

upar wala sab  
dekh raha hai

 **CP PLUS**  
Intelligent Security Systems

HERE IS THE  
SOLUTION FOR  
YOUR NEEDS

Powered by

  
**ARTIFICIAL  
INTELLIGENCE**

**INDUSTRIAL SECURITY SOLUTIONS**

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# Objective

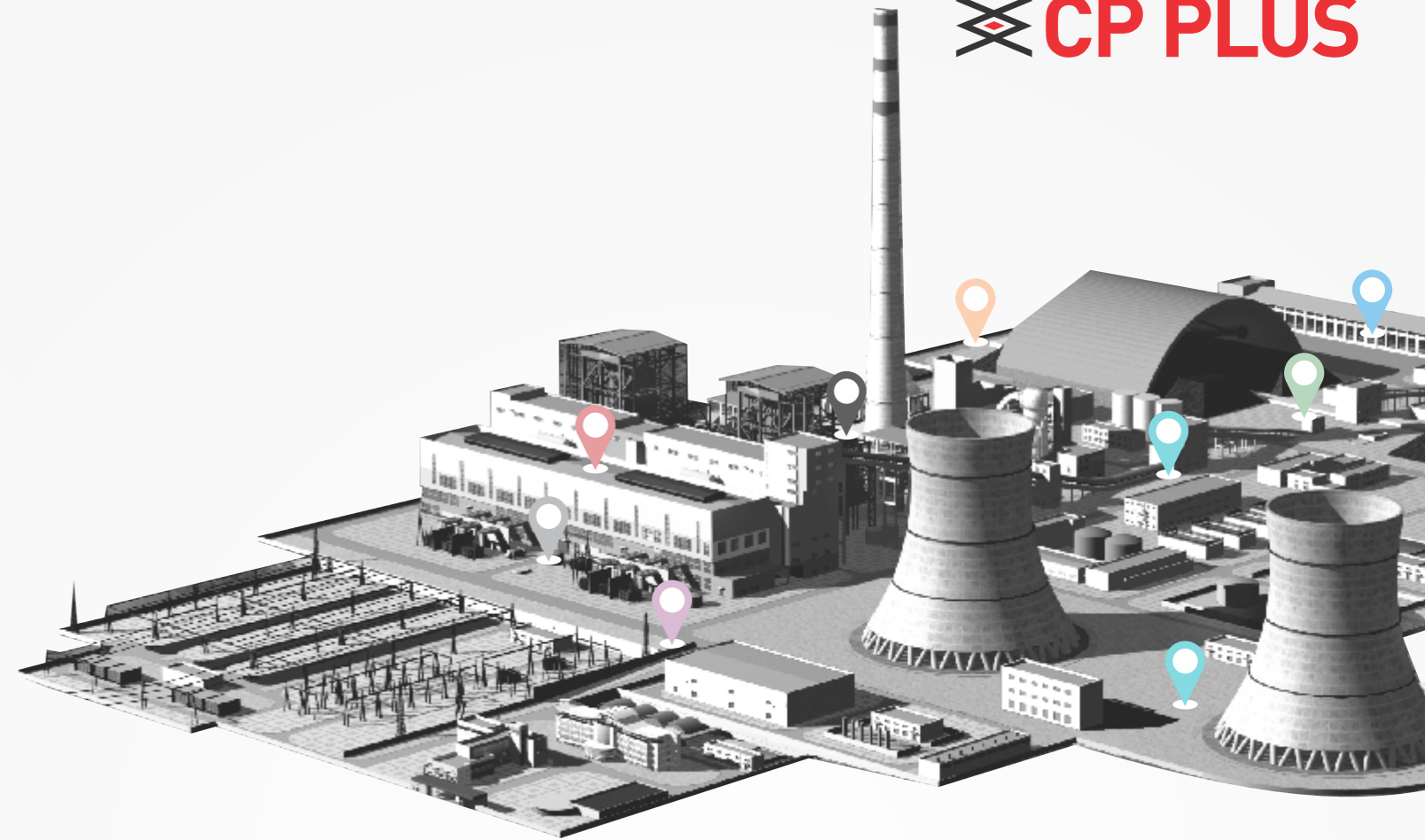
To secure perimeter from unauthorized intruders



