefits >>

- · Protection of classified document and property
- Prevention from access of unauthorized person
- · Provision of security with access control by access door, by region,
- · Optimized management with remote control (among headquarter

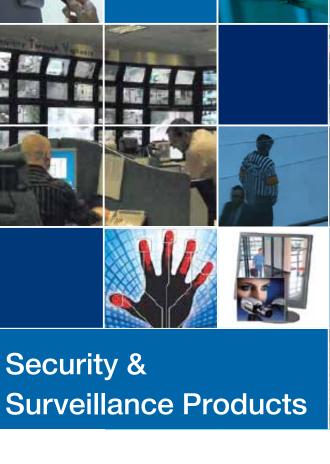
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· Alarm and fire event notice via E-mail and via SMS to minimize damage by rapid action.







Intellicon, an integrated technology solutions company functioning in the Enterprise Communication, Information Technology and security & Surveillance domains, is today regarded as an ideal partner for organizations looking at Transformational IT solutions. Intellicon's pan India presence, combined with its acknowledged capability to optimize its core capabilities across diverse technology platforms, fine human resource compliances and commitment to quality and support facilitates, the delivery of best in class solutions resulting in complete customer delight. In an age of convergence Intellicon paces the future with an excellent performance paradigm.



Karel Electronics Corporation, a leading European telecommunication company is engaged in the design, development, production and marketing of all types of communication systems, control cards for industrial control equipments and military equipments. Karel has a strong and widening presence in the global market and is the market leader in the African and Middle East markets. Karel collaborates with reputed companies to develop projects for private and public companies offering optimized solutions to various industry verticals. In a span of over 10 years Karel enjoys significant market share in Government & SME segments.

Security is the degree of protection against danger, damage, loss, and crime. Security is a form of protection where a separation is created between the assets and the threat. This includes but is not limited to the elimination of either the asset or the threat. There are many ways and means to perform security such as Surveillance / Access Control / Intrusion Alarms, not to forget data security which requires layers of virtual protection.

Karel Electronics, a leading player in enterprise communication and electronics manufacturing has also acquired significant presence in electronic security system & solutions domain. In recent years, the organization has introduced an extraordinary range of solutions across Intrusion Detection, Video Surveillance, Access Control & Apartment Systems Technologies. The core focus is aimed at monitoring and protecting infrastructure & facilities which perceive a threat to establishments like government and private institutions, banks, hotels, factories and extends to schools, hospitals,

The unique nature of these assets accentuates the need for customized security solutions. It also cascades a sustained need for trusted & reliable Partners and Systems Integrators with the capability to design and develop solutions, specific to each facility and duly complemented by best in class support to upscale the customer experience.



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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 >>





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.



source.



Used for surveillance purpose where &

when there is insufficient light to see. Infrared

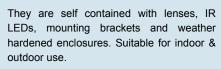
light sources can be used to augment the

available ambient light for conversion by

night vision devices, increasing in-the-dark

visibility without actually using a visible light





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.



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



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, breakresistant 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.



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.

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.

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 parallely.

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



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







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

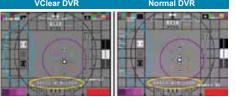


A HD DVR is a digital video recorder capable



pixel correlation, resulting in superior video quality at much lower bit rates than otherwise possible.

VClearTM removes noise in the base-band video and increases



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





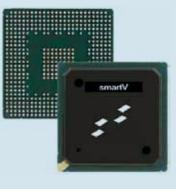
of recording in high definition. This is a newer addition to the DVR market that is becoming increasingly popular. Uses Patented VSafeTM & JSCATM technologies.

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







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 closedcircuit 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, multizoned 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).





Remote Update and programming by GPRS,PSTN and LAN



Highlights >>

- · 6 to 32 hard wired programmable zones
- 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.
- 3 PGM · Hvbrid Structure

4 Partitions

disconnection circuits

 1.0A switching-mode power supply with short-circuit protection, battery charge & discharged battery

• 1024 event log, including date, time, user name/zone

 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



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.



signal to the control panel for an alarm if it exceed the set limit. Can be installed in the kitchen and

Smoke Detector: Detects the smoke and sends



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







