SSM
Total Management Software

- System Manager
- Media Gateway
- Recording Server
- Virtual Matrix
- Screen Mirroring
- Transaction Server
- Transcoder
- Federation
- Failover Server
SSM is a one-stop management software platform that maximizes the efficiency of Wisenet network products.

- **Centralized Management**
  The system manager can configure all servers, cameras, recorders as one system in one UI and setup user/group policy for all systems.

- **Distributed Computing Architecture**
  By module-based system architecture, SSM can fit on from small to large system because various combinations of modules can meet any end-user needs and system requirements.

- **Extended Scalability**
  In addition to small biz site, SSM provides a suitable solution for enterprise site with numerous features for high-end market such as federation, failover, 3rd party integration and so on.

- **Guaranteed Reliability**
  Because reliability is the key of surveillance system, SSM will keep your system alive at any time through 1-n failover system, auto network-fail recovery (ARB) and full system dashboard.

- **Flexible System Integration**
  With Transaction server, 3rd party system like access control and intrusion detection will be easily integrated with SSM as one solution.

- **Efficient Monitoring**
  Event action triggered by rule, event-centered monitoring and processing support make operators to focus only on a meaningful subject.

- **Powerful Search Engine**
  9 types of search methods make operators find evidences very quickly and easily. Especially Video Summary feature shows 1 minute video clip for 24 hours.
TOTAL MANAGEMENT SOFTWARE

Small System
Up to 100 cameras, suitable for applications such as Commercial Building, Education, Government Offices (City Hall, Museum, Library and more)

Enterprise System
More than 300 cameras, suitable for applications such as Airport, Convention Center, Railway, Port, Casino

Mid System
Up to 300 cameras, suitable for applications such as Industrial Factory, Public Utilities, Commercial Building, Healthcare, Sports Complex, Prison

Network Camera + Server Recording System
- Only one SM needs to be installed for a surveillance solution.
- If a server is used, SM and MG is preferred to be installed to that server.
- Even though it depends on performance of the server, one server can handle a solution under 100 cameras.

Network Camera + Server Recording + Video Wall System
- Only one SM needs to be installed on-site.
- SM is not needed to be installed to a separated server but can be installed with a recording server.
- MG and RS can be installed in a server.
- Only one VMG needs to be installed on-site and it can be installed with VMD.
- For video wall system, a display server with 4 or more monitor output is commonly used instead of the expensive server that has RAID storage system.

Network Camera + Server Recording + Video Wall + Failover + Access Control System
- SM is recommended to be installed at a separated server because it might need more performance for handling a mid to high site which may cause unstable recording.
- Failover system for SM and RS is recommended for stable system operation and redundancy for video data.
- TS is needed for integration with a 3rd party access control or intruder alarm system.

TOTAL MANAGEMENT SOFTWARE

Up to 300 cameras, suitable for applications such as Industrial Factory, Public Utilities, Commercial Building, Healthcare, Sports Complex, Prison
Multi-site / Multi-client monitoring

Conventional monitoring solutions have an on-site administrator to control the local devices; this can limit the scope when expanding the monitoring system. The SSM supports multi-site / multi-client monitoring that removes this limitation making it suited for mid to large sized monitoring applications.

Expandability
Wisenet network connected products are registered and managed by SSM server. The server can search the connected equipment, support health checks and upgrade each device to ensure that they are maintained in the best condition.

Reliability and Security
Individual sites, users and user group management is controlled by the system manager. With this level of authorization access and management, certain sites or devices and management function can be controlled at the user level.

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Virtual Matrix

SSM Virtual Matrix is designed to control wall-monitors and ensures that operators maintain a complete control of all monitors, allowing immediate video view control and switching event video to resolve incidents fast.
- Provide sequence, event and map monitoring mode for more efficient monitoring.
- Multi monitors can be merged as one monitor without any additional devices.

Transcoder

In mobile environment, recorded video with high resolution and framerate cannot be played because of bandwidth limitation. Transcoder transcodes the recorded video to a lower bandwidth steam for more reliable monitoring.

Federation

SSM’s Federation feature makes it possible to connect geographically distributed, independent SSM systems to mimic a larger system. All systems are managed independently, easing the problem of managing a single, centralized system, yet providing the benefits of centralized systems. Connecting two SSM systems takes less than a minute and users will be able to access the remote system’s live and recorded video as if it is a local system.
**Transaction Server**

Transaction Server is an interface between SSM and a third-party system such as access control or intrusion alarm system. It makes SSM be an enterprise system that generally needs system integration with those systems.

