upar wala sab
dekh raha hai

CP PLUS
Intelligent Security Systems

CORPORATE
PORTFOLIO

INTELLIGENT   SECURITY   SYSTEMS

Content

Solutions

CP PLUS

Aditya Khemka

Managing Director
CP PLUS

MD's Note

"Amidst rising security concerns, surveillance is more important than ever today, especially for organizations and enterprises, which are complex, with their people and processes. Effective security entails more than just choosing the best products and software. It involves designing a robust security infrastructure that not only plugs all security loopholes, but blends in with people and processes to enhance operational efficiency and add value to it.

CP PLUS provides a wide range of products designed for varied applications from commercial to industrial to homes, while its solutions are tailored to meet the specific needs of different verticals including Banking, Education, Hospitality, Healthcare, Police, Real Estate, Retail, Safe City, and Transport. CP PLUS' vertical solutions cover all aspects of security within their respective verticals, taking into consideration their operational nitty-gritties.

Having executed numerous projects, CP PLUS brings with it the experience and expertise required to deliver state-of-the-art security 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, enterprises and homes. Our security design experts are highly trained and experienced professionals who have executed some of the biggest projects for CP PLUS across 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."

Jai Hind!

Our Team

The security & surveillance industry is on an upswing with a burgeoning need for trained and qualified System Integrators, who can design customized solutions as per customer's needs, in the most efficient and effective manner. The pace of the industry is such that it requires system integrators to be consistently updated and informed about the latest technological advancements, and their skills honed to work with the latest state-of-the-art products and solutions. CP PLUS Training Program is a step in that direction with an effort to keep our channel partners trained and our services relevant.

52 OFFICES & SERVICE CENTER	1200+ EMPLOYEES	6500+ PARTNERS 450+ TOWNS

Aditya Khemka conceptualized and started CP Plus India in 2007 and has been the driving force behind its in growth – size & capabilities.

In ten years, Aditya Group has become a leader in the surveillance products space and has won numerous awards under Aditya Khemka's leadership.

An avid writer and speaker, he regularly contributes articles to various IT & security magazines and speaks at various international seminars and forums in India.

Aditya Khemka
Managing Director

The Team

Sanjay Gogia
Head –Sales & Distribution

Mohammed Ilyas
Head -Technical

Anup Nair
VP -Strategy

![CP PLUS]

Rahul Singh
Vice President, Human Resources

Yogesh Sharma
Head –Finance & Accounts

Kamal Gautam
Head -Services

Jitendra Trikha
Head –Purchase & Production

Anil Pruthi
Head –Credit Control

Monika Sharma
CRO - China Operation

Ranjeet Singh
Head –Logistic

About Us

CP PLUS is the global leader in advanced security & surveillance solution. Driven by the vision and commitment to make surveillance simple and affordable, CP PLUS has embarked on a mission to make the world a safe and secure place.

As per the IHS Survey 2017, CP PLUS stands as the youngest and fastest brand to enter the club of Top 4 security companies in the world and Top 2 in Asia. We attribute our path breaking success to our sound R&D initiatives, a wide portfolio of product and solutions, sensitivity towards our customers' needs, and by delivering the best value propositions. CP PLUS products pass stringent quality control tests and carry international certifications such as UL, CE, FCC, etc.

Today CP PLUS' wide portfolio of products and solutions are monitoring and securing millions of locations across the globe in diverse geographies, ranging from highly sensitive defense locations to government buildings to vital infrastructures, transportation, hotels, hospitals, educational institutes and homes, with a highly satisfied customer base.

That's not all; our internationally recognized ISO certifications ensure that CP PLUS has the essential processes and systems in place to meet the most daunting and demanding requirements of the global security industry. In effect to constantly putting effort for establishing, implementing, maintaining and continually improving an information security management system, it has been recently ISO/IEC 27001:2013 certified.

Our
Core Values

COMMITMENT

EMBRACE CHANGE

TEAMWORK

CUSTOMER FIRST

PASSION

INTEGRITY

World Largest CCTV

Manufacturing Facility*

CP PLUS

PROUDLY
MAKING IN INDIA

In just 5 years of local manufacturing under the Make-in-India initiative, CP PLUS has climbed up amongst the TOP 3 Largest Manufacturers of Surveillance Equipment globally!

CP PLUS, India's leading CCTV brand, began producing surveillance devices locally in India in its Manufacturing facility in Tirupati Andhra Pradesh 5 years ago. And since then, the brand has enhanced its manufacturing capabilities to reach a production capacity of 1 million units a month.

Now with the opening of its new manufacturing facility in the Kadappa District, the brand is set to become even larger with a production capacity of more than 3 million units per month.

Backed by our R&D proficiency, there are plans in action to further augment our capabilities and become many times larger than the current size to produce 6 million units per month in near future to make our brand more and more Atmanirbhar in order to accomplish our PM's dream and to make India truly self-reliant.
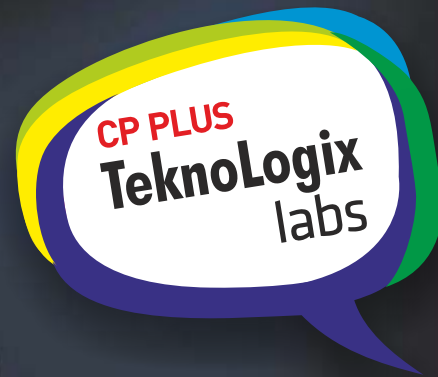
MISSION TECH
A CP PLUS Initiative

CP PLUS CERTIFICATION TRAINING PROGRAM FOR SYSTEM INTEGRATORS & PARTNERS

The security & surveillance industry is on an upswing with a burgeoning need for trained and qualified System Integrators, who can design customized solutions as per customer's needs, in the most efficient and effective manner. The pace of the industry is such that it requires system integrators to be consistently updated and informed about the latest technological advancements, and the skill sets has to be honed to work with the latest state-of-the-art products and solutions. CP PLUS Training Program is a step in that direction with an effort to keep our channel partners trained and our services relevant.

The Centre of Innovation in Security Technology

CP PLUS
TeknoLogix labs

CP Plus TeknoLogix Labs is inspired by the power of ideas and innovation, the need to make things better.

At CP Plus TeknoLogix Labs, the processes that we follow are constantly evolving to be ahead of technology.

The brains at the CP Plus TeknoLogix Labs have revolutionised the security industry, world-wide.

Some of our Satisfied Customers

facebook

DLF

BIG BAZAAR

TVS

SAMSUNG

BMW

SAIL

HONDA

HYUNDAI

BRIDGESTONE

pepsi

SAINT-GOBAIN

Haldiram's

MGM Premium Beverages
a division of MGM Food & Commodities Corporation

ŠKODA

Pizza Hut

LUMINOUS

Hero

World Health Organization

Reliance

MDH

JABONG COM

VOLVO

ARMANI JEANS

MARKS & SPENCER

Greenply PLYWOOD

ASHOK LEYLAND

CP PLUS

Google

EXIDE
INDUSTRIES LIMITED

NISSAN

MITSUBISHI
MOTORS

IndianOil

KFC

adani

ansal API

Volkswagen

L&T

Amway

Berger

FedEx

MAX
HEALTHCARE

LUPIN

IFFCO

Apollo
HOSPITALS
TOUCHING LIVES

TATA MOTORS

Hindustan Unilever Limited

GITANJALI

supertech
Yours for life

Dr Lal PathLabs

JINDAL
STEEL & POWER

BRITANNIA
Eat Healthy, Think Better

future group
india tomorrow

ireo®

McDonald's

VIVANTA
HOTELS & RESORTS
BY TAJ

Fortis

NIIT

लोकमत

And many more...

Logos are property of respective brands

Service & Call Center

CP PLUS is a customer centric brand dedicated to delivering the best customer experience. With over 40 service centers and 24 collection centers spread across the country, CP PLUS offers a robust infrastructure to service its customers and clients. That's not all; a dedicated, technical support center has been working to ensure all customer concerns are heard and addressed in a timely manner.
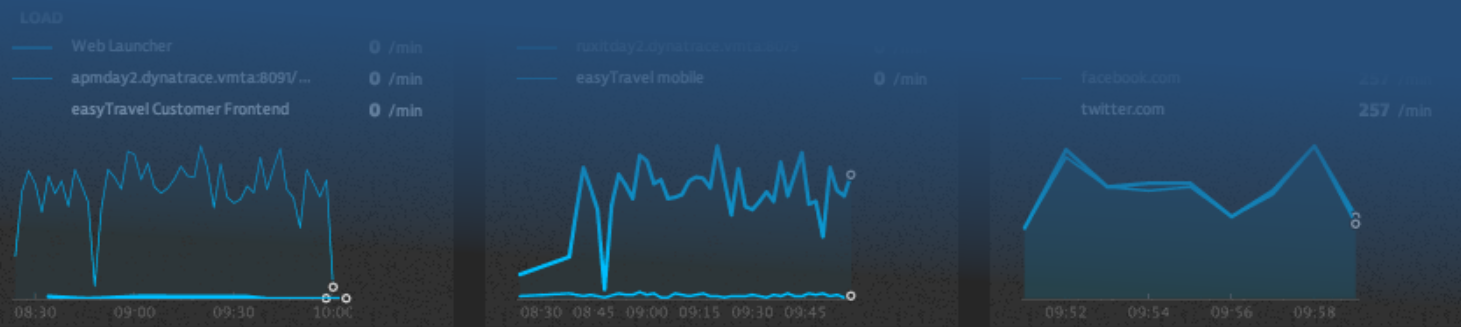
Pan India Infra

CP PLUS

Srinagar
Jammu
Ludhiana
Dehradun
Jalandhar
Chandigarh
Noida
New Delhi
Meerut
Gurgaon
Faridabad
Jaipur
Agra
Lucknow
Gwalior
Kanpur
Patna
Guwahati
Ahmedabad
Bhopal
Ranchi
Rajkot
Baroda
Indore
Jabalpur
Jamshedpur
Kolkata
Surat
Bilaspur
Nagpur
Raipur
Vizag
Bhubaneshwar
Nashik
Aurangabad
Mumbai
Navi Mumbai
Pune
Secunderabad
Hyderabad
Vishakhapatnam
Kolhapur
Vijayawada
Goa
Bangalore
Chennai
Coimbatore
Madurai
Kochi
Thiruvananthapuram

India Presence

★ Service/Technical Support Center

★ Branch/RMA & SWAP Center

Our Global Reach

Czech Republic

Germany

UAE

South Africa

Saudi Arabia

Pakistan

China

Hong Kong

Bangladesh

India

Philippines

Indonesia

Vietnam

Sri Lanka

Singapore

Health Monitoring System (HMS)

Ensuring the smooth functioning of surveillance systems is crucial for the efficiency of a security system. While monitoring the performance of a small security setup is possible, with complex systems that involve multiple cameras and recorders, this becomes a challenge.

Health Monitoring Systems provide real-time health status of your surveillance devices; it keeps you abreast of the perceived critical issues and potential problems such as device offline, hard drive failure, recording status, network outages, tampering, etc. Investing in a HMS helps you detect system issues automatically; allows for instant reporting of live incidents; reduces system downtime since issues are detected and rectified at the onset; provides daily system supports and live status web page view.

