



VN-VMS-PRO

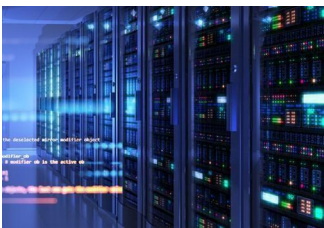
Visitor Management Platform

■ Introduction

Viruni Visitor Management Platform is designed for centralized security management. It enhances hardware performance and provides centralized video monitoring, access control, video intercom, alarm controller, POS, radar and AI features, such as face recognition, automatic number plate recognition, and video metadata. It can manage all cameras, all access control points. Front-end smart fixed and body-worn cameras with AI function alarms such as AI perimeter protection, face recognition and people counting functions can be alarmed on the platform to display and view the data.

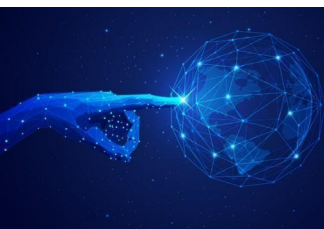
Whether you are a small business with a few cameras, or a global business spread across the globe with over 20,000 cameras, Viruni Visitor Management Platform is the right solution for you. Even if your needs change in the future, you can easily scale, upgrade or add functionalities to VN-VMS-PRO so that your needs are met. Build your security management system on a solid foundation with VN-VMS-PRO.

■ Features



Scalable Design, Easy to Grow

With distributed deployment, you can easily expand the supported channels to 20,000 and central storage capacity to 4 PB. The multi-site function allows you to incorporate multiple VSS platforms into one, and conveniently show their information on one PC client. You can access live and recorded videos, real-time and historical events, and more.



AI-Powered Applications, Proactive Security

VN-VMS-PRO integrates various AI capabilities that devices have, such as face recognition, automatic number plate recognition, and video metadata. You will be notified immediately when the target you are interested in appears, allowing you or security personnel to take necessary security measures.



Highly Available Technology, More Stable

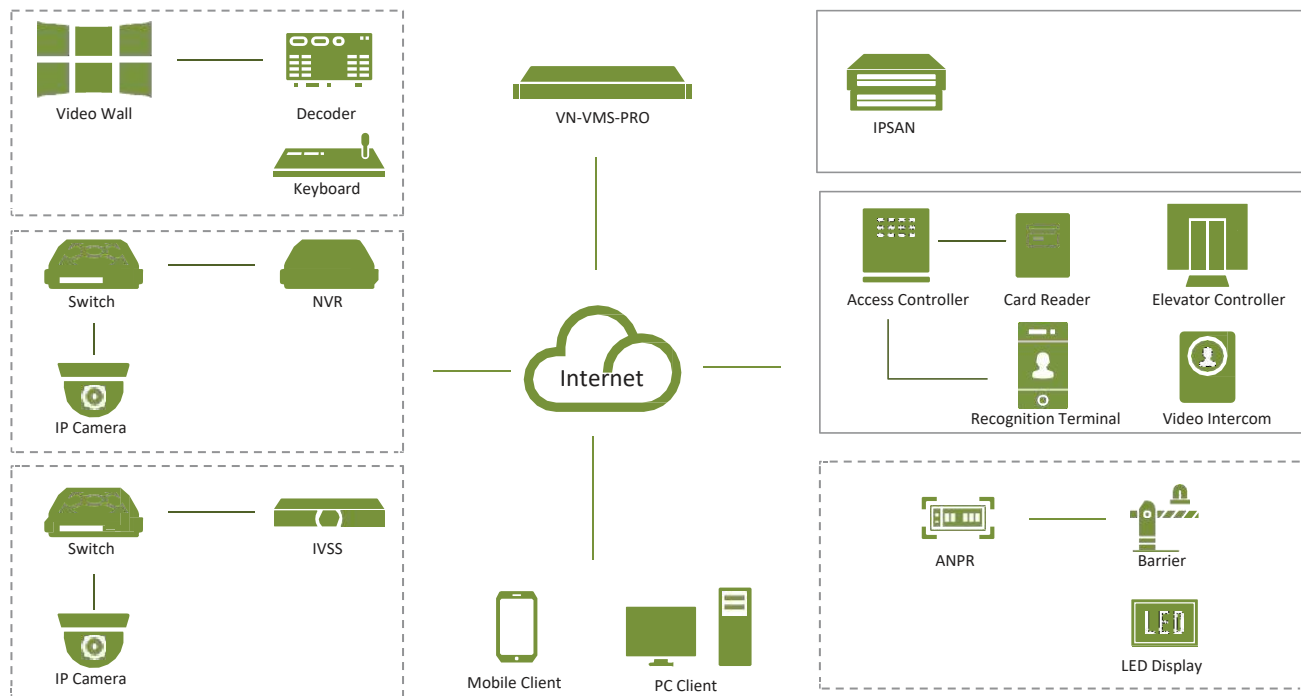
With hot standby and N+M redundancy, VN-VMS-PRO ensures that your business will not be interrupted by failed servers.



Customized Services, Enhanced Competitiveness

We offer services for you to build VN-VMS-PRO into your own platform, allowing it to fully suit your needs and give you a competitive edge in the market.

