# Integrated Perimeter Protection Solution

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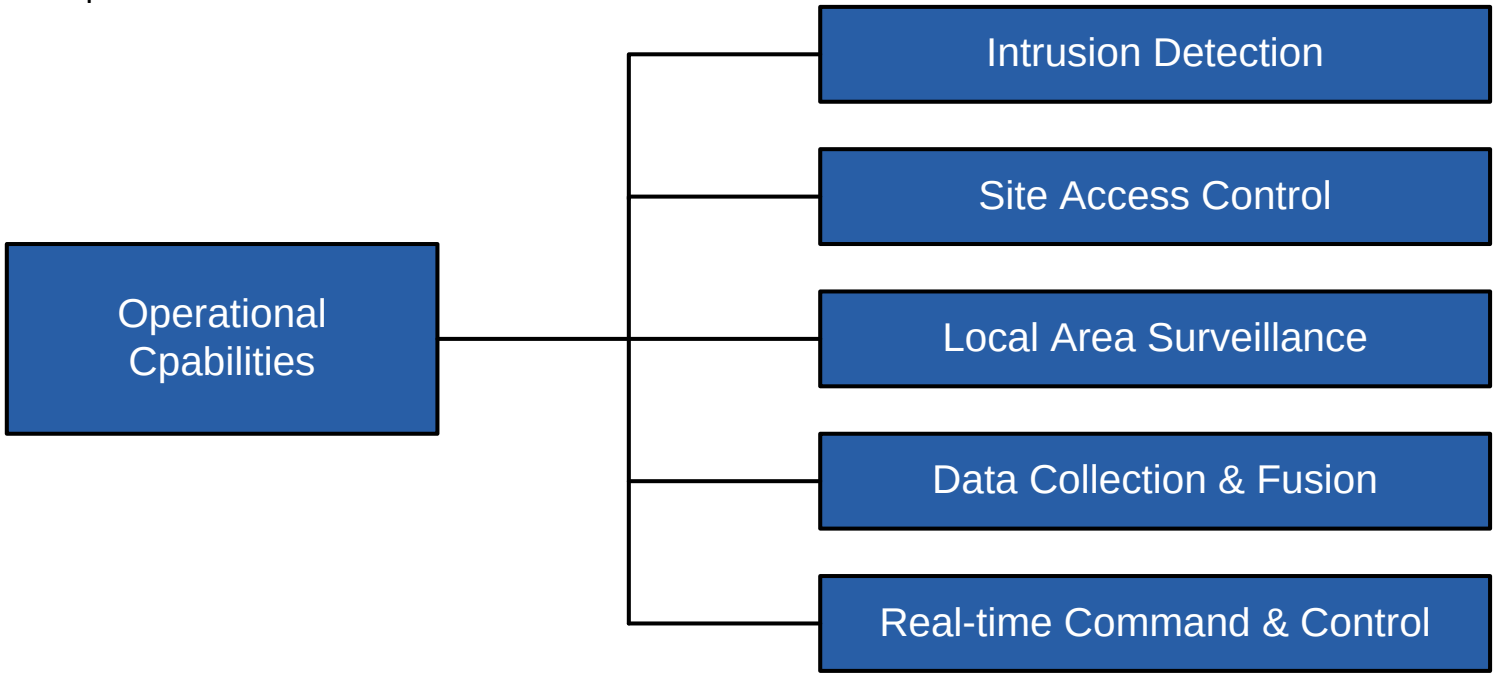
- Operational Capabilities
- Activities & Functions
- Intrusion Detection
- Site Access Control
- Data Fusion- Recognition
- Command & Control Center
- Special Security Subsystem