CP PLUS provides HMS solution software, complete with live system reporting, alerts and alarms for hard drive failure, recording status, network outages, tampering, etc.

Attendance Management Solution (AMS)

The Attendance Management Solution (AMS) is a cloud-based facilitation tool for employers and employees, to track attendance, leaves, late comings, holidays, leave applications, and conveyance time & costs on a daily/ monthly basis.

By simply downloading the AMS application on smartphones, employees can mark their attendance from anywhere, wherein their location and login time is captured using GPS. Employers, on the other hand, can keep a track of the regularity, attendance and punctuality of employees from anywhere, anytime. Ready access to the consolidated data of all employees with regard to their attendance, leaves and conveyance, in one place, helps them generate efficiency reports and compute salaries with ease. AMS effectively plugs the loopholes of traditional tracking systems and provides transparency to both the employer and employees.

In-house R&D team
pro-actively caters to the dynamic market demands

Product specification
- Documentation of product design
- Costing of components and sourcing
- Roadmap of product life cycle
- Gauging market demand

Engineering Validation & Testing
- Firmware & application development
- Server integration
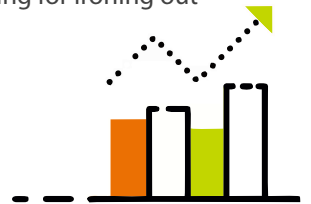- Creation of prototype with subsequent OEM discussions

Production Validation & Testing
- Rigorous testing iterations for checking operating performance
- Production trial runs for checking manufacturing process efficiency
- Final software release after eliminating all bugs

Design Validation & Testing
- Hardware & software integration
- Beta testing for ironing out bugs

Mass Production
- Regular monitoring with numerous quality checks
- Sample testing for detecting and fixing defective products
- Cost optimization process for reducing manufacturing cost

Regular Monitoring
- Regular software upgrades & bug fixes for ensuring smooth user experience
- Phasing out of product at end of lifecycle

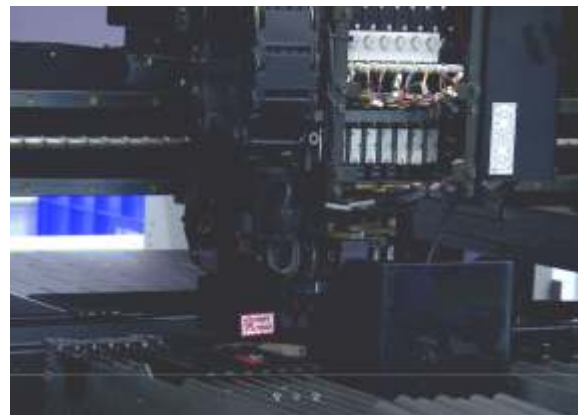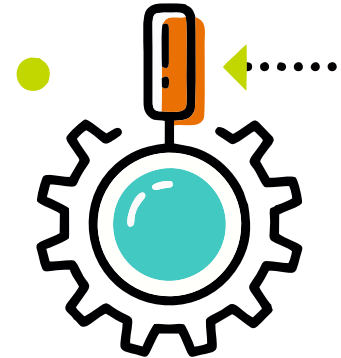# In-house Quality Control

A dedicated in-house quality team ensure focus on quality across the wide spectrum of product offerings

Basic inspection
- Colour
- Housing material
- Matching specifications
- Label printing

Quality inspection
Light test •
Lens focus test •
IR board and sensor check •
Water proofing •
Audio test •
Drop test •

Packaging inspection
- Camera box printing
- Logo printing
- Carton label check
- Manual check
- Hologram check
- Packaging of right accessories

Detailed report on anomality
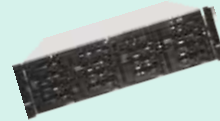Dedicated 6-8 member team based out of China that undertake the same stringent process

|| श्रीहरि: ||

मा सैव्यम् पराजितः

Home Security Camera

Video Door Phone

Power Supply

Time & Attendance

Video Storage

Cable

A PORTFOLIO WITH A TRULY EXTENSIVE RANGE OF PRODUCTS

upar wala sab dekh raha hai

CP PLUS

HD DVR/NVR

HD CCTV Camera

Speed Dome

Surveillance Software

Explosion-Proof Cameras

Mobile DVR

Anti-Corrosion Cameras

Body Worn

POE Switches

Thermal Camera

Get exactly what you require from the wide range of Premium Quality Security Solutions from the leading surveillance brand.

Our product portfolio has been meticulously crafted to cater to every requirement in implementing effective surveillance and reliable security. By understanding the rapidly changing as well as challenging needs of the time, we come up with unparalleled products that are affordable and have been designed for sustainable use.

Real Estate Solution

Real Estate is one such industry which faces a dire need for security & surveillance but is largely neglected. Not just finished structures, but under construction sites too can be at risk of theft, burglary, harassment, intrusions, etc.; builders need to be prepared for all of these risks.

With CP PLUS surveillance solutions specifically designed for 360 degree perimeter protection, these threats can be efficiently addressed.

Powered by
ARTIFICIAL INTELLIGENCE

Intelligent Surveillance for Real Estate Vertical

Houses

Villas

Apartments

CHALLENGES

- Unauthorized intrusion of vehicles/people
- Major target of theft/robbery
- Vandalism of property or vehicles
- Installation of CCTV camera inside the lifts
- Parking management issues
- No monitoring and maintenance of property
- Multiple platforms difficult to manage

SOLUTION

- High resolution cameras at Entry Point to recognise entry of unauthorized vehicle s or person
- ANPR solution and Face recognition cameras at entry point to provide analytical results for quick retrieval of information
- Bullet camera with intrusion detection analytics for perimeters further supported by PTZ cameras
- ANPR cameras at Parking entry Point
- High resolution camera with Audio integration for parking areas
- WDR camera with high resolution cameras at Lobby area for proper face recognition
- Wide coverage cameras for lift areas
- Multi-Apartment VDP IP Solution for visitor verification and authentication
- Monitoring of CCTV camera in the VDP indoor unit
- Control Room monitoring software for CCTV camera, VDP outdoor unit cameras, message broadcasting, SOS support, audio call, etc.

Surveillance Solution

Public Place

Entrance & Exit

Stairs

Parking

Perimeter

Lifts

Surveillance Solution

Main Entrance

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

- Full HD@ 60 fps to capture fast moving objects and to recognise the no. plate and faces of the person
- True WDR/HLC to balance different light situation and provide more detailed image
- 50 meter IR range to see better image during night time
- Motorized zoom lens to control view (FoV) of camera as required
- SD card support for redundant recording
- Alarm I/O to integrate with boom barriers
- H.265 support to save huge storage and bandwidth cost.

4K Full HD IR Bullet Camera - 50Mtr.

- 4K resolution: To cover wide areas higher resolution needed to get more details
- Audio I/O : To Announce any message at parking area
- Motorized zoom : To achieve proper FoV of the camera
- Alarm I/O : To integrate panic button for emergency

Parking Area

Perimeter Area

2 MP Full HD WDR IR Bullet Camera - 80Mtr.

- Full HD cameras @60 fps to provide more detailed video
- Intrusion detection/ Tripwire analytics to detect intruders

2MP 30x WDR Network IR PTZ Dome Camera - 150 Mtr.

- Full HD resolution @ 60 fps to get more detailed images
- Powerful 30X optical zoom to cover 360 degree view for open areas as well as to support fixed bullet cameras at perimeters
- EIS (electronic image stabilization) to avoid vibration effect from cameras due to which image quality deteriorates
- Defog function support to provide clear image in foggy environments
- PTZ linked with fixed cameras
- Auto Tracking support (Manual/Auto)

Surveillance Solution

Parking ramp entry

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

- Full HD@ 60 fps to capture fast moving objects and to recognise the no. plate and faces of the person
- True WDR/ HLC to balance image quality in different light situations and provide more detailed image
- 50 meter IR range to see better image during night time
- Motorized zoom lens to control view (FoV) of camera as required
- SD card support for redundant recording
- Alarm I/O to integrate with boom barrier
- H.265 support to save huge storage and bandwidth cost

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4 MP Full HD WDR IR Vandal Dome Camera - 30Mtr.

- 4MP Camera to cover wide coverage area for parking lots
- Edge recording for redundant recording
- Audio integration for announcement
- H.265 compression to save storage and bandwidth cost.

Parking Area

Entrance of Tower

2 MP Full HD IR Vandal Dome Camera - 30Mtr.

- Full HD resolution with WDR to recognise the face of the visitor
- Edge recording for data redundancy
- Face detection to capture visitors face

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6 MP Full HD IP IR Fish Eye Camera

- 6MP Fisheye camera, provide 360 degree view to cover lobby and lift area
- Multiple De-wrap Mode: Original ,Panoramic, Double Panoramic,1 3,Eptz,4 Pictures
- 10 Mtr. IR range for better night vision
- Vandal proof IK10 rating support

Lobby / Lift Area

Surveillance Solution

Lifts

1.3 MP HD IR Vandal Dome Camera - 30Mtr.

- 1.3MP camera to provide detailed image in lifts
- 2.8mm lens to provide wider coverage area which is mandatory for lifts
- PoE support for easy installation within the lifts
- Vandal proof rating IK 10 supported
- 30 mtr. smart IR to provide better night vision

VDP Solution

Guard Station

Guard phone

- 7 inch TFT color screen
- Calling multiple users
- Adopt TCP/IP network host, supports SNMP network protocol
- Network security technology for stable performance
- Manages alarm control of the community
- Outdoor station monitoring, supports remote unlocking
- Multistage cascading and redundancy backup

Tower Entrance

Outdoor station for apartment

- 1/3" Sony Color Camera
- Built-in 3.5" LCD Screen
- Support SIP Protocol
- Support contacts call function
- Excellent night vision effect
- Supports unlocking remotely & with password
- In Built proximity reader(optional)
- Dimensions : 376mm x 151mm x 60mm(HxWxD)

EM Locks

Door lock

- Dual voltage selectable (12 VDC or 24 VDC)
- Low current consumption
- 600lbs holding force
- Durable and silent operation
- Anodized aluminum casing

VDP Solution

Outdoor unit

High Definition VDP Outdoor Unit

- 1.3 Mega Pixel CMOS Color Camera
- Excellent night vision
- Support SIP protocol
- Single mechanical button Support with 1/2 indoor monitors directly
- Temperature :-10°~55°
- 24V power supply
- Dimension: 141mm×100mm×17mm (H×W×D)

7" IP Indoor Monitor

- 7" TFT LCD Color Monitor
- Capacitive touch screen
- Support 8 wire alarm input
- Support DND setting and multiple outdoor station connection
- 1 channel 10/100Mbps self-adaptive Ethernet
- Power: DC 10~15V
- Support SD card storage(CP-UNB-CM352), video record and picture snapshot

