Building Surveillance Solution

Zhejiang Uniview Technologies Co., Ltd. is the pioneer and leader of IP video surveillance. Heritages profound IT technologies, we founded independently in December, 2011. We are the third largest manufacturer in the overall video surveillance market in China and 6th in global market. We insist on open cooperation, focusing on high quality and improving innovation ability.

Product Line:
Network Camera, NVR, IP Storage, Decoder, Keyboard, Switch, Monitor and Network Cable

uпv

BUILDING
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Technical Support: globalsupport@uniview.com

CHALLENGES & SOLUTION

SOLUTION OVERVIEW

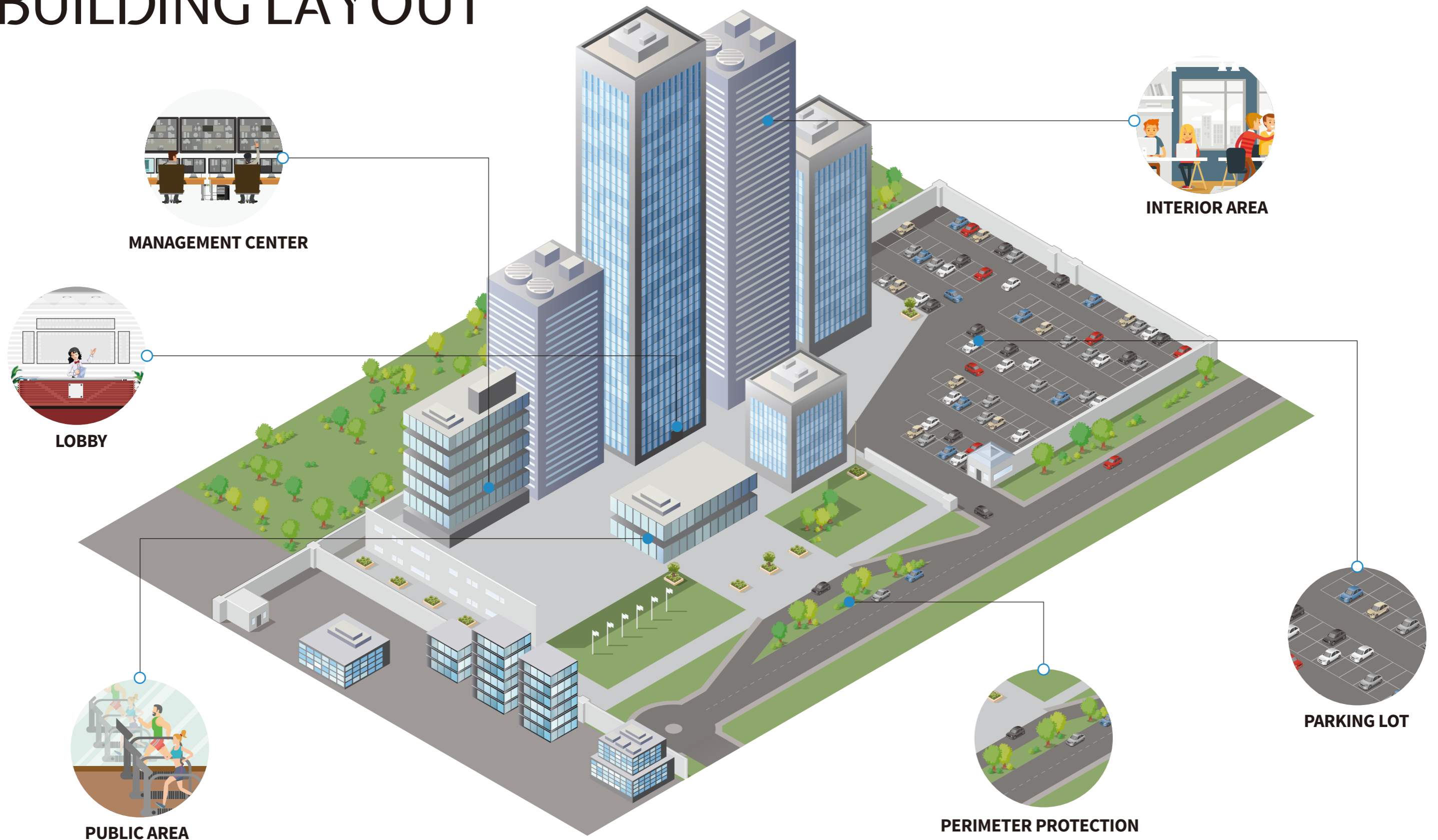### Challenges

▶ External personnel management

▶ Unauthorized entry

▶ Violence, accident and internal fraud

▶ Balancing between monitoring and privacy

Building is a venue for social activities such as economic, productive, cultural and entertainment activities. A comprehensive and sophisticated building surveillance solution should take the specific social activities and personal behavior into consideration. It needs to protect the privacy of individuals, and meanwhile be able to cover all critical areas without any blind spot.

Based on scenes, building surveillance solution can be further divided into: hotels, office buildings, hospitals, residential buildings and so on. Uniview has been dedicating to the surveillance industry for years, accumulated experience and knowledge on varied building scenes, and presented comprehensive building surveillance solutions which can be applied to all kinds of building surveillance scenes. In case of special applications, Uniview can also provide solutions to support.

Solutions

01 Entrances & Exits management system

02 Smart functions such as intrusion and crossing line detection

03 Full-time HD monitoring without blind spot

04 Visualized central management with an all-in-one, easy-to-use smart platform

05 Management center coordinates instant response and communication with on-site security guards in case of any abnormal event

06 Various smart functions such as privacy mask to protect individual privacy

BUILDING LAYOUT

MANAGEMENT CENTER

INTERIOR AREA

LOBBY

PUBLIC AREA

PERIMETER PROTECTION

PARKING LOT

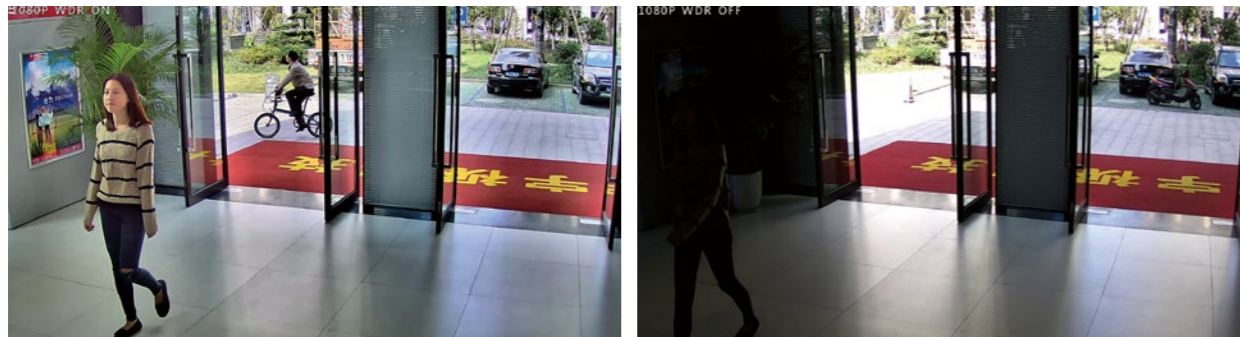**Building Surveillance**
Solution

FEATURES

LOBBY

Lobby is not only the main area for entrance and exit, but also the key area where staff frequently interact with visitors. In order to monitor lobby clearly, cameras need to adapt to various scenes and different building layouts.