# Operational Capabilities

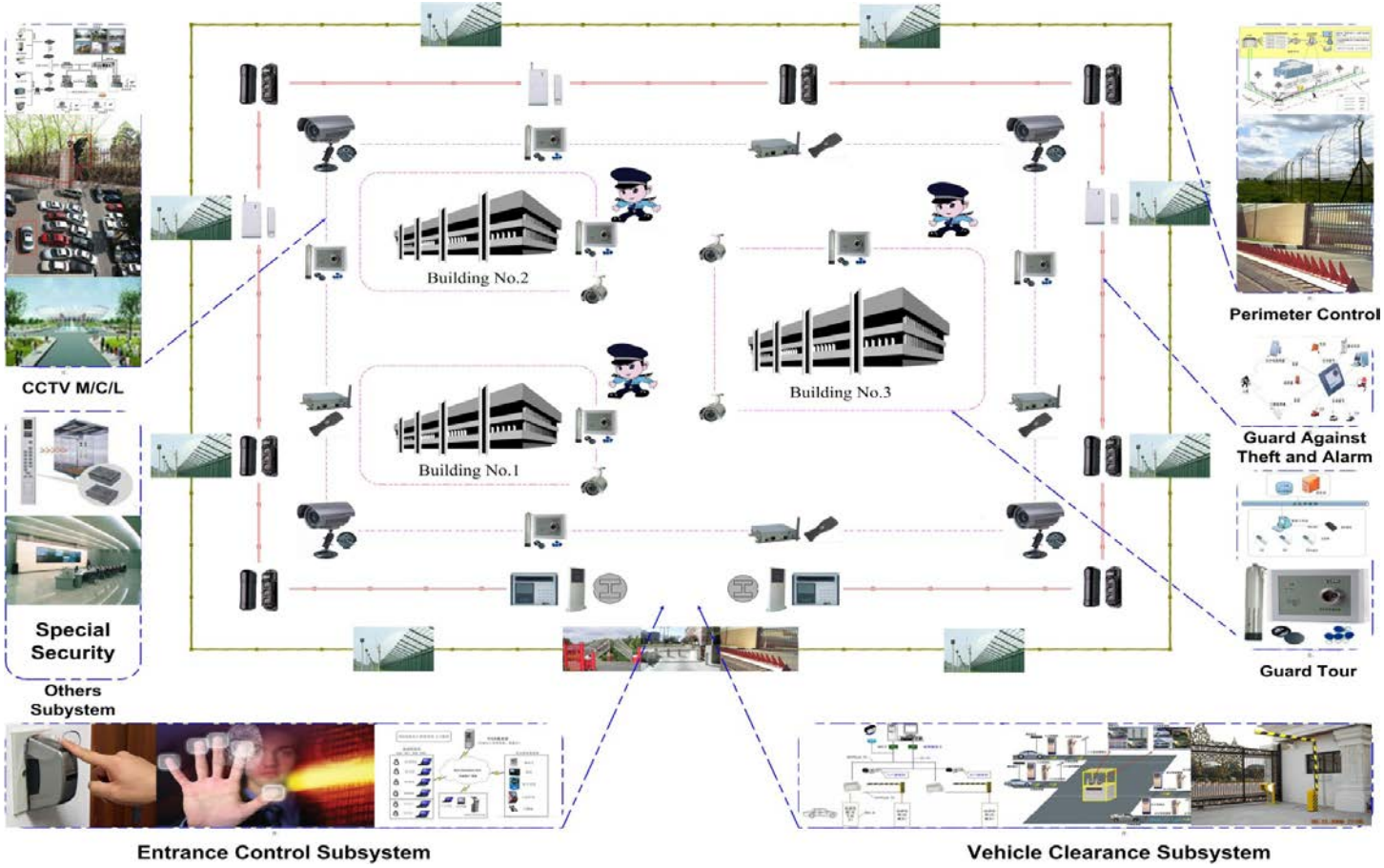
# Operational Capabilities

Starting from the objectives and through the application of proven methodology, a set of micro capabilities have been defined.