Indoor Unit

CONTROL ROOM

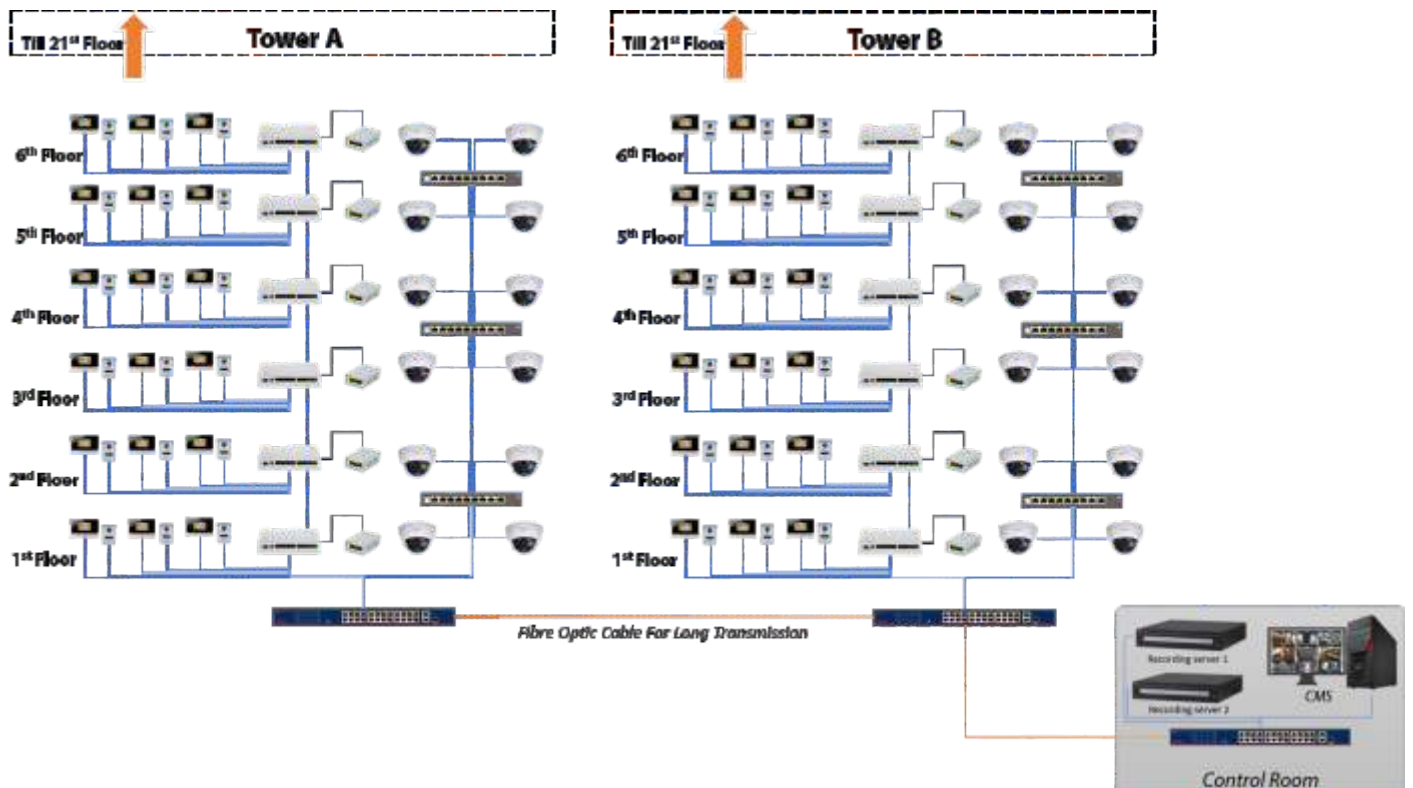# CONTROL ROOM

Management Software

- Remote monitoring of cameras
- VDP outdoor cameras monitoring
- Instant alerts for events
- Message broadcasting
- SOS call
- Health monitoring of devices
- E-map support

Smartphone App

- gCMOB (Android)/iCMOB(iPhone)
- To view cameras remotely
- To get visitor call from VDP outdoor unit in case owner is not available
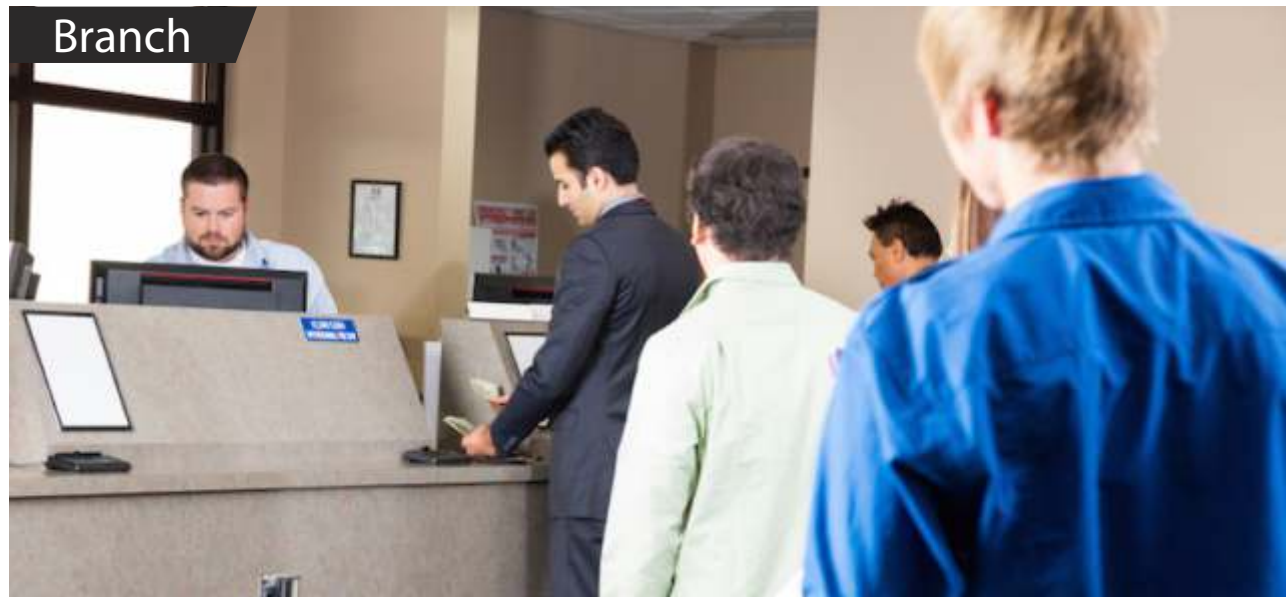

SYSTEM ARCHITECTURE

Bank Solution

India's banking sector is currently valued at Rs 81 trillion (US$ 1.31 trillion). And, has the potential to become the fifth largest banking industry in the world by 2020.

The face of Indian banking has changed over the years. Banks are now reaching out to the masses with technology to facilitate greater ease of communication, as transactions are carried out through the Internet and mobile devices. All this has created the need for banks to meet their customers' requirements for security in a special way on many levels.

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www.cpplusworld.com | sales@cpplusworld.com

Intelligent Surveillance for Banking Vertical
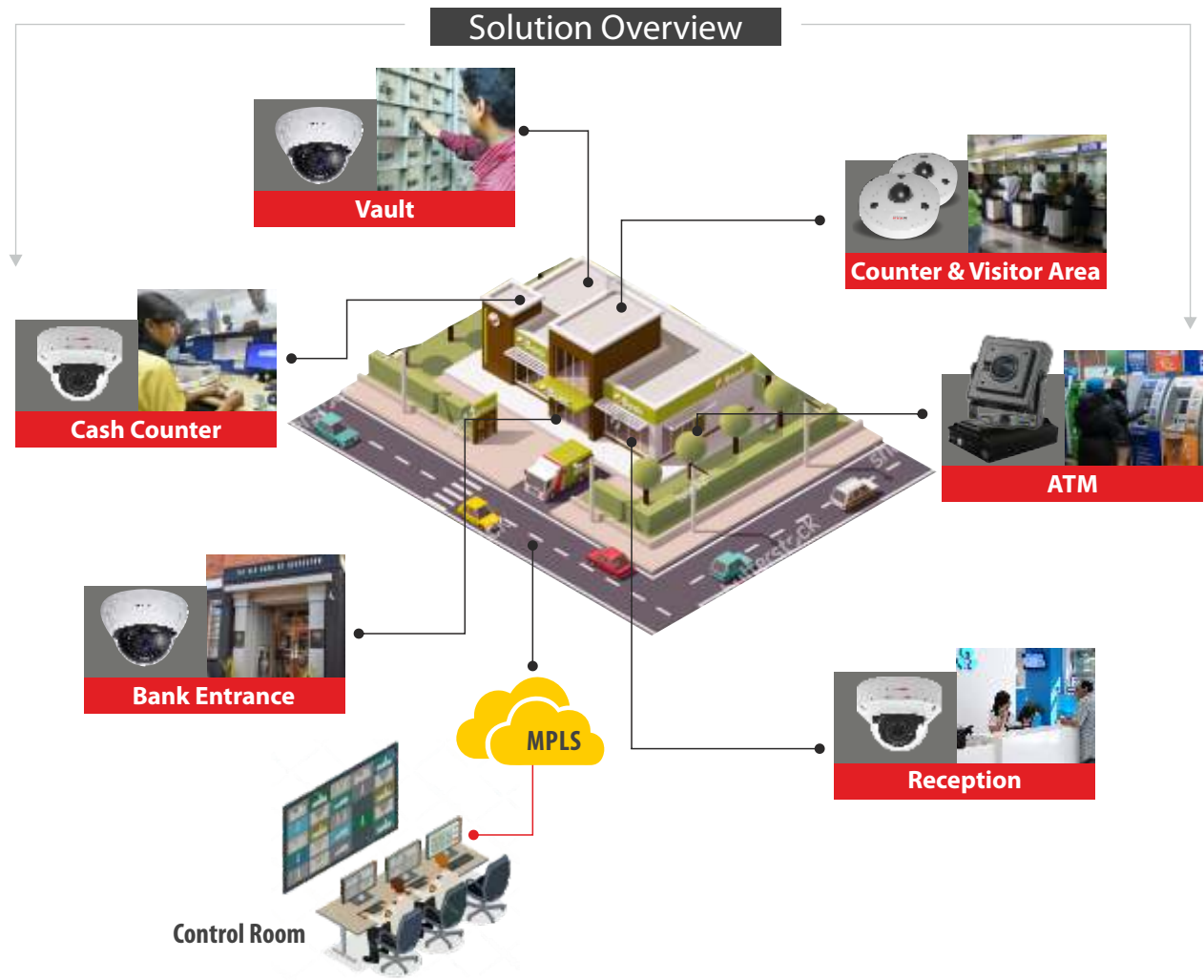
Branch

ATM

Cash Van

CHALLENGES

- High resolution video for post analysis
- Ensure safety of customers and employees
- Track transactions for bank and customer satisfaction
- Reliability of system
- Increase business efficiency and enhance customer service
- Incident Management
- Instant Reporting System
- Health monitoring at control room for system ability

SOLUTION

- High resolution cameras and DVR will record details of the suspicious persons
- Low light CCTV cameras will capture images in such areas
- The proposed system will leverage existing analog camera base
- Introduction of network video surveillance to detect potential security threats

Surveillance Solution

Solution Overview

Vault

Counter & Visitor Area

Cash Counter

ATM

Bank Entrance

MPLS

Reception

Control Room

SURVEILLANCE NEED AT ATM

Authorized Access

ATM Machine Surveillance

Man movement and activity Storage

REDEFINING ATM SURVEILLANCE
ATM SECURITY CHALLENGES

- Free access to ATM

- Authentication of customer claims

- Face recognition is poor due to low quality CCTV surveillance system

- No surveillance just outside ATM

- Access to only authorized persons & identification of offender

- High quality footage to help authorities identify and alert its network

- Easy and seamless upgrade to the latest solution

- System alerts can be set when repeat offenders try to transact

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T&A at Entrance area

Fingerprint Access Control with EM Card

- Time Management : Manage time of all employees within the bank.