■ System Architecture



■ Main Functions

Monitoring Center

◆ Live View

With its easy to use live view, you can both customize and control how you view videos in real time. The layout can also be configured to display videos in different sizes, enabling you to give priority to important areas by placing them in larger windows. You can also remotely control certain devices to perform various actions such as talking to people through the camera, and unlocking the barrier of a turnstile to grant access to people. If an emergency occurs, manual recording is just a click away, so that you can quickly save that particular part of the video for evidence.

◆ Playback

The playback function allows you to play recorded videos stored on the server and devices in multiple windows. To help you efficiently wade through tons of videos, you can play them 64X faster than the normal speed, skipping parts that you are not interested in, or you can slow them down to 1/64X, to focus on important sections. To control the data in the videos, you can add tags to mark relevant content, and you can even lock them to prevent them from being overwritten when the disk space is full. The filter function can also be very helpful when you only need to deal with a specific type of video, or a type of target that appeared in one or more areas.

◆ Video Wall

Video wall is used to display videos on a large screen that consists of many smaller screens. Highly customizable, you can not only connected to video wall to display videos, map and dashboard, and configure the layout of the video wall, but you can also display recorded videos and real-time videos to zero in on important details in the video. With the task function, you can schedule videos from different channels to be displayed on the video wall at specified times or in a loop.

Map

The map is a very useful function that allows you to keep track of devices and events through their location information. With it, you can mark a device and immediately know the location of an event when the device triggers an alarm and flashes red on the map. You can also add submaps to different areas. For example, a plan view of a public square can be added to a map to reveal the exact location of people who are inside the public square.

Group Talk

The real-time location of MPT devices are shown on the map, making it easy for dispatchers to effectively send officers and resources to address issues such as a burglar or duress alarm going off in a building. Dispatchers can start a group talk and engage in a real-time conversation with the officers who were assigned the task to efficiently guide them through the process.

Viruni Smart Search

Powered by AI technology, you can easily search for targets, look for records on them and even generate tracks on their movement to observe their whereabouts through setting simple search conditions. To gain an overview on the target, you can organize information on them into a case and generate a report.

Event Management

You can monitor and process over 200 types of alarms right from the event center, while it continuously generates statistics. To give you a clear picture of what is happening in your area, the alarm center also displays a variety of useful information such as the number of alarms that were processed, and the type of alarms that are triggered most frequently. Highly flexible, you also have a selection of predefined alarm types available to you, and the option to not only create your own alarm, but to also manually trigger it to take snapshots and send emails for important events.

Maintenance Center

By just visiting one page, you can stay up to date with information on alerts, devices, servers and more to instantly recognize issues such as offline devices and abnormal servers. In the maintenance center, switches can also be conveniently configured and details, such as their network topology, can also be viewed. Scheduled reports are also sent based on the information collected to give you a full picture of how your system is running. Updating is also a breeze, as you can easily update multiple devices in batches when new versions are available.

Access Management

Access Control

Doors and lifts in different zones can all be effectively controlled for added security. A zone-based management model is used, which maintains maps for each zone to make it easy for you to locate access points. Through the use of access rules, you can quickly grant and deny access to people with great efficiency, strengthening the security of each zone. From the access panel, you can also view and control the channels of doors and lifts at the same time across different zones to manage access.

◆ Attendance

The attendance function delivers complete attendance management by supporting attendance point and rule configuration. Also, you can quickly search for attendance records, view daily details, and generate customizable statistical reports. Attendance rectification and scheduled exports ensure data integrity, providing faster and more reliable attendance tracking and reporting that scales with your organization.

◆ Video Intercom

All video intercom devices can be managed directly through one easy-to-use interface that offers two-way communication and remote access control. Through the interface, you can secure access to your premises, and receive calls and emergency reports directly from people on-site. Building management is also very convenient, as you can send group notices to all the indoor monitors, keeping people informed of important events, such as scheduled power outages.

◆ Visitor

VN-VMS-PRO offers a complete process to manage visitors, including appointment, registration, access permission authorization, and ending visit with all permissions canceled. A complete, detailed record of all visits is available for your review at any time.

Intelligent Analysis

To help build your profits and strengthen your services, the platform provides invaluable information on people on your premises through performing a variety of intelligent analysis and generating heat maps. Through it, you can know the number of people in an area at any given time, where they frequent the most, and precisely when the highest peaks in numbers occurs.

Parking Lot Management

From just one platform, you can remotely manage all the devices in your parking lots, such as parking space detectors and ANPR devices, to guide vehicles in an orderly fashion. The visualization function makes it easier for you to drag and drop devices on the visual map of your parking lots. The platform also offers a vehicle search system for vehicle owners to use when they are leaving, to help them quickly locate their transport. Insightful information is also provided in the form of statistics on an easy-to-use dashboard, keeping you up to date on key activities taking place in your parking lots to help you effectively manage them.

