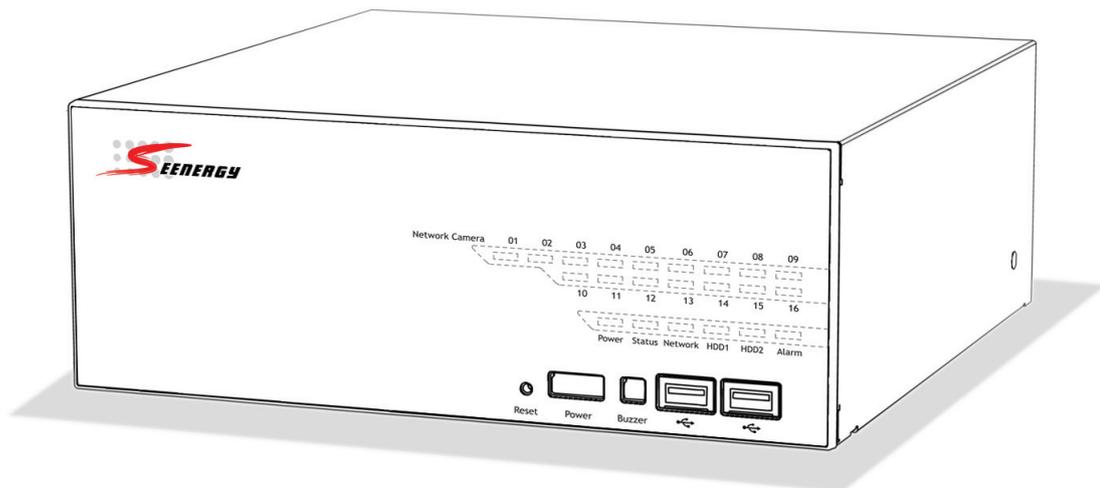


## Network Video Recorder

### Quick Installation Guide v1.5

Model: **SVR-104/108/SVR-116**



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## Purpose

This document provides information for installing SEEnergy SVR series Network Video Recorder on your network. The information included in this document should be sufficient for users to quickly setup the device and start the live video monitoring. Users should also be able to perform basic troubleshooting with information provided in this document. For all other aspects of using this product, please consult the user's manual available on the CD or download it at our corporation website at <http://www.seenergy.com.tw/download.php>

## Package Contents

- **Network Video Recorder**
- **Power cord**
- **Ethernet cable**
- **Printed Quick Installation Guide**
- **Printed Warranty Card**
- **CD with Adobe Acrobat Reader/Quick Installation Guide/User's Manual/NVR Media Player/SEEnergy Device Search Utility/Pi-Vu Central Basic CMS software**

## Install Hard Disk

Start by removing the screws on the side:



Push the top housing forward

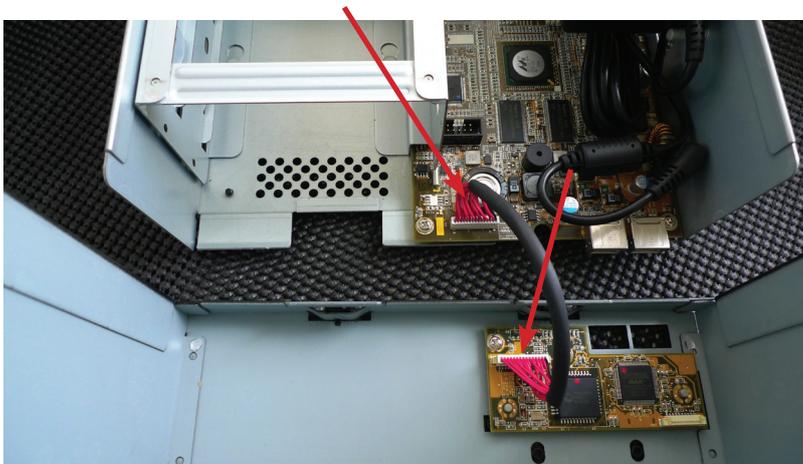


Then lift it up

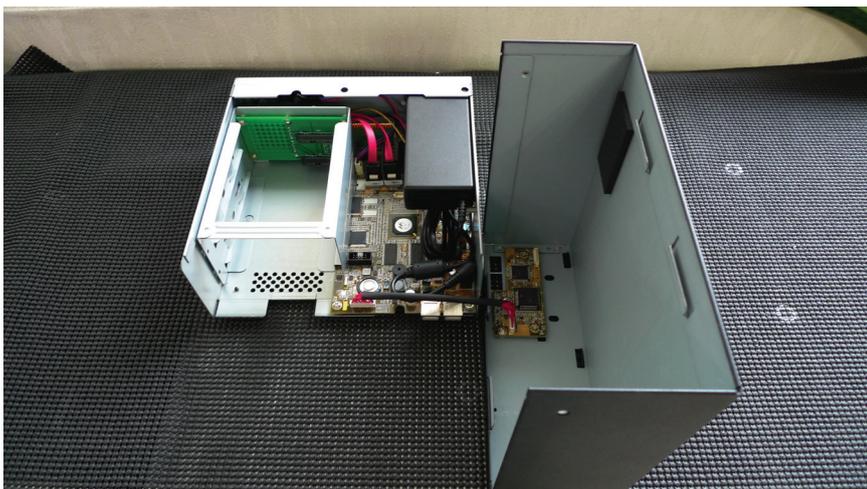


- The NVR supports SATA I or SATA II hard disks
- The NVR supports max. 1.5TB per hard disk and it supports total of 2 hard disks (3TB)

There is a cable connected between the front LED board and the main board



You can remove it from the main board or simply put the top housing on the side like shown below:



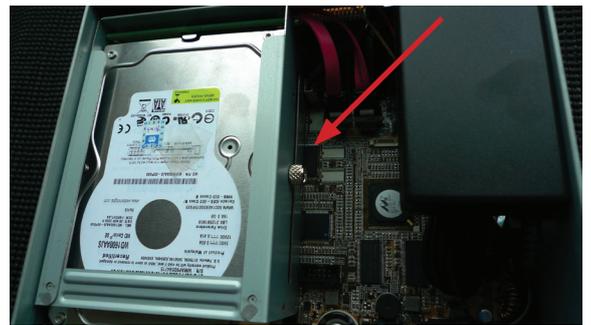
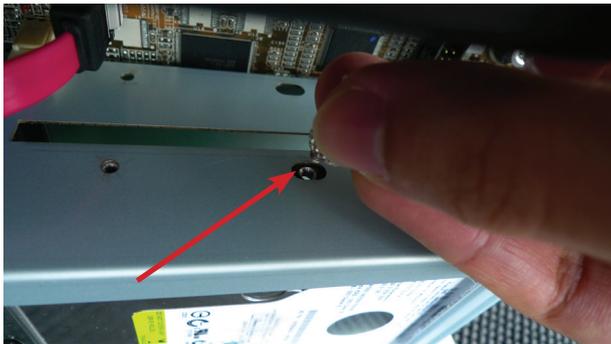
Next, slide the hard drive into the tray:



Make sure the SATA connectors are aligned with each other correctly



Secure the hard drive with the tool-less screw provided in the box

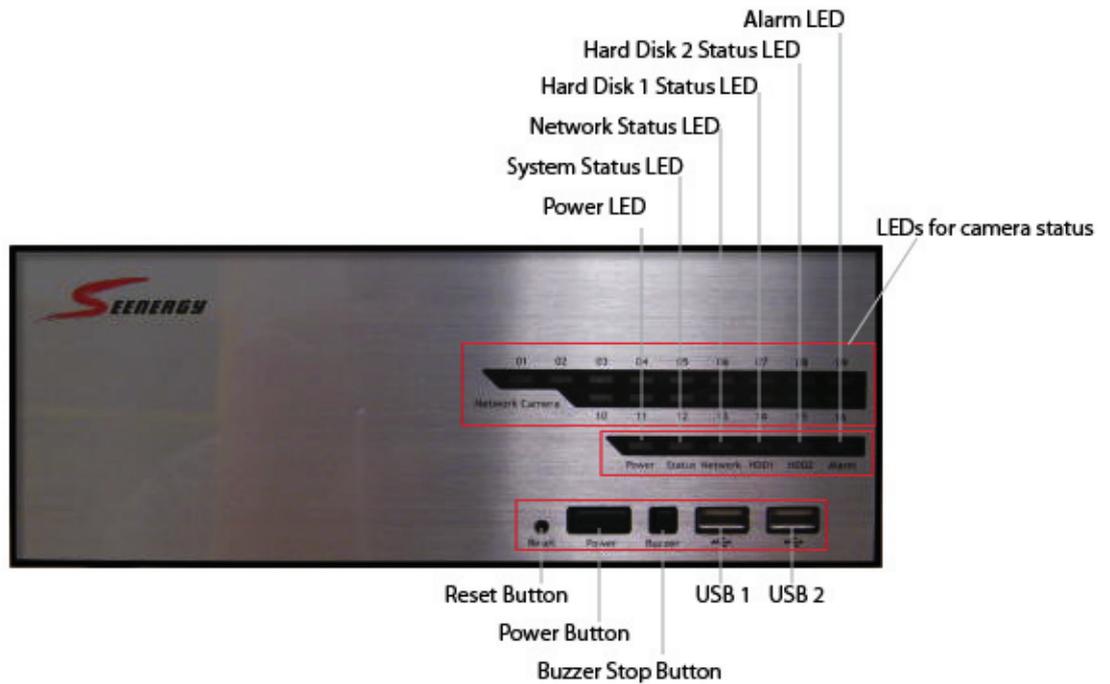


Place the top housing back and secure it with the bottom housing