- Employee Tracking : Track shifts, overtime, holidays & leave of the employees

- Protect Payroll Fraud: Provide accurate payment method without any fraud

- Data collection : Data can be collected in a centralized location
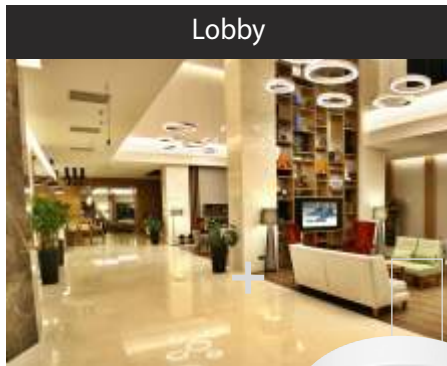
Entrance area

3 MP Full HD WDR IR Vandal Dome Camera - 50Mtr.

- People Counting: Count customers that enter your stores and determine optimal staffing levels for peak customer periods. Also helpful for business analysis/ strategies.

- Analysis : Daily, Weekly, Monthly and yearly report can be generated of total footfall.

Surveillance Solution

Lobby

**12 MP Ultra HD
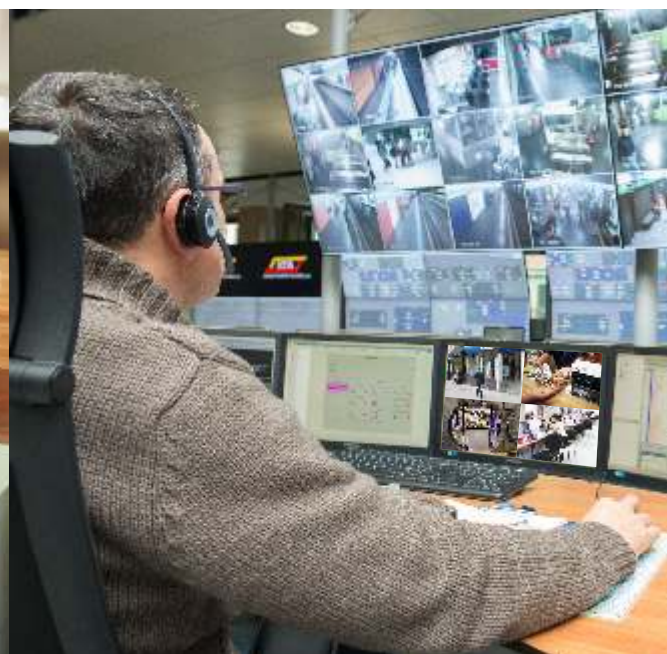Vandal Proof IP IR
Fish eye camera - 10Mtr.**

- Fish Eye Camera : To cover complete 360 degree view.

- Dewarping Mode : The image can be split into multiple windows to get more detailed image

- Heat Map: To see the gathering in different area at retails store, which helps with business analysis.

- Audio Output : For announcement of business promotional offers.

- Alarm I/O : To integrate different sensor like smoke, fire, glass break etc.
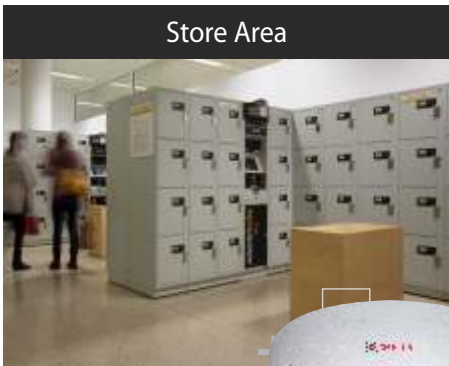
Reception Area

**2 MP Full HD
IR Vandal Dome
Camera - 30Mtr.**

- Resolution 1080P@50fps : To Recognize face of each student, staff & visitor

- Edge Recording : For the redundancy of data edge base recording for critical cameras is needed

- Audio I/O : For any conversation recording and announcement

- Face Detection : Face capturing for each visitor for further analysis

Store Area

**2 MP Full HD
IR Vandal Dome
Camera - 30Mtr.**

- 1080P Resolution : To Recognize face of each student, staff & visitor

- H.265 : For data redundancy.

- Face Detection : To capture face of each customer, for get intelligent playback

- WDR: To capture proper face in typical light situations
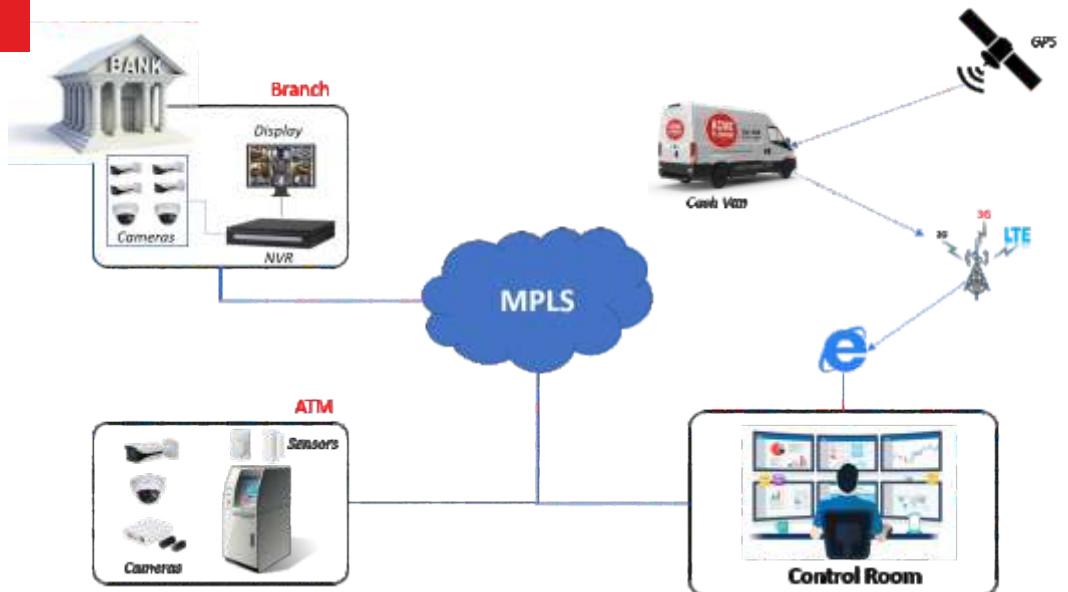
Network Video Recorder

**64 Ch. H.265 4K
Network Video Recorder**

- Recording/Playback : Multiple cameras can record and playback simultaneously (depends upon no. of cameras)

- Live Monitoring : Multiple cameras can monitor at a time.

- Alarm Logs : All analytics logs can be stored with related video

SYSTEM ARCHITECTURE

CONTROL ROOM

Retail Solution

The organised retail segment in India is expected to witness higher growth going forward due to several organic and policy developments like FDI clearances in retailing, the changing consumer needs, rise in young and working population and increase in nuclear families among others.

To secure the future of retail one critical element is surveillance. That not only captures or deters pilferage – but with today's technological advancements can also provide shopper logistics, market intelligence, employee monitoring across formats like large malls, multi brands, branded showrooms and traditional retail.

CP PLUS

Intelligent Surveillance for Retail Vertical

Outlets | **Super Markets** | **Malls** | **Retail Shop**

CHALLENGES

- No proper recognition of the customer and staff
- Monitor staff behaviour against customers
- Preventing shoplifting has been one of the primary concerns
- Most prone to break-ins after retail hours
- Optimizing the shop floor efficiency.
- Purchase Invoice tracking
- Right deployment of staff, when the store is busiest
- Effective promotional offers.
- Keeping a watch on your housekeeping staff to ensure that they keep the store neat and clean

SOLUTION

- High resolution cameras for 24x7 monitoring
- People counting cameras at entrance points for footfall count and to know the trend of business
- Fisheye cameras for floor areas to cover 360° view with one camera
- Heatmap analytics to monitor the crowd at different store for business analysis
- Announcement for the promotions via audio I/O in camera
- High FPS camera at cash counter to monitor all transactions closely
- POS integration with cash counter cameras to make video more meaningful
- Panic Button at Cash counter for emergency situation
- Low light cameras in store rooms

Solution Overview

Cash Counter

Floor Area

Office Area

Store Area

Mall Entrance

Parking Lot

Surveillance Solution

CP PLUS

Parking Area

4K Full HD IR Bullet Camera - 50Mtr.

- 4K resolution: Higher resolution is needed to get more details from a wide area
- HLC/WDR: To adjust in different light conditions
- Motorized zoom : To achieve proper FoV of the camera
- Edge Recording : For redundant recording

Entrance area

2 MP Full HD IR Vandal Dome Camera - 30Mtr.

- 1080P Resolution : To Recognize face of each customer, staff & visitor
- Edge Recording : For data redundancy.
- Face Detection : To capture face of each customer, and to generate intelligent playback
- WDR: To capture proper face in typical light situations

T&A at Entrance area

Fingerprint Access Control with EM Card

- Time Management : Manage time of all employees within the retail store.
- Employee Tracking : Track shifts, overtime, holidays & leave of the employee
- Protect Payroll Fraud: Ensure accurate payments without any fraud
- Data collection : Data can be collected in a centralized location

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Surveillance Solution

Entrance area

3 MP Full HD WDR IR Vandal Dome Camera - 50Mtr.

- People Counting: Count customers that enter your stores and determine optimal staffing levels for peak customer periods, Also helpful for business analysis/strategies.

- Analysis : Daily, Weekly, Monthly and yearly report can be generated of total footfall.

12 MP Ultra HD Vandal Proof IP IR Fish eye camera - 10Mtr.

- Fish Eye Camera : To cover complete 360 degree view.
- Dewarping Mode : The image can be split into multiple windows to get more detailed image
- Heat Map: To see the gathering from a different area at the retail stores. Also helps with business analysis.
- Audio Output : For announcement of business promotional offers.
- Alarm I/O : To integrate different sensors like smoke, fire, glass break, etc.

