Enterprise-level video management solutions tailored for distinct verticals

Sophisticated video management systems combining our long-standing expertise in AI, machine learning, cloud computing and virtualisation.
A video management ecosystem

More than fifteen years ...

The Monitor application is the main tool enabling users to interact with the Sunview system.

The Console application is the central tool for Sunview system setup and configuration.

Sunview is a complete video management ecosystem, offering superior value and outstanding service experience. Combining the cutting-edge developments in machine learning with cloud computing, Sunview is designed to put your mind at rest.

Combine all your video management activities into a unified virtual ecosystem with an efficient scalable architecture, intuitive interface, advanced security features, powerful analytics modules and extensive possibilities for integration.
Intelligence

**Complete ecosystem**
The software is packed with essential and advanced features to allow you to make the most of your video management system, regardless of how extensive it is.

**Time-tested performance**
The quality and stability of the software’s core has been proved, and is backed up by Luxriot’s fifteen years of experience and continuous development.

**Intuitive and user-friendly**
The meticulously designed interface helps users to quickly understand the whole configuration process and start using the software.

**Enterprise ready**
With its central server hierarchy, failover, archive replication and many more improvements, it’s the ideal system for large-scale solutions.

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**Highlights**
Sunviews’s key integral elements work together to create a cohesive and up-to-date piece of video management software. When it comes to security, we know that every detail is important, and everything is taken care of.

**64-bit core**
Using the full power of hardware for efficient software architecture.

**Powerful analytics tools**
New modules for advanced video analytics, along with face and licence plate recognition.

**Event and Action Manager**
Automated video surveillance process using the Alarm and Action manager.

**Failover**
Constant monitoring of the status of all servers and failover management from the central server.

**Archive replication**
Advanced mirror recording with scheduled transfers ensures your data is always safe.

**Integrations and API**
Enhance your video management with a vast range of integration possibilities for third-party software.
Video Wall

Failover

Automated recovery of your system in the event of a sudden server failure. Sunview carefully tracks all the servers’ operations, and, if any of the servers fails, it quickly activates a spare server to perform the actions that the malfunctioning server was performing prior to failing.

Maps

Complete overview of all areas where cameras are installed, providing immediate visual verification. All the alerts are integrated with the maps and can be set up so that they can be viewed on the overview as well — meaning you are able to immediately specify the location of the alarm event.

Video Wall

Get the most out of the video wall in your control room. Sunview offers improved configuration and functionality, as well as the ability to easily manage large-display installations. It is vital for operating large-scale video surveillance systems, especially where having the ability to easily examine the area and quickly react to alarm events is essential.

Video Content Analysis

Exploit the full potential of your video management system with video content analysis. Not only does this improve the functionality of your surveillance system (the ability to analyse large amounts of data to determine a specific pattern for the exact task you are working on), it also enhances security and safety and can be useful in many other areas of your enterprise, like HR and marketing.

Advanced Event and Action Manager

Specify the desired outcome of your video surveillance system’s operation. Determine how the software reacts to any event caught on camera and how it learns to process the reactions automatically. Send emails, activate DI/DQ, interact with any other software or simply bring the attention of the operator to the camera that requires immediate action from them. The functionality is used in order to get rid of false alarms and to improve the efficiency of your surveillance system, and can be used not only for single events, but also for sets of sequenced events.

Intergrations and API

Sunview offers customisable integration with other software systems in the form of a Sunview HTTP API.

Advanced Health Monitoring

Keep your finger on the pulse of all your hardware at once, minimising the risk of inconvenient surprises, and keep track of the state of the whole video surveillance system.

Multicast

Make full use of the multicast environment by transmitting to different destination devices (both servers and cameras). The functionality allows for fully integrated work with large enterprise environments using Active Directory or LDAP technology.

Edge Recording

Synchronise all your data with IP device storage. By doing this, your data will still be recorded by all cameras even if network connection is lost to any of them. Data recorded during this period will be transferred in full to your server as soon as network connection is re-established.

Alarm Acknowledgement

Ensure no events are overlooked by the operator. All the alarms must be confirmed by the operator by automatically generating a bookmark of the event in the archive. The operator can make entries in the journal to allow tracking of actions performed with regard to the events.

Intergrations and API

Sunview offers customisable integration with other software systems in the form of a Sunview HTTP API.

This is one of the most comprehensive enterprise-level video management solutions on the market, featuring interactive maps linked to alarms; an advanced event and action manager; analytics tools; video wall support and other components you will definitely appreciate. To ensure the safety of your data, the software also offers edge recording to synchronise all data with IP device storage, archive replication, advanced system health monitoring and failover, which will reduce disruption of your video surveillance recordings to zero. All this, plus various customisation possibilities and Sunview’s flawless technical support — Sunview is a video surveillance solution you can count on.
Basic Functions

- Live View
- Playback
- Layout
- E-map
- Real-time Alarm
- Video Wall
- Report Statistics
- Monitoring Center
Configuration Maintenance

- Devices
  - Search, add, delete and modify devices

- Log
  - Query client operation log and server log

- Group
  - Add, delete and modify group information

- Users
  - Add, delete, and modify user and role

- Device Config
  - Configure devices, e.g., encode parameter, motion detection, OSD, etc.