To restrict and track unauthorized entry of vehicles within the premises



Identification and recognition of staff and visitors inside the plant



Hassle-free schedule and shift management



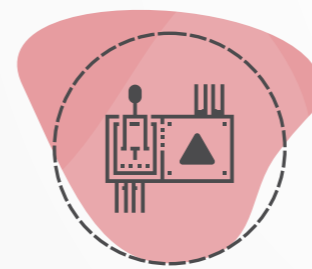
Safeguarding against vandalism of property and terror attacks



24x7 surveillance in hazardous areas



Minimize equipment failure



Restrict unauthorized entry into dangerous areas



Reduction of errors and improved accuracy in the manufacturing process



Health monitoring of the surveillance system to reduce device or component failure rates



Track suspicious staff behaviour



Monitoring mobile vehicles and persons in an open area



Emergency command control room to monitor and take quick action on any incident



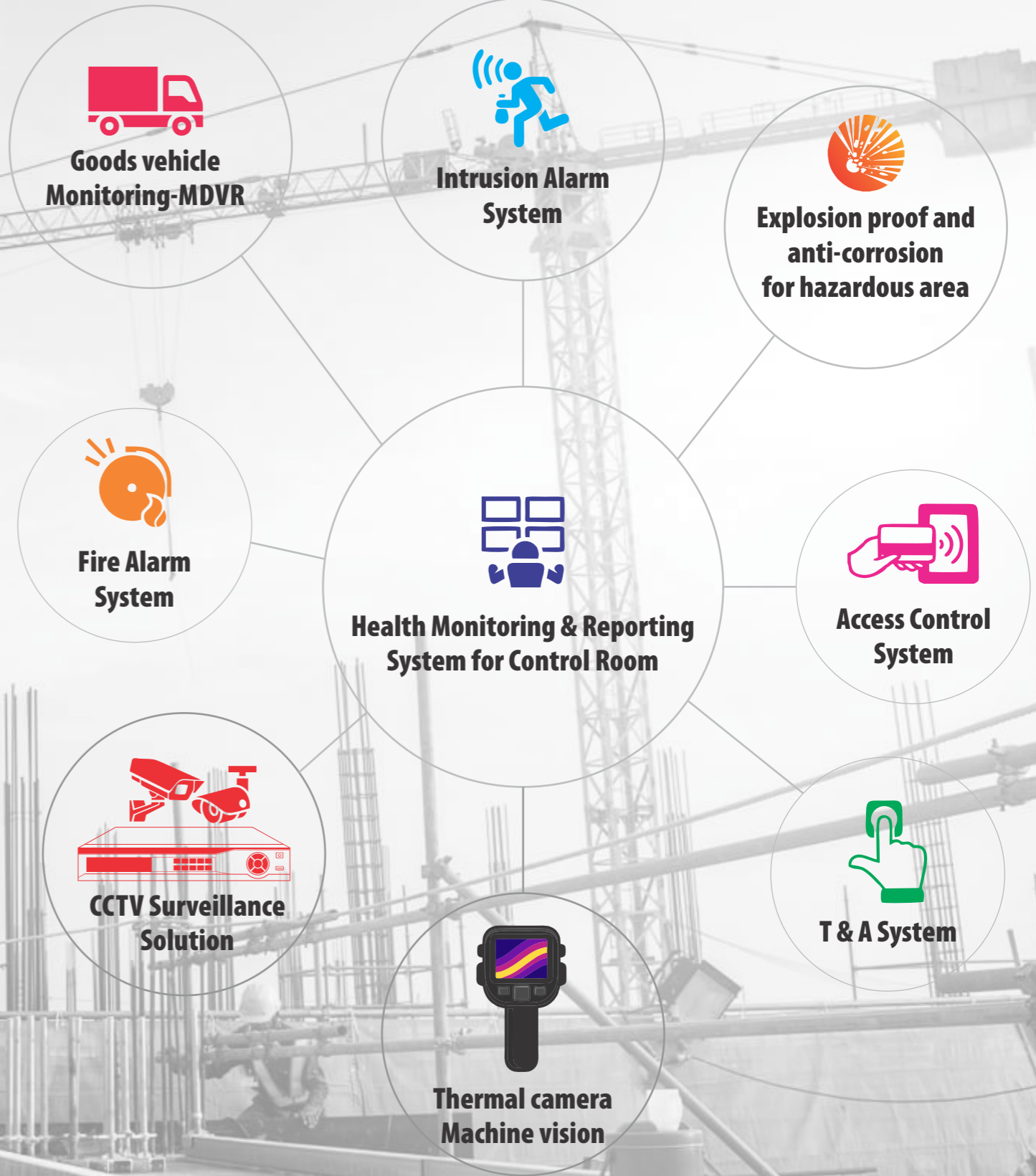
Monitoring the manufacturing process



# Industrial Solution

# 24x7

# Surveillance System



# Industrial

Manufacturing facilities and warehouses are stocked up with raw materials, WIP or finished goods at all times and therefore require round the clock monitoring and protection. CP PLUS offers solutions designed especially for industrial setups that cater to all their security needs including perimeter protection; monitoring equipment and production processes; tracking vehicles and people entering and leaving the premises; access control and more.

## Intelligent Surveillance for Industrial Vertical

### CHALLENGES

- Unauthorized entry of vehicles and persons
- Securing the perimeters from unauthorized intrusion
- Staff work hour monitoring to evaluate efficiency for better management
- Restrictions at critical areas to avoid intervention in machines or critical processes
- Process monitoring
- Monitoring of equipment failure to minimize the possibility of explosion or accidents.
- Track suspicious behavior of staff to reduce the risks of accidents
- Prevent possible terrorist attacks and vandalism of property
- Sustainability of CCTV equipment for harsh environments
- Monitoring of moving vehicles and persons on the field
- Emergency command control room to monitor and take quick action on any incident, and also monitor the health of the surveillance system