Intelligent Inspection

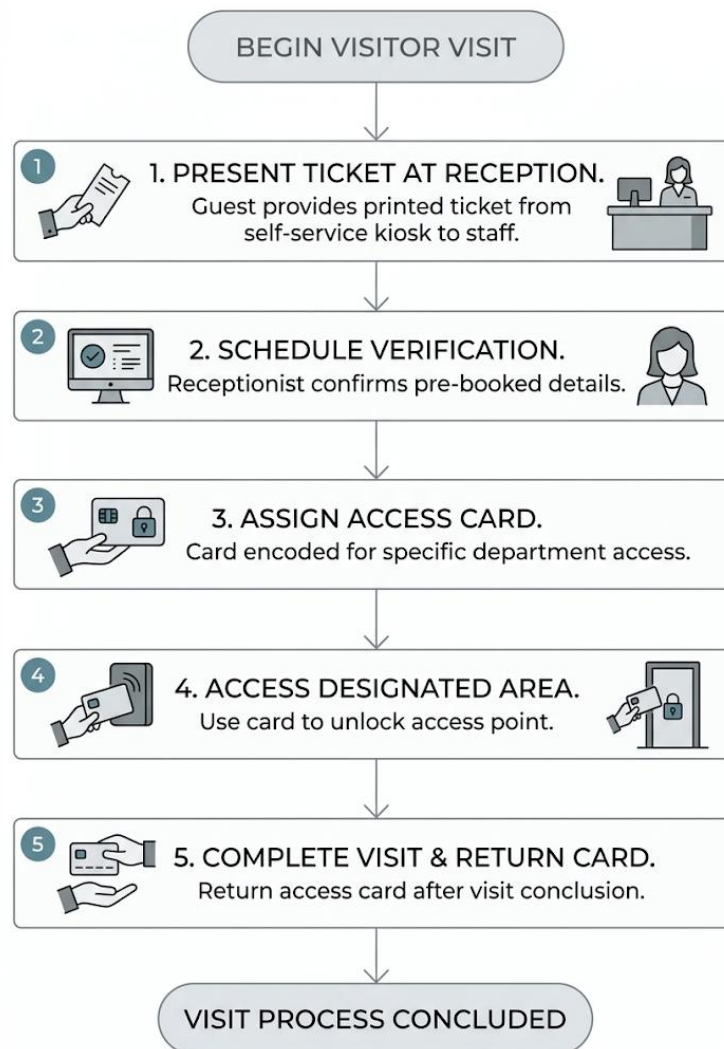
Both your properties and equipment are effectively monitored through our user friendly platform. The settings can even be customized to meet your particular needs for item inspection. Inspection plans can also be scheduled to capture images and monitor temperatures with HD cameras and temperature imaging technology, to help you quickly identify equipment failures and safety hazards when detected. This type of intelligent inspection greatly improves upon manual methods, increasing the accuracy and efficiency of inspection, while reducing labor cost.

Synthesis

VN-VMS-PRO is friendly with other systems in your infrastructure. By developing bridges, linkage actions can be flexibly configured on VN-VMS-PRO based on the events that are triggered on other platforms. Access control records can also be synchronized with the databases of other platforms. For added convenience, the devices, people, and vehicle information on third-party platforms can be seamlessly synchronized with VN-VMS-PRO to aid in opening and closing doors, and performing other functions.

Visitor Management Process Flow

The access control and visitor management system offers centralized administration of controllers, turnstiles, lift access, and terminals with live status monitoring and event logging. It enables flexible credential management—supporting cards, QR codes, biometrics, and PINs with multi-factor verification—alongside zone-based rules, anti-passback, and floor-level lift permissions. Receptionists and administrators can perform remote door operations and distribute policy updates seamlessly across all connected devices. For visitors, the platform streamlines web pre-registration, appointment booking, OCR document capture, and reception check-ins to issue temporary, area-restricted credentials with automated status notifications.