- Servers
  - Query and configure server parameters; backup/recover server data

- Alarm Mail
  - Configure email policy, email address, account information and other parameters
Face Recognition

Face Recognition
- Face Recognition: While previewing the video, intelligent analysis such as face comparison is performed on the video.
- Face Search: Retrieve historical data of face captures and support multiple search methods.
- Face Lib Manage: Manage face group grouping, face base map, personal information, etc.
- Face Match Config: Manage face matching strategies and configure various linkage parameters.
- Classification Query: According to the conditions, query the details of face captured pictures, including similarity, quality score, confidence, etc.
Licence Plate Recognition

- License Plate Recognition
  - Real-time view of the vehicle license plate snapshot pictures, relevant warehousing information

- License Plate Search
  - Retrieve historical data of license plate captures and support multiple search conditions

- License Plate Manage
  - Manage license plate grouping, license plate information, etc.

- License Match Config
  - Manage license plate comparison strategies and configure various linkage parameters

Basic Functions
Configuration Maintenance
Face Recognition
- License Plate Recognition
  - Multi-target Recognition
  - Attendance
  - Temperature Monitor
  - Thermal Imaging
Multi Target Recognition

AI Recognition
Statistics of Vehicle, Human and Non-motor Vehicle Resources

Intelligent search
Retrieve historical data of pedestrians and vehicle captures, and support multiple search conditions

Traffic Statistics
Graphical display of pedestrian and vehicle capture history statistics
Time Attendance

- Attendance Preview: Real-time preview of face attendance interface
- Attendance Statistics: Retrieve, summarize, and export attendance data
- Attendance Config: Configure face attendance parameters and configure staff scheduling strategies
Temperature Monitor

Face Recognition

- Face Recognition
  - While previewing the video, intelligent analysis such as face comparison is performed on the video

- Face Match Config
  - Manage face matching strategies and configure various linkage parameters

- Face search
  - Retrieve historical data of face captures and support multiple search methods

- Classification Query
  - According to the conditions, query the details of face captured pictures, including similarity, quality score, confidence, etc

- Face Lib Manage
  - Manage face group grouping, face base map, personnel information, etc.

Face Recognition

Basic Functions
- Configuration Maintenance
- Face Recognition
- License Plate Recognition
- Multi-target Recognition
- Attendance
- Temperature Monitor
- Thermal Imaging
Thermal Imaging

Face Recognition

Thermal Image Config
Configure the capture strategy of the thermal imaging camera

Thermal Image Search
Retrieve historical snapshot data from thermal imaging cameras

Thermal Image History
Retrieve historical data of thermal imaging camera area temperature measurement
Keyboard Control

Simple operation with intuitive joystick and jog shuttle wheel
Plug and play with only a single cable required
Simplified navigation via pre-programmed or customizable button commands
Supports user flexibility for either right- or left-handed operators
Increased visibility in most lighting conditions from backlit buttons

Designed for use with Sunview VMS clients, this surveillance keyboard features an intuitive joystick that enables precision control of Sunell and other PTZ cameras, while the jog shuttle wheel quickly manages video review.

Assign program controls and all-upssuch as guard tours, switch views and dewarp to specific buttons, or utilize out-of-the-box, preconfigured settings.
## System Requirements

<table>
<thead>
<tr>
<th>Name</th>
<th>PC Client</th>
<th>Central Management Server</th>
<th>Media Distribution Server</th>
<th>Intelligent Analysis Server(CPU environment)</th>
<th>Intelligent Analysis Server(CPU environment)</th>
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<td>CPU</td>
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<td>Intel® Core™ i5 or better</td>
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<td>Software</td>
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<td>Display Resolution</td>
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<td>Video Card</td>
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<tr>
<td>GPU</td>
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<td>NVIDIA GTX 1050 or better</td>
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</table>

## Main Functions

### General
- Applicable to local and wide area networks
- Remote configuration for added devices
- Management of user permissions
- Resetting of password via server’s UID
- Support IP keyboard shortcuts to conveniently access commonly used actions

### Client
- Hardware decoding support for live view and playback

### Network
- Online user verification
- NTP time synchronization protocol
- Search active online devices
- Device addition via IP, domain name, UUID of p2p; batch importing of devices
- Two-way audio function
**Live View**
- Support for MJPEG, MPEG-4, H.264 and H.265 video encoding formats
- Viewing of stream info
- Multi-window or Multi-screen live view or playback
- 1~64 window division configuration
- Maximum support for a 64-window standard-screen division
- Live view in Fisheye mode for fisheye cameras
- Live view in panoramic mode for 32M panoramic cameras