WDR

UNV WDR cameras combine Sony STARVIS sensor technology with our self-developed ISP processing technology to fully utilize sensor's potential and imaging performance, deliver clear and visible images under high-contrast lighting condition. It is particularly ideal for entrances and exits.

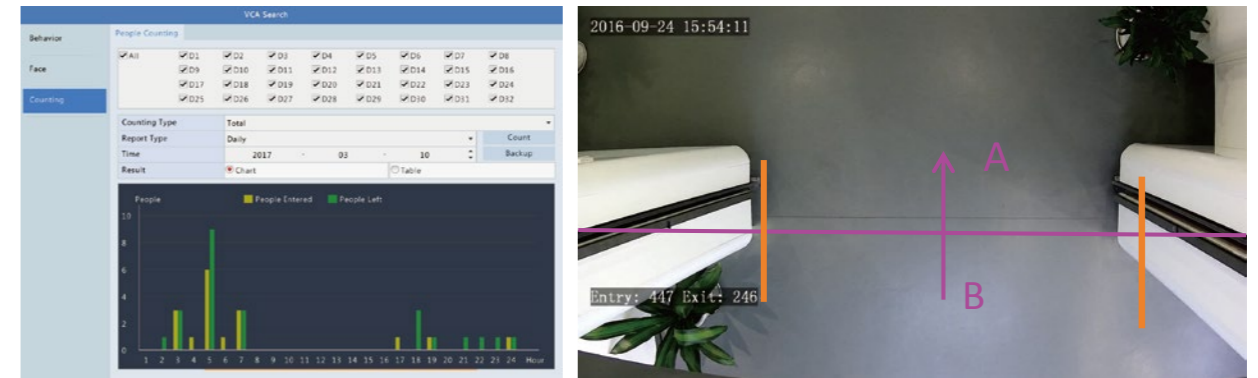**WDR ON**   **WDR OFF**

4K fisheye

4K fisheye cameras are ideal for sites with high floor height, large and wide areas such as lobby. UNV 4K fisheye fixed dome supports ceiling, wall and desktop mounting modes. It provides up to 16 kinds of de-warping modes including panoramic view interacted with UNV NVR and EZVMS.
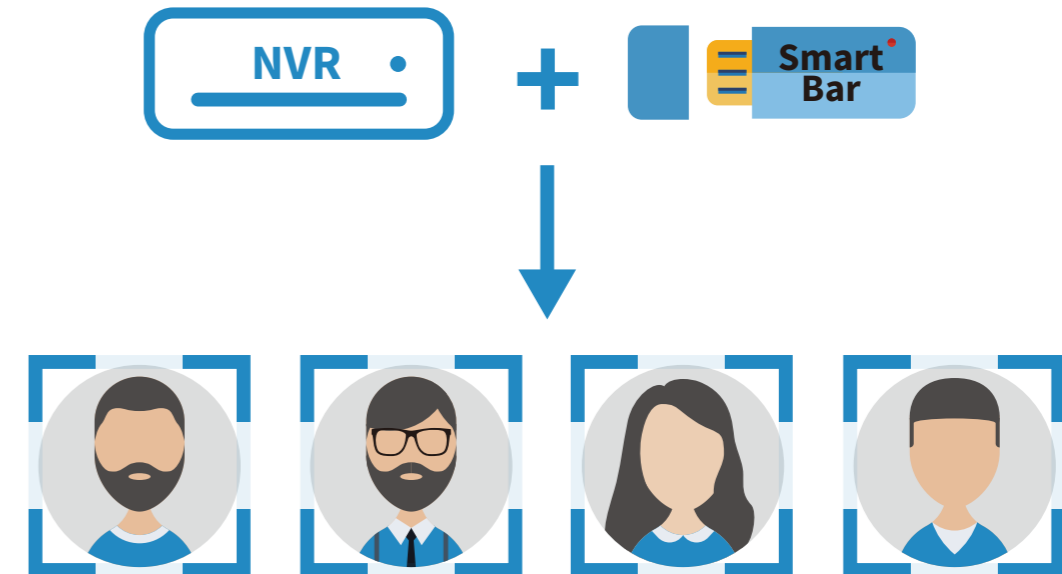

People Counting

UNV cameras can provide Intelligent Analysis functions such as people counting which supports real-time data of people flow at the entrance. In the meantime, NVR and EZVMS can output the daily/monthly/yearly report which is helpful for making business strategy and rearranging security staffs' schedule.

Face Detection & Face Recognition

Integrated with blacklist/whitelist filtering, Face Detection and Face Recognition (realized in a Smart Bar) functions enable UNV cameras to spot a target person and send alarms instantly to the management center.

PUBLIC AREA & INTERIOR AREA

Public areas (canteens, corridors and gymnasiums) and interior areas (offices, file rooms and storage rooms) have different feaures and mornitoring needs. A comprehensive and sophisticated building surveillance solution needs to adapt to different scenes accordingly.

Privacy Mask

In order to better protect privacy, a mask area could be configured on monitoring area on certain scenarios such as the numeric keypad of an ATM machine. When PTZ dome camera changes the position or zooms, the privacy mask will be adjusted accordingly to protect the area all along.

One single monitoring image can display up to 8 privacy masks. Certain models of UNV cameras support to configure up to 24 privacy masks.
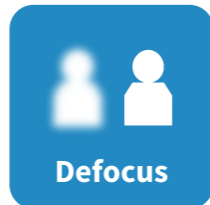
Privacy Mask

Smart Detections - Intrusion / Defocus / Scene Change / Audio Detection

- By implementing Intrusion Detection in controlled areas such as balconies, pipe shafts and electricity distribution rooms, UNV camera are enabled to prevent unauthorized access and deliver alert reminder.