Access and Visitor Functions

Unified Access Management	
Device Supervision	Central management of access controllers, turnstiles, lift controllers and visitor terminals; remote configuration, live door status, opening or closing times, events and access logs.
Personnel and Credentials	Manage profiles, cards, QR codes, face, fingerprint and PIN credentials; configure primary or alternative methods, multi-factor and multi-user verification, and external identity validation.
Access Policies	Batch, group, zone and scheduled permissions, temporary access, anti-passback and interlock rules; lift authorization enables permitted floor selections after authentication.
Remote Control	Authorized remote door operation and personnel blocking or unblocking, with policy updates distributed to connected access devices.
Lists, Approval and Audit	
Personnel Lists	Centralized and remote management and configuration of blacklists, whitelists, watchlists and configurable personnel lists across all access points including access and elevator controllers and turnstiles; deny access or raise alerts according to list policy.
Approval Management	Configurable multi-level approval and delegated authority for enrollment, credentials and personnel-list changes, with supporting documents attached to change requests.
Change Accountability	Immutable audit history of changes, approvals, operators and timestamps; logs also record authentication attempts, system errors, access events and alerts.
Visitor and Credential Lifecycle	
Appointment and Registration	Web pre-registration and appointment booking, service categories, registration guidance and reception verification; kiosk integration and OCR-assisted identity-document capture.
Visitor Passes	Unique QR codes and reference numbers, barcode or card credentials linked to authorized areas, floors and validity periods; automatic appointment and status notifications.
Credential Issuance	Reception-based identity, appointment, eligibility and personnel-list checks before issuing visitor cards and temporary access permissions.
Visit Tracking	Real-time visitor status and entry or exit events, with searchable movement histories, statistics and reports.
Check-out and Revocation	Card return and visit closure, automatic expiry of temporary permissions and revocation of visitor credentials after the visit.
System Integration and Security	
Coordinated Security	Visual or audible access-denial feedback; device security alarms, video linkage, maps and operator notifications support centralized incident response.
Emergency Linkage	Monitor authenticated re-entry while preserving manual emergency egress; link fire alarms and manual inputs with door or barrier release; building and seismic interfaces.
Credential Issuance	Central presentation of connected metal-detector and X-ray inspection results, associated images and statistics, with configurable risk-based alerts.
Security Screening	Present face-recognition, object-analysis and other intelligent events supplied by connected cameras and recorders, with configurable alerts and search.
Analytics Integration	Card return and visit closure, automatic expiry of temporary permissions and revocation of visitor credentials after the visit.
Application Synchronization	Secure, real-time exchange of identity data, appointments, permissions and events across access, visitor and queue applications, including queue-number assignment and service routing.
Booking and Attendance	Room reservations, recurring bookings, approval, changes, cancellation and notifications linked to access validity; attendance records shared with payroll and business applications.
Authentication and Roles	Authenticated user access, role-based permissions and delegated administration for platform functions, devices and data.
Data Protection	Secure application and database connections, controlled interfaces and network segmentation; protections against brute-force and man-in-the-middle attacks.
Service Continuity	Main and standby server deployment, hot standby and N+M redundancy support continuous service and recovery from server failure.
Records and Retention	Central storage, search and export of access, visitor, alarm and analysis records; configurable retention supports at least six months of history.

System Requirements

Server		
Item	Recommended	Minimum
CPU	2 × Intel® Xeon® Silver 4509Y 2.6 GHz 8 Core Processor	Intel® Xeon® 6325P 3.5 GHz 4 Core Processor
Memory	32 GB	16 GB
System Disk	7200 RPM Enterprise Class HDD	
Storage Disk	7200 RPM Enterprise Class HDD	
VSS Installation Directory Space	At least 500 GB (independent disk installation)	
Ethernet Port	6 Ports@1000 Mbps	2 Ports@1000 Mbps
Operating System	Microsoft® Windows 10 20H2 Pro (64-bit) Microsoft® Windows 11 21H2 Pro (64-bit) Microsoft® Windows 11 24H2 Pro (64-bit) Microsoft® Windows Server 2019 Standard (64-bit) Microsoft® Windows Server 2022 Standard (64-bit) Microsoft® Windows Server 2025 Standard (64-bit) VMware® ESXi™ 7.x Microsoft® Hyper-V with Windows Server 2019	

- We recommend that you install an operating system on a physical server and directly deploy the VSS platform on the server to achieve optimal and reliable performance. If you have to deploy the VSS platform on a virtual server, please see the deployment manual for more instructions.
- The platform supports using a maximum of 2 network cards at the same time. You can either use 1 network card for accessing devices on a local area network, and 1 network card for services on the Internet; or use both network cards for accessing devices on a local area network, and then map one of them to the Internet.

Client		
Item	Recommended	Minimum
CPU	Intel® Core i7-11700 @2.50 GHz	Intel® Core i5-9500 @3.00 GHz
Memory	16 GB	
Storage Disk	200 GB free space for VSS Client	100 GB free space for VSS Client
Graphics Card	NVIDIA® GeForce® RTX 3060	Intel® UHD Graphics 630
Ethernet Port	1000 Mbps	
Operating System	Microsoft® Windows 10 20H2 Pro (64-bit) Microsoft® Windows 11 21H2 Pro (64-bit) Microsoft® Windows 11 24H2 Pro (64-bit) Microsoft® Windows Server 2019 Standard (64-bit) Microsoft® Windows Server 2022 Standard (64-bit) Microsoft® Windows Server 2025 Standard (64-bit) VMware® ESXi™ 7.x Microsoft® Hyper-V with Windows Server 2019	
Languages	English (United States), Italian, Russian, French, German, Polish, Hungarian, Finnish, Danish, Czech, Slovak, Bulgarian, Spanish (Europe), Korean, Arabic, Ukrainian, Turkish, Hebrew, Thai, Vietnamese, Japanese, Brazilian Portuguese, Macedonian, Chinese (Traditional), Chinese (Simplified), Spanish (Latin America), Romanian, Malay, Indonesian	

■ Server Specification

The following specifications are obtained in servers with recommended system requirements.