**PTZ Control**
- Remote PTZ control, preset, patrol
- 3D positioning, auxiliary focus, and wiper function
- Support for PTZ control of one-touch patrol and one-touch park

**Alarm Management**
- Alarm configuration for motion event, intelligent analysis event
- Search and export of linked alarm log pictures
- Possibility to view latest priority alarm when viewing alarm information in the alarm pop-up window
- Support configuration alarm sounds for speech or buzzer

**Recording**
- Local manual recording support

**Playback**
- Remote playback
- Normal, event playback
- Maximum of 16-ch synchronous playback supported
- Frame extracting support for high-speed playback
- Picture grid
- Playback in Fisheye mode for fisheye cameras

**Backup**
- Downloading of video files to PC
- Batch backup by time period, channels

**E-map**
- Custom map
- Multilevel
- Online GIS-map
- Offline GIS-map
Video Wall
• Decoder devices management
• Video wall layout configure
• Video wall windows configure
• Video wall cruise configure

Event Linkage
• Event linkage strategy configure
• Triggered by timing or alarm event
• Linkage E-mail, PTZ, IO output

Face Recognition
• White library, black library, temporary library for Strangers
• Face trigger local alarm, remote device output alarm, e-mail, Face notice APP
• Face attendance

Body-temperature Monitor
• Real-time temperature screening
• Historical body-temperature search
• Body-temperature statistics
• Over temperature alarm, e-mail, APP subscribe
• Mask detection

Thermal imaging
• Capture strategy configure
• Snapshot data search
• Area temperature data search
• Historical temperature at curve graph view

License Plate Recognition
• White library, black library
• LPR trigger local alarm, remote device output alarm, e-mail, LPR notice APP

Video Analytics
• Perimeter, Single Virtual Fence, Double Virtual Fences, Loiter, Multi Loiter, Object Left, Object Removed, Abnormal Speed, Converse, Illegal Parking, Signal Bad
• Pedestrian age, sex, whether to ride or not
• Vehicle type, brand, color and license plate

Statistics
• Device alarm, device online, traffic flow statistics
### Specifications

#### Capacity
- **Maximum Number Of Cameras**: Up to 10000+ channels
- **User**: Up to 5000 Users
- **Roles for each User**: Unlimited

#### Live View
- **Screen Layout**: 1/ 4 / 6 / 8 / 9 / 16 / 25 / 32 / 64 / 36 / 64 layout<br>1/ 4 / 6 / 8 / 9 / 16 / 32 / 64 custom layout
- **PTZ Control**: Pan, Tilt, Zoom, Edit and control, Zoom+, Zoom-, IRIS +, IRIS-, Near focus, Far focus, Focus, Orientation, Wiper, Turn on the light, Cruise, Preset
- **Image**: Brightness, Sharpness, Saturation, Contrast
- **Features**: Close View, Start Audio, Start Intercom, Start Record, Snapshot, Continuous Snapshot, Window Ratio, Restore, Start 3D, Full Screen, Hardware Acceleration, Open Mouse Thermometry, Show Area Temperature

#### Playback
- **Playback**: NVR recording playback<br>Playback maximum 32 channels under several modes & full screen.
- **Function and Feature**: Recording schedule, Rewind, Pause/Play, Stop, Next frame, -8x~8x speed for forward and backward, Layout display, Full screen, Download, Select progress bar format

#### Alarm
- **Real-Time Alarm**: Alarm display, Alarm processing, Alarm operation, Interface display, Toolbar alarm shortcut settings
- **Alarm Search**: Time, Type, Processing status, Device name, Operation, Alarm information, Interface display setting

#### E-map
- **Format**: PNG/XPM/JPG
- **Map Alarm**: Alarm flash
- **Features**: Hot spot, map zoom in/out

#### User Management
- **User Management**: Add, Delete User and Role<br>Edit and Delete User, Query user
- **User Level**: Administrator, Operator
- **User Info**: User name, password, user level, permissions<br>Different default permissions for different user levels<br>Assignable permission(s) of each IPC
- **Privilege**: Menu Privilege, Channel Privilege, Face Library Privilege

#### System Configuration
- **Base Setting**: Login, alarm message, language, initial page set, video proportion, decoding method, default stream
- **File Path**: Configuration picture and video save path
- **Hotkey Setting**: Configuration help documentation, preview full screen, playback, real time alarm, system configuration, user management, device management, capture, lock screen, switch users, turn on/off alarm sound, start/stop record shortcut key.
- **Capture Setting**: Setting capture interval
- **Log Export**: Configuration log export path