- Implementing Defocus and Scene Change Detection in critical areas such as accounts offices, file rooms and storage rooms. UNV cameras can prevent data loss by deliberate tampering or other monitoring interruptions.

- Most smart detections are based on visual clues to detect abnormal situations, while in some situations, audio information (sudden audio change) is regarded as a better proof for detect a given event.

  Implementing Audio Detection in warehouse or other areas listed above enables UNV cameras to provide all-round protections for building asserts.

  UNV cameras support various audio detection types, including Sudden Rise, Sudden Fall, Sudden Change and Threshold.
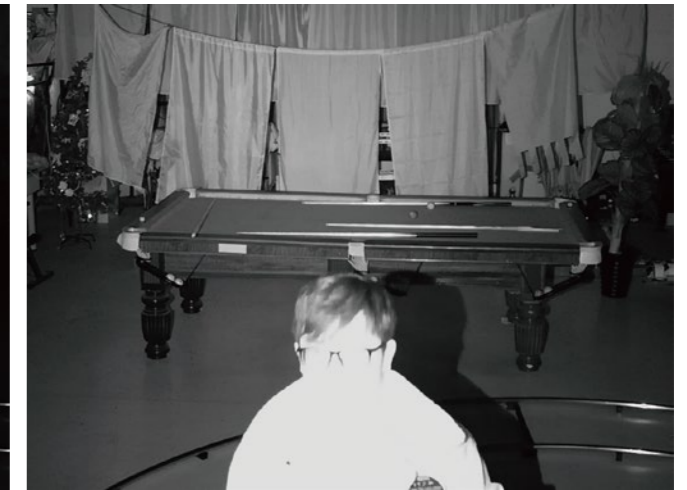
Intrusion **Scene Change** **Defocus** **Audio**

Smart IR

Smart IR is an intelligent IR adaptive control technology which can balance the luminance level between distant and nearby areas so that the cameras are able to provide consistent clear image under low Lux scenes.
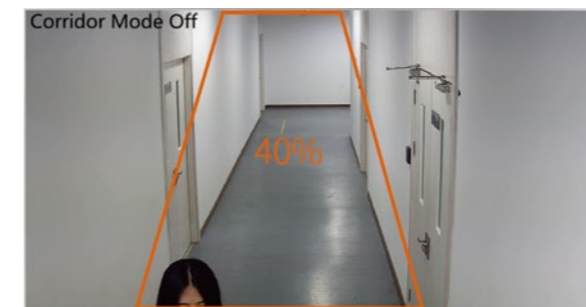
Smart IR ON **Smart IR OFF**

Certain models of UNV cameras with LED Infrared enable the IR illumination to reach up to 200m (656ft). UNV PTZ dome cameras with LED Infrared enable the IR illumination to reach up to 250m (820ft), and UNV Laser IR PTZ dome cameras can even reach up to 500m (1640ft).
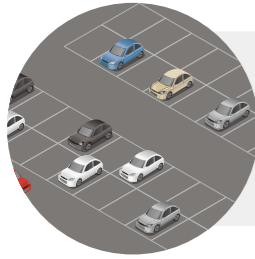
UNV cameras can satisfy different illumination requirements for almost any building scenarios application.

Corridor Mode

There is a great waste on conventional 16:9 image display format in terms of long and narrow areas. UNV Corridor Mode helps to effectively reduce invalid monitoring regions and shows more details in the important monitoring area. Both UNV NVRs and EZVMS support live view and playback display in corridor mode.
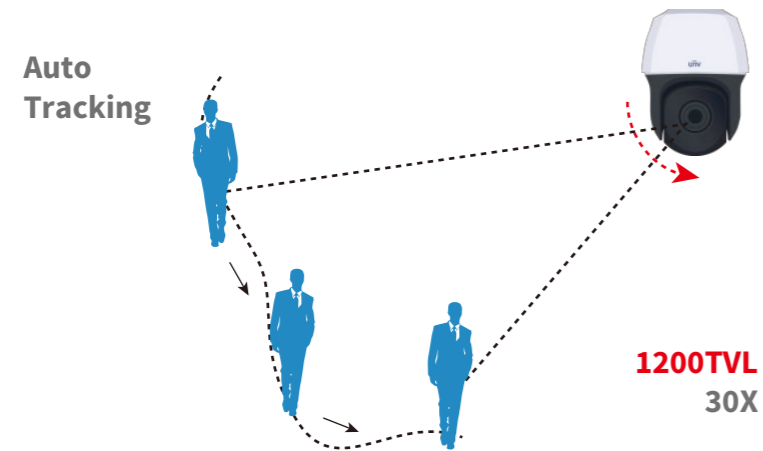
Corridor Mode Off Corridor Mode On 40% 80%

PARKING LOT

UNV PTZ dome cameras are able to configure preset positions and design an automatic guard patrol route. It effectively monitors large parking lots to provide full-time protection for vehicles and value property of visitors and staff. In addition, LPR cameras can manage entrance and exit of authorized vehicles by integrating with blacklist/whitelist filtering function.

Auto Tracking

Once a moving object enters a forbidden area, the path can be tracked and traced by UNV PTZ dome camera with the help of video context analysis. Meanwhile, alarms with detailed information also will be sent to the police office or building management control center.

Auto Tracking

1200TVL
30X

4K Camera

UNV 4K cameras can provide clear and abundant details in monitoring areas with excellent high resolution performance.

4K Resolution   **1080P Resolution**

High Ratio Optical Zoom

UNV outdoor PTZ dome cameras can reach up to 38x/44x optical zoom. It is ideal for large parking lots, large open warehouses, common community areas etc.

22x   **38x**   **44x**

PERIMETER PROTECTION

UNV outdoor cameras are resistant to all kinds of weather conditions and vandalisms with 4K, Super Starlight, Smart IR and various smart detection functions such as Intrusion Detection, Crossing Line Detection, Audio Detection and so on. All of these features can used to secure a building's perimeter area.

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Super Starlight

UNV Super Starlight camera series, embedded with F1.2 aperture lens and Sony STARVIS image sensors, provide colorful and detailed video images under ultra-low light conditions (0.0005Lux). It adapts to both outside and low light environment.
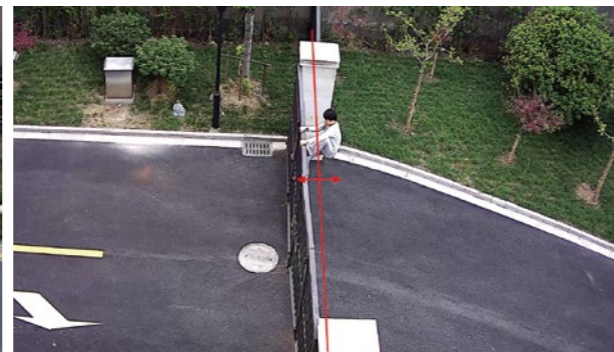

Super Starlight

Common Starlight

Crossing Line Detection

Intrusion Detection can be set in perimeter areas to prevent unauthorized entry.