# Activities & Functions

# Activities & Functions

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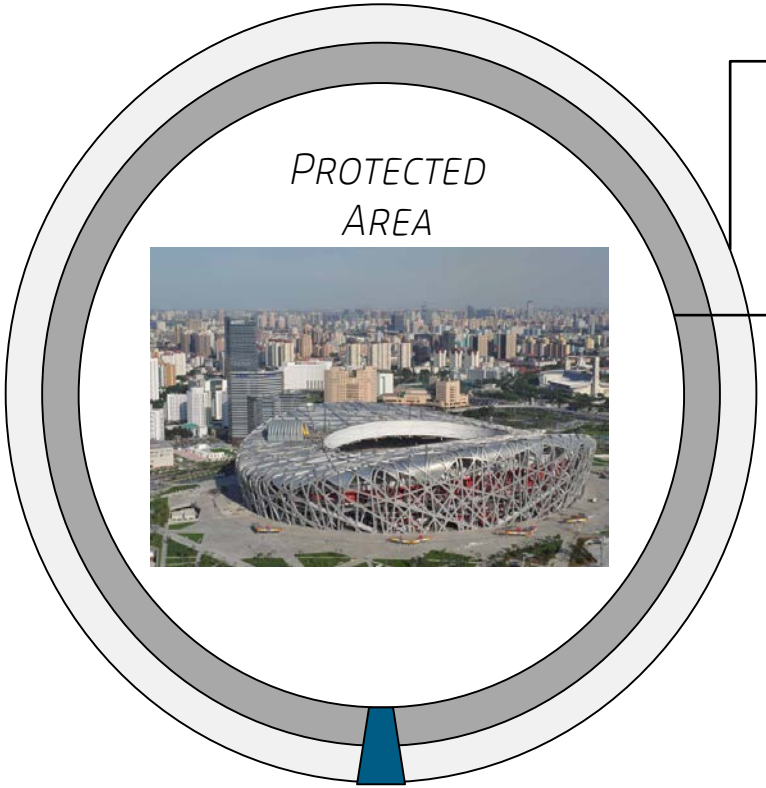
# Intrusion Detection

# Intrusion Detection




## The system comprises:

- Leakage Cable Intrusion Probe
- E-fence
- CCTV with intelligent video analysis
- Other sensors

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# Intrusion Detection

## Perimeter Control Subsystem

- Function:
  - *Early detecting suspicious behavior or individuals about the border*
  - *Forestalling and averting the damage or threat in advance*
  - *Deterring illegal entry*
- Product:
  - *Video monitoring system*
  - *Leakage cable intrusion*
  - *probe*
  - *E-fence*
  - *Infrared sensor*
  - *Other sensor*

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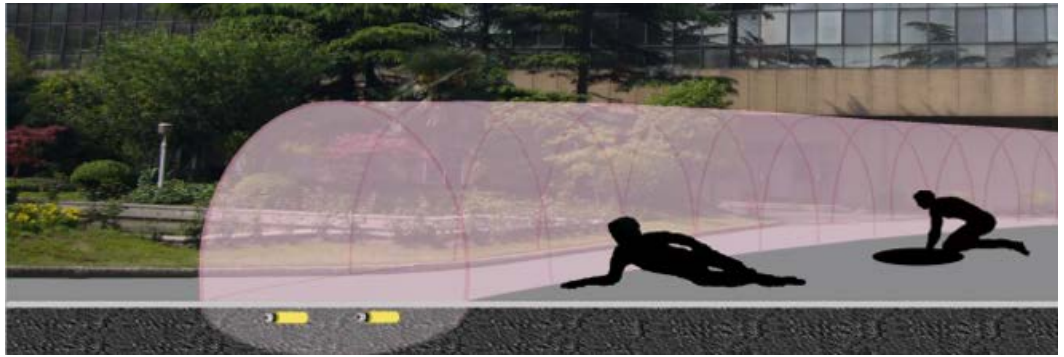
# Intrusion Detection

**Leakage Cable**

**Intrusion Probe**



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# Intrusion Detection

## E-Fence System

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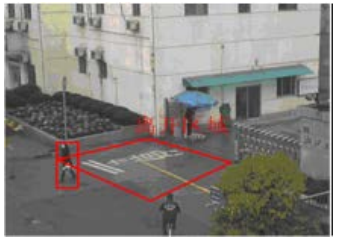
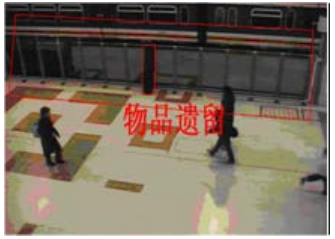
# Intrusion Detection

