

CCTV

# SURVEILLANCE

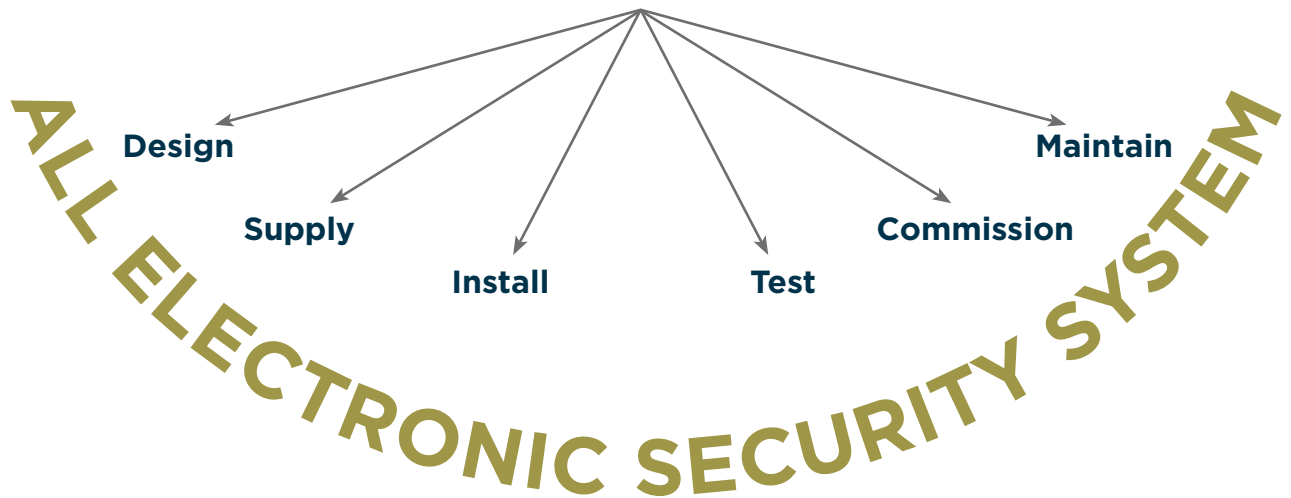
Rayce





# QUALITY SECURITY THAT YOU TRUST

**Rayce Electronic Intelligence India Private Limited**



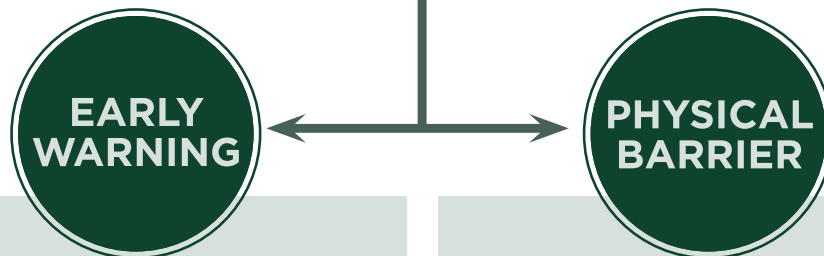
# Electronic Security System

- Each type of system has its own role to play
- Each system differ as per the requirement
- Developed by the Security Industry to minimize security risk



# Intruder Alarm System

Plays 2 Roll within the Security System



Warning of the manpower requirements - **where and when needed at the scene of the incident**

Alarm will sound - **when the intruder crosses the barrier**

**Usually installed at large sites...**

...where intrusion into the grounds must be detected before access to any building has been obtained  
A guard force that operates on the site itself normally responds to these system

**Also installed to secure unoccupied premises**

Are manufactured to eliminate false alarms as far as possible

## Also known as “Indtruder Detective System”

**Its a device to identify intrusion of unauthorized person in a restricted area**

Divided into three parts for the purpose of Comprehension

**Controller:**  
Input devices  
or sensors

**Controller:**  
Output devices  
to siren, blaster,  
auto dialer, strobe light

**Data for Control Room (CR)**

+ve

**Essential for effective security**

Can alert the security guards to intrusions at protected facilities giving them early warning

At best, it provides an earley warning of an attempted intrusion allowing time to

-ve

**However, an intruder alarm by itself does not provide any protection**

- respond before access to risk has achieved
- take next course of actions

# Perimeter Protection System

**Electronic Device used to protect a particular area by way of Transmitter and Receiver**

## Using Photo Electric Beam Sensors



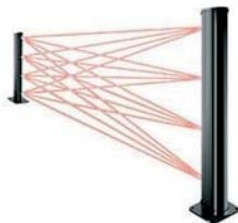
Dual Beam



Quad Beam

It has various ranges : 30 Mtrs, 50 Mtrs, 60 Mtrs, 100 Mtrs & 200 Mtrs.

It sends out the light beam which is being received by a receiver with out any sound.



Mainly used for Security purposes, to protect buildings, stores and any other vital areas from intrusion.



Once the transmitted beam is interrupted, then it activates the Control Panel and trigger an alarm.



