Maximum Number of Cameras 288

GENERAL

#### $\Delta I / \Delta \Delta I / \Delta \Delta I$ SSM DC .

| SSM-RS10L/20L/30L                                         |                                          |                                       | SSM-RS10L                                           | SSM-RS20L            | SSM-RS30L                                | SSM-RS00L    |
|-----------------------------------------------------------|------------------------------------------|---------------------------------------|-----------------------------------------------------|----------------------|------------------------------------------|--------------|
| 5M Recording Server                                       | DEVICE                                   |                                       |                                                     |                      |                                          |              |
| (Video Recording Server Solution)                         | Supported Device Network camera, Encoder |                                       |                                                     |                      |                                          |              |
|                                                           | Supporte                                 | d Protocols                           | Samsung, ONVIF                                      | profile S            |                                          | Samsung      |
|                                                           | Max. Regi                                | ster Device                           | 36                                                  | 72                   | 128                                      | 16           |
|                                                           | PERFORM                                  | IANCE                                 |                                                     |                      |                                          |              |
|                                                           | Video /                                  | Video Compression<br>Format           | H.265, H.264, MP                                    | EG-4, MJPEG          |                                          |              |
|                                                           | Audio                                    | Multi-Profile                         | Live 1, Live 2, Rec                                 | ord, Event record,   | Mobile                                   |              |
|                                                           | Addio                                    | Audio Compression<br>Format           | G.711 u-law (PCN                                    | И), G.723, G.726 (Al | DPCM), AAC                               |              |
| Playback                                                  |                                          | Performance                           | Up to 400Mbps (                                     | @ 4 HDD's)           |                                          |              |
| V _                                                       |                                          | Manual Recording                      | Yes                                                 |                      |                                          |              |
|                                                           |                                          | Continuous Recording                  | Yes                                                 |                      |                                          |              |
|                                                           | Recording                                | Event Recording                       | Yes                                                 |                      |                                          |              |
|                                                           | Recording                                | Schedule Recording                    | Yes                                                 |                      |                                          |              |
|                                                           |                                          | Pre / Post Event                      | Pre : 10 ~ 60sec                                    |                      |                                          |              |
|                                                           |                                          | Recording                             | Post: 1,200sec                                      | sec                  |                                          |              |
|                                                           |                                          | Event Notification                    | Audio, E-mail, SS                                   | M C onsole           |                                          |              |
|                                                           | _                                        | Performance                           | Up to 100Mbps,                                      | Up to 16CH           |                                          |              |
| y Features                                                |                                          | Time Search                           | Yes                                                 |                      |                                          |              |
|                                                           |                                          | Event Search                          | Yes                                                 |                      |                                          |              |
| nodels from 16 to 128 channels recording                  | Search &                                 | Timeline Search                       | Yes                                                 |                      |                                          |              |
| ipports H.265, H.264, MPEG-4, JPEG codec                  | Playback                                 | Smart Search                          | Yes                                                 |                      |                                          |              |
| 0Mbps / 100Mbps for Recording / Playback                  |                                          | Bookmark Search                       | Yes                                                 |                      |                                          |              |
| ipports various recording mode :                          |                                          | Video Summary                         | Yes                                                 |                      |                                          |              |
| anual, Continuous, Event with pre/post and schedule       |                                          | Synchronous Playback                  | Yes                                                 |                      |                                          |              |
|                                                           |                                          | Security                              | Multi-Level user                                    | access authority     |                                          |              |
| r faster video search, Video summary feature provides     |                                          | Data Security                         | SSL                                                 |                      |                                          |              |
| inutes video clip for several hours                       | System                                   | Number of HDDs                        | Up to 24                                            | ALCATA CAC CCC       |                                          |              |
| ipports failover recording system                         | System                                   | Supported Storages<br>System Failover | Yes (by SSM-HA)                                     | i, e-SATA, SAS, iSCS | 01                                       |              |
| pports automatic data recovery from network failover with |                                          | Network Failover                      | Yes (Auto recove                                    |                      |                                          |              |
| mera SD card (ARB)                                        |                                          | Time Synchronization                  | NTP                                                 | iy backup/           |                                          |              |
|                                                           | MISC.                                    |                                       | 1.00                                                |                      |                                          |              |
|                                                           | System                                   | Recommended                           |                                                     | SATA II 7200rpm (    | SSD is Recommenc<br>troller (AF Supporte |              |
|                                                           | Requirements                             | Minimum                               | Windows Server<br>Windows 8/8.1, V<br>* Recommender | Windows 10           | vs Server 2012 R2 *                      | , Windows 7, |

