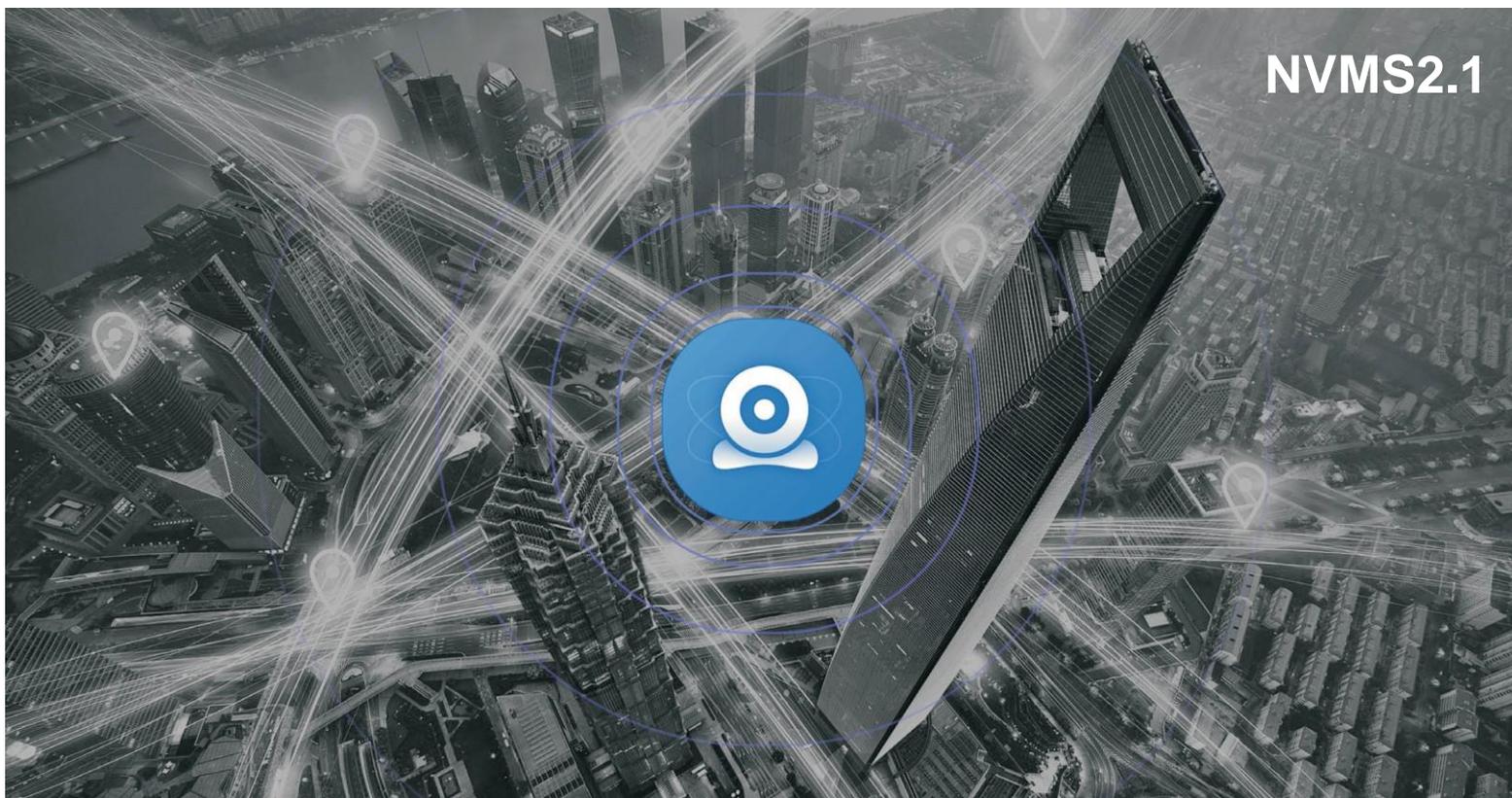


## NVMS2.1



# NVMS Standard

## Integrated Security Management Platform

NVMS Standard is a newly video surveillance management platform released by TVT, featuring seamless access to all TVT's products and encoding devices of the famous manufacturers in the industry (like Hikvision, Dahua, etc.). With the powerful capability of video surveillance management, real-time preview, record storage, record playback, record download, alarm linkage, decoding on TV Wall, keyboard control, vehicle entrance and exit management as well as intelligent analytics are supported. Therefore, NVMS Standard can meet the client's demands of centralized video management and can be widely used in the video surveillance of industrial park, education, banking, chain stores and buildings.