### APPLICATION

- Residence/Estagte Bungalows/ Farm House
- Factories/Manufacturing Unit
- Office Premises
- Stores/Material Yards/Scrap Yard
- Logistics

### Main Advantages

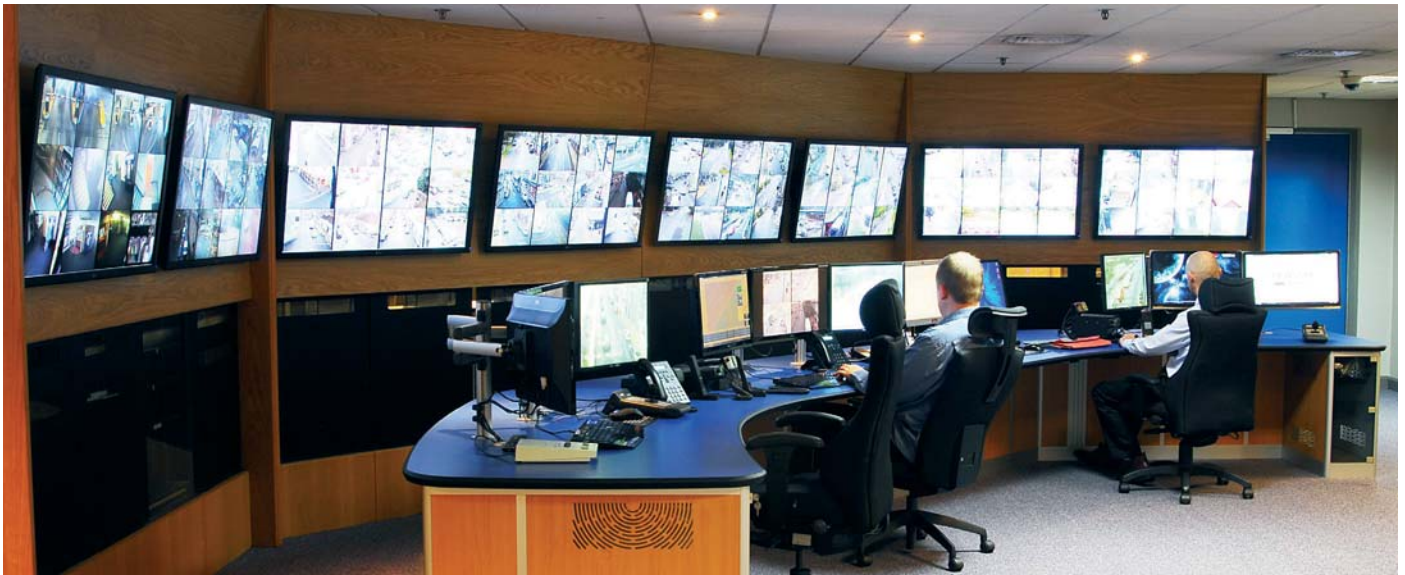
- Being invisible it is difficult to defeat system
- The best spectral match to most phototransistors which are commonly used as the light receiving element

### Additional Features

- Flood light integration
- Camera Integration
- Door Control Integration
- Auto dialet integration
- Control Monitoring Station Integration



# Closed-circuit television (CCTV) System



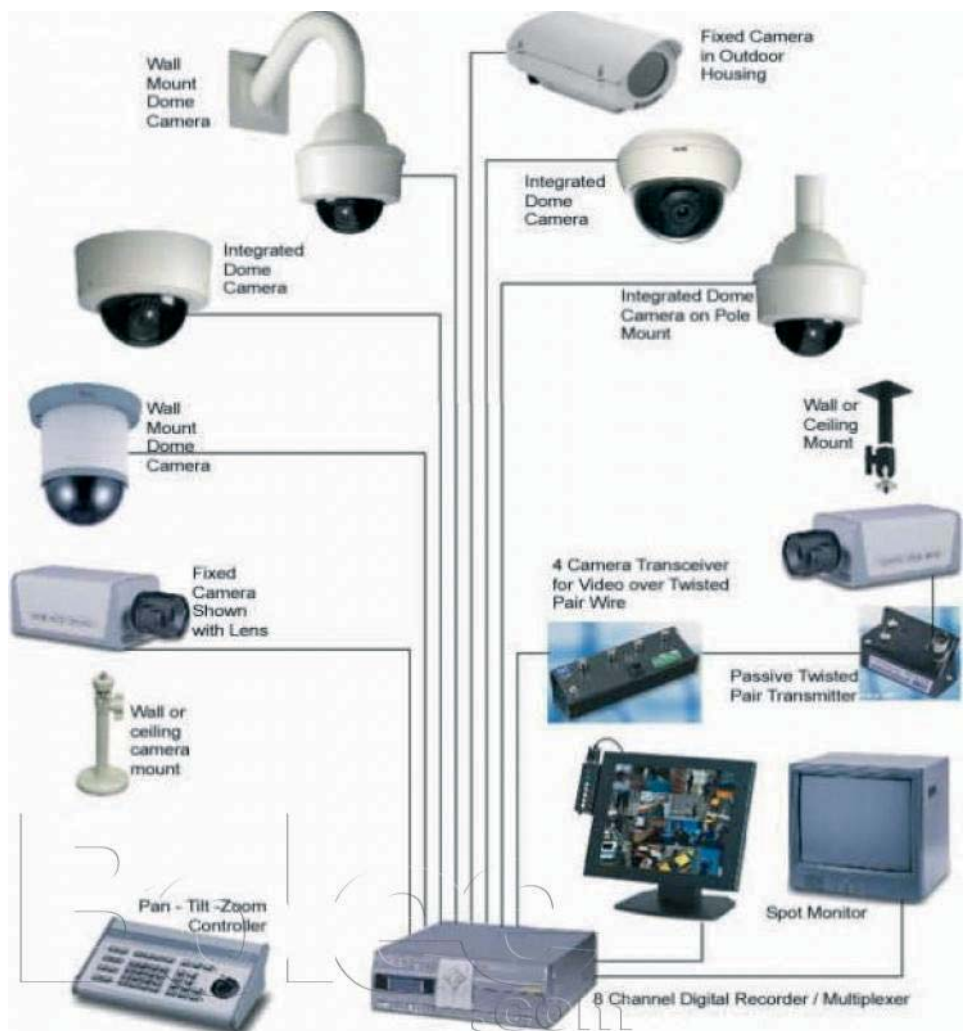
CCTV is the use of video cameras to transmit a signal to a specific place, on a limited set of monitors.

