

**System Architecture**

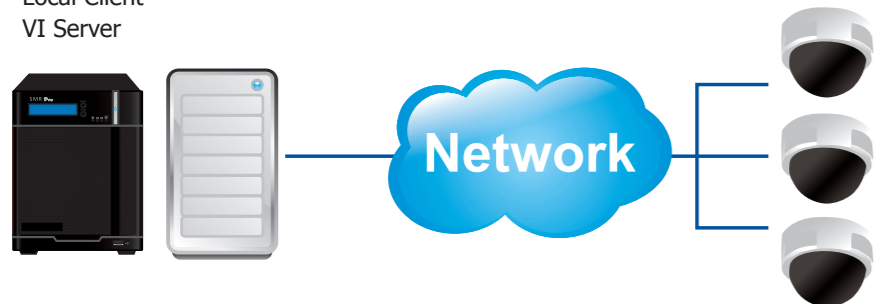
The Video Management Software (VMS) operates in scalable client - server architecture. This architecture can be divided into three types: (1) Standalone Server (2) Standalone Server + Remote Web Client (3) Multiple Servers + CMS Client.

These are the hardware requirements for using PCs as Server or Client.

Operating System	32~64 bit Windows XP or above
Hard Drive	SATA 7200 RPM, 500 GB or above
Ethernet Connection	
<b>Note:</b> Please refer to VMS User Manual for more details.	

**1 Standalone Server (Client-Server All-in-One)**

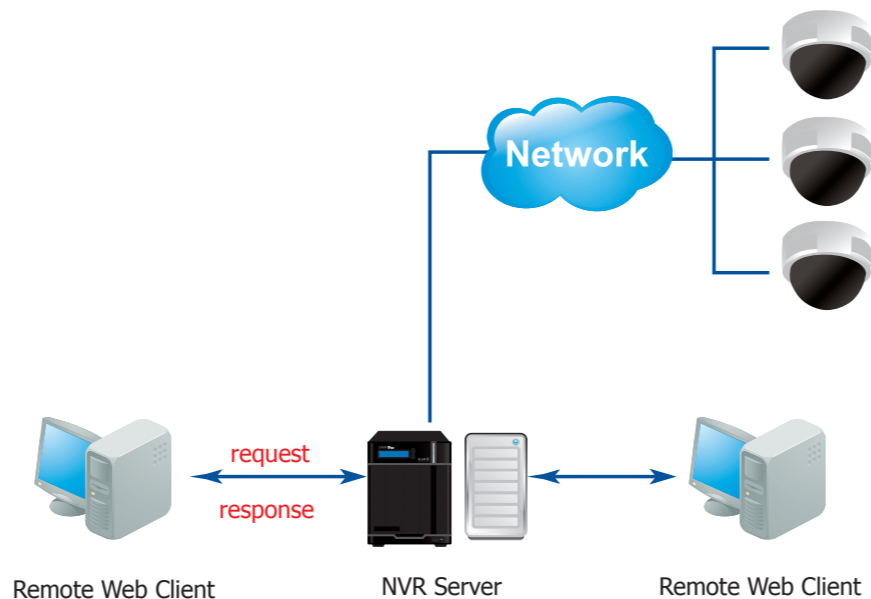
NVR Server  
Local Client  
VI Server



**Use SMR as Server**  
No installation needed.

**Use PC as Server**  
Install both the VMS/NVR Server and VMS Client on a PC:  
1. Insert the VMS/IPCAM product CD.  
2. Click **VMS Suite** on the menu to start the installation.  
3. Choose *Typical Setup*. If you don't need video analytic functions, *Advanced Setup* can be selected to uncheck the VI Server.