## Intelligent Video Analysis Application



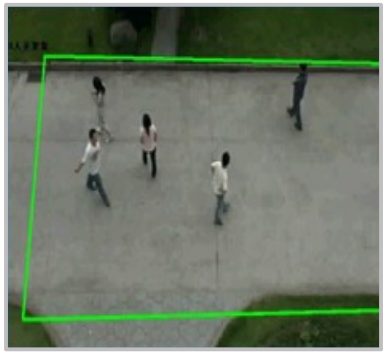


| No. | Features of intelligent analysis |
|---|---|
| 1 | Enter the area |
| 2 | Place and pick up items |
| 3 | Leave the area |
| 4 | hang about |
| 5 | Regional invasion |
| 6 | Staff gathering |
| 7 | Parking |
| 8 | Fast moving |
| 9 | Counting people |
| 10 | Auto tracking |
| 11 | Recognition of the car plate |

# Intrusion Detection

INTO REGION

SUSPICIOUS OBJECTS



PEOPLE GATHERING

ILLEGAL PARKING

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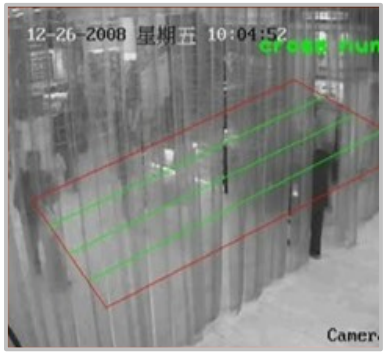
# Intrusion Detection

TARGET HOVERING




COUNTING PEOPLE

REGIONAL INVASION

INTELLIGENT TRACKING

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# Site Access Control

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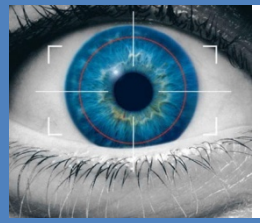
Integrated Perimeter
Protection Solution

# Site Access Control



The system comprises:

- People scanning
- Article scanning
- Identity recognition
- Barriers

Site Access Control improves security filtering people and goods entering and leaving a site.

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# Site Access Control

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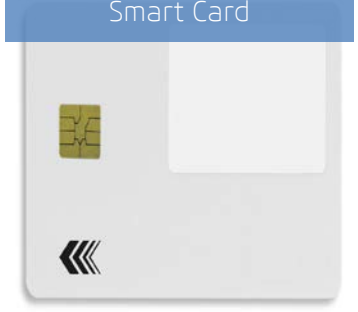
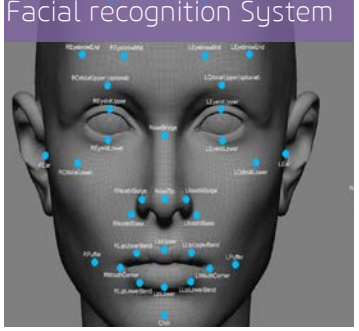
Smart Card



Fingerprint Scanner

Facial recognition System



Function:

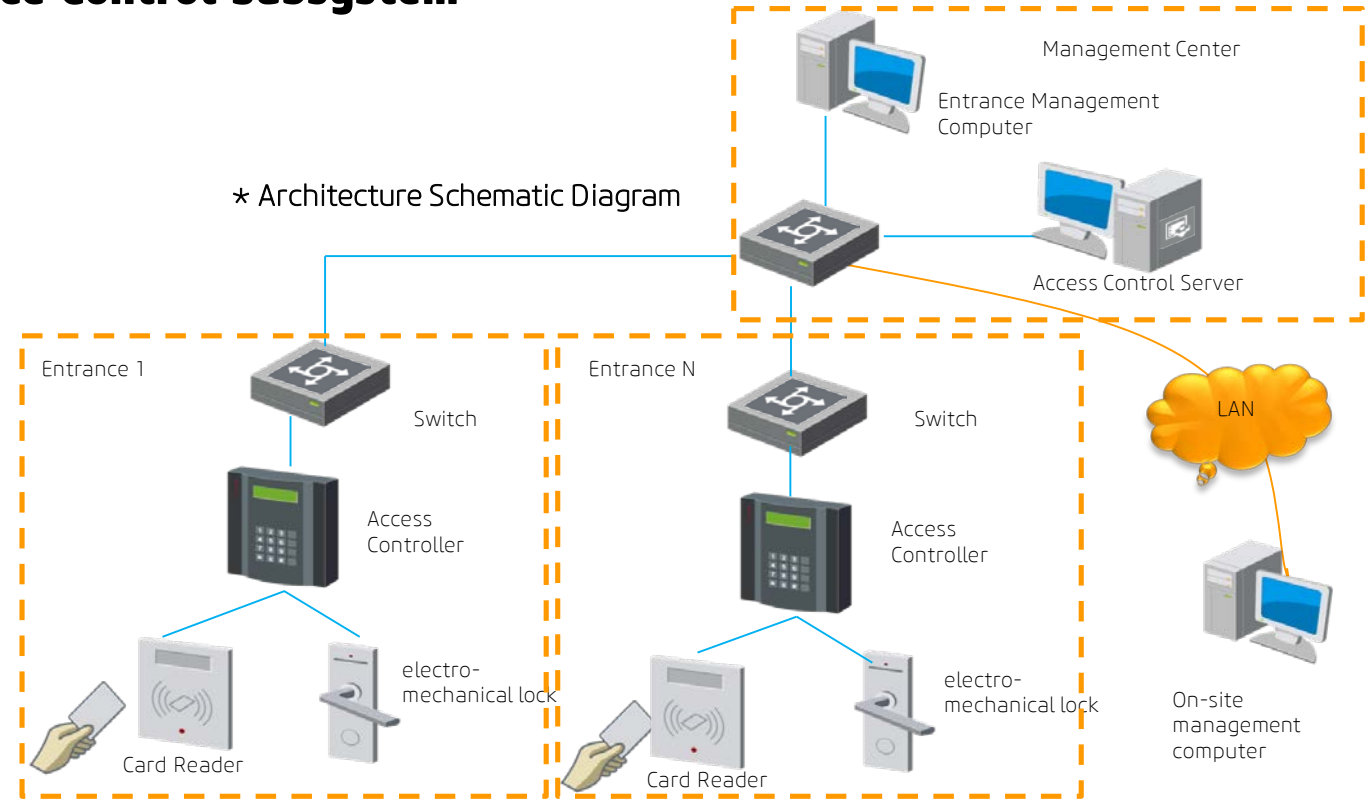
- Generating alarm automatically
- Displaying alarm information
- Generating time and attendance report
- Identifying authorized/authorized person
- Realizing classification management
- Tracking the very important person