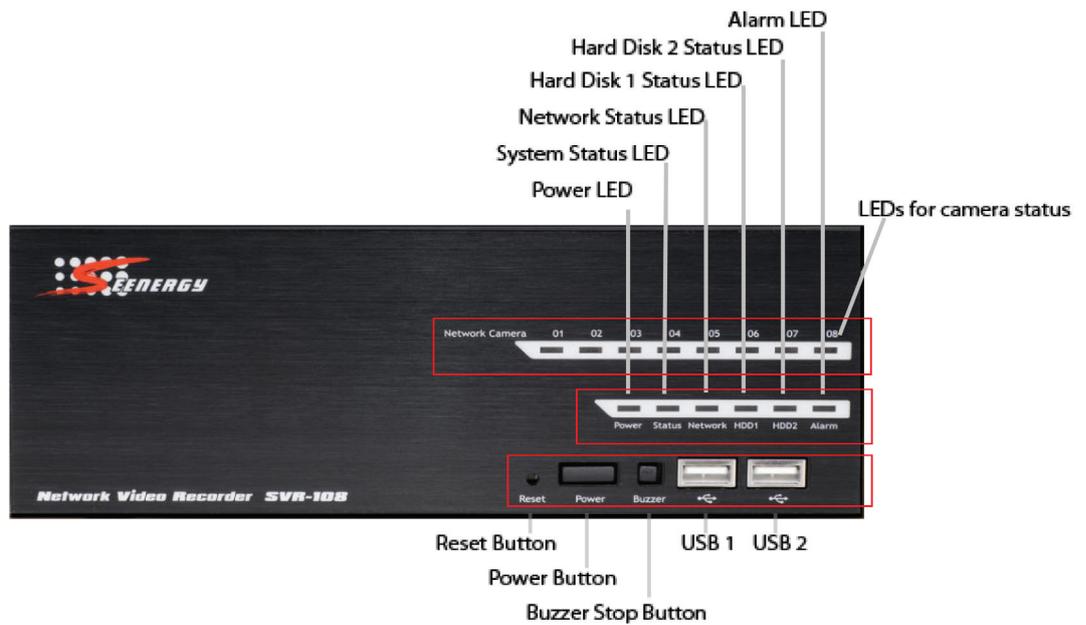


## System Overview (Front)

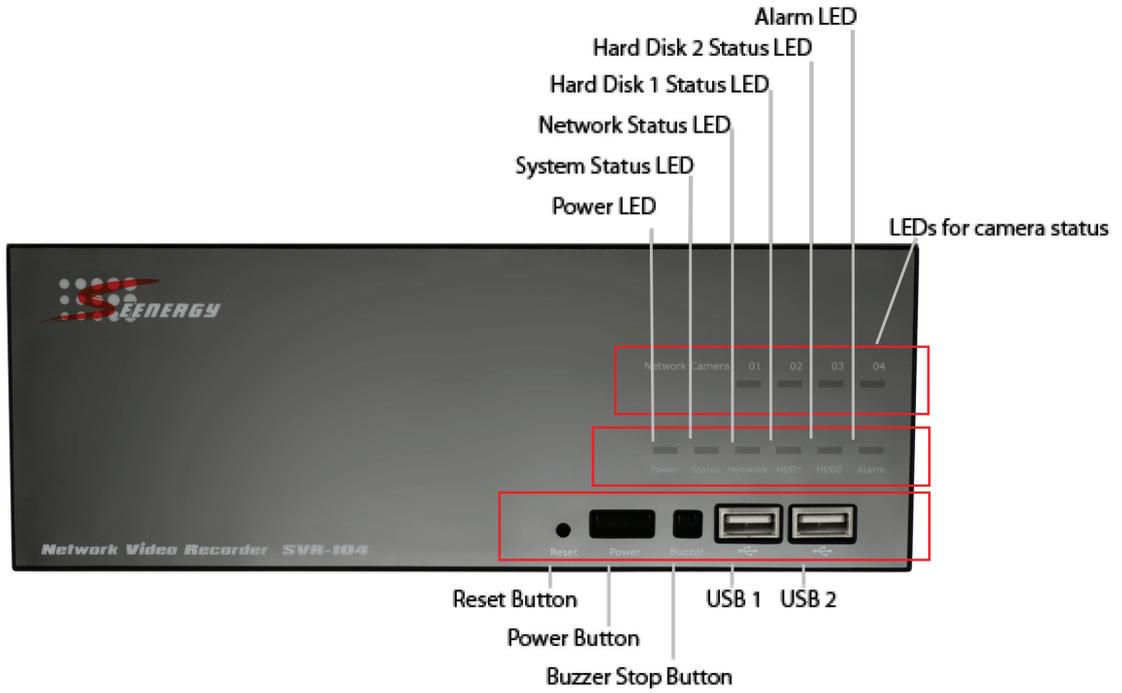
### SVR-116



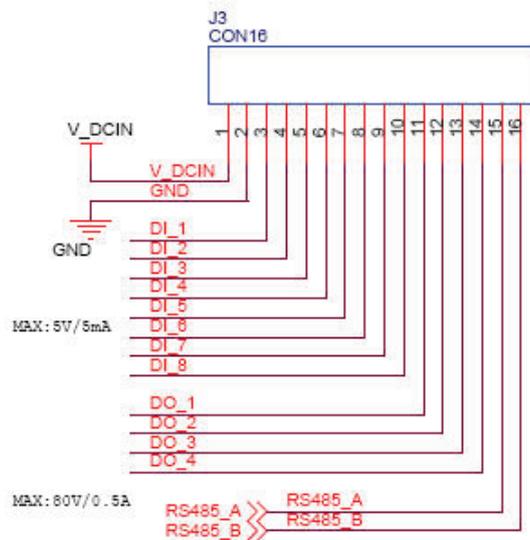
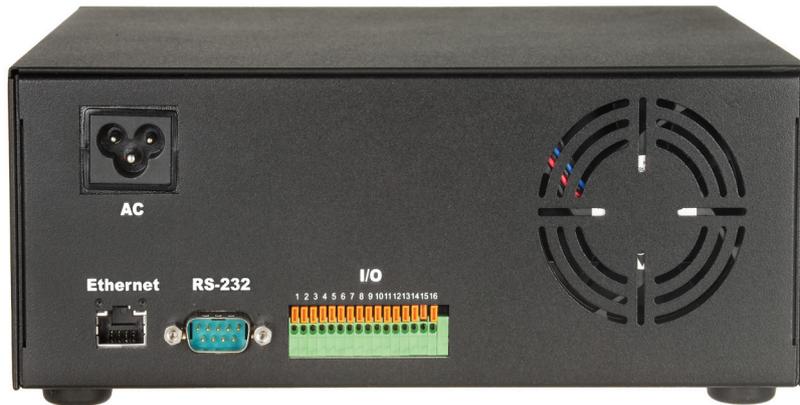
### SVR-108