Parameter		Single Server	Multiple Servers
Sub Servers per System	Sub Servers	-	10 servers
Total Devices	Devices ^①	2,000 devices	20,000 devices
	Auto-registered Devices	1,000 devices	10,000 devices
Devices and Channels	Video Devices and Channels ^②	1,000 devices; 2,000 channels	10,000 devices; 20,000 channels
	P2P Devices	32 devices	
	Devices Added by ONVIF Protocol	1,000 devices; 2,000 channels	10,000 devices; 20,000 channels
	Devices Added by Hikvision Protocol	500 devices; 2,000 channels	5,000 devices; 20,000 channels
	Devices Accessed via RTSP	1,000 devices; 2,000 channels	10,000 devices; 20,000 channels
	MPT Devices	100 devices; 100 channels	300 devices; 300 channels
	EEC Devices	32 devices	
	MDVR/MNVR	100 devices; 800 channels	1,000 devices; 8,000 channels
	Face Recognition Channels	500 channels	5,000 channels
	ANPR Channels	500 channels (128 channels for entrance)	5,000 channels (128 channels for entrance)
	Video Metadata Channels	500 channels	5,000 channels
	Speed Measurement Devices	500 devices; 1,000 channels	5,000 devices; 10,000 channels
Intelligent Devices	IVS Devices	500 devices; 1,000 channels	5,000 devices; 10,000 channels
Intelligent Analysis	People Counting Channels	100 channels	300 channels
	Heat Map Channels	100 channels	300 channels
Access Control Devices	Access Control Devices and Lift Control Devices	500 devices; 1,000 channels	1,500 devices; 3,000 channels
	Total Access Control Devices	500 devices; 1,000 doors	1,500 devices; 3,000 doors
	Access Control Devices on the VSS Platform	500 devices; 1,000 doors	1,500 devices; 3,000 doors
	Access Control Devices from Third-party Systems	500 devices; 1,000 doors	1,500 devices; 3,000 doors
	Lift Control Devices	500 devices; 1,000 channels	1,500 devices; 3,000 channels
	Video Intercom Devices	2,000 devices	
	Visitor Terminals	32 devices	
Alarm Devices	Alarm Controllers	1,000 devices; 10,000 zones	5,000 devices; 10,000 zones
	Emergency Phone Towers	1,000 devices; 2,000 channels	10,000 devices; 20,000 channels
	EAS Alarm Channels	1,000 channels	10,000 channels
Firefighting Devices	Fire Alarm Control Panels	1,000 devices; 10,000 fire alarm sub nodes	5,000 devices; 10,000 fire alarm sub nodes
Security Screening Devices	Security Screening Machines	20 devices	200 devices
	Walk-through Metal Detectors	60 devices	600 devices

Parking Lot Devices	Parking Space Detectors	500 devices; 1,500 parking spaces	2,000 devices; 6,000 parking spaces
	Parking Space Available Displays	150 devices	600 devices
POS	POS Channels	100 channels	300 channels
Radar	Radar Devices	20 devices	
IP Speaker	IP Speakers	1,000 devices	10,000 devices
Network Device	Switches	200 devices	500 devices
Multi-site	Sites	100 sites	
	Total Devices	10,000 devices; 20,000 channels	
Media Transmission Server	Total Incoming Bandwidth	600 Mbps	6,000 Mbps
	Incoming Video Bandwidth	600 Mbps	6,000 Mbps
	Incoming Picture Bandwidth	200 Mbps	2,000 Mbps
	Total Outgoing Bandwidth	600 Mbps	6,000 Mbps
	Outgoing Video Bandwidth	600 Mbps	6,000 Mbps
	Outgoing Picture Bandwidth	200 Mbps	2,000 Mbps
	Total Storage Bandwidth	600 Mbps	6,000 Mbps
	Video Storage Bandwidth	600 Mbps	6,000 Mbps
	Picture Storage Bandwidth	200 Mbps	2,000 Mbps
	Prerecording Bandwidth for Alarm Recordings	400 Mbps	4,000 Mbps
Central Storage	Maximum Storage Capacity	Local Server and IP SAN: 400 TB Cloud Storage: 600 TB	4 PB
Event ^③	Storage of Events or Alarms without Pictures ^④	Average: 70 per second Peak: 300 per second (lasts 1 hour)	Average: 70 per second Peak: 600 per second (lasts 1 hour)
	Access Control Events	Average: 70 per second Peak: 300 per second (lasts 1 hour)	Average: 70 per second Peak: 600 per second (lasts 1 hour)
	Combined Events	Average: 20 per second Peak: 100 per second (lasts 1 hour)	
Third-party Integration	Concurrent Execution of Access Control Commands of Third-party System	16 per second	
	Concurrently Pushed Events	50 per second	

1. The maximum number of devices that the platform supports, including IPC, NVR, and ITC.
2. When adding video channels and video devices, such as IPC, NVR and ITC, to the platform, the maximum number of devices and channels that the platform supports.
3. These values represent the maximum number of events that can be triggered at the same time. The numbers are measured based on the peak concurrency tests that were carried out 3 times a day. Each test lasted 20 minutes, with 30% of the peak concurrency being applied to the remaining day.
4. For events with snapshots, you must take into account the ability for disks and servers to concurrently write images at the same time.

■ Performance Specification

The parameters below perform consistently whether running on a single server or across multiple servers.