Moreover, Crossing Line Detection can be set for single-direction passage at a perimeter. When UNV cameras detect a crossing line behavior, it will notify the management center immediately to handle the abnormal situation.

Intrusion Detection

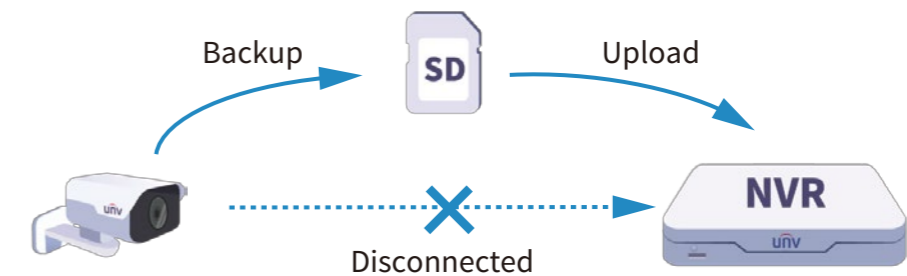**Crossing Line Detection**

MANAGEMENT CENTER

Management Center is the main place for security guards and building managers to check live view and playback through Video Wall, PC workstation and other display devices. Also it is the place to verify alarms and coordinate a response through various platforms such as EZVMS CS Client.

System Stability & Data Safety

UNV devices are designed with various high availability functions to ensure consistent monitoring and recording , as well as preventing data loss from unforeseen devices' errors and protecting customers' privacy.
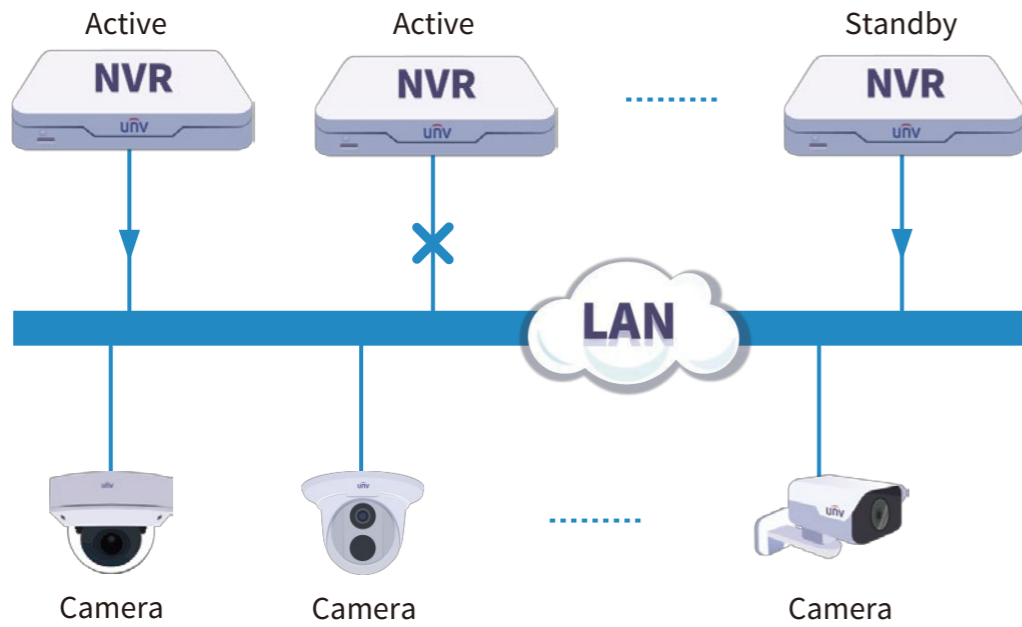
1. System Stability

- During the period of Auto Network Recovery (ANR). UNV cameras can automatically store video recordings into the camera's SD card. Once the network is restored, it will automatically send video recordings back to storage server. Building managers will not lose any important video recording, even network fails temporarily.
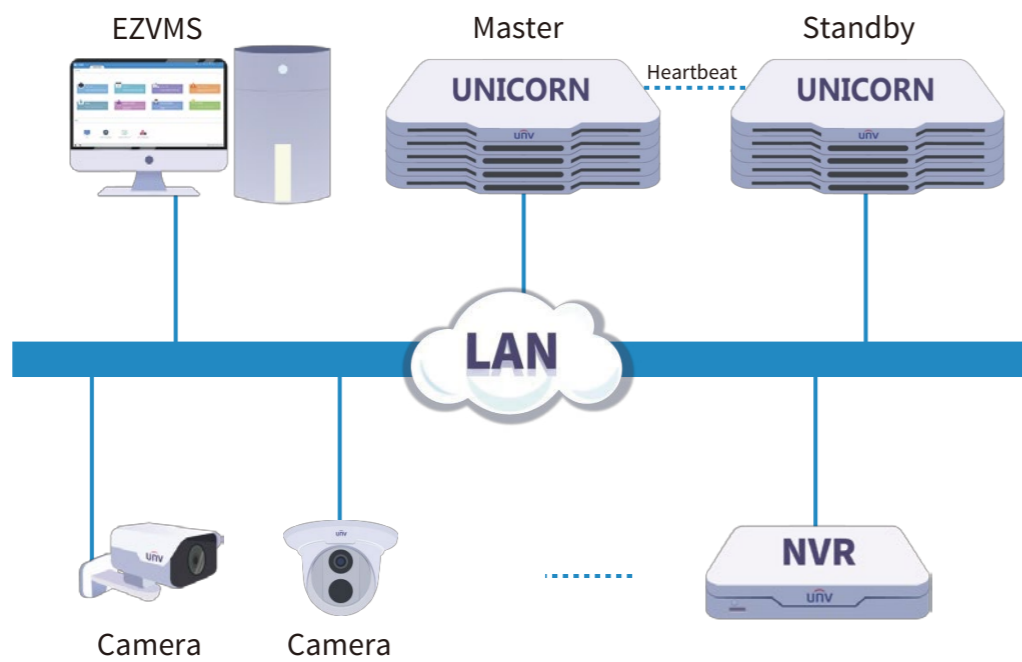

- Multiple RAID (Redundant Arrays of Independent Disks) Modes (RAID 0/1/5/6/10/50/60) are built into UNV NVRs and storage servers for better data reliability and higher data safety.