**SVR-104**



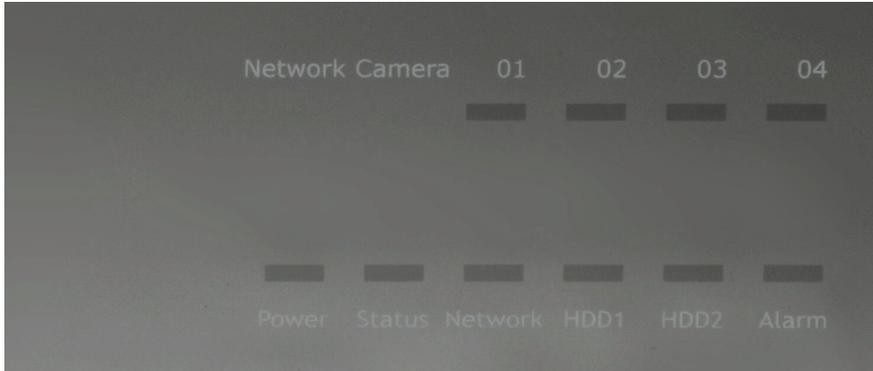
## I/O Ports and RS-485 (Rear)



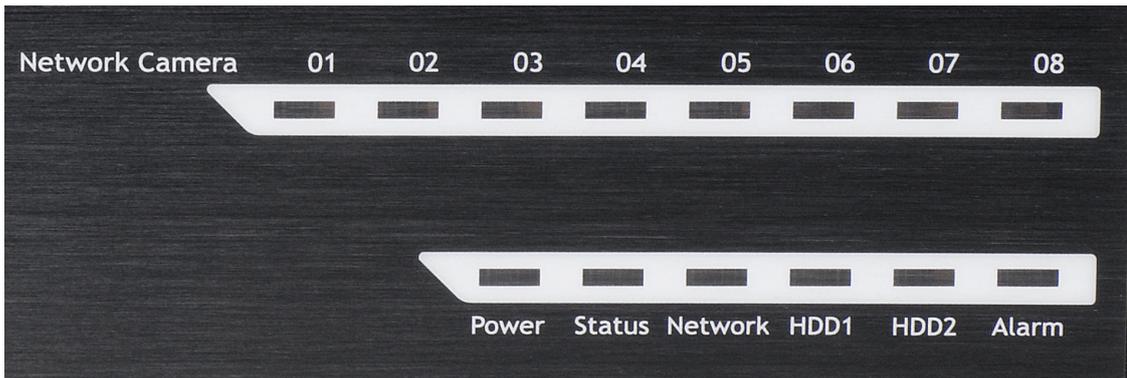
Pin	Signal
1	DCIN
2	GND
3~10	Alarm input
11	Out1
12	Out2
13	Out3
14	Out4
15	RS485+
16	RS485-