It differs from the broadcast television in that the signal is not openly transmitted, though it may employ point to point (P2P), point to multipoint, or mesh wireless links.

It is an extension of an operator's own vision used for surveillance.

"More Ground" can be easily viewed and controlled.

Effectively used to provide perimeter detection through Video Motion Detection (VMD) systems and remote surveillance through Dial-in-Video System.



# Types of Camera Housings

## Vandal proof housin



## Explosive proff housing



## Weather and dust proof housing



## With cooling facility of cameras operating in high temperature areas





# Video Management Equipments



## Mini Dome Colour Camera

- The 1/4 inch CCD mini colour camera
- Comprising solid state circulatory housed in a casing
- Resolution of more that 480 TV lines for better image
- Work on external 12 Volts DC power supply
- Camera c/w with built in 3.8mm lens to cover the wide are (Angle of 0-60 degree)
- Output will be connected to a 16Channel Digital Video recorder for viewing and recording



## Set Camera with Fixed Lens

- High resolution camera
- 1/3" format CCD camera comprising solid state circuit housed in a IP66 weather proof housing
- Fixed with 4mm Auto Iris Lens to cover the wider area
- Work on external 12 Volts DC power supply
- Camera c/w with built in 3.8mm lens to cover the wide are (Angle of 0-60 degree)
- Output will be connected to a 16Channel Digital Video recorder

# CCTV Camera



Security Vision Systems



# Video Management Equipments



## Digital Video Recorder

### Other features

- Every alarm transaction event via the SECURITY SYSTEM (will triggers the DVR to record event, programmable by the administrator) or continuous recording (pre-defined time interval, eg. 1 or 5 minutes) of the associated CCTV camera(s)
- True Multi Tasking Operation → Monitor, Record, Playback, Archive and Retrieve at the same time allowing investigation and debriefing while recording continues.
- Application Programming Interface (API) allowing integration with other security management systems.

## LCD Monitor and Display

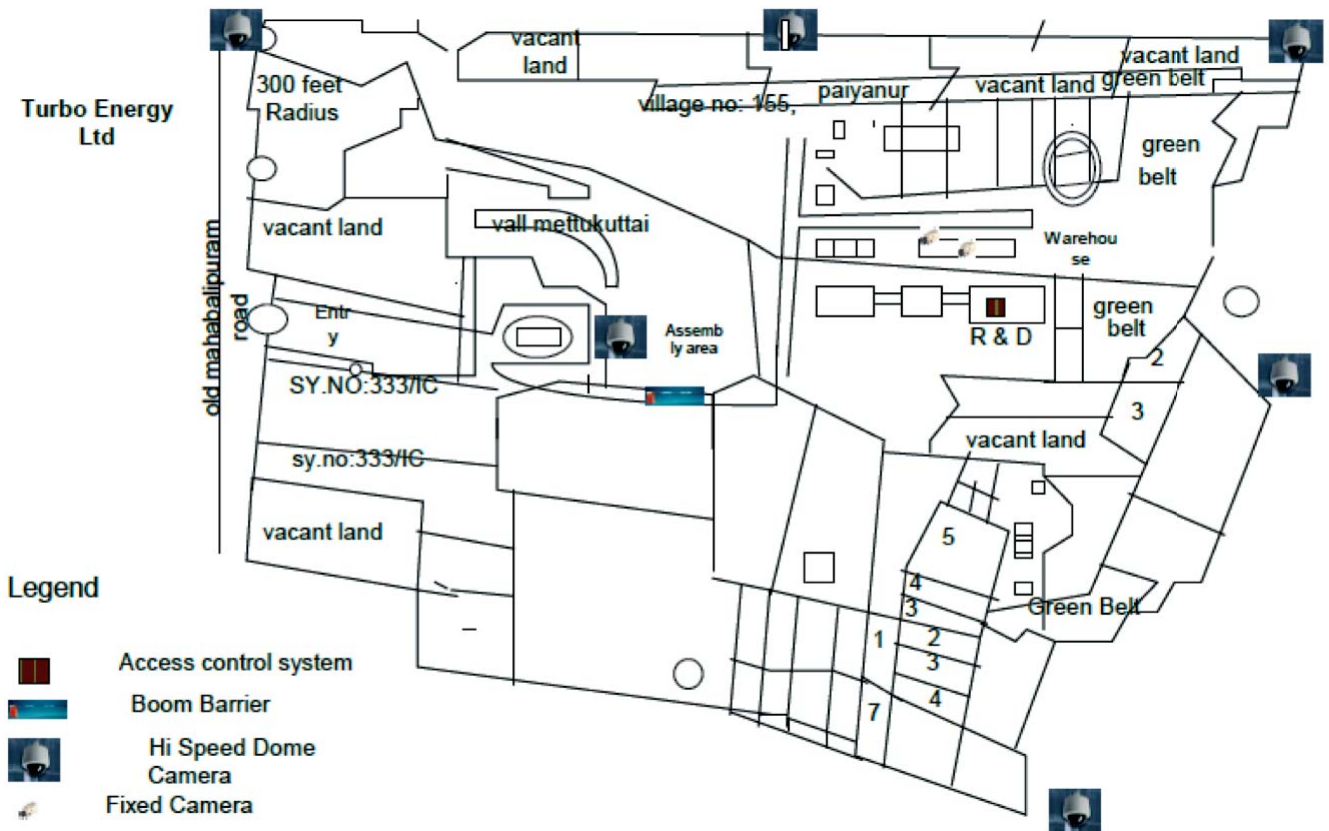
**LCD displays: Deliver the resolution and reliable operation you demand for head-end operations**