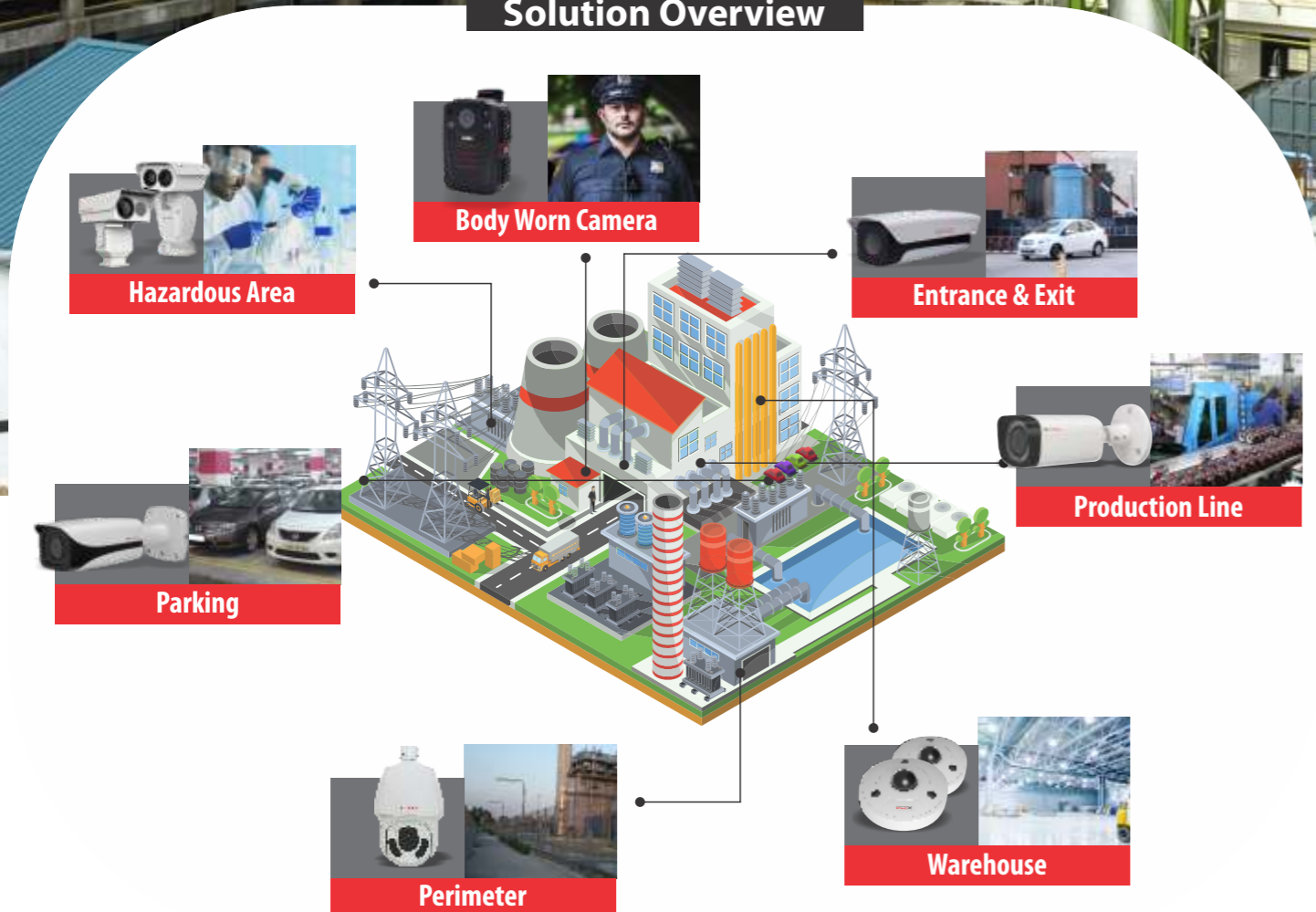
### SOLUTION

- ANPR Solution to avoid unauthorized entry of vehicles and control access into the premises
- Face detection/recognition system to detect entry of unauthorized or suspicious persons
- T&A system for staff time management & work hour monitoring
- Perimeter protection analytics with high range PTZ cameras to monitor unauthorized intrusion
- High resolution cameras to monitor the manufacturing or refining processes
- Thermal cameras to monitor pre incidents/explosion symptoms in the equipment's/machines
- Intelligent analytics technology such as tripwire, intrusion, and auto-tracking finds suspicious behavior.
- Access control system for flexible and strict authority management.
- Explosion-proof with ATEX/ IECEx certification, Anti-corrosion, Water-proof, dust-proof and IP67/IP68 for harsh environment
- Mobile DVRs/ NVRs to monitor moving vehicles
- Body worn camera for field engineers.
- Control monitoring system for Realtime monitoring of process, quick notification of incident and health monitoring

# Industrial Solution



## Solution Overview



# Surveillance SOLUTION

## Entrance & Exit



### High Resolution Camera with ANPR Engine

- 1080P@60fps high resolution video to capture heavy motion or fast moving vehicle no. plate
- Alarm I/O ports for boom barrier integration or Emergency alarm integration
- Water proof and dust proof build with IP67 rating
- Inbuilt heater and blower to sustain in different weather conditions

## Face detection/Recognition system

- 1080P@60fps to capture high resolution video of fast moving objects
- WDR features to provide clear image at entry gates so nobody goes undetected
- To detect unauthorized/ suspicious persons, facial recognition system can be deployed at entry gates
- Built-in deep learning system: the camera can detect male/female, age of the person, emotions of the person to detect suspicious behavior

## Building Main Entry



## Perimeter Area



### 4MP Bullet camera to secure perimeter with high res. video

- Inbuilt perimeter protection analytics.
- Alarm I/O to integrate strobe light or hooter to send emergency alert.
- 1080P with 30X optical zoom PTZ camera to backup the fixed camera
- 500 meter IR range for better night vision
- Auto tracking functionality in PTZ cameras
- Linking of PTZ cameras with fixed camera to get more details of incident by zooming in
- Support IP66/IP67 rating to ensure the durability in outdoor environment.
- Electronic image stabilization to reduce hazy pictures which is caused due to vibration when heavy machines run.