**2 Standalone Server + Remote Web Client**



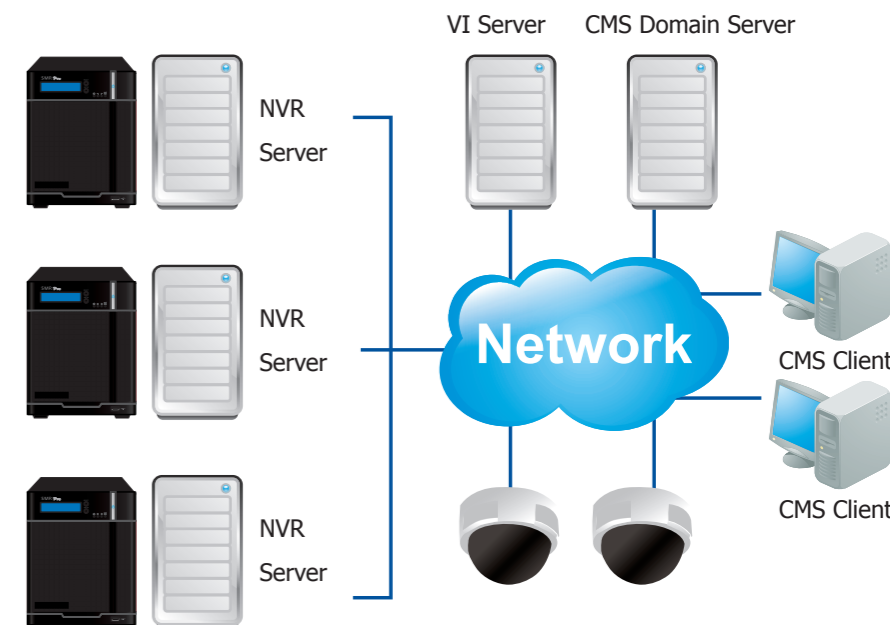
**[NVR Server]**  
Use SMR/NVR as Server.  
No installation needed.  
  
**Use PC as Server**  
Install the VMS/NVR Server on a PC:  
1. Insert the VMS/IPCAM product CD.  
2. Click **VMS Suite** on the menu to start the installation.  
3. Choose *Advanced Setup* to uncheck the VMS Client. If you don't need video analytic functions, the VI Server can also be unchecked.

Install the Web Server on the PC:  
1. Insert the VMS/IPCAM product CD.  
2. Click **Browse CD/DVD** in the menu.  
3. Double click **WebServerSetup.exe** to start the installation.

**[Client]**  
Install the VMS Client on PCs:  
1. Insert the NVR/SMR product CD.  
2. Click **VMS Client** on the menu to start the installation.  
3. Choose *Advanced Setup* to uncheck the VMS Client. If you don't need video analytic functions, the VI Server can also be unchecked.

Install the Web Client on the PCs:  
Launch Microsoft Internet Explorer 7.0 (or above) and enter your VMS Server IP address + "/webclient" in your web browser's URL location, eg. <http://172.18.6.9/webclient> to download the Web Client application.

**3 Multiple Servers + CMS Client**



**[NVR Server]**  
Use SMR/NVR as Server.  
No installation needed.  
  
**Use PC as Server**  
Install the VMS/NVR Servers on PCs:  
1. Insert the VMS/IPCAM product CD.  
2. Click **VMS Suite** on the menu to start the installation.  
3. Choose *Advanced Setup* to uncheck the VMS Client. The VI Server can also be unchecked, if you don't need video analytic functions.

**[VI Server] (Optional)**  
You can choose to install the VI Server only on a standalone PC to manage the video intelligence data.  
1. Insert the VMS/IPCAM product CD.  
2. Click **VMS Suite** on the menu to start the installation.  
3. Choose *Advanced Setup* to choose VI Server only.

**[CMS Domain Server]**  
Install the CMS Domain Server on a PC:  
1. Insert the NVR/SMR product CD  
2. Click **CMS Suite** on the menu to start the installation.  
3. Choose *Advanced Setup* to select the CMS Domain Server only.

**[CMS Client]**  
Install the CMS Client on PCs:  
1. Insert the NVR/SMR product CD.  
2. Click **CMS Suite** on the menu to start the installation.  
3. Choose *Advanced Setup* to select the CMS Client only.