- Certain UNV NVRs and UNV Unicorn are deployed with Redundant Power Supply to ensure continuous services when power supply failover occurs.

Building Surveillance Solution

- UNV NVRs are deployed with N+1 hot backup capability. In the same networking system, if any active NVR is out of service, the Standby NVR will automatically take over.
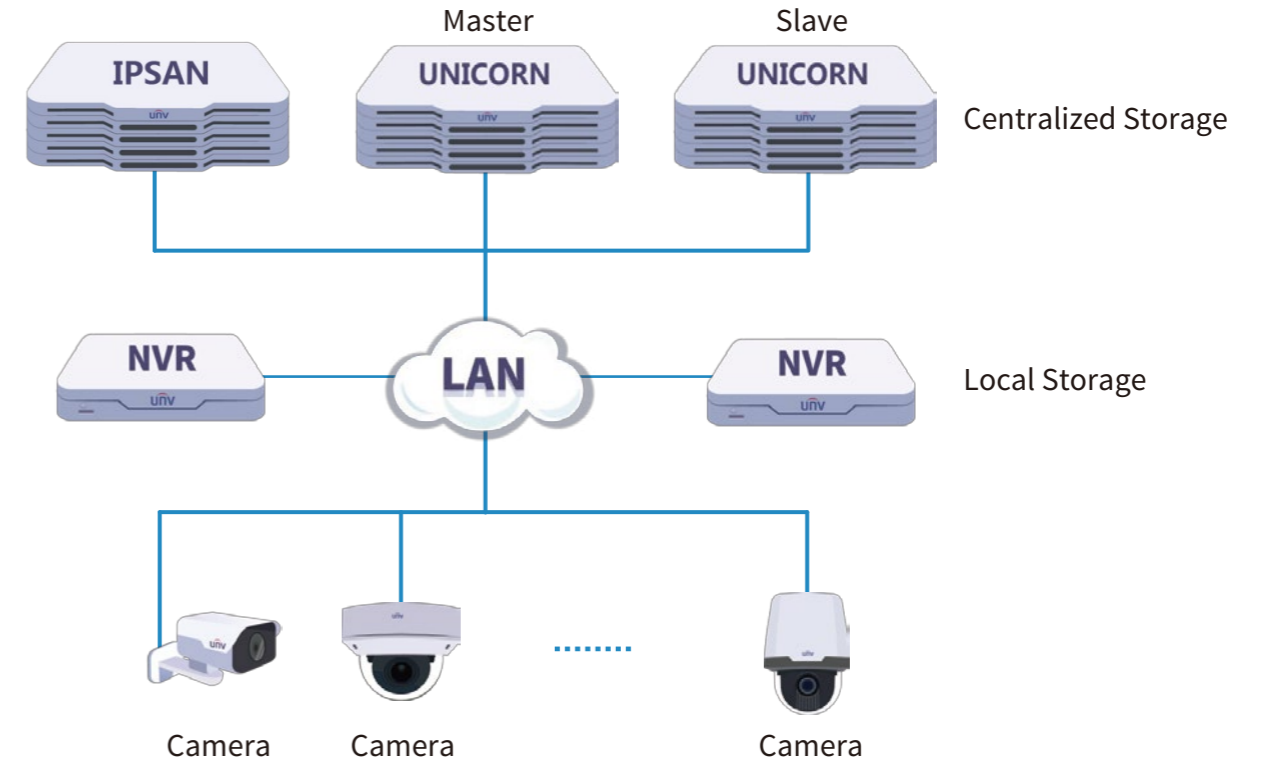

- UNV Unicorn can be deployed with a Hot Spare capability. If the Master Unicorn fails down, the Standby Unicorn will take over service immediately. All service and data will transfer back to Master Unicorn when it recovers.
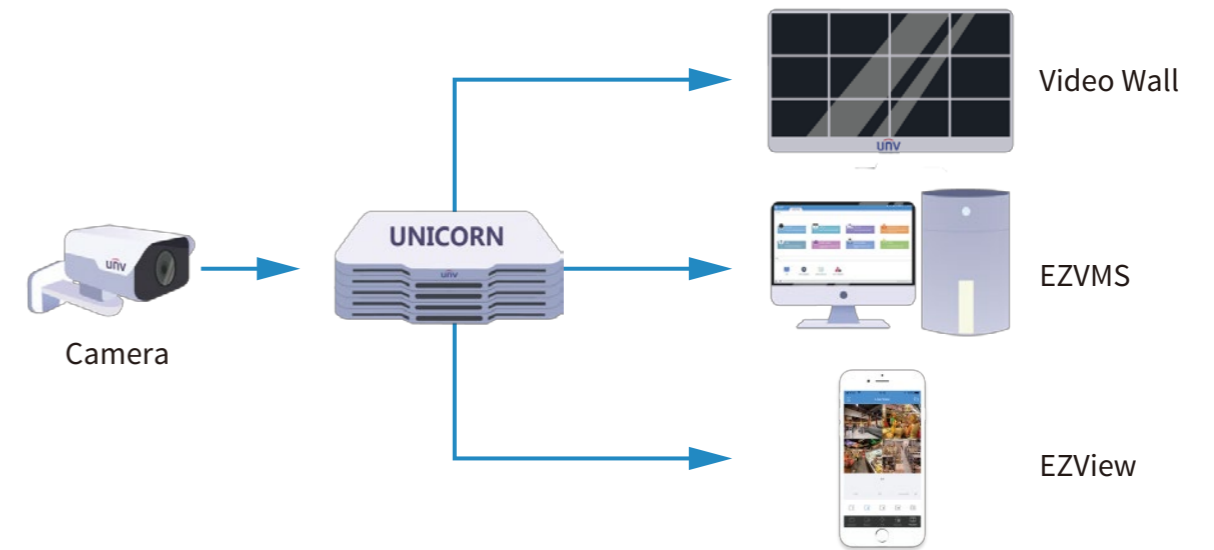