Floor Area

Cash Counter

2 MP Full HD IR Vandal Dome Camera - 30Mtr.

- Resolution 1080P@50fps : To Recognize face of customer & record the transaction details
- PoS text overlay for meaningful evidence
- Edge Recording : For the redundancy of data
- Audio I/O : For any conversation recording and announcement
- Face Detection : Face capturing for each visitor for further analysis
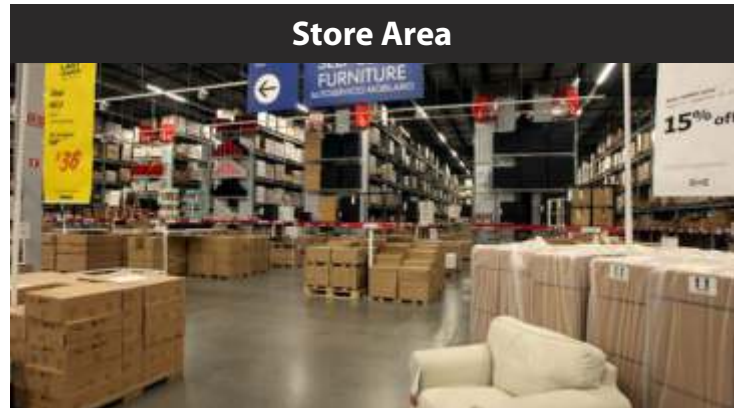
![CP PLUS logo]

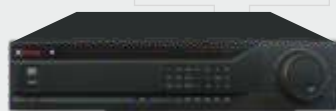**2 MP Full HD IR Vandal Dome Camera - 30Mtr.**

- 1080P Resolution : To Recognize face of each student, staff & visitor
- H.265 : For data redundancy.
- Face Detection : To capture face of each customer, and for intelligent playback
- WDR: To capture clear view of face in typical light situations

Store Area

CONTROL ROOM

SYSTEM ARCHITECTURE

64 Ch. H.265 4K Network Video Recorder

- Recording/Playback : Multiple cameras can record and playback simultaneously (depends upon no. of cameras)
- Live Monitoring : Multiple cameras can monitor at a time.
- Alarm Logs : All analytics logs can be stored with their related video

Face Recognition

Floor Cameras

People Counting

Cash Counter

T&A for Employee Management

Centralized Monitoring/Control Room

T&A Management Software

CCTV Health Monitoring System

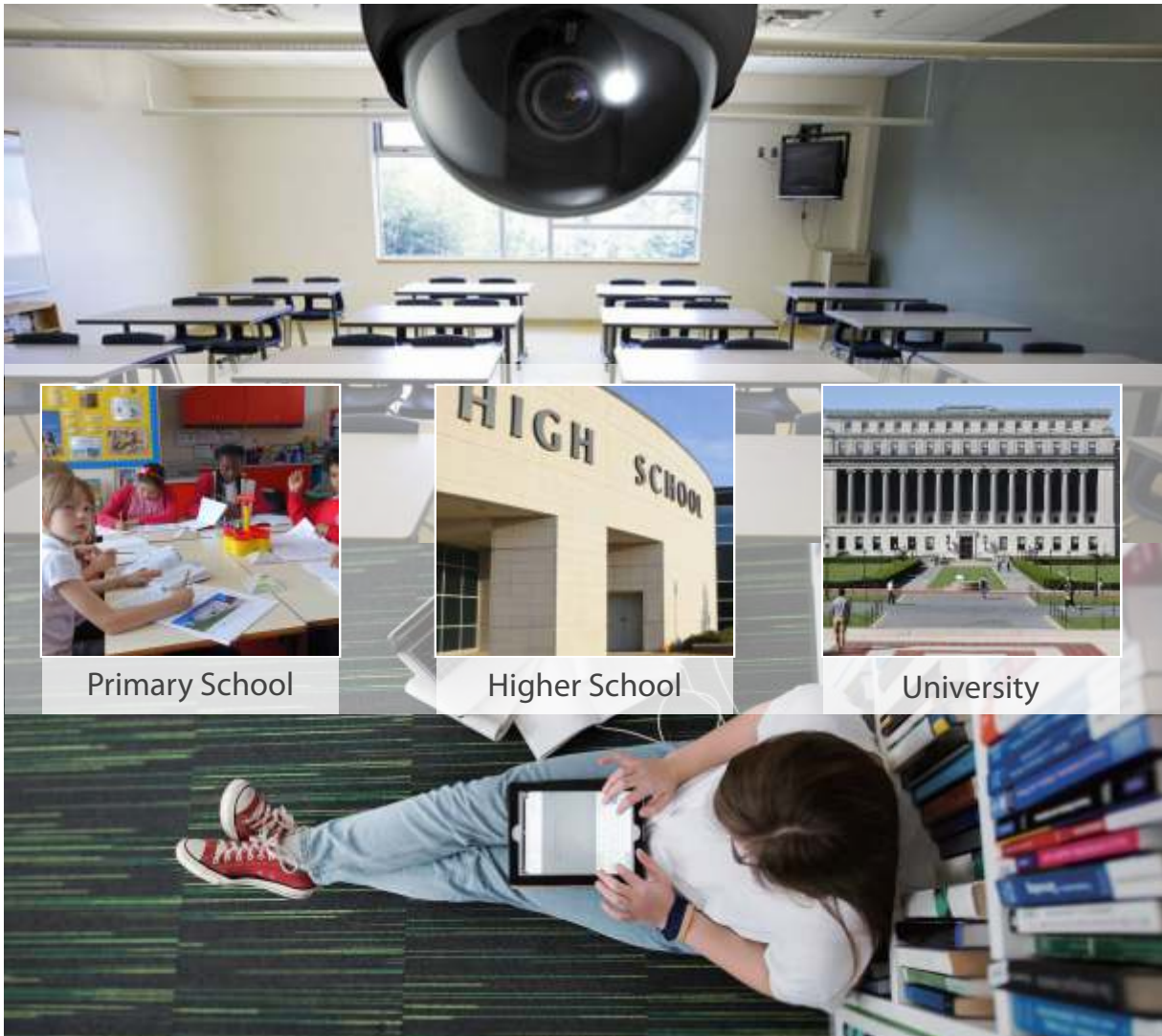Switch

POS Machine

NVR

Internet

45

Campus Solution

Educational campuses pose many unique challenges when it comes to security. College campuses feature a variety of buildings, each with their own security needs. Campus security cameras can serve as a visual deterrent to crime such as eve teasing, bullying, ragging, vandalism of property etc. and serve as an invaluable tool, allowing students to wander under the safe watch of campus security cameras.

Smart Surveillance for Campus Vertical

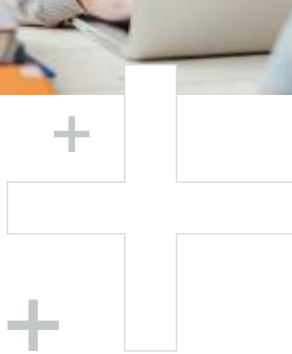Primary School   Higher School   University

CHALLENGES

- Protection of students and staff
- Protection from unauthorized intruders
- Monitoring of unknown vehicle entry
- Private areas monitoring
- Misbehaviour of staff or student
- Safety and security while travelling in school buses
- Protection from criminal acts, drugs etc.
- Prevention from Bullying/Eve teasing etc

SOLUTION

- High resolution cameras for 24/7 monitoring and recording
- Proper identification and logs of people at entry/exit points
- Periphery protection with intelligent analysis
- PTZ cameras for open area and playground, as most of the bullying/Eve teasing takes place in such areas.
- Emergency/Panic buttons at vulnerable points for immediate action
- Restriction of entry for unauthorized people
- Fool proof checking/frisking of weapons or non permit able gadgets

Surveillance Solution

Solution Overview

Class Room

On-Route Tracking

Main Entrance

Reception Entr

Main Entrance

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

- Full HD Camera to monitor vehicle and provide license plate recognition
- HLC : To supress vehicle headlight during the night time
- Motorized zoom : To achieve proper FoV of the camera
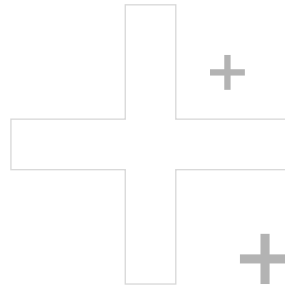- Edge Storage : As the entry camera is critical need edge storage for redundancy

Parking Area

4K Full HD IR Bullet Camera - 50Mtr.

- 4K resolution: To cover wide areas higher resolution is needed to get more details
- Audio I/O : To announce any message at parking area
- Motorized zoom : To achieve proper FoV of the camera
- Alarm I/O : To integrate panic button for emergency

Parking Lot

Perimeter/Open Area

Lobby / Hallway / Library

ry & Exit

Perimeter Area

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

- Analytics : Tripwire analytics can be used for immediate notification at control room
- Motorized zoom : To achieve proper FoV of the camera
- Alarm Integration : Strobe light, hooter can be integrated for immediate alert
- PTZ linkage : Fixed camera can be integrated with PTZ, so that if any unauthorized activity takes place then the PTZ can automatically focus on that area.

Surveillance Solution

Playground

2MP 30x WDR Network IR PTZ Dome Camera - 150 Mtr.

- PTZ Function : Can move camera in any direction and can zoom to get a more detailed image.
- Auto Program : Can use preset, tour and pattern for patrolling large areas.

Reception Area

2 MP Full HD IR Vandal Dome Camera - 30Mtr.

- 1080P Resolution : To recognize the face of each student, staff & visitor
- Edge Recording : For the redundancy of data edge base recording for critical cameras is needed.
- Audio I/O : For any conversation recording and announcement
- Face Detection : Face capturing for each visitor for further analysis

Lobby, Library

12 MP Ultra HD Vandal Proof IP IR Fish eye camera - 10Mtr

- Fish Eye Camera : To cover complete 360 degree view for generic surveillance, helps to cover all dead areas with a single camera.
- Dewarping Mode : The image can be split into multiple window to get more detailed image

Corridors/Private areas

2 MP Full HD IR Vandal Dome Camera - 30mtr.

- Corridor Mode: this mode helps cover more area in the corridors while reducing the number of cameras needed
- Panic Button: To address emergency situation for student & staff.
- Audio Analytics : Mics can be installed in private areas to capture any abnormal activity with Audio Analytics

CP PLUS

Mobile DVR Solution for School Van

100% vibration, shock proof and tamper proof MDVR/MNVR

- 100% shock proof, vibration proof and tamper proof solution for moving vehicles.
- Supports Analog HD, IP and Analog camera input to provide integrated solution with different surveillance technology
- SD card and HDD option for storage
- 3G/4G support for real-time remote viewing
- GPS support for online tracking of vehicle in google map & recording of GPS coordinates, Also provides speed detection and time sync
- Wi-Fi support to auto download the video recording once vehicle reaches the depot.
- Support 8V~36V (for DVR) & 6V~36V(MNVR), hence compatible with all kind of transportation system
- Built-in G sensor to analyse the driving quality
- Sensor integration such as fuel sensor , door contact etc. to design perfect solution for transport .
- Upto 4Ch additional IP camera support in Hybrid MDVR