### Features:

- High resolution image reproduction
- 16:9 ratio wide screens
- Wide range viewing capability
- True Colour reproduction
- Multiple inputs for multiple sources
- Selectable scan size

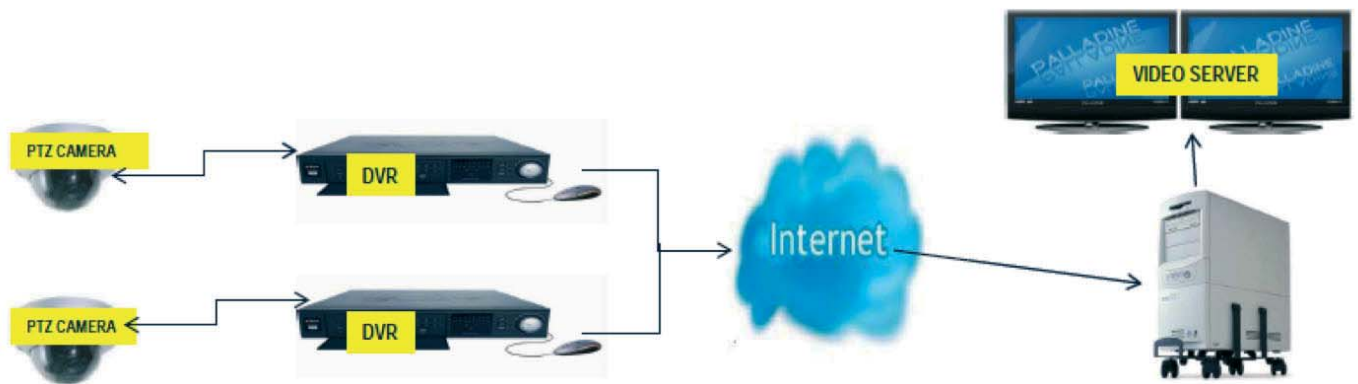


# Perimeter - Surveillance



# Remote View Configuration

- The control centre would provide state of art surveillance technology to control all the cameras through a single platform including complete management of sites regardless of their location.
- Manager should be able to view pool of cameras from different systems at a single click of mouse.
- Each server or workstation should be made connected to maximum 1 LCD monitor so as to provide easy accessibility of systems as and when required by the operators.



## Active Devices





# Access Control Systems

## Access Control System

Designated to allow only the authorized, Personnel to restricted area

- Form an aid to the PHYSICAL BARRIERS, as manned access control does on a gate or door.
- Secondary design feature for easy locking procedure during unoccupied periods
- Access Control Points are unmanned and the system can be abused in a number of ways → the system must incorporate some form of alarm system. → Means it also plays a part in the role of EARLY WARNING.