|                                                   | umber of Cameras                                                                                                                                                                                                                                                                                                                                            | 288                                                           | Unlimited                                                                                                                                                                            |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                   | Number of Clients                                                                                                                                                                                                                                                                                                                                           | 5                                                             | Unlimited                                                                                                                                                                            |
| Centralized                                       | Management                                                                                                                                                                                                                                                                                                                                                  | Yes                                                           | Yes                                                                                                                                                                                  |
| Architectur                                       | e                                                                                                                                                                                                                                                                                                                                                           | Multi-server                                                  | Multi-server                                                                                                                                                                         |
| Clients                                           |                                                                                                                                                                                                                                                                                                                                                             | SSM console, Configuration                                    | SSM console, Configuration                                                                                                                                                           |
| circinco                                          |                                                                                                                                                                                                                                                                                                                                                             | manager, SSM Mobile                                           | manager, SSM Mobile                                                                                                                                                                  |
| Supported                                         | Devices                                                                                                                                                                                                                                                                                                                                                     | Network Camera / Encoder /<br>Decoder, DVR / NVR              | Network Camera / Encoder ,<br>Decoder, DVR / NVR                                                                                                                                     |
| SUMMARY                                           | -                                                                                                                                                                                                                                                                                                                                                           | Decodel, DVK/ NVK                                             | Decoder, DVR/ NVR                                                                                                                                                                    |
| Basic                                             | System Manager                                                                                                                                                                                                                                                                                                                                              | Yes                                                           | Yes                                                                                                                                                                                  |
|                                                   | Media Gateway                                                                                                                                                                                                                                                                                                                                               | Yes                                                           | Yes                                                                                                                                                                                  |
|                                                   | Recording Server                                                                                                                                                                                                                                                                                                                                            | Yes                                                           | Yes                                                                                                                                                                                  |
|                                                   | Screen Mirroring                                                                                                                                                                                                                                                                                                                                            |                                                               | Yes                                                                                                                                                                                  |
| Add-on                                            | Virtual Matrix                                                                                                                                                                                                                                                                                                                                              | -                                                             | Yes                                                                                                                                                                                  |
|                                                   | Tranaction Server                                                                                                                                                                                                                                                                                                                                           | -                                                             | Yes                                                                                                                                                                                  |
|                                                   | Transcoder                                                                                                                                                                                                                                                                                                                                                  | -                                                             | Yes                                                                                                                                                                                  |
|                                                   | Failover Server                                                                                                                                                                                                                                                                                                                                             | -                                                             | Yes                                                                                                                                                                                  |
|                                                   | Live Monitoring                                                                                                                                                                                                                                                                                                                                             | Yes                                                           | Yes                                                                                                                                                                                  |
|                                                   | Search Playback                                                                                                                                                                                                                                                                                                                                             | Yes                                                           | Yes                                                                                                                                                                                  |
|                                                   | Event Monitoring                                                                                                                                                                                                                                                                                                                                            | Yes                                                           | Yes                                                                                                                                                                                  |
|                                                   | Map Monitoring                                                                                                                                                                                                                                                                                                                                              | Yes                                                           | Yes                                                                                                                                                                                  |
|                                                   | POS/ATM Monitoring                                                                                                                                                                                                                                                                                                                                          | Yes                                                           | Yes                                                                                                                                                                                  |
|                                                   | Wall Management                                                                                                                                                                                                                                                                                                                                             | -                                                             | Yes                                                                                                                                                                                  |
| eatures                                           | Google Map Monitoring                                                                                                                                                                                                                                                                                                                                       | -                                                             | Yes                                                                                                                                                                                  |
|                                                   | Video analytics Monitoring                                                                                                                                                                                                                                                                                                                                  | -                                                             | Yes                                                                                                                                                                                  |
|                                                   | Advanced Health Monitoring                                                                                                                                                                                                                                                                                                                                  | -                                                             | Yes                                                                                                                                                                                  |