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## Features

### Device Access

- Supports TVT private protocol, ONVIF protocol, standard RTSP, SDK
- Supports adding devices by manually entering IP address, domain name or IP range, by auto search, or by auto report
- Setting the network of the devices before quick adding them

### Resource Management

- Supports channel (or camera) group management and device area management
- Supports centralized management of decoding devices, encoding devices and platform services
- Supports TV Wall, transfer, storage, access and intelligent analysis services

### Device Configuration

- Supports the basic configuration and user management of the devices
- Supports the date, time and time zone, network, email and DDNS configuration of the devices
- Supports getting the information of the device's HDDs
- Supports multi-OSD setup of one channel
- Supports the camera's ROI, video mask and motion detection settings
- Supports intelligent analytics
- Supports the camera's resolution, frame rate, VBR/CBR, image quality and bitrate settings
- Supports the camera's brightness, contrast, saturation, hue, AZ settings, etc.
- The parameters of multiply devices can be set at one time
- Supports configuring record plan for storage devices

### User Management

- Supports multi-user talk
- Supports user MAC address binding
- Supports user lock
- Supports different users and permission
- Supports permission based on resources and operation
- Permission can be assigned to each channel (or camera) of the device

### Snapshots

- Supports snapshots in the live view mode and playback mode
- Supports triggering camera snapshot

### Live View

- Supports multi-screen display mode:  
Supports 1/4/6/8/9/10/16/117/21/25/33/36/49/64/84/100 standard screen display mode
- Supports 2/4/6/7/9/12/16/24/36/48 widescreen display mode;  
Supports customized screen display mode
- Supports corridor mode
- Supports adding fisheye and panoramic cameras
- Supports channel group auto-switch
- Supports stream self-adaption and one-key stream switch
- Supports steam copy
- Supports multi-monitor display
- Supports instant playback
- Supports decoding with hardware
- Supports device's smart area and result display

### Two-way Talk and Broadcast

- Supports remote listening
- Supports two-way talk
- Supports 8K or 16K audio sampling rate
- Supports multiply audio formats: G.711 a-law, G.711 u-law, G.722.1, G.726, ACC, MP2L2, PCM
- Supports voice broadcast and audio file customization

### PTZ Control

- PTZ remote control, including preset, track and cruise calling and settings
- Supports zoom in/out and focus+/-
- Supports PTZ protocol configuration
- Supports 3D positioning control (the target can be quickly positioned and captured by box selection)
- Support scheduled tasks, one-button guard and one-button cruise configurations

### Record Playback and Backup

- Supports multi-channel simultaneous and asynchronous playback
- Supports multiple record source playback
- Supports multi-window playback
- Supports playback by channel, time slice, time, tag and event search
- Supports playback by frame, dragging the progress bar, fast forward or slow speed
- Supports record backup: manual backup, scheduled backup, backup by channel, time, tag and event search; supports cutting records and backup in the playback interface

### Record Storage

- Multiple storage types, such as IP-SAN, NAS and iSCSI
- Supports schedule record, alarm linkage record, manual record
- Supports image and video storage

### Alarm

- Supports multiple alarm types: Motion alarm, sensor alarm, smart event linkage alarm, line crossing counting linkage alarm, face match linkage alarm, access control linkage alarm, arming or disarming linkage alarm, etc.
- Supports multiple alarm linkages: Platform recording, client message pop-up, client preview, audio, decoding on TV Wall, device recording, device snapshot, local recording, local snapshot and so on
- Supports arming or disarming.
- Supports SOP (alarm handling process) configuration
- Supports alarm information export by time period
- Supports manual alarm output

### Decoding On TV Wall

- Supports working with decoders or decoding matrix to control multiple video walls
- Supports 12MP/ 8MP/5MP/4MP/3MP/1080P/720P
- Supports decoding on TV wall in the audio format of G.722, G.711A, G.711U or ACC
- Support live view and playback on TV wall
- Supports 1/4/9/16/25/36 screen mode
- Supports window merging and splitting, opening window and roaming
- Supports multiple splicing modes: 1x1, 1x2, 2x1, 2x2, 3x1, 3x2, 3x3, 4x1, 4x2, 4x3, 4x4, 4x5, 4x6, 4x7, 4x8
- Supports picture-in-picture mode and roaming mode
- Up to 999 plans configurable
- Supports channel group and plan sequence view
- Plan task configurable
- Supports triggering decoding on TV wall; customized alarm window (unlimited)
- Supports notification for node offline