## Electronic Access Control System



Main Gate Barrier



Entrance Gate Barrier



Biometric Time Attendance



Readers and Controllers

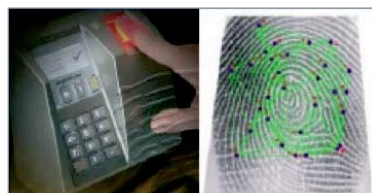


Proximity Card

## Types of Access Control System



Palm



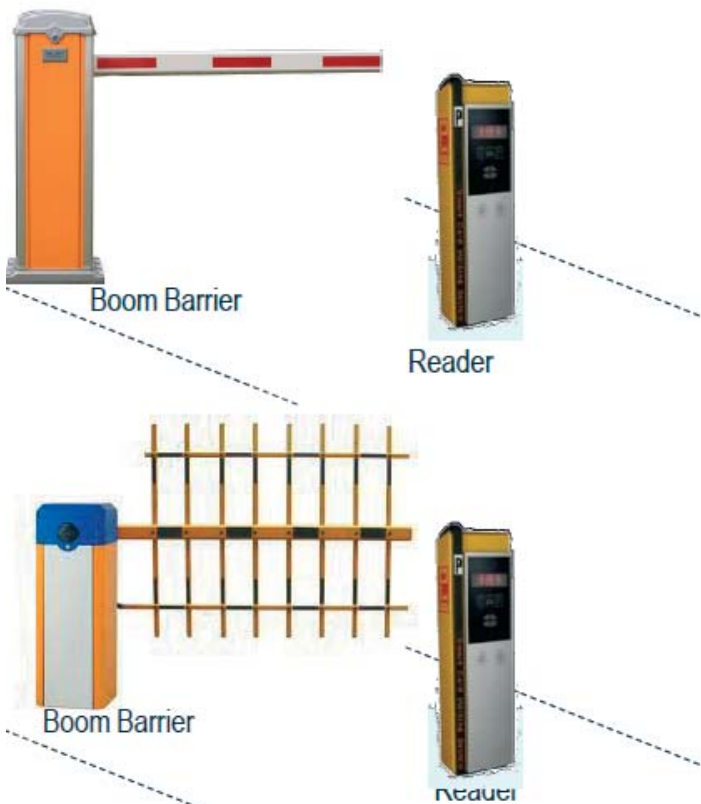
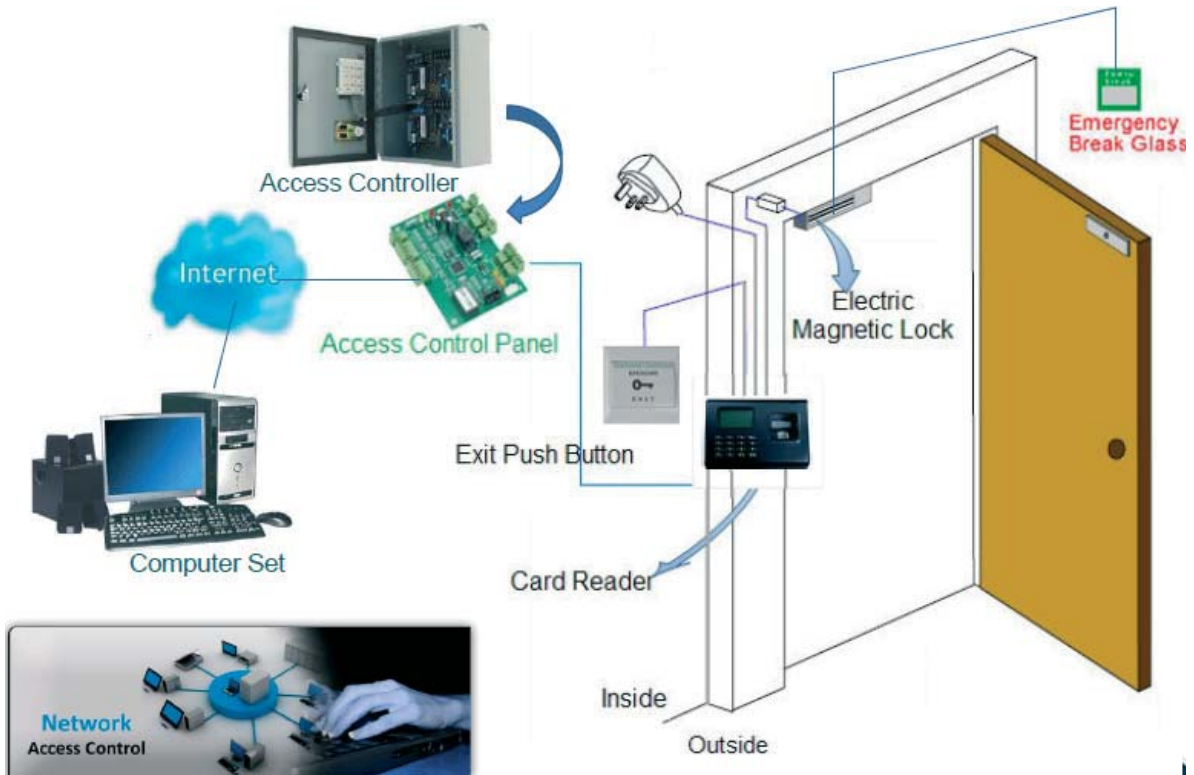
Finger



Eye



# Networkable Access Control System



## Boom Barrier

- It denotes access control device for vehicles.
- The system works on motor mechanism
- The readers will be placed near the barrier
- The owner of the vehicle has to show the card in front of the long range card reader to open the barrier
- The boom barrier will have the sensor, in case the vehicle doesn't pass the barrier within the programmed time the barrier will not come to the normal stage until the vehicle passes the barrier.