# Surveillance SOLUTION

## 2 MP Full HD WDR IP IR Bullet Camera - 50 Mtr.

- Provides a convenient way to track your employee's time & attendance and monitor productivity.
- High Security with Face recognition, Finger Print, Password & Card Combination
- 3G and Wi-Fi interface to communicate to the server over the network
- Cloud Reporting System, to generate logs, reports etc.
- Inbuilt Battery Backup for power failure redundancy

### T&A System



## Production Line



- 4K cameras to provide wide coverage with fine details to monitor the behavior of staff and manufacturing or refining process
- WDR/ HLC functions to balance image quality in tough light situations, as light situations in plant are usually very harsh

## Thermal Camera

- See clearly in total darkness, do not need any additional light source
- Work under harsh environments, Including Smoke /Fog /Dust
- Non-touch temperature measurement , notification alarm output in time to prevent losses
- Ideal for IVS, offer higher accuracy in analytics than visible camera
- Detect fire with a long distance, Over temperature alarm in time
- Pipeline leak with gas /oil Pipeline plug detect
- Power dissipation analysis, overheat problem
- Long range of detection upto 4.5Km for man and 13Km for Vehicle
- Thermal and Hybrid (Thermal+Optical) cameras are available

### Pipe Line



# Surveillance SOLUTION

## Door Entry



### Access Control System

#### Controller

- 4/2 door vandal proof controller
- Card, Password, fingerprint & combination
- Internal battery & UPS
- Standalone controller for 1 door

#### Reader

- Card, Password & Combination
- Card, fingerprint & Combination
- IP67 support

## Explosion Proof Cameras

- Upto 2MP@60fps Explosion-proof IR Network Camera
- 30x optical zoom
- IP68 Support
- Edge Analytics Support
- Smart Codec Support

## Hazardous Area



## Hazardous Area



### Corrosion Proof Camera

- Upto 2MP@60fps Explosion-proof IR Network Camera
- 30x optical zoom
- IP68 Support
- Edge Analytics Support
- Smart Codec Support
- NEMA 4X: UL60950-1+CAN/CSA C22.2,No.60950-1

# Surveillance SOLUTION

## Mobile Surveillance

### IP/Analog HD Camera

- Upto 2MP shock/vibration Cameras

### MNVR/MDVR

- 100% shock/vibration/tamper proof
- 4/8/16 Ch options are available
- HDD/SD card option available
- GPS, Wi-Fi, 3G/4G options available
- Geo-fencing support
- Alarm I/O support for sensor integration

Plant Area



## Roadway Area



### Body worn Solution

#### Body Worn Camera

- 2MP video recording, 32MP Image
- Built-in GPS, Wi-Fi
- 3G/4G Support
- Upto 128GB internal storage

#### Dock Station & Accessories

- Fully Charge camera in 4 hrs.
- Simultaneously backup from 24 devices simultaneously
- Watch, external camera etc.

# Control Room Software



- Live video monitoring & Playback
- Alarm pop-up/ notification through mail, sms etc.
- Health Monitoring for HDD status, network status etc.
- Video Wall, combine multiple screen to perform multiple task
- E-Map, geographical view of the campus with cameras