|                                                   | Access Control Monitoring                                                                                                                                                                                                                                                                                                                                   | -                                                             | Yes                                                                                                                                                                                  |
|                                                   | Video Summary Search                                                                                                                                                                                                                                                                                                                                        | -                                                             | Yes                                                                                                                                                                                  |
|                                                   | Active Directory Integration                                                                                                                                                                                                                                                                                                                                | -                                                             | Yes                                                                                                                                                                                  |
| OMPONE                                            | Site Federation                                                                                                                                                                                                                                                                                                                                             | -                                                             | Yes                                                                                                                                                                                  |
| COMPONE                                           | N I<br>Max. Media                                                                                                                                                                                                                                                                                                                                           |                                                               |                                                                                                                                                                                      |
|                                                   | Gateway's                                                                                                                                                                                                                                                                                                                                                   | 4                                                             | Unlimited                                                                                                                                                                            |
| Media                                             | Max. Bandwidth                                                                                                                                                                                                                                                                                                                                              | 400 / 600 Mb                                                  | 400 / 600 / har *                                                                                                                                                                    |
| Gateway                                           | (In / Out)                                                                                                                                                                                                                                                                                                                                                  | 400 / 600Mbps                                                 | 400 / 600Mbps *                                                                                                                                                                      |
|                                                   | Max. Devices                                                                                                                                                                                                                                                                                                                                                | 128 network cameras or 288                                    | 128 network cameras or 288                                                                                                                                                           |
|                                                   | per Server                                                                                                                                                                                                                                                                                                                                                  | cameras of recorder                                           | cameras of recorder *                                                                                                                                                                |
|                                                   | Max. Cameras<br>Recording                                                                                                                                                                                                                                                                                                                                   | 128                                                           | 128                                                                                                                                                                                  |
|                                                   | Performance                                                                                                                                                                                                                                                                                                                                                 | 400Mbps                                                       | 400Mbps *                                                                                                                                                                            |
|                                                   | Playback                                                                                                                                                                                                                                                                                                                                                    | 100Mbps                                                       | 100Mbps                                                                                                                                                                              |
|                                                   | Performance                                                                                                                                                                                                                                                                                                                                                 | Manual, Continuous,                                           | Manual, Continuous,                                                                                                                                                                  |
| Recording<br>Server                               | Mode                                                                                                                                                                                                                                                                                                                                                        | Event (Pre / Post), Schedule                                  | Event (Pre / Post), Schedule                                                                                                                                                         |
| Server                                            | Auto Recovery                                                                                                                                                                                                                                                                                                                                               | Yes                                                           | Yes                                                                                                                                                                                  |
|                                                   | Backup                                                                                                                                                                                                                                                                                                                                                      | 100                                                           |                                                                                                                                                                                      |
|                                                   | Video Summary<br>Event Boostup                                                                                                                                                                                                                                                                                                                              | -                                                             | Yes                                                                                                                                                                                  |
|                                                   | Recording                                                                                                                                                                                                                                                                                                                                                   | Yes                                                           | Yes                                                                                                                                                                                  |
|                                                   | ONVIF Protocol                                                                                                                                                                                                                                                                                                                                              | Profile S (except SSM-RS00L)                                  | Profile S (except SSM-RS00L)                                                                                                                                                         |
|                                                   | PC screen Streaming                                                                                                                                                                                                                                                                                                                                         | Yes                                                           | Yes                                                                                                                                                                                  |
| Screen                                            | for recording                                                                                                                                                                                                                                                                                                                                               |                                                               |                                                                                                                                                                                      |
| Virroring                                         | Max. monitors                                                                                                                                                                                                                                                                                                                                               | 4                                                             | 4                                                                                                                                                                                    |
| moning                                            | Max. Streaming                                                                                                                                                                                                                                                                                                                                              | 5                                                             | 5                                                                                                                                                                                    |
|                                                   | Frame rate                                                                                                                                                                                                                                                                                                                                                  | Up to 30fps                                                   | Up to 30fps                                                                                                                                                                          |
|                                                   | Max. Monitors                                                                                                                                                                                                                                                                                                                                               | -                                                             | 48                                                                                                                                                                                   |