# Networkable Access Control System



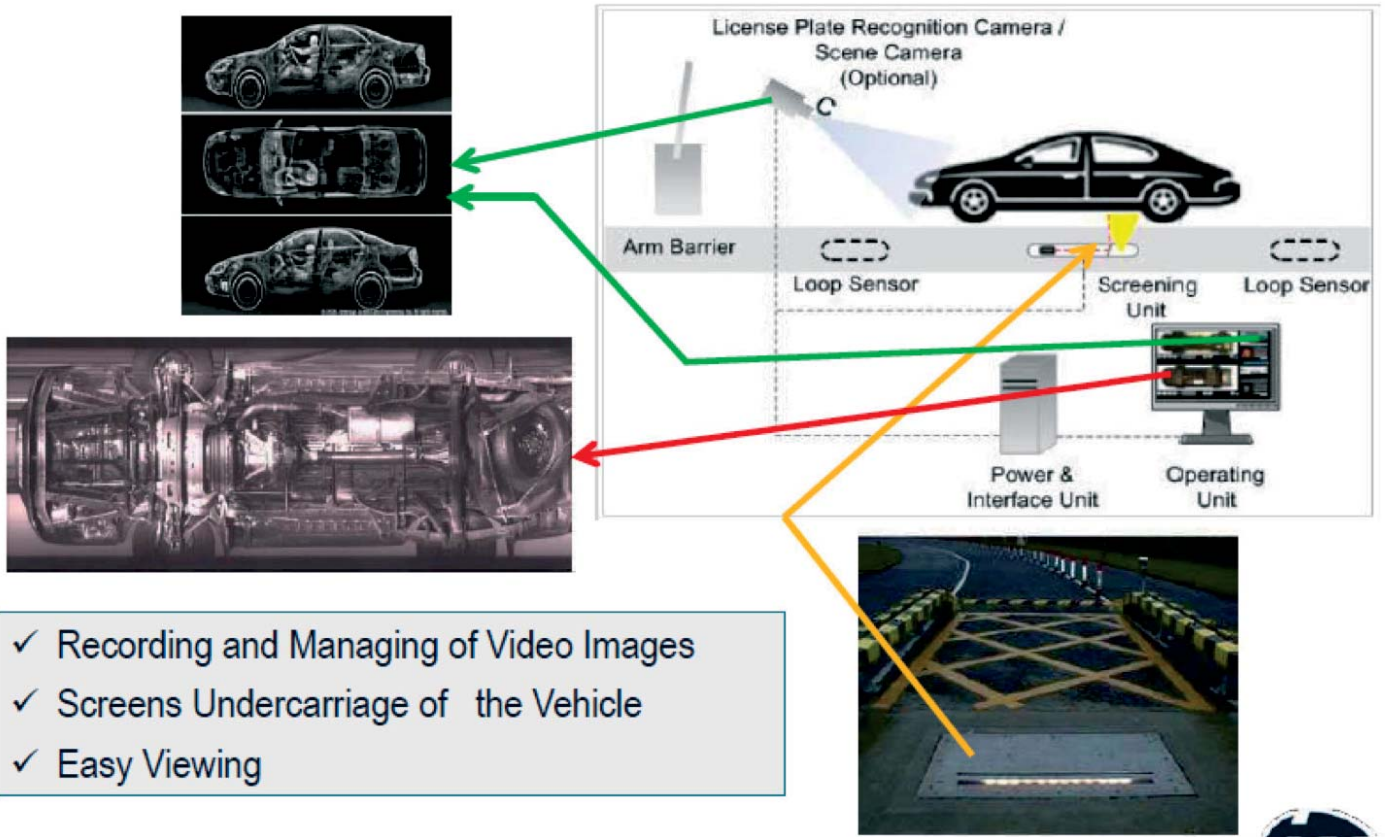
## Biometrics-Finger print access control

**The Network Fingerprint Recognition system for Door-Access, Time & Attendance Employee Management and combination with Voice Identification**

- Message transfer by LCD screen and Voice
- Alarm Sound during a forced open
- Automatic Lock status Checking
- Real time monitoring on Central server
- Manages employees time and attendance
- Supports both TCP/IP and State-alone condition
- Central access controlling by using the existing LAN facilities
- Voice and Video communication through various Videophones



# Under Vehicle Screening System



# Turnstiles-Access Control



Compact Flap Barrier

High Security Portal



Waist-High Turnstile

Full Height Turnstile





# Passive Security Solutions – Anti Terrorism



## Electronic Guard Tour Monitoring System



The Electronic Guard Tour Monitoring System is designed to provide an efficient and effective Management of Guard patrolling / routing maintenance activities at a reasonable price

### Features

- Simple to use and easy to install
- Eliminates close supervision on guards
- High performance and consistent error free reading
- Latest in touch memory chip technology with extremely durable touch probe data collector and user friendly window based system management software.
- Generates real time clear concise management reports with time-stamping recording of guard identity, check point location and exception events recording.