Organization, Role and User	
Organizations	10 levels; 999 organizations in total
Roles (User Permission)	500
Users	2,500
Online Users (PC, Mobile App, and Response App)	200
Roles per User	32
User Groups	100
Users per User Group	500
VSS User Accounts	500 online users and 5,000 total users

Recording Plan	
General Recording Plans	3,000
Motion Detection Recording Plans	3,000
Video Retrieval Plans	3,000
File Retrieval Plans	3,000

Live View and Playback	
Total Public View Folders	999
Total Public Views	1,000
Total Private View Folders	999 per user
Total Private Views	1,000 per user
Favorites Level	10
Total Favorites	999 per user
Device Channels for Total Favorites	2,000 per user
Tags	10,000 per user
Locked Videos	10,000 per user
Linked Tracking Channels per Channel	8
Simultaneous Video Downloads per Client	5
Tours per User	20

Video Wall	
Video Walls	32
Public Video Wall Tasks	128
Private Video Wall Tasks per User	128

Public Video Wall Tour Tasks	128
Private Video Wall Tour Tasks per User	128
Touring Videos per Video Wall Window	512

Event

Event Sources for Event Rules	3,000 event sources
Combined Events Rules	100
Combined Events	1,000
Generic Event Rules	500

Smart Search

Channels Searched at a Time	200
Video Analysis Tasks (Local Tasks + Recording Tasks)	3,000
Scheduling Analysis Tasks	200

Map

Hierarchies	8
Size of Offline GIS Map Package	1 GB
Maximum Size of Raster Map	50 MB
Raster Map Resolution	8,100 × 8,100
Raster Maps	256
Resources on GIS Map	Up to 300 (after merging) Up to 20,000 (before merging)
Resources per Raster Map	Up to 300 (after merging) Up to 1,000 (before merging)
Static Visual Range	1,000

Group Talk

Groups	200
Users per Group	200
Concurrent Calls	200
Users Online at the Same Time	200

Person and Vehicle Management

Person and Vehicle Groups	999
Group Levels	10
Total Persons	300,000

Persons on the VSS Platform	300,000
Persons from Third-party Systems	30,000
Person Groups that a Person can Belong to	20
Cards	600,000
Faces	300,000
Fingerprints	600,000
Palm Veins	600,000
Vehicles	50,000

Arming Lists^①

Total Faces	300,000
Total Face Arming Groups	50
Face Comparison Databases (General Arming Database)	50
Face Comparison Databases (Mobile Arming Database)	50
Faces per General Face Comparison Database	50,000
Faces per Mobile Face Comparison Database	10,000
People in Total Face Comparison Groups (Mobile and General Arming Databases)	300,000
Total Vehicle Arming Groups (Mobile and General Arming Databases)	50
Total Vehicle Arming Groups (General Arming Database)	50
Total Vehicle Arming Groups (Mobile Arming Database)	50
Vehicles per General Vehicle Arming Group	50,000
Vehicles per Mobile Vehicle Arming Group	10,000
Vehicles in Total Vehicle Arming Groups	50,000
Total Text-Defined Alarms	10,000

^① A face can belong to multiple face databases. All the devices together cannot contain more than 10 million faces when the number of faces in the arming lists are multiplied by the number of devices. For example, if a face arming list with 200,000 faces is sent to 40 devices, you can only send another face arming list with 100,000 faces to 20 devices. Or, you can send a list with 50,000 faces to 20 devices and another list with 100,000 faces to 10 devices.

Access Control

Zones	999
Zone Levels	10
Access Rules (Doors and Lifts)	500
Door Access Rules	500
Lift Access Rules	300
Persons for Access Rules (Doors and Lifts)	100,000
Persons for Door Access Rules	100,000 (1 password, 2 face images, 3 fingerprints, 2 palm veins, 1 Bluetooth card, and 5 cards for each person)
Persons for Lift Access Rules	100,000
Persons per Rule	1,000
Person Groups per Rule	100

Global Anti-passback Rules	16
Anti-passback Groups per Global Anti-passback Rule	2–4
Card Readers per Anti-passback Group for Global Anti-passback Rule (by Route)	64
Card Readers per Anti-passback Group for Global Anti-passback Rule (by Area)	64
Global Interlock Rules	16
Door Access Points per Group for the Rule of Global Interlock within Groups	2–4
Interlock Groups for the Rule of Global Interlock between Groups	2
Doors per Interlock Group for the Rule of Global Interlock between Groups	1–4
Total Public Passwords	1,500
Public Passwords per Device	500
Scheduled Verification Plans	64

Video Intercom

Call Groups (Custom)	100
Rooms (Custom) per Call groups	5,000
Rooms (Manually Added)	5,000
Persons per Room	20
User Accounts per Room	20

Visitor

Appointments in Progress	50,000
Visitor Permission Groups	50

Attendance

Total Attendance Points	1,000
Device Attendance Points	1,000
App Attendance Points	200
Break Periods	100
Attendance Periods	200
Attendance Shifts	200
Holiday Plans	500
Attendance Calendars	50
Overtime Rules	50
Regular Schedules	500
Temporary Schedules	5,000,000
Scheduled Report Sending Rules	32

Intelligent Analysis

People Counting Groups	30
People Counting Rules per Group	20
Channels for Extracting People Counting Data at a Time	100
Metadata Statistics Channels Searched at a Time	200
Crowd Distribution Statistics Groups	30
Rules per Crowd Distribution Statistics Group	20
Channels for Extracting Crowd Distribution Data at a Time	100
Vehicle Density Statistics Groups	30
Rules per Vehicle Density Distribution Statistics Group	20
Channels for Extracting Vehicle Density Data at a Time	100
Hydrological Monitoring Points	100

