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.
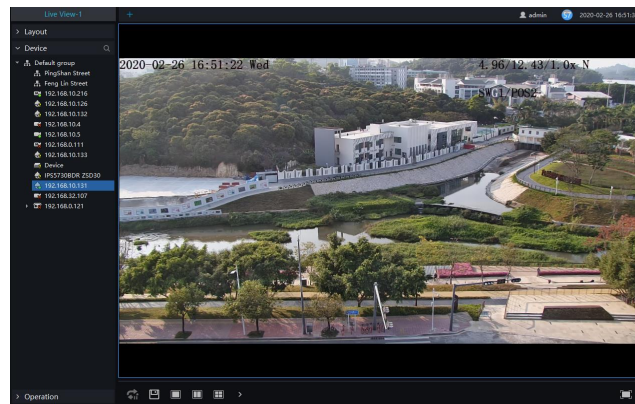
Sunview VMS

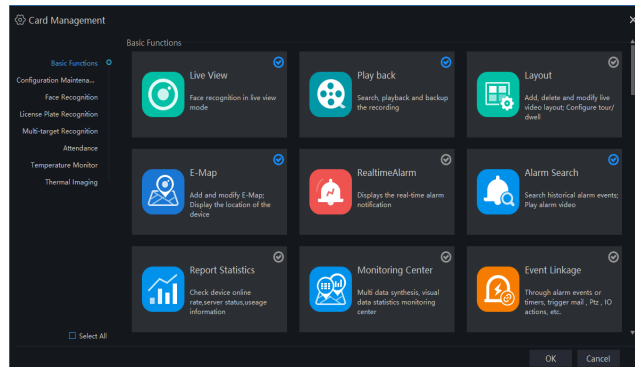## A video management ecosystem

More than fifteen years ...

Sunview is a globally scalable solution optimized for command and control that seamlessly synchronizes video surveillance with access control, fire, intrusion and other systems into one powerful, intuitive interface. The Video Management System's powerful collaboration for security operations command allows any operator to immediately share cameras of interest, streamlining real-time security command and management over a widespread, demanding environment.

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.

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.

Intelligence

Powerfully smart, Sunview supports almost any camera, and has a wide range of advanced features and a long list of add-ons, enabling more efficient video management than you will ever have encountered before.

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

Intuitive and user-friendly

The meticulously designed interface helps users to quickly understand the whole configuration process and start using the software

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

Enterprise ready

With its central server hierarchy, failover, archive replication and many more improvements, it's the ideal system for large-scale solutions

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 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.

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 Video Wall 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.

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.

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/DO, 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 of 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.

Organisation Hierarchy

The functionality allows the construction of a more structured hierarchy of system rights and privileges among users within an organisation. The group's administrator (or sub-admin) rights are also specific for each group, and thus are valid only for the chosen range of cameras and servers.

Archive replication

Turn your local recording server into a buffer server. In large enterprises, this enables convenient local usage and scheduled or constant data transfer to Central Data Centre, whenever the network is available.

Fire system integration

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

SUNELL

Live View, Playback, Layout, E-map, Real-time, Alarm, Alarm Search, Report Statistic, Monitoring Center, Event Linkage, Vi eo Wall,

Basic Functions

◻ Common Functions   ▥ All Features

Basic Functions

Live View
Face recognition in live view mode

Play Back
Search, playback and backup the recording

Layout
Add, delete and modify live video layout; Configure tour/dwell

E-Map
Add and modify E-Map; Display the location of the device

RealtimeAlarm
Displays the real-time alarm notification

Alarm Search
Search historical alarm events; Play alarm video

Report Statistics
Check device online rate,server status,useage information

Monitoring Center
Multi data synthesis, visual data statistics monitoring center

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

Configuration Maintenance

SUNELL

Devices, Log, Group, Users, Device Config, Servers, Alarm Mail

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Configuration Maintenance

Common Functions · All Features

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

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

VMS Management

SUNELL

Face Recognition, Face Library Manage, Face Search, Face Match Config, Classification Data Query

VMS Management

Card Management

Basic Functions

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

Live View
Face recognition in live view mode

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Search historical alarm events; Play alarm video

Report Statistics
Check device online rate,server status,useage information

Monitoring Center
Multi data synthesis, visual data statistics monitoring center

Event Linkage
Through alarm events or timers, trigger mail , Ptz , IO actions, etc.

☐ Select All

OK   Cancel

Face Recognition

SUNELL

Face Recognition, Face Library Manage, Face Search, Face Match Config, Classification Data Query

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, personnel 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

Basic Functions

Configuration Maintenance

Face Recognition

License Plate Recognition

Multi-target Recognition

Attendance

Temperature Monitor

Thermal Imaging

Licence Plate Recognition

License Plate, License Plate Search, License Plate Manage, License Match Config

Licene Plate Recognition

License 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, Intelligent Search, Traffic Statistics

Multi Target Recognition

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
Attandance

Attendance Preview, Attendance Statistics, Attendance

Temperature
T [} ã[r

Temperature Screening, Temperature Search, Health Archives, Temperature Config, Temperature Statistics

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, personnel 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

Basic Functions

Configuration Maintenance

Face Recognition

License Plate Recognition

Multi-target Recognition

Attendance

Temperature Monitor

Thermal Imaging

Thermal Imaging

Thermal Image Config, Thermal Image Search, Thermal Image History

Face Recognition

Thermal Imaging

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

Thermal Image Search
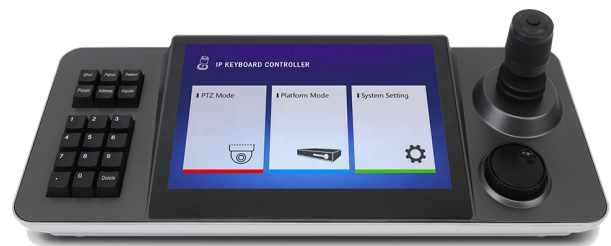Retrieve historical snapshot data from thermal imaging cameras

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

Keyboard
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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, orutilize out-of-the-box, preconfigured settings.

Simple operation with intuitive joystick and jog shuttle wheel
Plug and play with only a single €S- 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 X7D buttons
€se in a variety of settings as a stand-alone device or with P. mice and keyboards

System Requirements

Name	PC Client	Central Management Server	Media Distribution Server	Intelligent Analysis Server(CPU environment)	Intelligent Analysis Server(CPU environment)
CPU	Intel® Core™ i5 or better	Intel® Core™ i5 or better	Intel® Core™ i5 or better	Intel® Core™ i7 or better	Intel® Core™ i7 or better
RAM	8 GB or more	4 GB or more	8 GB or more	8 GB or more	8 GB or more
Network Card	Gigabit/s	Gigabit/s	Gigabit/s	Gigabit/s	Gigabit/s
HDD	50 GB or Above	50 GB or Above	50 GB or Above	50 GB or Above	50 GB or Above
OS	Microsoft® Windows® 7 Pro (64 bit) Microsoft® Windows® 10 Pro (64 bit) Microsoft® Windows® 10 Enterprise (64 bit) Microsoft® Windows® Server 2012 Microsoft® Windows® Server 2016				
Software	DirectX 11 or above	—	—	—	—
Display Resolution	1600×960 and above ,default 1920x1080	—	—	—	—
Video Card	—	—	—	—	—
GPU	—	—	—	—	NVIDIA GTX 1050 or better

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 includes fire alarm s stems
- 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 /36 /64 layout 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 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 Edit and Delete User, Query user
User Level	Administrator, Operator
User Info	User name, password, user level, permissions Different default permissions for different user levels 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