Cameras
- Camera available with IP and Analog HD technology supported
- Options upto 2MP HD resolution
- Available in Dome, Vandal dome and Bullet
- Fixed focal length with various options like 2.8mm, 3.6mm, 6mm & 8mm to match the solution requirement to get the required FoV
- Smart IR for better night vision
- IP66 weather proof rating to suit different weather condition

Network Mobile Positioning System
- Upto 2MP PTZ camera to provide more detailed image for an evidence
- Upto 30x optical zoom to record evidence from long distance
- WDR support to get clear image in different tough light conditions
- Auto Tracking Support for suspicious objects
- Upto 150mtr. long IR range.
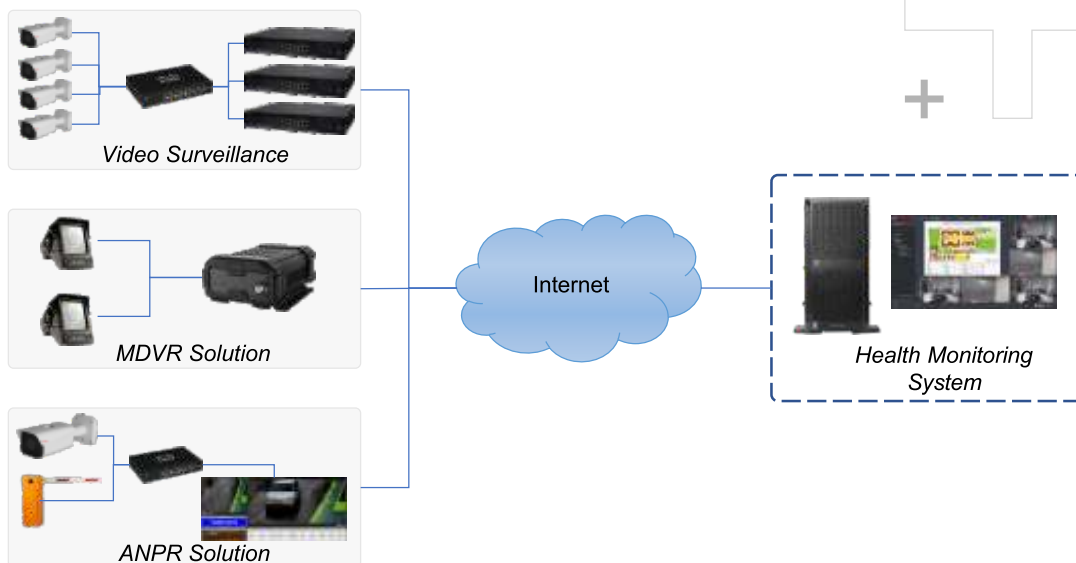

Solution ComponentS (Cameras)

CONTROL ROOM

64 Ch. H.265 4K Network Video Recorder

- Recording/Playback : Multiple cameras can record and playback simultaneously (depends upon no. of cameras)
- Live Monitoring : Multiple cameras can be monitored at a time.
- Alarm Logs : All analytics logs can be stored with related video

SYSTEM ARCHITECTURE

Video Surveillance

MDVR Solution

ANPR Solution

Internet

Health Monitoring System

Industrial Solution

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.

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ARTIFICIAL INTELLIGENCE

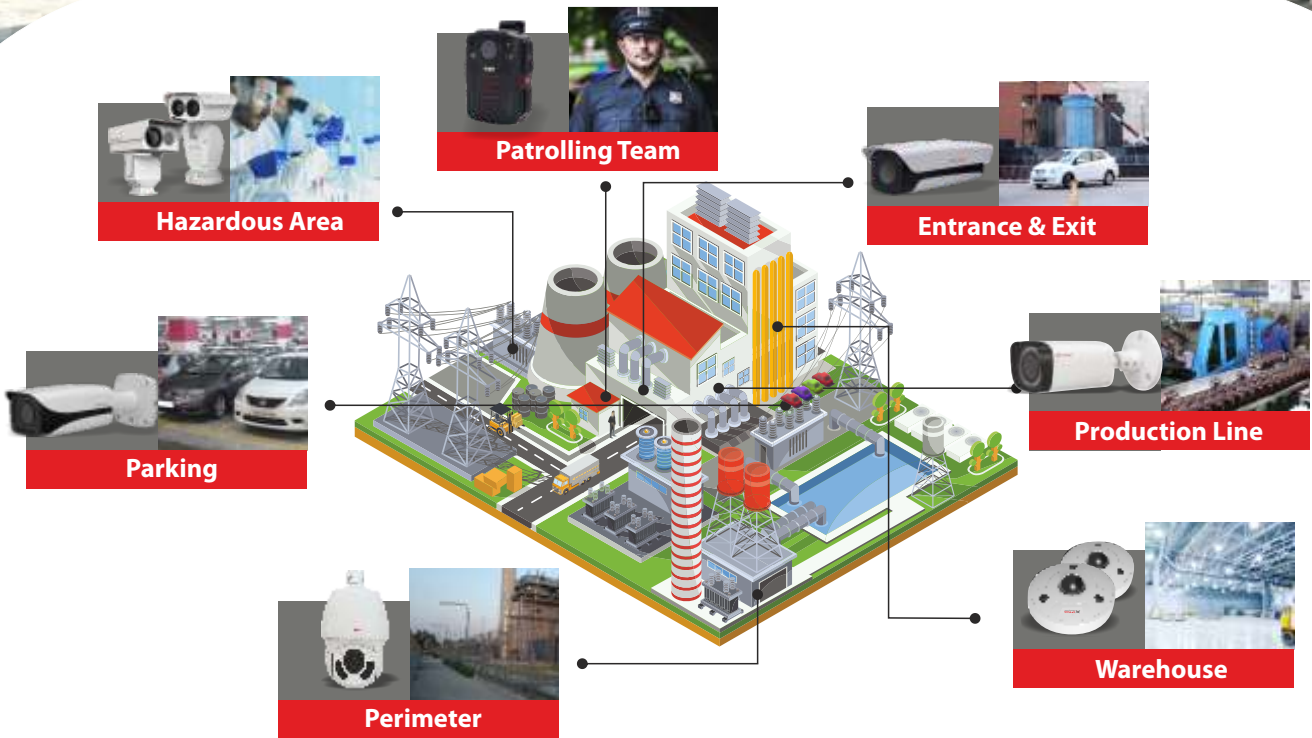# Intelligent Surveillance for Industrial Vertical

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

Patrolling Team

Hazardous Area

Entrance & Exit

Parking

Production Line

Perimeter

Warehouse

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

Surveillance Solution

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 PTZ camera

- 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.

Fingerprint Access Control with EM Card

- 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

Entrance Area

Surveillance Solution

CP PLUS

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

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

Surveillance Solution

Explosion Proof Cameras

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

Hazardous Area

Patrolling Team

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.

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

Goods Vehicle

CONTROL ROOM

- **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

Law Enforcement Solutions

Police forces fulfill the arduous task of ensuring peace and order within a city/ state. Managing a bustling population can be a daunting task; be it ensuring traffic rules are being abided by, or nabbing the accused, or enforcing laws. In all of these cases, surveillance plays a significant role. Surveillance also serves as a vital evidence collection tool, video footage being one of the most credible sources of evidence. After all, when it comes to justice, there should be no room for ambiguity.

With CP PLUS solutions tailored to meet their specific requirements, Police forces can now detect, deter/ address events and emergencies with greater spontaneity.
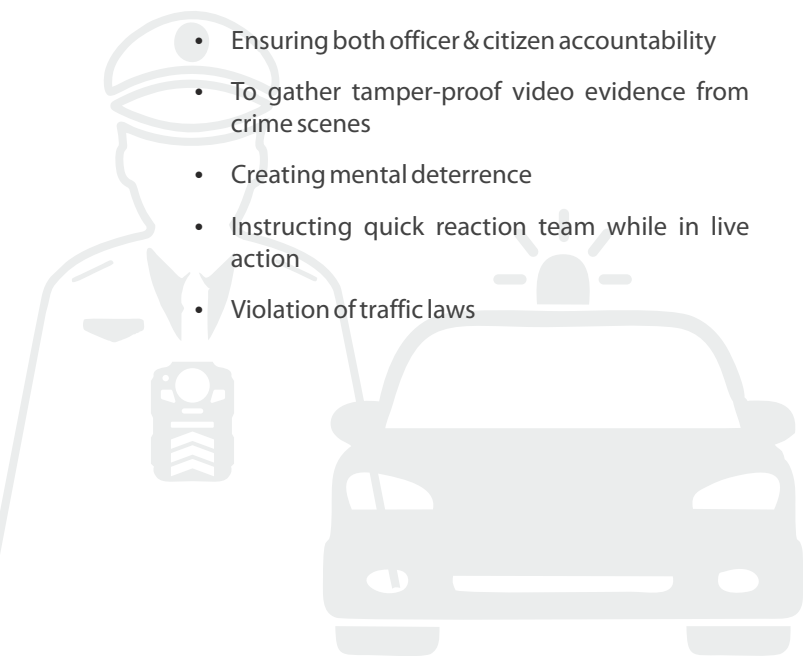
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Intelligent Surveillance for Enforcement Vertical

CHALLENGES

- Recording their interaction with the public
- Capturing an offense and identifing the party involved
- Ensuring both officer & citizen accountability
- To gather tamper-proof video evidence from crime scenes
- Creating mental deterrence
- Instructing quick reaction team while in live action
- Violation of traffic laws

SOLUTION

- ANPR solution to capture the number plate & to avoid violation of traffic rules.
- Edge-based analytics cameras equipped with analytical features like trip wire, intrusion detection, face detection, loitering, and more.
- PTZ cameras which are ideal for open areas, advantageous primarily for their unique feature of being able to pan-tilt and zoom in to provide close view of selected sections of the field of view.
- Body worn surveillance solution a video recording system, utilised by Law Enforcement Agencies to collect Evidence
- Mobile DVR/NVR solutions for monitoring live feed from the site

BODY WORN
FULL HD CAMERA WITH 4G, WI-FI & GPS

- 1080P colour video recording to capture incidents.
- 32GB inbuilt storage, up to 128GB variant available.
- Snapshot capturing with 32MP to get a more detailed image
- Inbuilt GPS module to track live location of camera.
- 4G + Wi-Fi connectivity for seamless transfer of video feed to server.
- Rugged design with IP 65 rating to suit all kind of weather conditions.
- Built in high quality mic to record audio.
- Cryptogaurd feature available to provide extra layer of security.
- High quality IR upto 10 meters to record videos in night.
- SOS button available to send alarm to Control center.
- Push to talk button is available.
- Laser light available for correct positioning of recording.
- Supports one touch recording.

DOCK STATION
DEVICE CHARGING/BACKUP TERMINAL

- Supports plug and play function for hassle free processing.
- Data Sync backup, supports upto 22 channel data backup simultaneously.
- Download data automatically, when BWC connects to terminal, including video, audio, pictures and log file .
- Automatically store the corresponding database according to the law enforcement number.
- Fast recharging, all connected cameras can be fully recharged within 4 hours.
- 24x7 working design continues.
- Security: only authorized people can access the terminal and backup data.
- Rotating wheel, it has 4 rotating wheels, making it easy to move, install and store.