Parking Lot

Parking Lot Organization Level	10
Total Parking Lot Organizations	999
Vehicles	50,000
Vehicle Groups	512
Vehicle Groups per Parking Lot	50
Main Parking Lots	16
Sub Parking Lots per Main Parking Lot	16
Total Entrance/Exit Points	128
Total Entrances and Exits	128
Entrances	128
Exits	128
Parking Space Categories (Unclassified Excluded)	5
Parking Spaces per Category (Unclassified Excluded)	1,000
Total Reserved Parking Spaces	10,000
Total Reserved Parking Space Groups	3,000
Reserved Parking Space Groups per Parking Lot	3,000
Parking Spaces per Reserved Parking Space Group	1,000
License Plates per Reserved Parking Space Group	1,000
Parking Space Detectors per Parking Lot	500
Parking Spaces per Parking Lot	1,500
Parking Space Available Displays per Parking Lot	30
Rules Displayed per Parking Space Available Display	6
Total Layers	128

Layers per Parking Lot	16
Image Size per Layer	15 MB
Resolution per layer	8,100 x 8,100
Resources per Layer (parking spaces not included)	600
Parking Spaces per Layer	1,000
Vehicle Search Rules	32
Vehicle Search Point Links per Vehicle Search Rule	32
Parking Overtime Rules	128
Time Periods per Day for Each Overtime Parking Rule	6
Charging Rules	500
Rules for Sending Scheduled Reports	32

Mobile Surveillance

Vehicle Groups	999
Vehicle Group Organization Levels	10
Vehicles	5,000
Geofences	100
Coordinate Points per Geofence	128
Linked Vehicles per Geofence	5,000
Vehicles Monitored and Displayed per Client	1,000
Favorite Vehicles per User	200

Maintenance Center

Alert Rules	3,000
SNMP Protocol Manufacturers	5

AR

Tag Templates	50
Tags per AR Channel	50
Live Video Channels Bound to a Single Tag	5
Recorded Video Channels Bound to a Single Tag	5
Locally Uploaded Images per Tag	5
Linked Channels per Tag	16

Quick Commands

Quick Commands per User	20
Commands per Quick Command	20

IP Speaker

Broadcasting Channels	256
Customized IP Speaker Groups	20

Notification Center

Messages	1,000
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Synthesis

Event Synchronization Projects	5
Incoming Triggered Event Types per Event Synchronization Project	300
System Integration Projects	5
Event Types per System Integration Project	300
Total Trigger Out Event Sources	3,000
SNMP Event Sources	3,000
Total BACnet Event Sources (Sum of Event Sources for Each Object)	3,000
Total BACnet Objects	3,000
Event Sources per BACnet Object	3,000
Total Modbus Event Sources	3,000

Retail (plug-in)

Persons	50,000
Total Areas	100
Total Stores	500
Floors Supported by a Single Store	B2–F8 (10 floors)
People Counting Regions Supported by All Stores	1,000
People Counting Regions Supported by a Single Store	10
Rules of Sending Scheduled Reports	32

Intelligent Inspection (plug-in)

Inspection Organizations	999
Levels of Inspection Organizations	10
Templates of Inspection Object Type	1,000
Inspection Objects	10,000
Inspection Points	10,000
Inspection Points per Inspection Object	100
Inspection Objects per Organization	1,000
Inspection Plans	1,000

Inspection Plans per Inspection Organization	1,000
Inspection Objects per Inspection Plan	100
Inspection Points per Inspection Plan	100
Execution Time Points per Inspection Plan	24

Education (plug-in)

Total Attendance Groups	1,000
People Supported by All Attendance Groups	50,000
People Supported by a Single Attendance Group	2,000
Total Classrooms	1,000
Face Recognition Channels Linked to a Single Classroom	5
Total Courses	5,000
Total Course Templates	50
People can be Selected per Class Scheduling	2,000
People Already Scheduled with Classes per Classroom	10,000
People Having Classes at the Same Time (Single Server)	4,000
People Having Classes at the Same Time (Multi-Servers)	40,000
Total Campus Attendance Points	64
Total Campus Attendance Rules	50

Data Storage

Total Database Records	100,000,000
Event Records	20,000,000
Face Recognition Records	20,000,000
ANPR Records	20,000,000
Metadata Records	20,000,000
Access Records	20,000,000
Analysis Records for People Enter and Exit	5,000,000
Video Intercom Records	20,000,000
Group Talk Records	20,000,000
Visitor Records	20,000,000
Attendance Records	20,000,000
Attendance Daily Reports	20,000,000
Request Records	5,000,000
Historical Count Records	20,000,000
In Area Statistical Records	20,000,000