CCTV Surveillance System

Security Checking Equipment

# Site Access Control

## Entrance Control Subsystem



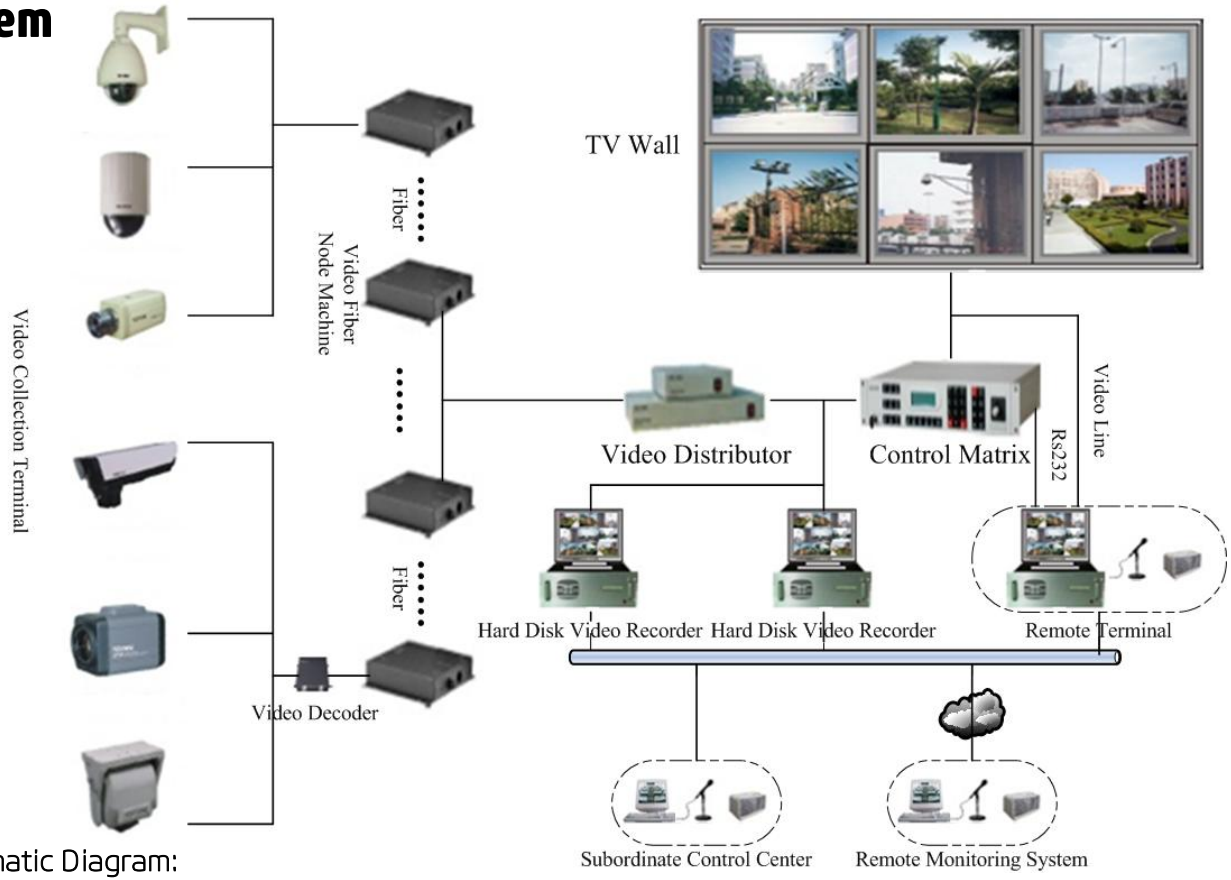
# Site Access Control

## Entrance Control Subsystem

### Products

# Site Access Control

## CCTV Subsystem




⋆ Architecture Schematic Diagram:

# Site Access Control

## CCTV Subsystem

Products

01

Outdoor Speed Dome

02

Outdoor Speed Dome

03

Semi Dome

04

IP Camera

05

Auto Focusing Camera

06

Indoor Speed Dome

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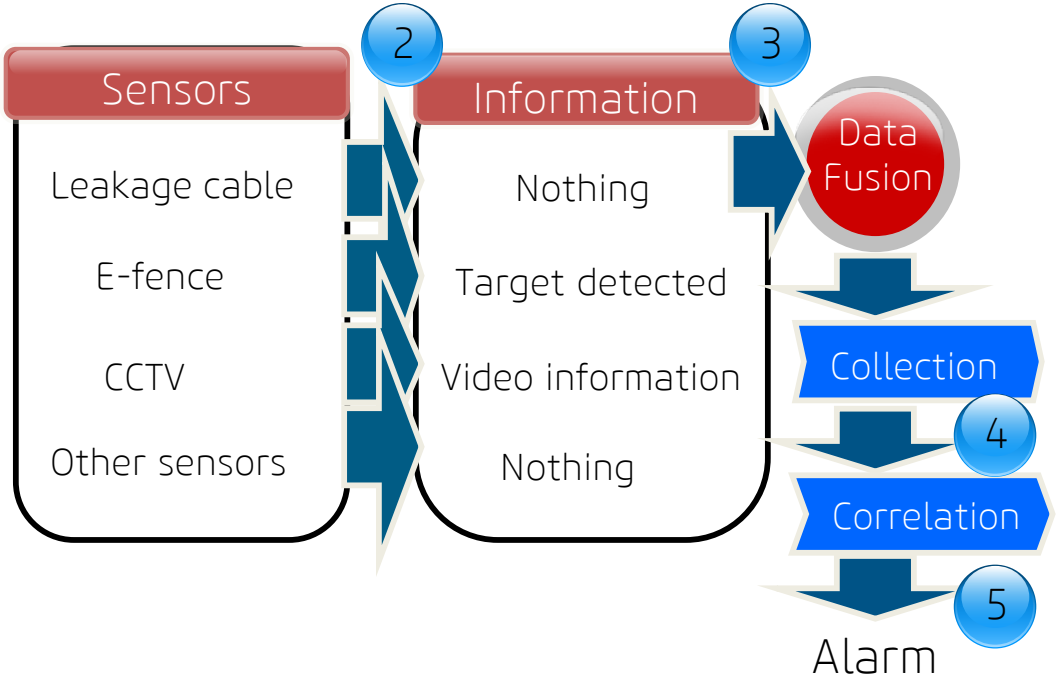
# Data Fusion-Recognition