|                                                   | Modules                                                                                                                                                                                                                                                                                                                                                     | -                                                             | VM manager, VM Gateway,<br>VM decoder                                                                                                                                                |
|                                                   | Sequence                                                                                                                                                                                                                                                                                                                                                    |                                                               |                                                                                                                                                                                      |
| Virtual                                           | Monitoring                                                                                                                                                                                                                                                                                                                                                  | -                                                             | Yes                                                                                                                                                                                  |
|                                                   | Event Monitoring                                                                                                                                                                                                                                                                                                                                            | -                                                             | Yes                                                                                                                                                                                  |
| Vlatrix                                           |                                                                                                                                                                                                                                                                                                                                                             |                                                               |                                                                                                                                                                                      |
| Matrix                                            | Map Monitoring                                                                                                                                                                                                                                                                                                                                              | -                                                             | Yes                                                                                                                                                                                  |
| Vlatrix                                           | Map Monitoring<br>Playback on Wall                                                                                                                                                                                                                                                                                                                          | -                                                             | Yes                                                                                                                                                                                  |
| Vlatrix                                           | Map Monitoring<br>Playback on Wall<br>Monitor                                                                                                                                                                                                                                                                                                               | -                                                             | Yes                                                                                                                                                                                  |
| Vlatrix                                           | Map Monitoring<br>Playback on Wall<br>Monitor<br>Screen Merge                                                                                                                                                                                                                                                                                               | -                                                             | Yes<br>Yes                                                                                                                                                                           |
| Vlatrix                                           | Map Monitoring<br>Playback on Wall<br>Monitor                                                                                                                                                                                                                                                                                                               | -<br>-<br>-<br>-                                              | Yes<br>Yes<br>Samsung, Honeywell, JCI,                                                                                                                                               |
|                                                   | Map Monitoring<br>Playback on Wall<br>Monitor<br>Screen Merge<br>Access Control                                                                                                                                                                                                                                                                             | -                                                             | Yes<br>Yes<br>Samsung, Honeywell, JCI,<br>Gallagher, Siemens                                                                                                                         |
| Transaction                                       | Map Monitoring<br>Playback on Wall<br>Monitor<br>Screen Merge<br>Access Control<br>Intrusion<br>Detection                                                                                                                                                                                                                                                   | -                                                             | Yes<br>Yes<br>Samsung, Honeywell, JCI,<br>Gallagher, Siemens<br>Bosch, Honeywell                                                                                                     |
| ransaction                                        | Map Monitoring<br>Playback on Wall<br>Monitor<br>Screen Merge<br>Access Control<br>Intrusion<br>Detection<br>Intercom                                                                                                                                                                                                                                       | -                                                             | Yes<br>Yes<br>Samsung, Honeywell, JCl,<br>Gallagher, Siemens<br>Bosch, Honeywell<br>Samsung, Stentofon                                                                               |
| ransaction                                        | Map Monitoring<br>Playback on Wall<br>Monitor<br>Screen Merge<br>Access Control<br>Intrusion<br>Detection<br>Intercom<br>Video analytics                                                                                                                                                                                                                    | -                                                             | Yes<br>Yes<br>Samsung, Honeywell, JCl,<br>Gallagher, Siemens<br>Bosch, Honeywell<br>Samsung, Stentofon<br>Agent Vi                                                                   |
| ransaction                                        | Map Monitoring<br>Playback on Wall<br>Monitor<br>Screen Merge<br>Access Control<br>Intrusion<br>Detection<br>Intercom<br>Video analytics<br>Playback transcoding                                                                                                                                                                                            | -                                                             | Yes<br>Yes<br>Samsung, Honeywell, JCl,<br>Gallagher, Siemens<br>Bosch, Honeywell<br>Samsung, Stentofon                                                                               |
| Transaction                                       | Map Monitoring<br>Playback on Wall<br>Monitor<br>Screen Merge<br>Access Control<br>Intrusion<br>Detection<br>Intercom<br>Video analytics<br>Playback transcoding<br>Max. Input                                                                                                                                                                              | -                                                             | Yes<br>Yes<br>Samsung, Honeywell, JCl,<br>Gallagher, Siemens<br>Bosch, Honeywell<br>Samsung, Stentofon<br>Agent Vi                                                                   |
| Transaction<br>Server                             | Map Monitoring<br>Playback on Wall<br>Monitor<br>Screen Merge<br>Access Control<br>Intrusion<br>Detection<br>Intercom<br>Video analytics<br>Playback transcoding<br>Max. Input<br>Resolution                                                                                                                                                                |                                                               | Yes<br>Samsung, Honeywell, JCI,<br>Gallagher, Siemens<br>Bosch, Honeywell<br>Samsung, Stentofon<br>Agent Vi<br>For console and Mobile<br>SM                                          |
| Fransaction<br>Server                             | Map Monitoring<br>Playback on Wall<br>Monitor<br>Screen Merge<br>Access Control<br>Intrusion<br>Detection<br>Intercom<br>Video analytics<br>Playback transcoding<br>Max. Input                                                                                                                                                                              |                                                               | Yes<br>Samsung, Honeywell, JCl,<br>Gallagher, Siemens<br>Bosch, Honeywell<br>Samsung, Stentofon<br>Agent Vi<br>For console and Mobile                                                |
| Fransaction<br>Server                             | Map Monitoring<br>Playback on Wall<br>Monitor<br>Screen Merge<br>Access Control<br>Intrusion<br>Detection<br>Intercom<br>Video analytics<br>Playback transcoding<br>Max. Input<br>Resolution<br>Max. Transcoding<br>Max. Transcoding                                                                                                                        |                                                               | Yes<br>Yes<br>Samsung, Honeywell, JCl,<br>Gallagher, Siemens<br>Bosch, Honeywell<br>Samsung, Stentofon<br>Agent Vi<br>For console and Mobile<br>5M<br>D1                             |
| Transaction<br>Server                             | Map Monitoring<br>Playback on Wall<br>Monitor<br>Screen Merge<br>Access Control<br>Intrusion<br>Detection<br>Intercom<br>Video analytics<br>Playback transcoding<br>Max. Input<br>Resolution<br>Max. Output<br>Resolution<br>Max. Transcoding<br>Channels                                                                                                   |                                                               | Yes<br>Samsung, Honeywell, JCI,<br>Gallagher, Siemens<br>Bosch, Honeywell<br>Samsung, Stentofon<br>Agent Vi<br>For console and Mobile<br>SM                                          |
| Fransaction<br>Server                             | Map Monitoring<br>Playback on Wall<br>Monitor<br>Screen Merge<br>Access Control<br>Intrusion<br>Detection<br>Intercom<br>Video analytics<br>Playback transcoding<br>Max. Input<br>Resolution<br>Max. Output<br>Resolution<br>Max. Transcoding<br>Channels<br>Max. Site                                                                                      |                                                               | Yes<br>Yes<br>Samsung, Honeywell, JCl,<br>Gallagher, Siemens<br>Bosch, Honeywell<br>Samsung, Stentofon<br>Agent Vi<br>For console and Mobile<br>5M<br>D1                             |
| Transaction<br>Server<br>Transcoder<br>Federation | Map Monitoring<br>Playback on Wall<br>Monitor<br>Screen Merge<br>Access Control<br>Intrusion<br>Detection<br>Intercom<br>Video analytics<br>Playback transcoding<br>Max. Input<br>Resolution<br>Max. Output<br>Resolution<br>Max. Transcoding<br>Channels<br>Max. Site<br>Hierarchy Level                                                                   | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-      | Yes   Yes   Samsung, Honeywell, JCI,<br>Gallagher, Siemens   Bosch, Honeywell   Samsung, Stentofon   Agent Vi   For console and Mobile   5M   D1   10   4*                           |
| Transaction<br>Server<br>Transcoder               | Map Monitoring<br>Playback on Wall<br>Monitor<br>Screen Merge<br>Access Control<br>Intrusion<br>Detection<br>Intercom<br>Video analytics<br>Playback transcoding<br>Max. Input<br>Resolution<br>Max. Transcoding<br>Channels<br>Max. Site<br>Hierarchy Level<br>Max. Sites                                                                                  | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | Yes   Yes   Samsung, Honeywell, JCI,<br>Gallagher, Siemens   Bosch, Honeywell   Samsung, Stentofon   Agent Vi   For console and Mobile   5M   D1   10   4*   25*                     |
| Fransaction<br>Server<br>Franscoder<br>Federation | Map Monitoring<br>Playback on Wall<br>Monitor<br>Screen Merge<br>Access Control<br>Intrusion<br>Detection<br>Intercom<br>Video analytics<br>Playback transcoding<br>Max. Input<br>Resolution<br>Max. Output<br>Resolution<br>Max. Transcoding<br>Channels<br>Max. Site<br>Hierarchy Level<br>Max. Site<br>Hierarchy Level<br>Max. Sites<br>Cameras per Site | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | Yes<br>Yes<br>Samsung, Honeywell, JCl,<br>Gallagher, Siemens<br>Bosch, Honeywell<br>Samsung, Stentofon<br>Agent Vi<br>For console and Mobile<br>5M<br>D1<br>10<br>4*<br>25*<br>288 * |
| Fransaction<br>Server                             | Map Monitoring<br>Playback on Wall<br>Monitor<br>Screen Merge<br>Access Control<br>Intrusion<br>Detection<br>Intercom<br>Video analytics<br>Playback transcoding<br>Max. Input<br>Resolution<br>Max. Output<br>Resolution<br>Max. Transcoding<br>Channels<br>Max. Site<br>Hierarchy Level<br>Max. Site<br>Hierarchy Level<br>Max. Sites<br>Cameras per Site | -<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>- | Yes   Yes   Samsung, Honeywell, JCI,<br>Gallagher, Siemens   Bosch, Honeywell   Samsung, Stentofon   Agent Vi   For console and Mobile   5M   D1   10   4*   25*                     |