# Fire Alarm Systems

## Types of Fire Panel

### Conventional Type

- It is the older economical version
- In this area to be protected is divided into number of zones.
- The Fault is analyzed zone wise and indicated at the panel.
- Exact location of the fire in the affected zone may not be known till on site inspection is carried out by the fire officer (but it may be too late to take action)
- Suitable for small installations where some personnel are always available to complement the flow of information by their visual observation.



### Components:

#### Fire Control Panel

- It is the Main Processor to identify fire and trigger the alarm.
- In built Amplifier with pre-programmed voice message to trigger
- If announce location of fire and where to exit and how to exit without panic
- Equipped with intercom Facility for talking to fire officers at different locations to co-operate the fire fighting
- Equipped with Visual Indications on the panel of various fault conditions and status of various input devices during fault condition
- Self check facility
- Output to trigger relays which in turn can operate Pumps, Hydrants other devices like lifts to be brought to ground floor automatically
- Shut AC air circulation unit to kill fire
- Trigger gas based fire fighting equipment to open gas cylinder to spew gas and squeeze to operate sprinklers.





# Fire Alarm Systems

## Components: Detectors

- They are Sensors fitted above and below false ceiling
- It detect smoke and intimate the control panel about prevailing environment 3 sqm around it.
- Three types of Detectors
  - Optical Smoke Detector (OSD)
  - Ionisation Detectors (ISD)
  - Heat Detectors (HD):
    - Fixed Temperature Type
    - Risen Temperature Type
- Each one detectors tie condition as per their design characteristics



## Hooters

Different decibe levels for external warning (Sound Level)



# Fire Alarm Systems



**Sirent**

For internal audio alert



**EMS Wireless Fire Alarm Sensors**

**Radio Fire Alarms**



**EMS Wireless Fire Alarm Controllers**



**EMS Ancillaries**



**Hotel Fire Alarms**

# Fire Alarm Systems

## Analogue addressable Fire Alarm Control Panel

### Loop

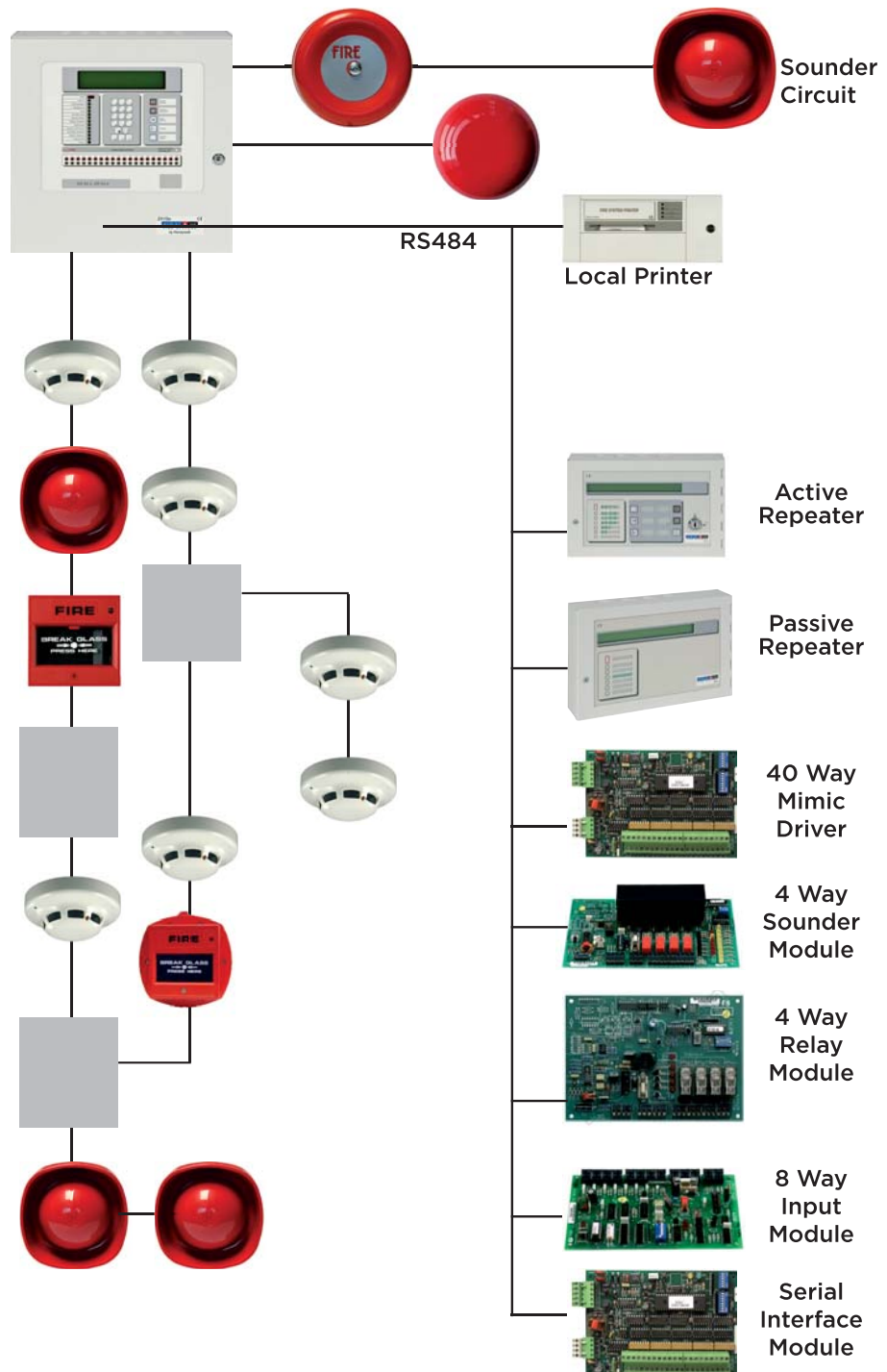
- The FIRE ALARM CONTROL PANEL will be a 4 loop panel
- Each loop will be able to address 126 addressable detectors/devices.