DEVICE ACCESSORIES

Remote controller watch.
- Dedicated key to power on/off the camera.
- Dedicated key to start/stop video recording.
- Dedicated key to take snapshots.
- Easily operational from 5 meter.

External camera.
- 2MP full HD camera for color video recording .
- High quality IR upto 10 meters clear night vision recording.
- Light weight and easily mountable on helmets or collars.
- IP 65 rating to suit all kind of weather conditions.

Surveillance Solution

Traffic Junction

2MP/3MP/6.8MP Traffic Picture Capture Camera

- Information of the picture includes time, place, number/direction of lanes (up to 3 lanes)
- Plate information (license plate)
- Vehicle information (speed and the type of vehicle)
- Event name and the breach code
- Video/Image with watermark
- Built-in heater and lamp
- Easy to install
- Embedded integration component design

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2 Megapixel Full HD WDR Access ANPR Camera
- Embedded with Licence Plate Recognition (LPR) algorithm
- Supports plate cut out, overview, picture snapshot and video recording
- Embedded with white list database to control the barrier
- Multiple lens options to support varying ANPR distances as follows:
  - → Powerful 2.7-12mm motorized lens and IR light, ideal for monitor ANPR distance as 3~8m
  - → Powerful 5-50mm manual lens and white light, ideal for monitor ANPR distance as 40m
- Wide range of working temperature
- IP67, IK10 rating and superior performance for outdoor applications
- Micro SD, Max 64GB Status Display Local PC for Instant Recording
- Recognition in low speed environment (<60Km/H) such as in parking lots, entry & exit, etc.

2.3MP Traffic Flow Analytics Camera for Red Light Violation

- Embedded integration component design
- Built-in algorithms such as traffic data collection and analysis; vehicle type; etc.
- Performance: Supports up to 4 lanes for traffic data counting; Vehicle types (Passenger Car, Large Truck, Mid Truck, Saloon Car, Micro bus, Micro Truck); and statistical data of each lane (time, date, statistical period, lane, traffic flow, occupancy, headway, average speed, queue length, vehicle type of each line)
- Supports up to 80m of traffic data counting range
- Detection accuracy is over 99% at speeds <80km/h
- Supports a variety of signals, data and communication interfaces

Highway

RADAR-Based Speed Enforcement System For Speed Violation

- Adopt embedded system structure with industrial PC, radar and camera for accurate and stable results
- Supports mobility and fixed installation
- Offers high performance 8MP CCD image sensor with enhanced picture reproduction
- Supports 500GB HDD storage - can save more ten thousand pictures and violation videos
- Supports lanes distinction, multiple objects' detection; speeds and distances
- Supports license plate recognition (LPR)
- Supports 3G/4G Wireless transmission
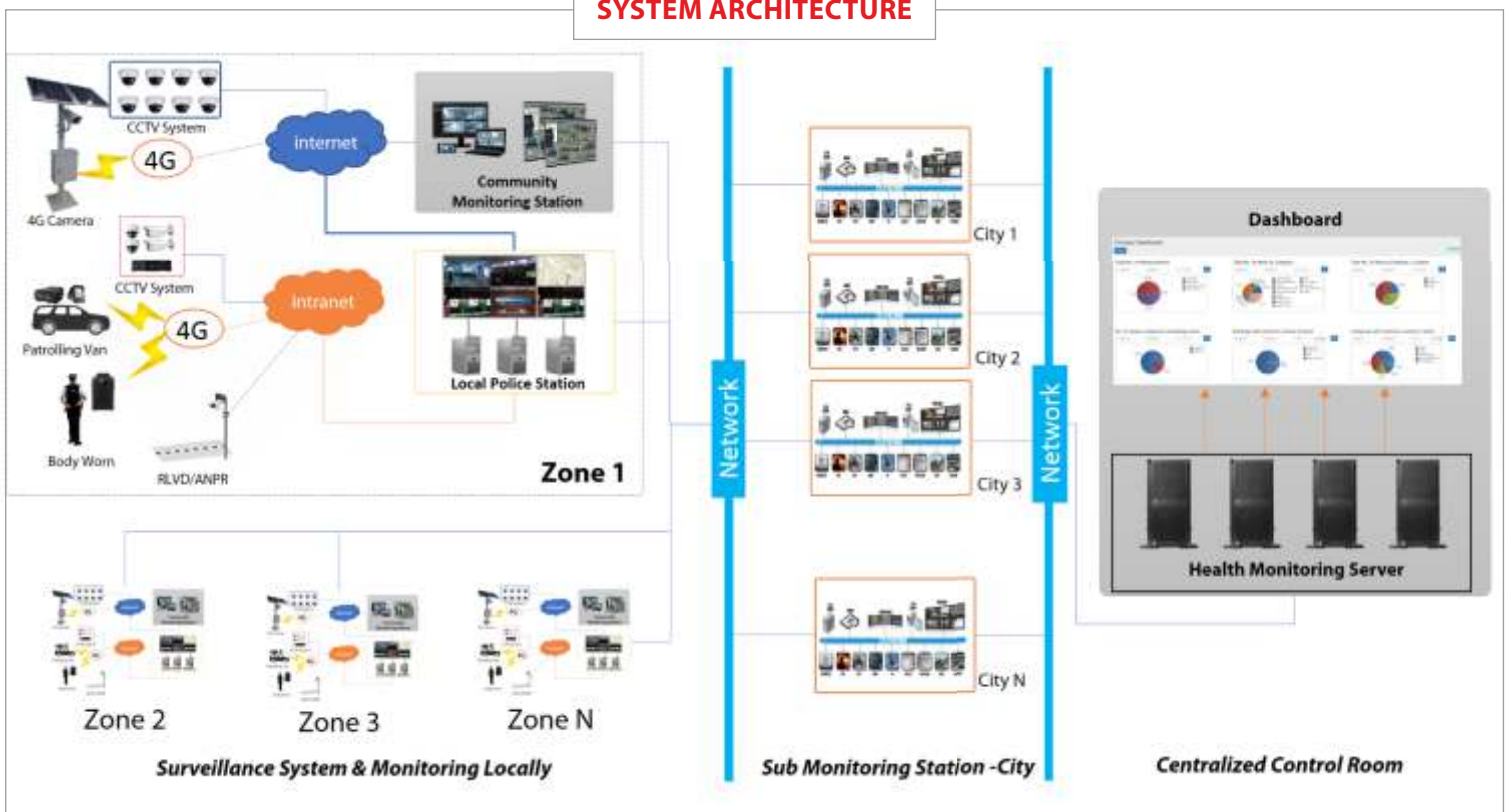- Supports GPS mapping and NTP protocol to synchronize time

CONTROL ROOM

- We can view up to 100 cameras live on a single screen.
- Audio broadcasting available to send emergency messages to all camera at the same time.
- Alarm configuration available on the basis of GPS loss of camera, Communication break, Geo fencing, Emergency button alert from camera.
- Remote playback and download feature available to search and download recorded files of camera.
- Supports live and recorded GPS tracking for post analysis.

SYSTEM ARCHITECTURE

Surveillance System & Monitoring Locally | Sub Monitoring Station -City | Centralized Control Room

Transport Solution

India's transport sector is large and diverse; it caters to the needs of 1.1 billion people. Good physical connectivity in the urban and rural areas is essential for economic growth. Since the early 1990s, India's growing economy has witnessed a rise in demand for transport infrastructure and services. India has an extensive network of transport through ports, highway networks, railways and airports. While this drives commerce in the future, it is also important for industry to take steps to safeguard and protect transportation networks and systems.

Different solutions with intelligent features for Transport

CHALLENGES

- Pickpockets tend to target people on public transport
- Violation of traffic laws by drivers go unmonitored
- Sensitive vehicles like bank cash Vans, VIP vehicles are prone to attacks
- Cargo/shipment go unmonitored due to which the goods get damaged
- Lack of Compatibility with variable voltages
- Vibration and shocks in vehicle which impacts the hardware components of the device.
- Blame Game : Bonafide Evidence
- Vandalism of vehicles

Public Taxi	Buses	Trains/Metros

SOLUTION

- HD cameras in vehicles, ships, cargos etc. to create a safer transportation environment
- Sensor integration with MDVR to Reduce costs for vandalism and graffiti
- Live monitoring and GPS tracking to efficiently monitor cargo and property
- Two way talk which reduce incident response time
- GPS to tag the video evidence with current location, quickly decide the correct incident response.
- 3G/4G to communicate with control room in real-time for monitoring, instant report.
- Wi-Fi to connect with emergency control room & auto download the recorded video
- Built-in OBD Sensor check th e health status of the device to health the device status
- EN 61373 - Shock and Vibration Compliance to protect device from vibration and shocks

Intelli Trak
Mobile DVR

- Multi-channel live view based on 3G/4G
- Shows the vehicle, GPS, alarm, log information clearly
- Supports to lock alarm vehicle automatically
- Supports PTZ control and MDVR remote configuration
- Supports remote recording
- Supports download playback video file
- Vehicle management
- Database supported and GPS route playback
- Supports report exporting and multiple user level mgmt.
- WEB client login supported; iOS and android mobile phone client supported

▶ **Solution Components (Management Server)**

Cameras

- Camera available with IP and Analog HD technology supported
- Options upto 2MP HD resolution
- Available in Dome, Vandal dome and Bullet
- Fixed focal length with various options like 2.8mm, 3.6mm, 6mm & 8mm to match the solution requirement to get the required FoV
- Smart IR for better night vision
- IP66 weather proof rating to suit different weather condition

Network Mobile Positioning System

- Upto 2MP PTZ camera to provide more detailed image for an evidence
- Upto 30x optical zoom to record evidence from long distance
- WDR support to get clear image in different tough light conditions
- Auto Tracking Support for suspicious objects
- Upto 150mtr. long IR range.