SSM Professional / Enterprise

Enterprise

Professiona

Data Security Device Discovery Auto / Manual Auto/Manual Device name Syncronization | Server, Recorder to SSN Server, Recorder to SSM System Edits/mutli-Device Names Yes Management Server Setup File Import/Export Yes Device Firmware Update Yes Device Access Authority Setup Yes User Feature Level Authority Setup Yes Management LDAP Integration Yes Event Priority Setup From 1 to 10 with color From 1 to 10 with color Event External Event Integration Yes Yes Management Rule Based Event Action Setup Yes Yes Real-time System Monitoring Yes System System Status Summary Dashboard Detailed System Status System Status Summary Yes Yes Event Statistics Graph OPERATION Live, Search, Event Live Search, Event, Google Map, Plug-in Viewers Multi-Monitor Up to 4 Up to 4 Video Decoding Via GPU Nvidia CUDA processor Nvidia CUDA processor System Health Monitoring Yes Yes General Screen lock Yes Yes Multicast 
 Auto bandwidth control
 Changes camera profile, I-frame mode and deblocking by split Format automatically

 System Controller Integration
 SPC-2000, SPC-7000
 Changes camera profile, I-frame mode and deblocking by split Format automatically SPC-2000, SPC-7000, Axis T8310 Number of Channels for Live 100CH 100CH Sequence Monitoring Yes Yes Pre Defined Layout Yes Yes User Favorite Layout Yes Yes PTZ Control Yes PTZ Area Zoom Yes Yes Digital Zoom Yes Single, quad, panoramic Fisheye Camera View Single, quad, panorami Live Two-way Audio Monitoring Audio Broadcasting Yes Yes Manual Recording Local PC, Recorder Local PC, Recorder Playback on Live Yes Yes Video Adjustment Brightness, Contrast Brightness, Contrast Video Enhancing Deintelace, Flip, Defog Deintelace, Flip, Defog Manual alarm out control Yes Export/Print Image Yes Yes Video Wall Control Yes Live event list Yes Yes Event Thumbnail Image on Live Yes Yes Event Acknowledge Normal, abnormal, etc with note Normal, abnormal, etc with note Instant Viewer Event Instant Player Yes Monitoring Event Search Yes Event Sequential Playback Yes Yes Rule Based Event Setup Yes Yes Event Handling History Yes Yes Event Report Number of Channels for Plavback Yes Yes Date/Time Search Yes PDF file with chart and graph Event Search PDF file with chart and graph Local Folder Search Yes Yes Bookmark Search Yes Yes Smart Search Yes Video Summarv Yes Search & Heat-Map (for NVR) Yes Yes Playback Motion Search (for DVR) Yes Yes Multi Channel Time Line Yes with color variaion per recording Type Yes with color variaion per recording Type Synchronous Playback Yes Yes SEC, AVI Export Video/Image SEC, AVI Yes(Backup for SSM, Yes(Backup for SSM 2 Men Rule Search&Backup for NVR) Search&Backup for NVR) Scheduled backup, Masking backup, Scheduled backup, Masking backup Backup Onetime schedule backup Onetime schedule backup 2D/3D image Map Monitoring Yes Number of layout Format for Map | 1 O Map link on Map Yes Yes Monitoring SetCoordinates for 2D map Yes Yes Export Image Capture, Print Capture, Print Google Map Monitoring Yes leasure Distance on Google Map Yes PoS Recept Display on Live Yes Yes PoS PoS instant Viewer Yes Yes integration PoS Search Yes Yes ETC Customizable Plug-in Yes

Professional

with NTP or a server component

CONFIGURATION & MAINTENANCE

Time sync

General

SetupFile Backup/Restore Yes

Login Fail Time Limitation Yes

Enterprise

with NTP or a server component

\* Design and specifications are subject to change without notice.

\* The lastest product information / specification can be found at hanwha-security.com

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## WISENET SAMSUNG

\* The lastest product information / specification can be found at hanwha-security.com \* Design and specifications are subject to change without notice.