### Line Crossing Counting

- Supports the threshold settings of people/motor vehicle/non-motor vehicle entering and exiting
- Supports daily, monthly people/motor-vehicle/non motor vehicle flow display by chart
- Supports historical people/motor vehicle/non-motor vehicle counting displayed in a histogram or curve graph and exported to an Excel
- Supports single/multi-channel real-time statistics and daily/monthly/yearly statistics via E-map
- Historical data searched by single/multi-channel, time period and line crossing and exported to a curve graph or histogram, or an Excel

### Electronic Map

- Supports Baidu map and picture map. The picture map supports JPG, BMP, PNG and TIF formats
- Supports multi-level maps; adding, modifying, moving, deleting hot spots (monitoring points, sensor)
- Supports layer edition and display as well as self-defined layer
- Supports alarm linkage, like icon flickering, video pop-up

### Face Surveillance

- Support batch adding and importing face pictures; people attribution information configurable
- The match boxes of strangers and people from allow list and block list are displayed with different colors.
- Supports alarm popup-window after face capture or match
- Supports image search and playback by face image (captured face image or uploaded face picture) and all searched face images can be viewed via the list or track on the E-map
- Supports one-key adding the captured picture to the face database in the image search interface
- Supports the similarity setting of face search
- One-key exporting face pictures of face database

### Face Attendance

- Attendance time configurable
- Supports displaying the employee's photo and the compared time on the right panel after successful comparison
- Supports multi-screen display mode (1/4/9/16); the face attendance video can be projected onto a sub-screen
- The attendance record can be viewed and filtered by day, week, month, working day/ non-working day/late/leaving early/overtime working/normal working/check-in /no check-in
- Supports displaying attendance status and overtime working status in the form of a list, which can be exported to an Excel

### Face Greeting

- Supports self-defining the style and other configuration items of the greeting interface
- Real-time visitor information display on the client
- The VIP visitor 's photo will be shown on the pop-up window of the sub-screen and the corresponding audio will be broadcast simultaneously
- Single visitor loop play time can be configured in seconds
- Greeting pop-up window quantity, height and duration configurable
- Support visitor access records search

### Parking Lot Management

- ANPR camera access
- Total/remaining space display
- Barrier gate control, manual/auto opening
- Historical vehicle entering or exiting information search
- Adding, modifying and deleting vehicle information and their parking permission
- Entrance/exit lane configuration
- Overstaying parking search and self-defining overstaying threshold
- Block list management (adding, modifying and searching vehicles to /in the block list)

### Others

- Supports keyboard control
- Supports overload protection
- Supports expansion through license file authorization
- Supports operation and maintenance management:
- Operating, system and alarm logs can be searched and exported by time, type and user
- Supports B/S client, C/S or MAC OS client and Android/iOS mobile APP

### Specifications

Capability of Management	
Max. number of channel access	30000 CH
Max. number of NVR access	1024 NVRs
Max. decoding capability	256 CH
Max. number of transfer server access	128 servers
Max. number of storage screen display	128 servers (storage servers with transfer function)
Max. number of screen display	100 CH, auto-switch supported
Max. number of plan view	20
Max. number of users	256 users

### Components

Service	Client
NVMS Standard Server	PC Standard Client Mobile APP

### Recommended Configuration

Configuration	Recommended Hardware Configuration	Recommended System Configuration
<b>Server Configuration (Minimum Requirements)</b>		
Authentication Server	Intel Core Processor I3- 6100 3.7GHz or above/4GB DDR4 ECC / 120GB SSD /dual gigabit Ethernet ports	Windows 2016 server, x64 Windows 2012 server, x64 Windows Server 2008 ( 32 bit\64bit ) /Windows Server 2003 ( 32bit\64bit )
Transfer Server	Intel Xeon Processor E3- 1225V5 3.3GHz / 8GB DDR4 ECC / 120GB SSD /four gigabit Ethernet ports	Windows Server 2008 ( 32bit\64bit ) /Windows Server 2003 ( 32bit\64bit )
<b>Client Configuration (Minimum Requirements)</b>		
Monitor Client	Intel Core Processor I3- 6100 3.7GHz or above / 4GB DDR4 ECC / 120GB SSD / gigabit Ethernet port / NV GT430 or AMD HD6570 or above, 512MB GDDR5 or above ( 1GB GDDR5 for multiple monitors access ) / 500GB	Windows7 (32bit\64bit) or ( 32bit\64bit ) flagship version /Windows8 ( 32bit\ 64bit ) professional version /Windows10 ( 32bit\64bit ) professional version
<b>Client Configuration (Recommended Configuration)</b>		
Monitor Client	CPU: I5-7400@3.00GHz; 16G; NVIDIA GeForce GTX 1060 6GB	Win10 64bit

### Typical Application