# Data Fusion-Recognition

Information coming from a single source is sometimes incomplete, uncertain and ambiguous. Correlation techniques enable to minimize the probability of lacked threat detection and false alarms.




## Use case:

- Step 1: a site to protect (e.g. a base) is provided of several types of sensors.
- Step 2: every sensor collects different type of information.
- Step 3: information are elaborated by Data Fusion.
- Step 4: information are correlated
- Step 5: the correlation of the different information enables to identify correctly a potential threat (alarm).

In a high complexity environments, the ability to correctly interpret collected data is determinant to effectively face threats maximizing potential alarm detection.

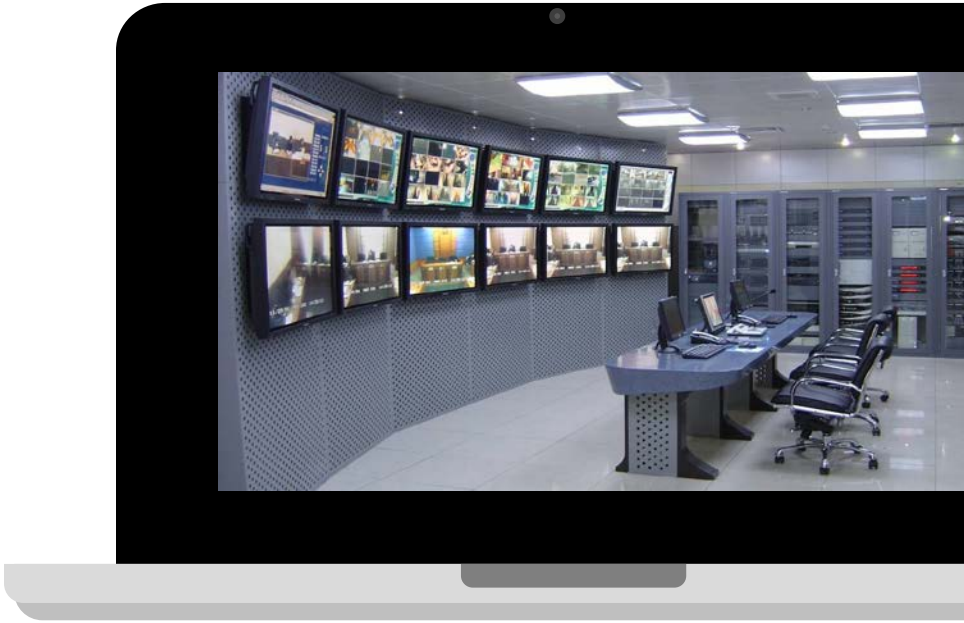
# Command & Control Center

# Command & Control Center

The **Command & Control Center (C2)** enables the **real-time monitoring of all systems sites** and the **management of the system resources** in order to guarantee security and safety.

The Command & Control Center is **the logical central point** of a distributed security and defense architecture.