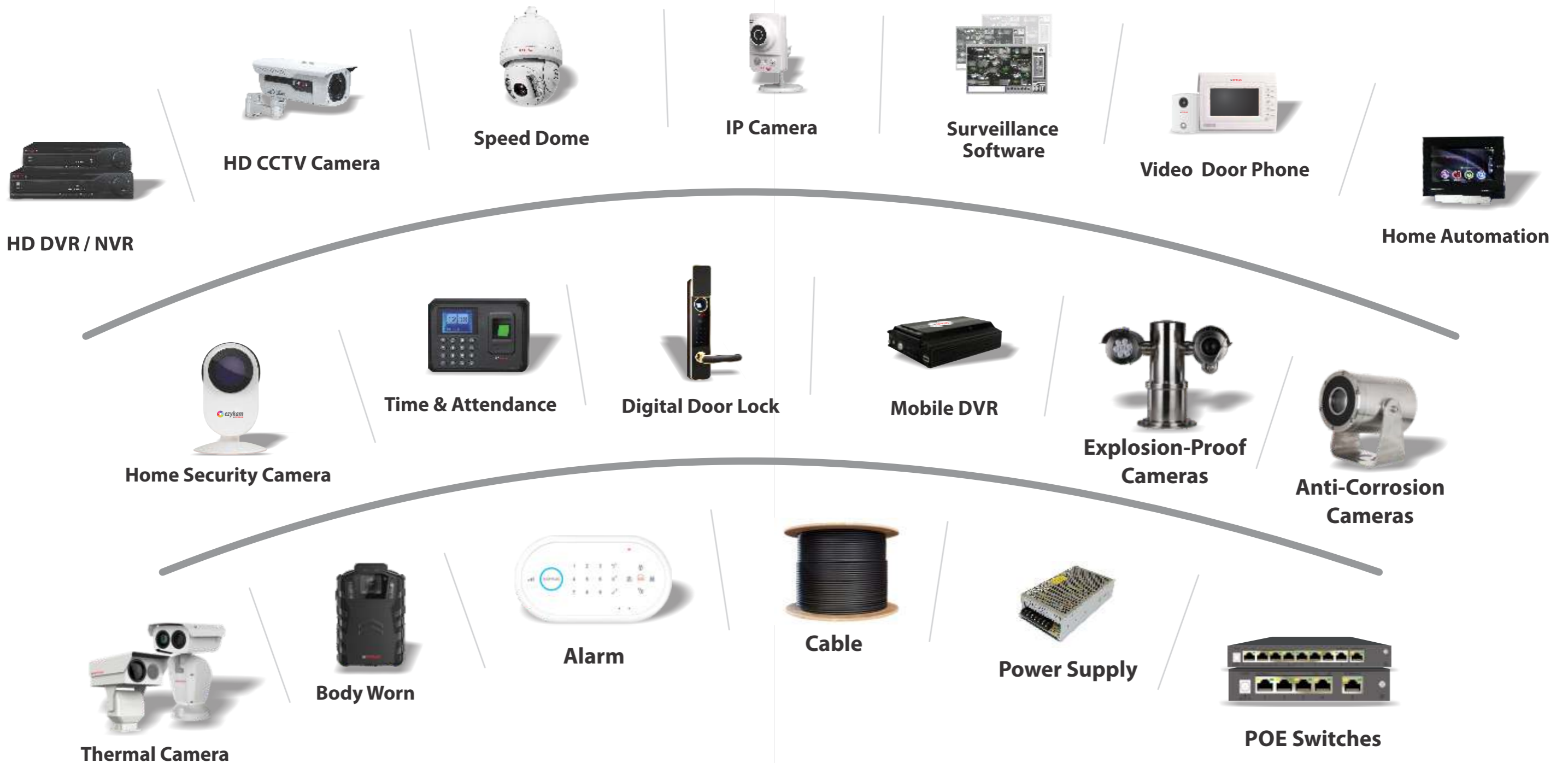
Remotely monitor health status of IP camera/NVR DVRs, HDD status, recording status, channel status. Best tool to monitor the efficiency of the system.

## CONTROL ROOM ARCHITECTURE



# Product Portfolio

The range that results from listening to the customer



CCTV Camera | Recorders | VDP | T&A | Power supplies | PoE Switch | Cable | HDD | Display devices, LAN Networking, Physical Electronic Access Control, Explosion-Proof Camera, Anti-Corrosion Camera, Thermal Camera



# Our Solutions

Across Various Industry Verticals



**Aditya Khemka**

Managing Director  
CP PLUS

## MD's Note

"The security industry is poised to grow manifold in the forthcoming years. Rapid infrastructural developments, increased crime rates, and an upsurge in terror attacks, have propelled the adoption of security and surveillance solutions. Government, transport, financial institutions, retail, manufacturing, commercial companies and other verticals are moving towards equipping themselves with the latest surveillance technology. Further, with criminals and lawbreakers finding new ways to terrorize and vandalize people, assets and systems every day, there is also a growing need for sophisticated products and solutions that can offer intelligent security.

CP PLUS provides dedicated solutions for a range of verticals, including Banking, Education, Hospitality, Healthcare, Police, Real Estate, Retail, Safe City, and Transport. Carefully and meticulously designed these solutions cover all aspects of security within their respective verticals, taking into consideration their operational nitty-gritties.

Having executed numerous projects in all of these verticals, CP PLUS bring with it the experience and expertise required to deliver state-of-the-art solutions that seamlessly integrate with allied security facets such as alarm systems, fire protection systems, access control systems, etc. to create a complete security ecosystem for organizations and enterprises. Our solutions design experts are highly trained and experienced professionals who have executed some of the biggest projects for CP Plus in India.