SSM Virtual Matrix

(Video Wall Display Solution)

SSM-VM10L/20L

SSM-TS10L

SSM Transaction Server (3<sup>rd</sup> party System Integration Solution)

Access Control

System

Supp

Syste

| Key Features |
|--------------|
|--------------|

• 3<sup>rd</sup> Party System Such as Access Control System, Intrusion Detection System and Video analytics can be Integrated with SSM by Transaction Server

Access Event

- Provides Event Popup with Personal Information of a Person who Passed a Gate on Map
- •Translated Events Can be Used as Event Action Setup that Can Meet on Various End-User Requirements
  - Supp Even

INTERCOM

- Syste Supp
- Even
- Supp
- Syste
- Supp Even
- MISC

Syster Requi

## **Key Features**

- 3 models from 16 to 48 monitors
- · Consists of gateway, Decoder and manager
- Provides various live monitoring mode :
- Wall layout, wall / monitor sequence and map monitoring
- Screens of multi monitors can be merged like one monitor • Event spot per wall, Monitor and tile makes operators to focus only on event occurred live video

Video Wall

|                               |                           | SSM-VM10L                                                                                             | SSM-VM20L  | SSM-VM00L        |
|-------------------------------|---------------------------|-------------------------------------------------------------------------------------------------------|------------|------------------|
| GENERAL                       |                           |                                                                                                       |            |                  |
| Max. Number of Monitors       |                           | 16                                                                                                    | 36         | 48 (H/W decoder) |
| Modules                       |                           | VM manager, VM gateway, VM decoder                                                                    |            |                  |
| Control Interfa               | ce                        | SSM console, VM man                                                                                   | ager       |                  |
| FEATURES                      |                           |                                                                                                       |            |                  |
|                               | Wall Layout               | Upto 8 x 8 split mode                                                                                 |            |                  |
|                               | Wall Sequence             | Yes                                                                                                   |            |                  |
|                               | Monitor Sequence          | Yes                                                                                                   |            |                  |
| Live<br>Monitoring            | Map Monitoring            | Yes                                                                                                   |            | -                |
| monitoring                    | Screen Merge              | Yes                                                                                                   |            | -                |
|                               | Auto Profile<br>Change    | Yes                                                                                                   |            | -                |
|                               | Wall Spot                 | Yes                                                                                                   |            | -                |
| Event<br>Monitoring           | Monitor Spot              | Yes                                                                                                   |            | -                |
| Monitoring                    | Tile Spot                 | Yes                                                                                                   |            | -                |
| Playback                      | Video Playback<br>on Wall | Yes                                                                                                   |            | -                |
| MISC.                         |                           |                                                                                                       |            |                  |
| Data Security                 |                           | SSL                                                                                                   |            |                  |
| 3 <sup>rd</sup> Party IP Vide | eo Wall Integration       | Leadtech                                                                                              |            |                  |
| System<br>Requirements        | Recommended               | CPU Intel Core i7-4770@3.40GHz,<br>RAM 8GB, 10GB HDD, NVIDIA GTX760,<br>Video memroy 2GB, DirectX 9.0 |            | -                |
|                               | Operating System          | Windows 7, Windows<br>VMG : Windows Server<br>Windows Server 2012                                     | r 2008 R2, | -                |

\* The lastest product information / specification can be found at hanwha-security.com \* Design and specifications are subject to change without notice.

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| Supported           | Access Control                 | Samsung, Honeywell, JCI, Gallagher, Siemens                                                                                                                                                                                                                                                                                             |
|---------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     | Intrusion Detection            | Bosch, Honeywell                                                                                                                                                                                                                                                                                                                        |
| System              | Intercom                       | Samsung, Stentofon                                                                                                                                                                                                                                                                                                                      |
|                     | Video analytics                | Agent Vi                                                                                                                                                                                                                                                                                                                                |
| ACCESS CO           | NTROL                          |                                                                                                                                                                                                                                                                                                                                         |
|                     | Samsung SAMS                   | 21 events                                                                                                                                                                                                                                                                                                                               |
| Supported<br>System | Honeywell Pro3000 /<br>Pro3200 | 13 events                                                                                                                                                                                                                                                                                                                               |
|                     | JCI-P2000                      | 15 events                                                                                                                                                                                                                                                                                                                               |
|                     | Gallagher CCFT                 | 7 events                                                                                                                                                                                                                                                                                                                                |
|                     | Siemens Sipass                 | 12 events                                                                                                                                                                                                                                                                                                                               |
| Supported<br>Event  | Controller                     | INPUT_SIGNAL_OCCURRED / INPUT_SIGNAL_OCCURRED, INPUT_<br>SIGNAL_RELEASED / SYSTEM_SETUP_MODE / INPUT_DISCONNECTED                                                                                                                                                                                                                       |
|                     | Door                           | ACCESS_GRANTED / ACCESS_DENIED / INVALID_TIME_SCHEDULE /<br>ANTIPASS_BACK_ENTRY / ANTIPASS_BACK_EXIT / INVALID_<br>PASSWORD / ACCESS_DOOR_ERROR / BIOMETRIC_ERROR / DURESS_<br>ALARM / ARM / DISARM / OVERTIME_DOOR_OPENED / OVERTIME_<br>DOOR_CLOSED / FORCED_DOOR_OPENED / 2MEN_TIME / ACCESS_<br>TRIAL_WHITE_ARMED / IO_STAUS_CHANGE |