**Information is collected and correlated** to enable **total control of the target system** and the **management** of all the available **resource** to **face** any **crisis or emergency.**



**C2 design and implementation is critical to guarantee effective and efficiency of any security and defense solution.**

# Special Security Subsystem

# Special Security Subsystem

Guard tour system

Portable video transmission system

Security check device

Moored balloon monitoring system

# Guard Tour Subsystem

- Function:
  - Recording the information of guard tour time/person and some common issues
  - Evaluating the performance of security person
  - Management of safe guard tour and polling
- Product:
  - Guard tour machine
  - Personnel card
  - Information button

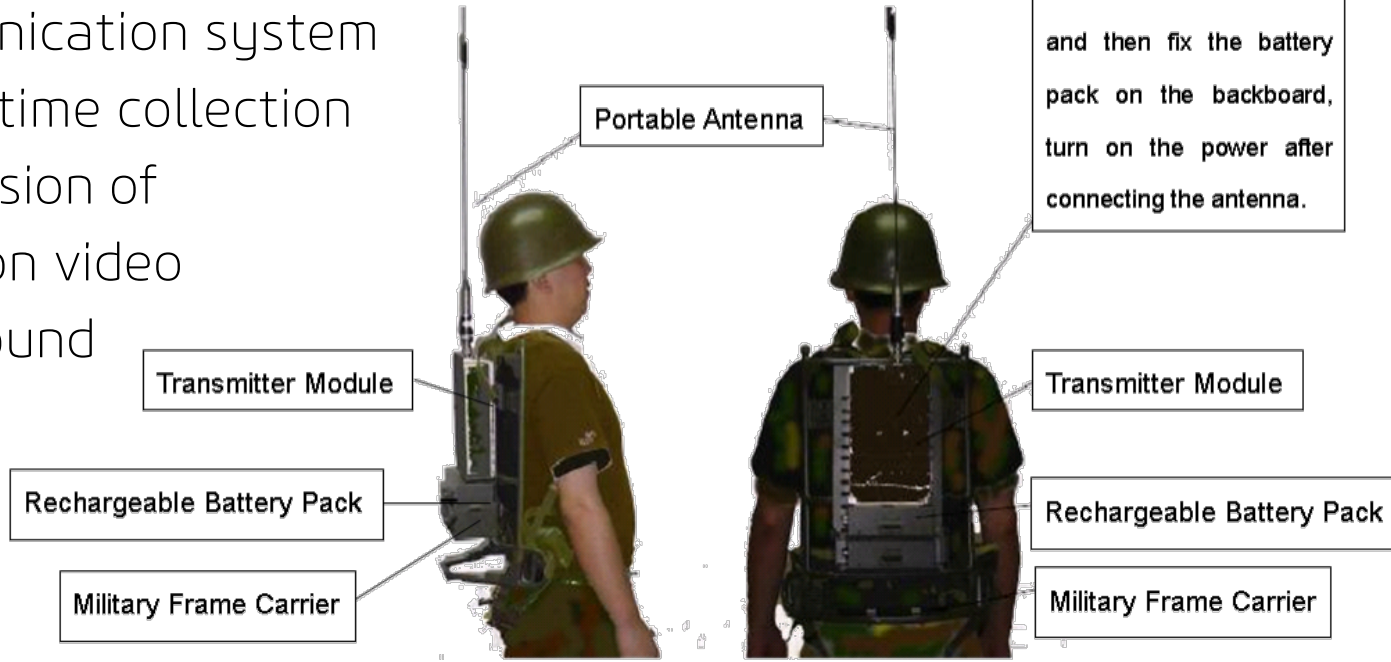
# Guard Tour Subsystem

Using the guard tour machine to collect the information

Receive the information from information button

# Mobile High-definition Video Transmission

- Mobile High-definition Video Transmission System (Portable) :
  - Adopting several advanced technology of 3G and B3G mobile communication system
  - Realizing real-time collection
    - and transmission of
    - high-definition video
    - image and sound



# Ballon Monitoring and Surveillance

## Night Time

Wide Coverage
Better low altitude performance

## Balloon

Camera
Radar

## Day Time

More waning and reaction time
High mobility payload

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# Please contact us for more detail

## SECURITY

Integrated security & defends system

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The Art Of Innovation.

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