CP Plus is dedicated to bringing the best products and solutions through constant research and innovation so that security is always an enabler and never a compromise."




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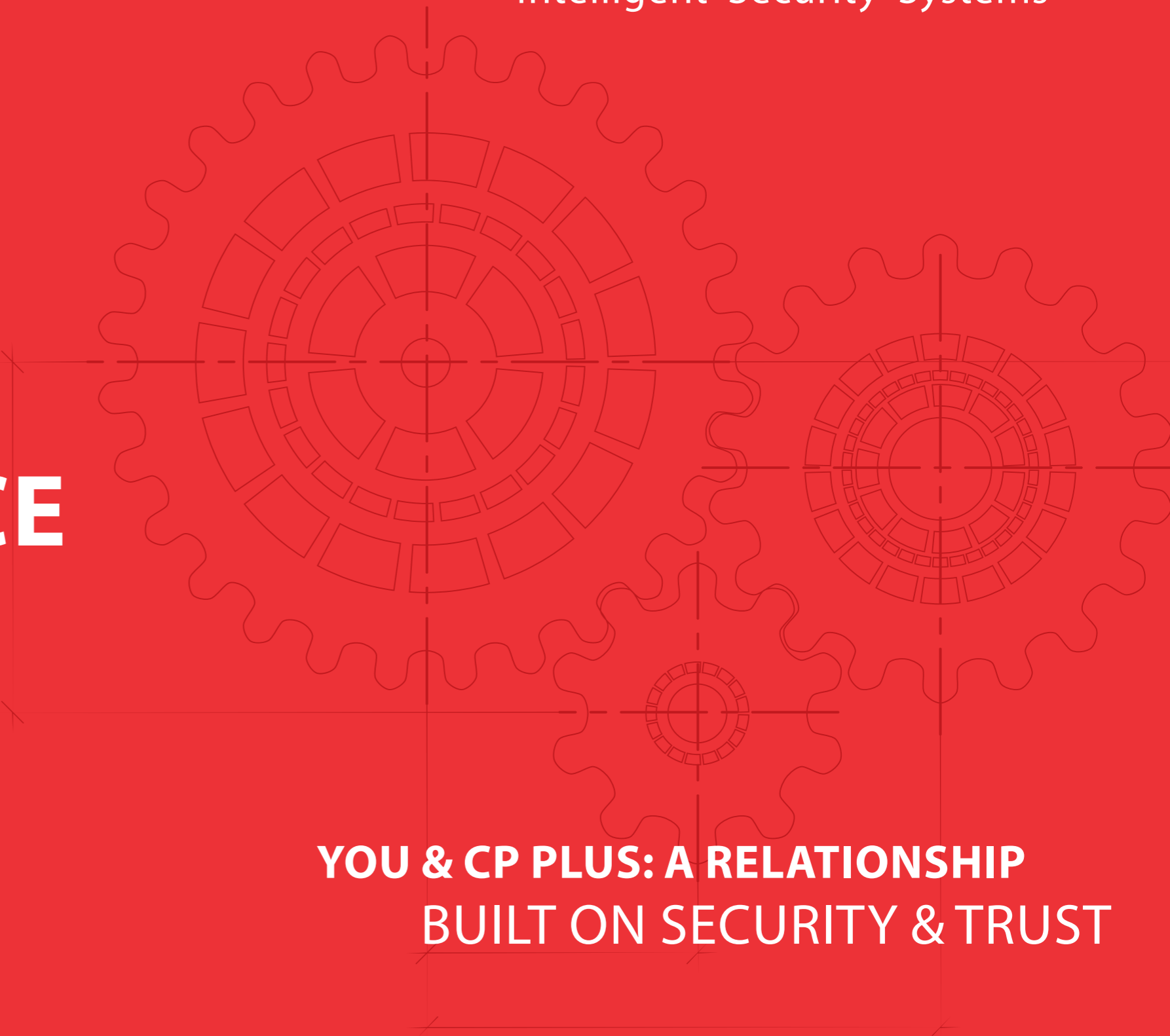


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**YOU & CP PLUS: A RELATIONSHIP  
BUILT ON SECURITY & TRUST**