### INTRUSION DETECTION

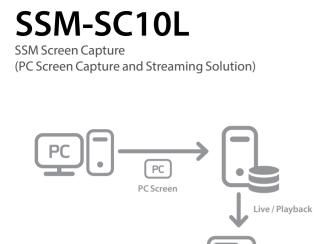
| Supported          | Bosch IP7400       | 1 event        |
|--------------------|--------------------|----------------|
| System             | Honeywell VISTA128 | 1 event        |
| Supported<br>Event | Detector           | BURGLARY_ALARM |
| INTERCOM           |                    |                |

| Supported<br>System | Samsung SAMS  | 6 events                                                                                                                   |
|---------------------|---------------|----------------------------------------------------------------------------------------------------------------------------|
|                     | Stentofon XE1 | 6 events                                                                                                                   |
| Supported<br>Event  | Intercom      | STNT_STATION_BUSY/STNT_STATION_FREE/STNT_STATION_<br>CONNECT/STNT_STATION_DISCONNECT/STNT_CALL_REQUEST/<br>IO_STAUS_CHANGE |

#### VIDEO ANALYTICS

| oported<br>tem | Agent Vi         | 9 events                                                                                                                                                         |
|----------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| oported<br>ent | Camera           | ASSET_PROTECTION / CAMERA_TAMPERING / CROWN_DETECTION /<br>LOITERING / OCCUPANCY / STOPPED_VEHICLE / SUSPICIOUS_OBJECT<br>/ THERMAL_CAMERA / VEHICLE_TAILGATIONG |
| SC.            |                  |                                                                                                                                                                  |
| em             | Recommended      | CPU Intel Core i7-4770@3.40GHz,<br>RAM 8GB, 20 GB HDD(SSD is recommended)                                                                                        |
| uirements      | Operating System | Windows 7, Windows 8/8.1, Windows 10, Windows Server 2008 R2,<br>Windows Server 2012 R2                                                                          |

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|             |                    | SSM-SC10L                                      |
|-------------|--------------------|------------------------------------------------|
| FEATURES    |                    |                                                |
| Video       | Max. Resolution    | 2560 x 1600                                    |
| Source      | Source             | PC monitor screen                              |
|             | Protocol           | IPCAM2                                         |
|             | Video Codec        | H.264, MJPEG                                   |
|             | Audio Codec        | G.711                                          |
| Video       | Max. Output stream | 5                                              |
| Stream      |                    | NVidia : GTX-650 series, 340.33 driver         |
|             | HW Acceleration    | Intel : HD 2000                                |
|             | (H.264)            | AMD VGA : Radeon HD 7700, R7 250, R9 270       |
|             |                    | (Single monitor is needed for AMD)             |
| MISC.       |                    |                                                |
| Language    |                    | English, Korean                                |
|             |                    | CPU Intel Core i7-4770@3.40GHz,                |
|             | Recommended        | RAM 8GB, 10GB HDD, NVIDIA GTX760,              |
| System      |                    | Video memroy 2GB, DirectX 9.0                  |
| Requirement |                    | Windows 7, Windows 8/8.1, Windows 10           |
|             | Operating System   | Windows Server 2008 R2, Windows Server 2012 R2 |

### **Key Features**

Captures PC screen and make Video Stream

• The Video Stream acts same as a camera so it can be displayed

on SSM console or recorded in Recording Server

Supports max. 2560 x 1600 Resolution

• Supports H.264 and MJPEG

Supports max.5 Output streams

\* The lastest product information / specification can be found at hanwha-security.com \* Design and specifications are subject to change without notice.

Preliminary version

SSM-TC10L SSMTranscoder

(Video Transcoding Solution for Mobile Users)

## Supp Vide FEAT Vide Inpu low Resolutio

Recording

Phone

#### **Key Features**

Server

• Transcoder is for Mobile users in Bandwidth Limited

Environment

• Transcoder Runs in Media Gateway and Activated by Additional

Transcoder

License

• Supports H.264, MPEG-4, MJPEG

• Max. 10 Streams Can be Transcoded

Max. D1 Resolution for Transcoded Output Stream

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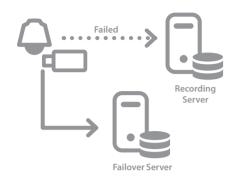
NETWORK PERIPHERAL

## SSM-TC10L

| GENERAL          |               |                                                                       |
|------------------|---------------|-----------------------------------------------------------------------|
| Supported Client |               | SSM Mobile                                                            |
| Video Source     |               | Recorded Video Data for Playback                                      |
| FEATURE          | S             |                                                                       |
| Video<br>Input   | Max. Channels | 10                                                                    |
|                  | Codec         | Input : H.264, MJPEG, MPEG-4                                          |
|                  | Resolution    | 5M                                                                    |
| Video<br>Output  | Codec         | H.264 High Profile at 50 GoP size                                     |
|                  | Codec         | 20fps@D1<br>25fps@CIF<br>30fps@QCIF                                   |
|                  | Codec Misc.   | Entropy Coding Type : CAVLC<br>Deblocking : ON<br>Bit rate Type : VBR |

\* The lastest product information / specification can be found at hanwha-security.com \* Design and specifications are subject to change without notice.