**Note:**(1) Regarding CMS Domain Server and CMS Client, if you don't have Surveon SMR/NVR Series, please contact your dealer for the CMS installation file. (2)The CMS Domain Server can also be installed together with the CMS Client in the same PC by choosing *Typical Setup*.



## Basic System Settings

### 1 Logging into VMS or CMS Client

To start the software, click to **Programs > Surveon VMS Suite > VMS Client** or **Programs > Surveon CMS Suite > CMS Client** under the Windows **Start** menu. The software will prompt for the following information:

VMS/NVR: DAISYCHAN -172.18.7.91 Search

Username: admin

Password: [Redacted]

Auto Login

Login Cancel

- **VMS/NVR or CMS – The IP address for the VMS/NVR or CMS Server.** You can click Search button to obtain it.
  - **Username** – The username for the domain, **which is always admin.**
  - **Password** – The password for the domain. **Default password is admin.**
- Click **Login** after the password is entered.

Web Client

Username: [Redacted]

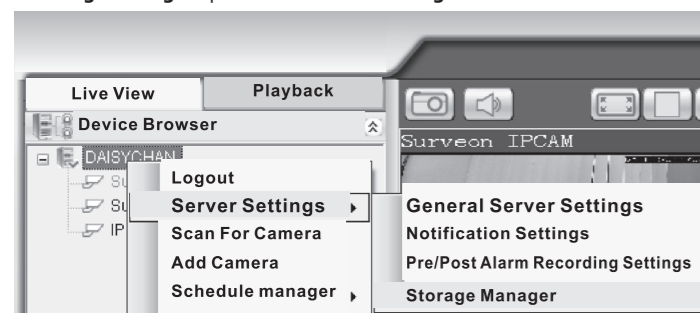
Password: [Redacted]

Language: English

Login Cancel

### 2 Storage Management

1. To access the information about the drives configured in your Server, highlight and click the **Storage Manager** option under **Server Settings**.



2. All available Logical Drives, as well as their sizes, free space, and status will appear. Click **Edit** to set the log and location for saving the video recordings.

Storage Manager

Storage Usage

Used(24.95%)113.650B Available(75%)9341m87GB

Disk Type	Logical Drive	RAID Level	Drive Stora
ATA	C	-	233
ATA	D	-	233

Advanced Settings

Disk detention, join NVR Server disk allocation.

Settings Close

(Step 3 and 4 are for the remote client of NVR2000/SMR Series.)

3. Click the target drive first and then **Settings**. In "Advanced Settings" dialogue, "General" tab, click **Check**.
4. Choose the RAID level, and then click **Create Logical Drive** to create the RAID configuration.

Advanced Settings

General IP Storage

RAID

Free Space 0 (MB)

RAID Level [Dropdown]

Create Logical Drive

Check Storage

The Check Storage tool is used to activate hot-plugged SAS/SCSI/HBA disks without requiring an NVR Server restart

Check

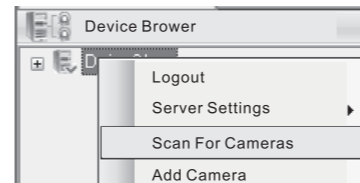
Operation may take several minutes

Current process 2%

### 3 Adding Network Cameras to the Server

Cameras can be added to the Server in two ways: via an automatic scan or by manually inputting the camera information. To begin an automatic scan for cameras:

1. Right-click the Server entry and select **Scan for Cameras**. The cameras that can be added to the Server will be displayed. To add a camera manually, select the **Add Camera** menu.



2. To add a camera to the system, check the box by the camera entry. Enter the username and password, and press **Apply Selected**. Click **OK** to add the selected cameras to the Server.