**HA (Failover) Server**

For the sustainable system operation, HA server acts like a watchdog for SSM servers and if a server is corrupted by the network or system itself, HA takes over the role of the system. After recovering the corrupted system, HA will automatically hand over vice versa.

- HA is ready for Recording Server, Media Gateway and Virtual Matrix.
- For cost reduction, a single HA can watch multi servers because all servers are seldom corrupted simultaneously.

**Screen Mirroring**

The screen of a PC with Screen Mirroring can be displayed on a console or video wall with Virtual Matrix Server and can be recorded in Recording server. This is used for making video evidence of third party software like building management software, energy system, PoS system and so on.

**Video Summary**

For rapid video evidence search, Video Summary provides several minute-long video clips for several hours-long video data. It shows only meaning moving objects at extremely reduced time.
SERVER FEATURES

Auto Recovery Backup

In case of network failure, video data from a camera cannot be streamed to Recording Server so important evidence may be missed. However, Auto Recovery Backup feature enables the camera to store video data to the SD Card on the camera and when the network comes up, the camera sends the stored data to the Recording Server for recording reliability.

LDAP Integration

Companies usually use their own user authority policy so additional user setup for SSM could be time-consuming. SSM supports LDAP so that it can utilize company’s pre-defined user authority system such as MS Active Directory.

CONSOLE FEATURES

Bandwidth and performance optimized live monitoring

For efficient and reliable monitoring, SSM provides automatic profile change feature in which a high profile video stream is displayed on a big picture screen format such as 1x1, 2x2 and low profile is displayed on a small picture screen format automatically. This is very effective because high profile video quality is not needed on a small picture screen.

For screen format like 6x6 or 8x8, ‘I-frame only’ can be a more comprehensive option because of PC performance limitation.

Efficient monitoring through powerful event management

All event-related features such as event priority, event coloring, rule-based event action setup, real-time event thumbnail display and so on are for more efficient monitoring, which means more surveillance coverage is possible with lower budgets. Furthermore, SSM provides a separated event viewer that provides real-time event log with a single channel preview.

- Each event could be acknowledged by operator with some notes.
- Audio broadcasting for warning people in a dangerous event situation.

Live viewer event thumbnail

Event viewer
**GPU video decoding**

By utilizing GPU processing power of Nvidia graphic card, workstation can display almost doubled channels without any additional hardware equipment. For example, a workstation can display 21 channels Full HD real-time streams if only with CPU but with CPU and GPU, 39 channels can be displayed. (Tested with Intel Xeon CPU E3-1270 3.60GHz, NVIDIA Geforce GTX 960, Win10 64bit, 8G RAM)

**Map monitoring with Google Map**

With SSM, an administrator can set a map-based layout to match with the live videos in real-time. Overlaying camera or sensor icons means the resolving of issues becomes extremely easy. By utilizing map based monitoring together with live monitoring, an event pop-up window will appear on the location where the event has happened helping towards a quick resolution to the event. As well as 2D map image, Google map can be used for wide area surveillance.

**Various searching mode**

SSM provides totally 9 types of search modes for quick evidence retrieval.
- Date/time, event, bookmark, and local folder search are the basic search features.
- POS, heat-map is one of business intelligence features for retail shop owners.
- Motion search and smart search make it possible to retrieve evidence within a very short period of time.
- Video Summary is one of key features of SSM that provides 1 minute video clip for 24 hours.

**System Dashboard**

All system devices that include servers, cameras and recorders can be monitored with a single dashboard. It shows detailed system information such as device and component status, CPU performance, memory usage, network bandwidth and HDD consumption. It also gives event statistics for efficient event management. For mobile accessibility such as tablet PC and smartphone, Dashboard provides plug-in free web access feature for any browsers like Google Chrome, Safari, Firefox and IE.

**SSM Mobile**

Security guard can access to SSM system via a SSM mobile with very intuitive user interface. With SSM mobile, the guard can monitor live video and playback recorded video also. If mobile bandwidth is not enough, SSM transcoder can make a stable streaming environment.
### SSM Specifications

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<tr>
<th>Feature</th>
<th>Professional</th>
<th>Enterprise</th>
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