2. Data Safety

- To meet different storage preferences and needs, there are flexible storage mode options such as Local Storage and Centralized Storage. And storage mode options could be chose based on the different concern of priorities, such as reliability, cost effectiveness or better redundancy of important video recording backup.
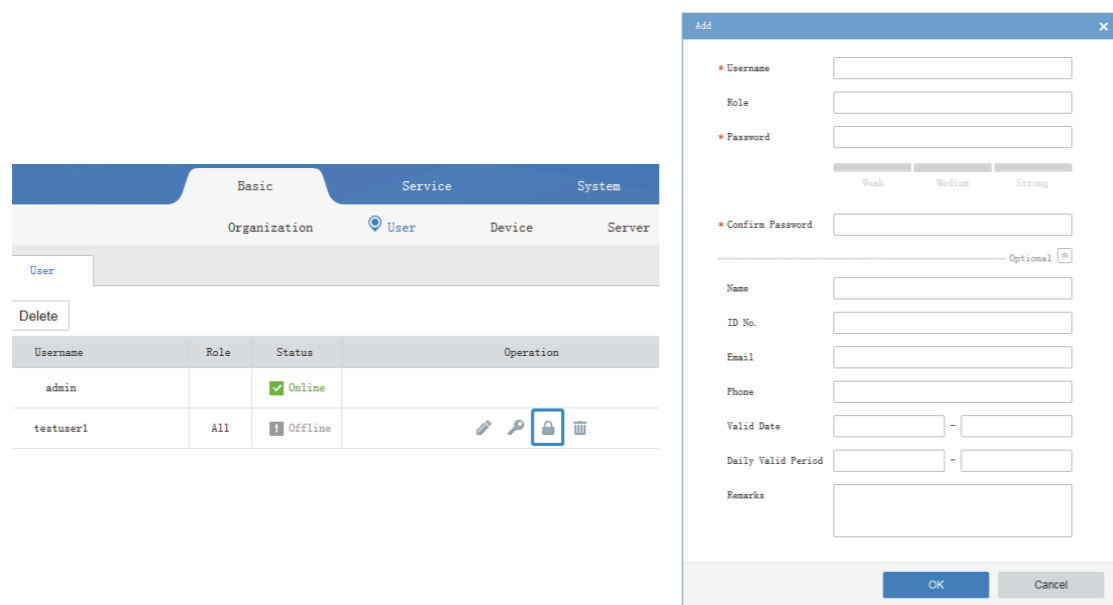

- UNV Unicorn is designed with high transfer capabilities which enable multiple users to check live view or playback of the same camera through only one video channel of bandwidth transmission.

- Admin users can divide into different authority levels through manager authorization. Furthermore, admin users also can log out lower-level users to save resources if needed. In addition, admin users could lock users or set valid date and daily valid time of single user through remote operation.

- Video recordings can be watermarked with custom content to prevent video recordings from unauthorized editing.
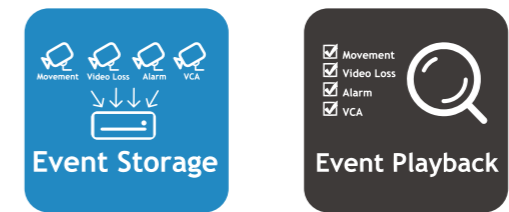

Smart Search & VCA Search

Specifying a target area and using smart search would only take a few seconds to find desired video recordings, which could save time and cost greatly.

VCA Search supports to search models based on Behavior, Face Detection and People Counting. All different search modes are designed to find desired video recordings easier and quicker.

Event Storage & Event Playback

Event Storage function can significantly optimize storage space usage by storing video recordings on the basis of event type such as Movement Detection, Video Loss, Alarm Input and VCA Search. It also supports corresponding playback search modes on the basis of above event types.
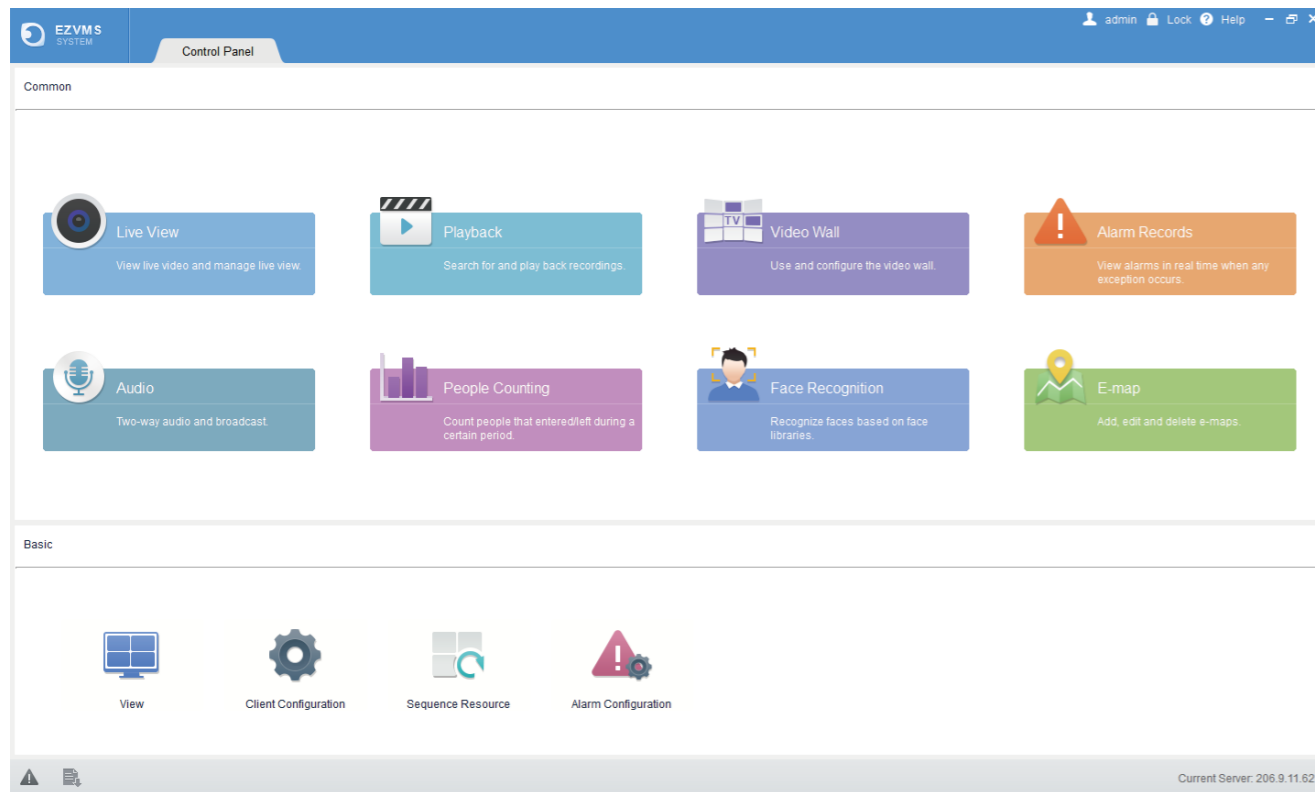

EZVMS Management Platform/EZVMS

UNV Unicorn is a smart integrated surveillance platform with strong video management, decoding, storing and transfer capabilities.