Scan for Cameras

Status: Scan Complete

Camera Name	IP Address	Username	Password	Vendor	Model	Status
<input checked="" type="checkbox"/> CAM2321	172.18.6.57	Admin	****		CAM2321	New
<input checked="" type="checkbox"/> CAM2320	172.18.6.147	Admin	****		CAM2320	New

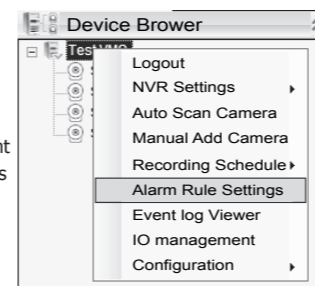
Selected Defecte All Username: admin Password: \*\*\*\* Apply Selected

IP Camera Utility OK Cancel

### 4 Alarm Rule Settings

VMS Client provides robust alarm handling features. To access these features right-click the Server entry and then highlight and click the **Alarm Rule Settings** option.

You can combine the alarm trigger conditions with action items such as event notification, video recording, and/or camera movements. Multiple alarm rules can be created using the following elements:menu.



Alarm Rule Setting

Rule	Conditions	Action	Schedule
123	Disk Error, General Motion Detection	Event log, Video Alarm Panel	.....

Rule Template Defaults Set New Delete

Conditions:

General Motion Detection Details  Missing Object Detection Details  Sensor Input Details

Foreign Object Detection Details  Tampering Detection Details  Clock Alarm Details

Forbidden Area Detection Details  Camera Motion Detection Details  Disk Error Default

Intrusion Detection Details  Video Loss Details

Action:

Event Log Default  Video Alarm Panel  E-Mail Action

Recording Controls Action  PTZ Controls Action  SMS Action

Video Popup/ E-Map Action  Alarm Sound Action  Relay Output Action

Save Close

1. **Rule:** A short description. For example, "east –fence intrusion detection" or "front entrance access control."
2. **Condition:** Specifies triggering conditions such as Motion/Video loss/Sensor input/Clock Alarm, etc.
3. **Action:** Specifies the action to take when the alarm is triggered.
4. **Schedule:** Allows the user to schedule the application of specific Alarm rules. This is useful in cases such as applying rules to non-office hours.

### Adding an Alarm Rule

1. Click the **New** button.
2. Enter a short description for the new rule in the **Add Rule** field.
3. Choose conditions and actions. Click the ..... button in the alarm field to set up a schedule for the rule.
4. To add a camera to the system, check the box by the camera entry. Enter the username and password, and press **Apply Selected**. Click **OK** to add the selected cameras to the Server.

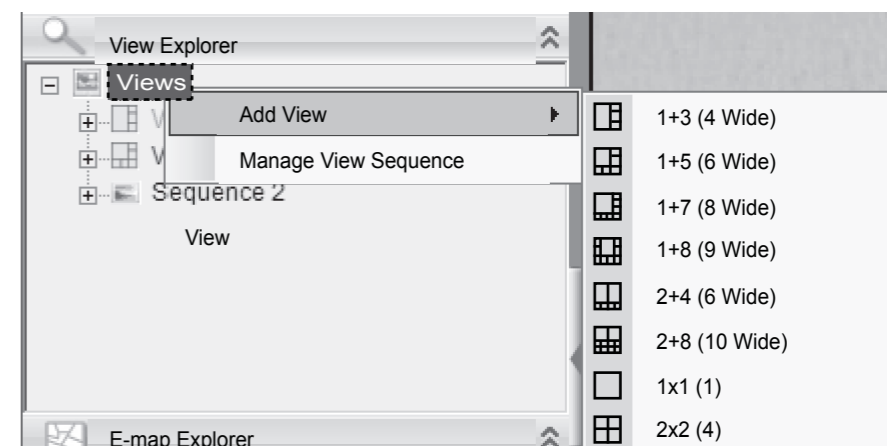
### 5 Setting up Live View

An important part of monitoring your surveillance network is to have the right views so that you will have the optimum viewing angle to discern a situation. The default view setting is 3x3.



You can also add a customized view to the VMS Client:

1. Right click on **Views > Add View** in the View Explorer window of the VMS, and choose the type of view that you wish to add. The software responds by placing a blank template in the main viewing area.



2. From the Device Browser window, you can click and drag each camera into separate frames. The camera output will be displayed in the frame.

**Note:** Dragging a camera into a frame that already has a camera assigned will cause the frame to be reassigned to the new camera.