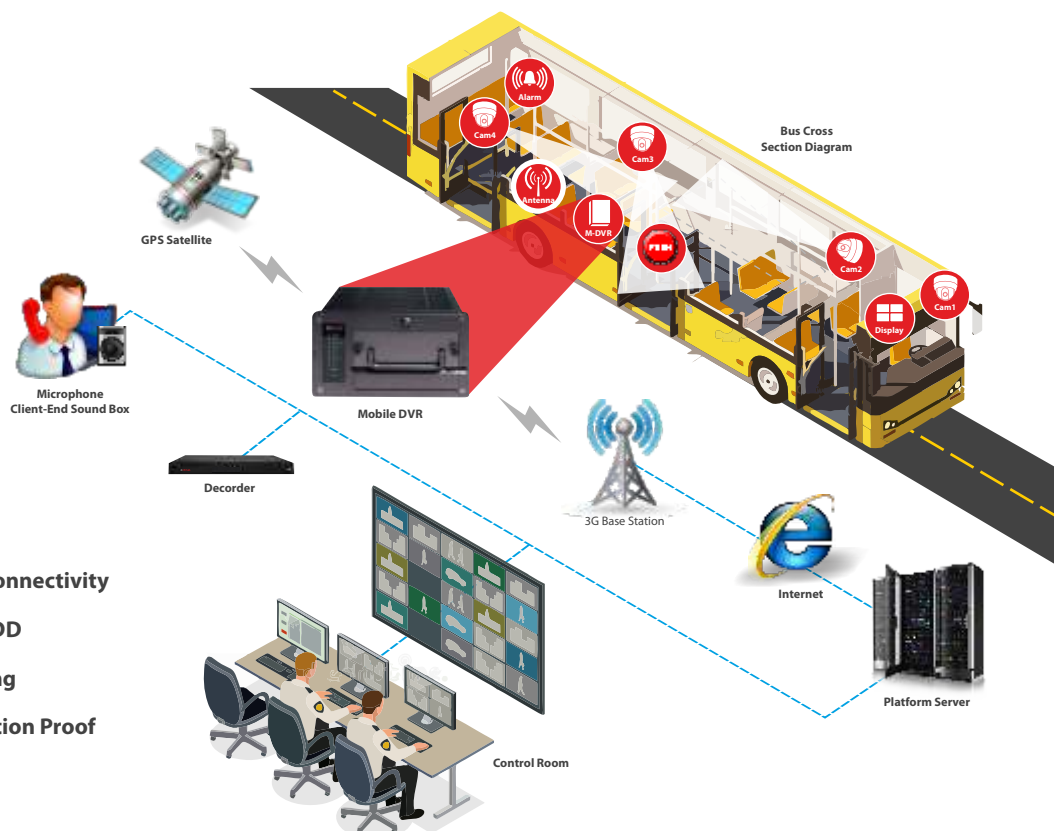**Solution ComponentS (Cameras)** ◀

- Support 10000 devices within the single platform
- Remote viewing, Playback, Management backup etc. can be performed remotely
- Google map live tracking of devices
- Geo-fencing can be done to get quick alert for any change of route
- Alarm reporting system to get instant alert.

▶ **Data Management, monitoring, evidence collection software**

CP PLUS

- 100% shock proof, vibration proof and tamper proof solution for moving vehicles.
- Supports Analog HD, IP and Analog camera input to provide integrated solution with different surveillance technology
- SD card and HDD option for storage
- 3G/4G support for real-time remote viewing
- GPS support for online tracking of vehicle in google map & recording of GPS coordinates, Also provides speed detection and time sync
- Wi-Fi support to auto download the video recording once vehicle reaches the depot.
- Support 8V~36V (for DVR) & 6V~36V(MNVR), hence compatible with all kind of transportation system
- Built-in G sensor to analyse the driving quality
- Sensor integration such as fuel sensor , door contact etc. to design perfect solution for transport .
- Upto 4Ch additional IP camera support in Hybrid MDVR

100% vibration, shock proof and tamper proof MDVR/MNVR

SYSTEM ARCHITECTURE

- ▸ **Wireless/3G Connectivity**
- ▸ **Removable HDD**
- ▸ **Video Archiving**
- ▸ **Shock & Vibration Proof**

Oil & Gas Solutions

Oil & Gas sites are often remote and isolated with assets spread across large areas and multiple locations. Such challenging locations require an intelligent, robust and proactive approach to security. From onshore refineries, plants and pipelines to marine vessels and platforms offshore, Oil & Gas industries are some of the most hazardous environments. Harsh weather, extreme temperatures, remote locations, poor/ no light conditions, hazardous technical processes amid significant staff count are all factors that make safety and security both difficult and essential in this industry.

CP PLUS is a leading provider of Video Surveillance; Thermal Imaging; Mobile Surveillance Cameras; Artificial Intelligent Based Analytics; Access Control Systems; Video Management Systems; Health Monitoring System; etc. specifically designed to provide all-in-one site security for Oil & Gas sites.

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Safeguarding Oil & Gas Facilities

CHALLENGES

- Piracy, terrorism, vandalism, organized crime, and civil protest
- Shortfall in compliance of safety protocols
- Lack of process monitoring
- Trespassing by unauthorized individuals
- Lack of offsite monitoring
- Security and safety violations
- Inefficient day to day management of operations
- Integration of multiple security systems into a single platform
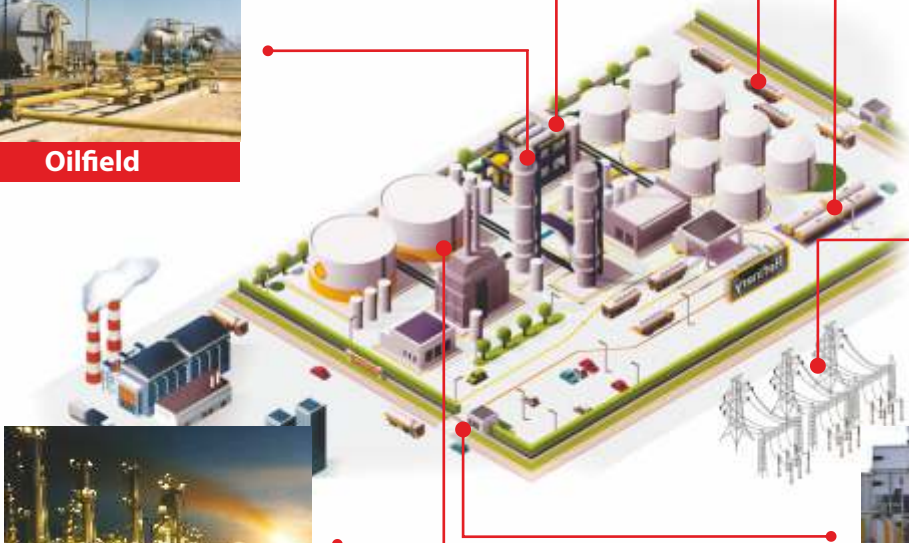
SOLUTION

- High Resolution HD (upto 4K) Panaromic cameras for wide coverage
- Artificial Intelligence based cameras to monitor unauthorized activities
- Explosion proof cameras for sensitive areas
- Thermal cameras for hazardous areas
- IP67 (weatherproof) & IK10 (vandal proof) rating cameras for outdoor locations
- Mobile DVR/NVR solution for fuel tanks with Alarm integration
- Body worn camera for site patrolling team
- Access control system to authorize staff and workers
- ANPR to capture vehicle no. plate at entry/exit points
- Video Management System for centralized monitoring, playback and integrated solution
- Health monitoring system for smooth running of surveillance system

Oil & Gas Solution

Gas Station

Tanker

Pipeline

Oilfield

Oil Wells

Refinery & Chemical

Gate Entry

Surveillance Solution

Entrance & Exit

High Resolution Camera with ANPR Solution

- 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

---

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

- Full HD@ 60 fps to capture fast moving objects and to recognise the no. plate and faces of the person

- True WDR/HLC to balance different light situation and provide more detailed image

- 50 meter IR range to see better image during night time

- Motorized zoom lens to control view (FoV) of camera as required

- SD card support for redundant recording

- Alarm I/O to integrate with boom barriers

- H.265 support to save huge storage and bandwidth cost.

Main Entrance

Pipe Line

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

- Thermal and Hybrid (Thermal+Optical) cameras are available

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

Fuel Tanker

Perimeter Area

Long range IR bullet cameras and PTZ

- 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.

Explosion Proof Cameras

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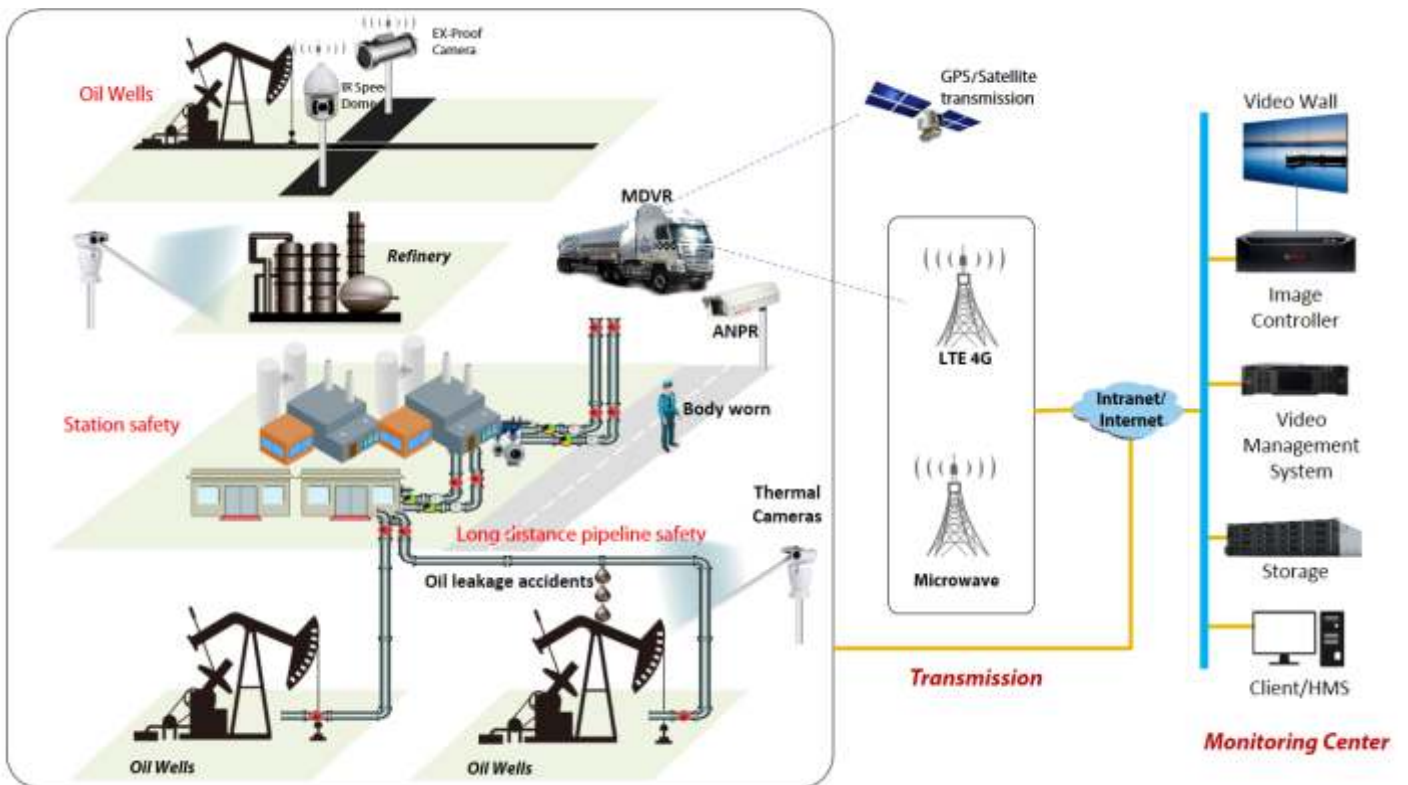- NEMA 4X: UL60950-1+CAN/CSA C22.2,No.60950-1

Hazardous Area

CONTROL ROOM

SYSTEM ARCHITECTURE