- UNV Unicorn can manage hundreds of NVRs, with thousands channels of IP Cameras.

- UNV Unicorn supports Master & Slave Modes which have double storage and data transfer abilities, and users can easily control the Slave Unicorn device through Master Unicorn device.

- UNV Unicorn can configure Video Wall function without additional decoders.
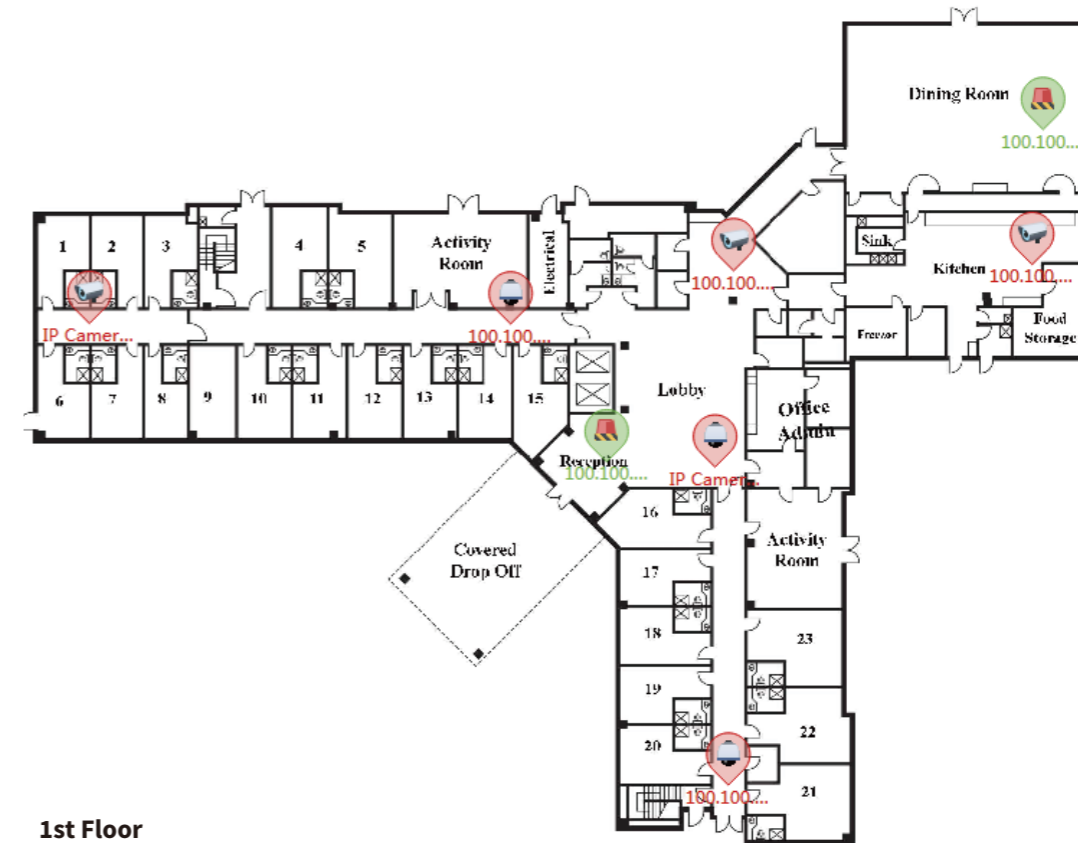
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EZVMS is a reliable and easy-to-use management platform designed for UNV Unicorn. Its flexible and feature-rich interface helps security guards and building managers verify alarms and coordinate a response more efficient and easier.

- EZVMS supports Video Tags to mark important video recordings so that they can be easily searched and properly categorized.

- EZVMS supports Overwrite Protection to protect important video recordings from accidental deletion or overwriting.

- EZVMS supports flashing alarms on E-maps and links live view on a video wall. It enables security guards to locate alarming area quicker, which significantly shortens their response time.

1st Floor

- Integrated with EZAgent, EZVMS is compatible with third-party access control.

  Currently the EZAgent supports mainstream manufactures which produce alarm products such as Honeywell, Bosch, Paradox, Hikvision etc., and supports access controller manufacturers such as Tyco, Peake, Das, Newabel etc.

Note : For more detailed information of third-party access control manufactures supported by EZAgent, please contact local dealer or Uniview technical support team.

This All-in-One Smart Management System includes sub-systems such as linked alarms, E-map, guard tour system, two-way audio and broadcast, device status monitoring, server statistics, query logs, vehicle management and third-party access control etc.
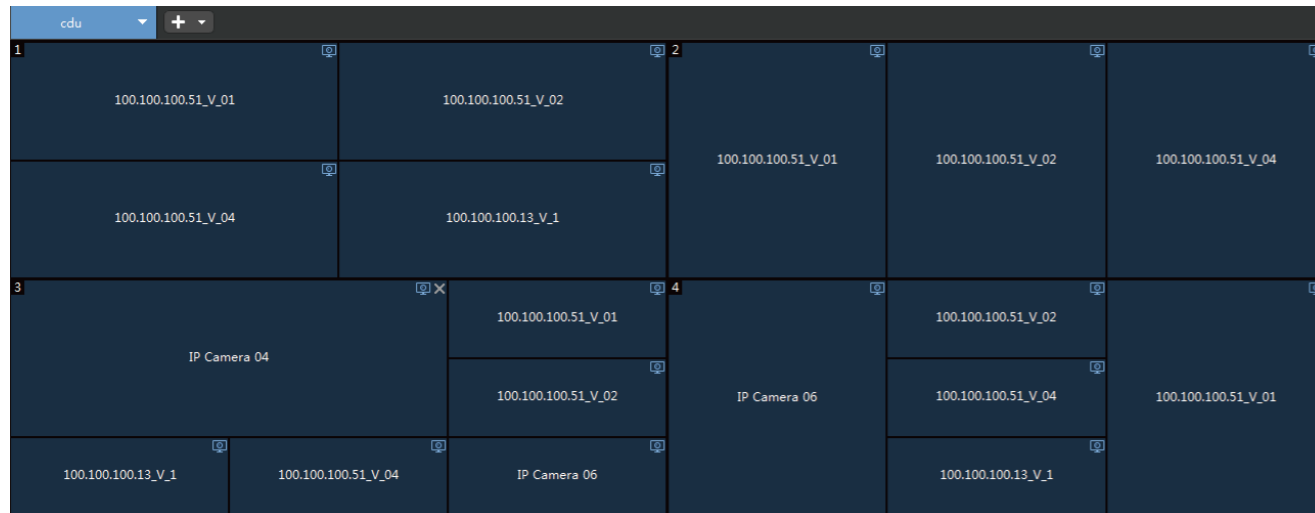
Video Walls & Decoders