## SSM-HA SSM Failover Server (System Faliover Solution for SSM Components)



|                       |                     | SSM-HA                                                           |
|-----------------------|---------------------|------------------------------------------------------------------|
| GENERAL               |                     |                                                                  |
| Failover Architecture |                     | Active (Target) - Standby, N + M Redundancy                      |
| Target Serv           | ers                 | Recording Server, Media Gateway, Video Matrix Gateway            |
| Max. Target Server    |                     | Unlimited                                                        |
| Configure Interface   |                     | IE 9, FireFox 12, Safari 5.1, Chrome 18                          |
| FEATURES              |                     |                                                                  |
| Standby               | Failover            | Thru Heartbeat Check                                             |
| Server                | Heartbeat           | 1 second                                                         |
| e                     | IP Address          | Yes                                                              |
| Standby<br>Server     | Data Recovery on RS | Yes                                                              |
| Jeivei                | Auto Failback       | Yes                                                              |
| Data                  | Auto Recovery       | Yes                                                              |
| Recovery              | Pause-Resume        | Yes                                                              |
| REQUIREM              | ENTS                |                                                                  |
| Storage Ne            | eded                | Needs More Than 2GB                                              |
| Disk limitat          | ion for RS          | 2 HDDs for the Recording and Recovery Except the OS Disk         |
| System Rec            | luirements          | Active and Standby System Spec should be Same (OS, HDD's, Ethern |

## **Key Features**

- Failover Solution for Recording Server, Media Gateway and
- Virtual Matrix Gateway
- Active and Standby Failover architecture
- Number of Target Server is not Limited
- Configuration Can be Done by any Browsers

\* The lastest product information / specification can be found at hanwha-security.com \* Design and specifications are subject to change without notice.

# SSM Mobile

SSM Mobile Viewer for Android / iOS



GENI Max. Devi Mobi FEAT

| Key Features |  |
|--------------|--|
|--------------|--|

Local / Remote Connection to SSM

- View Layout / Device List by User
- View Live Streaming Video with PTZ Control
- Supported Format : H.264, MJPEG
- Video Image Flip / Mirror, Video Image Capture
- Calendar Search / Playback / Bookmark Functions
- SSM Login for Security

Quick & Easy Access at Mobile Environment & Wi-Fi Networks

Compatible with "Dynamic Domain Naming Service" (DDNS)

Multi-Language

\* For proper monitoring with SSM Mobile on your device, the device should suffice minimum requirements. \* The lastest product information / specification can be found at hanwha-security.com \* Design and specifications are subject to change without notice.

\* The SSM Mobile Application Can be Downloaded from Google Play Store & Apple App Store.

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|                                  |                      |                                                                                                                                          | NET WORK CAN          |
|----------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
|                                  |                      | SSM Mobile                                                                                                                               | MO                    |
| GENERAL                          |                      |                                                                                                                                          | NET                   |
| Max. Video Resolution            |                      | 1920 x 1080                                                                                                                              |                       |
| Device List with Thumbnail Image |                      | Yes                                                                                                                                      |                       |
| Mobile Netw                      | work Status Display  | Yes                                                                                                                                      |                       |
| FEATURES                         |                      |                                                                                                                                          | <u>c</u>              |
|                                  | Screen-split Mode    | 1, 4, 9, 16                                                                                                                              | NVR                   |
|                                  | PTZ Control          | Yes                                                                                                                                      |                       |
|                                  | Screen Capture       | Yes                                                                                                                                      |                       |
| Live                             | Digital Zoom         | Yes                                                                                                                                      |                       |
| Monitoring                       | Camera Focus Control | Yes                                                                                                                                      |                       |
|                                  | Audio Listen         | Yes                                                                                                                                      | X N                   |
|                                  | Auto / Manual        | Yes                                                                                                                                      | NETWORK               |
|                                  | Profile Change       | 162                                                                                                                                      |                       |
|                                  | Date / Time Search   | Yes                                                                                                                                      |                       |
| Council 0                        | Event Search         | Yes                                                                                                                                      |                       |
| Search &<br>Playback             | Bookmark Search      | Yes                                                                                                                                      |                       |
|                                  | Playback Resolution  | Yes (SSM transcoder is needed)                                                                                                           | ACCESS<br>TDOI CVCTEM |
|                                  | Change               |                                                                                                                                          | CESS                  |
| MISC.                            |                      |                                                                                                                                          | AC                    |
| Language                         |                      | English, French, German, Spanish, Italian, Russian, Chinese, Japanese,                                                                   | NO                    |
|                                  |                      | Korean, Turkish, Polish, Czech, Serbian, Romanian, Portuguese, Dutch,<br>Croatian, Hungarian, Greek, Swedish, Danish, Finnish, Norwegian |                       |
|                                  |                      | croatian, nanganan, creek, sweash, banish, ninish, norwegian                                                                             |                       |

|                        |                     | Croatian, Hungarian, Greek, Swedisn, Danisn, Finnisn, Norwegian                                                                                                                                                                              |          |
|------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| System<br>Requirements | Recommended         | CPU 1.4GHz, RAM 2G, Available RAM 1G or more,<br>Network 3G, 4G (LTE), Wi-Fi                                                                                                                                                                 | AMERA    |
|                        | Operating System    | Android OS 4.4.x, 5.x, 6.x<br>iOS 7, iOS 8, iOS 9                                                                                                                                                                                            | ANALOG C |
|                        | Mobile Phone Tested | Android<br>Galaxy S3 (v4.4.4), Galaxy S5 (v4.4.2)<br>Galaxy S6 Edge (v6.0.1), Galaxy Note 4 (v5.1.1)<br>Galaxy Tab S2 10.1 (v5.0.2)<br>iOS<br>iPhone 5S (v8.4.1), iPhone 6 (v8.1.1),<br>iPhone 6S (v9.2), new iPad 3 (v7.0.4), iPad 2 (v8.3) | DVR      |