### Day / Night Setting

- The FIRE ALARM CONTROL PANEL will have the facility to set each smoke sensor sensitivity remotely.
- It will also be possible to set the sensitivity to a global high or global low based on night or day time.

### Sake Test:

- The FIRE ALARM CONTROL PANEL will have the facility to perform soak test such that an operation can be periodically checked out for all initiating devices.
- As each device is connected to the FIRE ALARM CONTROL PANEL it will log the condition and automatically reset the device



# Sprinkler System

- The System designed generally based on the requirements of TAC regulations.
- The System consists of Alarm Valve, Sluice Valve, Strainer, Piping, Sprinklers etc.
- Sprinklers are provided in such a way that the proposed area is covered by adequate water supply.

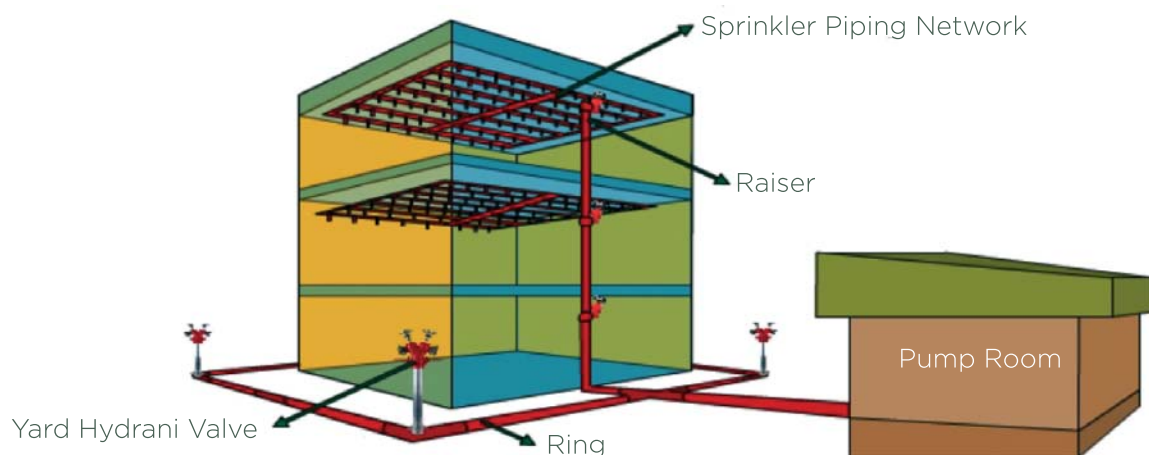


## Dry Powder Stored Pressure Fire Extinguisher

We offer a wide range of dry powder stored pressure type extinguisher, which are useful for class A B C & D fires involving combustible material like wood, paper, cloth, flammable gas, liquid petrol, paints solvents & electricity started fires & all classes of fire.



## Fire Fighting & Fire Protection System for high rise building





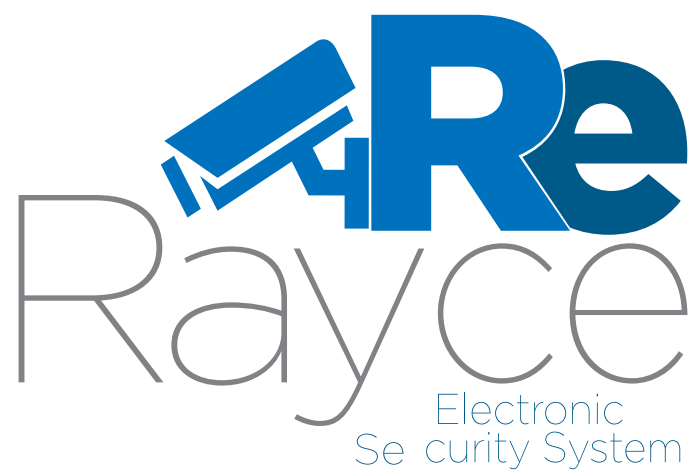
# HD over Coax 2.0

## HDCVI-always leading HD innovation

HDCVI 2nd Generation cameras completes its portfolios with 1080P/720, vari-focal, transmission accessories as well as brand new TX-chip embedded with ISP, ushering a new stage of HD over Coax 2.0.







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