We provide various display size options on monitors, video walls and corresponding decoders. All UNV devices are designed and manufactured at highest standards to satisfy 24/7 constant monitoring requirements.
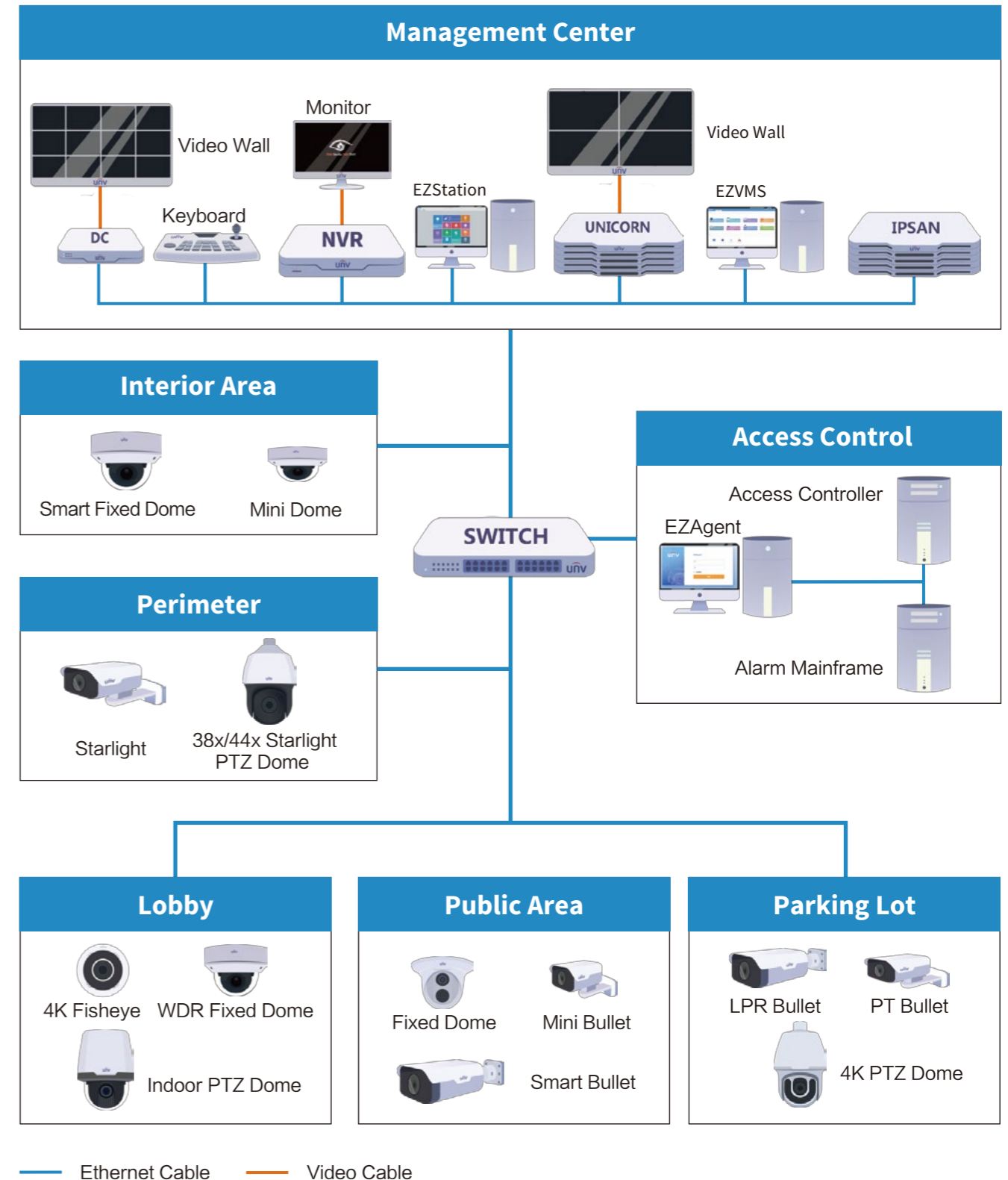

- UNV Decoders support to configure single screen windows with various display modes.

- UNV Decoders support DVI-D local input for displaying a PC screen on Video Wall.

- UNV Decoders are compatible with third-party device streaming via ONVIF protocol or private protocol (partly).

Management Center

Video Wall Monitor Video Wall
EZStation EZVMS
Keyboard
DC NVR UNICORN IPSAN

Interior Area

Smart Fixed Dome Mini Dome

Access Control

Access Controller
EZAgent

Alarm Mainframe

Perimeter

Starlight 38x/44x Starlight PTZ Dome

SWITCH

Lobby

4K Fisheye WDR Fixed Dome

Indoor PTZ Dome

Public Area

Fixed Dome Mini Bullet

Smart Bullet

Parking Lot

LPR Bullet PT Bullet

4K PTZ Dome

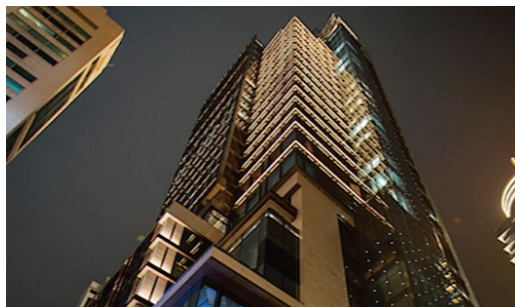—— Ethernet Cable   —— Video Cable

Building Surveillance Solution

The Memory and Tolerance Museum in Mexico

Uniview provided complete solutions to reduce the rate of crime through installing 4MP UNV dome camera in the entrance. With the WDR function and other smart functions such as face recognition, people counting and smart search, the safety level of museum was improved.

Sports Arena "Palacoccia" in Italy

Uniview offered user-friendly IK10 vandal proof IR bullet with motorized lens to monitor all areas inside and outside of the building and quickly manage potential dangerous situations.

California Tower in Hong Kong

Uniview adopted low light, smart IR, 120dB WDR and 3D digital noise reduction technology to easily provide high quality picture and avoid exposing important objects with details under the dark environment and high light contrast condition.

Hilton Hotels and Resorts in UAE

Uniview provides all-weather adopted video surveillance solutions such as corridor mode, WDR and anti-corrosion. In addition, Uniview uses RAID NVR to improve the level of data safety, and is capable of 90 days 7/24 high density mass data storage. Furthermore, up to 500 cameras connection could be managed by NVR.

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