Heat Map Records	5,000,000
Hourly/Daily/Monthly Face Statistics	20,000,000
Hourly/Daily/Monthly Human Body Statistics	20,000,000
Hourly/Daily/Monthly Motor Vehicle Statistics	20,000,000
Hourly/Daily/Monthly Non-motor Vehicle Statistics	20,000,000
Vehicle Enter Records	20,000,000
Vehicle Exit Records	20,000,000
Parking Records	20,000,000
Vehicle Forced Exit Records	20,000,000
Vehicle Parking Duration Records	20,000,000
Parking Duration Records of Parking Space	20,000,000
Parking Fee Records	20,000,000
Handover Records	5,000,000
POS Records	20,000,000
POS Event Records	20,000,000
Vehicle Trip Records	20,000,000
Vehicle Event Records	20,000,000
Hourly Vehicle Trips	20,000,000
Hourly Vehicle Events	20,000,000
Maintenance Alert Records	20,000,000
Maintenance Fault Records	5,000,000
Mobile Device Records	20,000,000
Water Level Records	20,000,000
Operator Logs	20,000,000
Plug-in Logs	20,000,000
Service Logs	20,000,000

Data Storage-Independent Data Deployment

Event Records	30,000,000
Face Recognition Records	30,000,000
ANPR Records	30,000,000
Video Metadata Records	30,000,000

Data Storage-Retail Plug-in

Accurate People Flow	5,000,000
General People Flow	5,000,000
Queue Analysis	5,000,000
People Flow Analysis in Region	5,000,000
Analysis of Heat in Region	5,000,000
General Customer Portrait	5,000,000
Accurate Customer Portrait	5,000,000

Data Storage-Intelligent Inspection Plug-in

Inspection Records	20,000,000
Inspection Point Records	20,000,000

Data Storage-Education Plug-in

Class Attendance Records	20,000,000
School Attendance Records	20,000,000

■ VMS Mobile Client Main Functions

VMS Mobile

◆ ***Live View***

Even when you are away from your computer, you can keep your premises secure with VSS Mobile. You can view live videos from up to 16 channels simultaneously and choose among 3 stream types to suit your mobile network conditions. PTZ control lets you pan, tilt, and zoom to cover nearly every angle. When anything of interest occurs, you can take snapshots or recordings as evidence that stores on your phone, or send a voice message to deter unwanted activities.

◆ ***Playback***

In VSS Mobile, videos stored on devices or the server can be played back at up to 8X speed or slowed down to 1/8X. You can also use manual recording to record important footage and save it directly to your phone.

◆ ***Visitor Management***

You can create visitor passes and grant access permissions with ease, while effortlessly tracking each visitor's status, from initial visit details through end of the visit. Automatic visit and leave can be set for unmatched convenience.

◆ ***Access Control***

With VSS Mobile, you can remotely monitor and operate all access control devices, from remotely unlocking a door for someone with verified credentials, to setting a door to remain locked to prevent any entry.

◆ ***Target Tracking***

When suspicious activity occurs, VSS Mobile lets you quickly locate persons of interest by searching face recognition records over a specified time range, uploading a face image to find matches, or searching captured records of people, non-motor vehicles, and motor vehicles by attributes.

◆ ***Event***

You can receive and manage a wide range of alarms, and subscribe to alarm notifications, so you will still get notified even when VSS Mobile is not running.

◆ ***Video Intercom***

You can make and receive calls with main stations, indoor monitors and door stations. After subscribing to offline calls, you will still receive calls even when the app is not running. Also, a complete record of incoming and outgoing calls ensure you never miss important messages.

◆ ***Alarm Controller***

You can remotely operate alarm controllers through VSS Mobile to protect areas, such as arming and disarming areas, bypassing and isolating zones, viewing real-time area and zone status, and filtering displays to show only the information you care about.

◆ File Management

You can manage snapshots and videos stored on devices or the server, including deleting them, exporting them to local albums, and more. Video downloads can be paused automatically or manually, saving you time and bandwidth from redownloading them when the download is interrupted.

VMS User

◆ Visitor Management

You can easily manage visitors by registering their details and generating visitor passes with the required access permissions. When they arrive, they can use the passes to gain access to where you are, and VSS User logs when visitors begin and end their visits.

◆ Intercom Monitoring

When guests arrive, they can call from the door station, or be verified through live video. Once you confirm their identity, you can remotely open the door in VSS User. If you spot any unwanted activities, you can tap to call the management center to report an emergency.

◆ Door Opening

You can open the door using Bluetooth, by scanning the QR code at the door station, or remotely through the app.

◆ Attendance

You can check in and out directly in the app, and view your attendance records there.

◆ Message Center

The unlock records and alarm messages on the indoor monitor are fully accessible in VSS User, allowing you to identify potential threats and keep your residence secure.

Response

By using Response (running on BWC), people can initiate group talk on their BWC devices. Group members can share real-time text and audio messages, local images and videos, and live location updates with their group. This turns solo response into coordinated, efficient teamwork.

■ VMS Mobile Client Requirements

The parameters below are applicable to VMS Mobile and VMS User.

	iOS	Android
Model	iPhone 5S or later	-
RAM	-	2 GB or more
Resolution	-	1280 × 720 or higher
Operating System	iOS 12.0 or later	Android 8.0 or later
Language	Arabic, Bulgarian, Czech, English (United States), French, Japanese, Korean, Spanish (Latin America), Polish, Portuguese, Russian, Chinese (Simplified), Spanish (Europe), Chinese (Traditional), Turkish, Ukrainian, Vietnamese, Malay, Romanian, Indonesian, Italian, Slovak	