## LEDs Definition

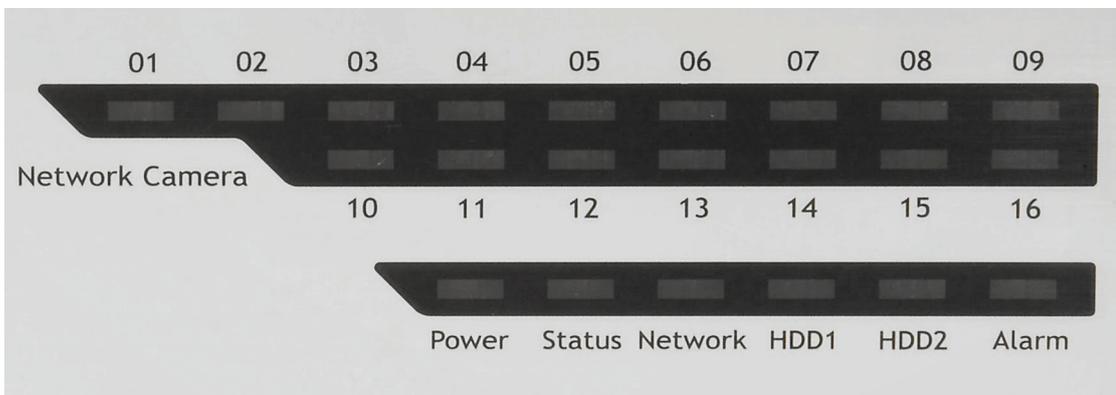
### SVR-104



### SVR-108



### SVR-116



## LEDs Definition

HDD x 2	Green	Solid green when the hard disk is mounted and being accessed
	Red	Solid red for disk fail
	Amber	Solid amber when disk is full Blinking when recycling
Network	Amber	Solid amber for activity on a 1G bps network.
	Green	Solid green for activity on a 10/100 Mbps network.
Status	Amber	Blinking during firmware upgrade
	Green	Shows solid green for normal operation. Blinking green when firmware upgrade is done
	Red	Flashes red for failed firmware upgrade.
Power	Green	Normal operation
	Red	System off (power adapter remains plugged in)
	Amber	Blinking amber indicating device is initializing
Alarm	Red	Blinking when an alarm occurs
	None	When alarm is reset

Camera LEDx16 (8 for SVR-108, 4 for SVR-104)	Green	Solid green, live connected with no event or recording activity
	Amber	Blinking amber, manual or event recording is being performed
	Amber	Solid amber, schedule or continuous recording is being performed
	Red	Recording is set but no video from camera

## Connect to the NVR

There are various ways you can connect to the NVR and below are the suggested methods for different network setup:

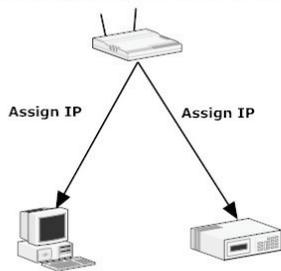
- The NVR is placed in a network with a DHCP server: Connect to the NVR by using **"SEEnergy Device Search" Utility**
- The NVR is placed in a network without DHCP server (or you are connecting to it directly): **Access the NVR with its default IP**

### Use SEEnergy Device Search Utility

If the NVR is placed in a corporate network or a local area network where a DHCP server is already presented, run the "SEEnergy Device Search" utility from a computer that is on the same network and locate the NVR with its IP address that is assigned by the top-level DHCP server.

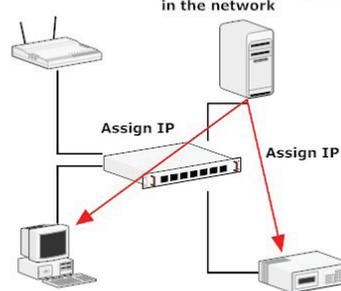
1.

Network gateway as the DHCP server

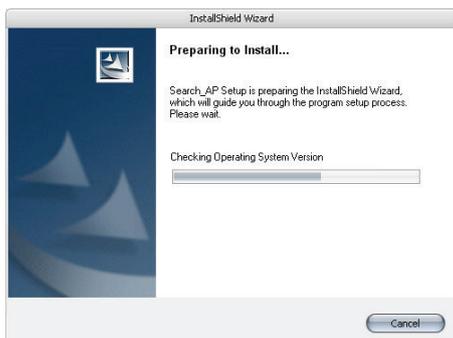


2.

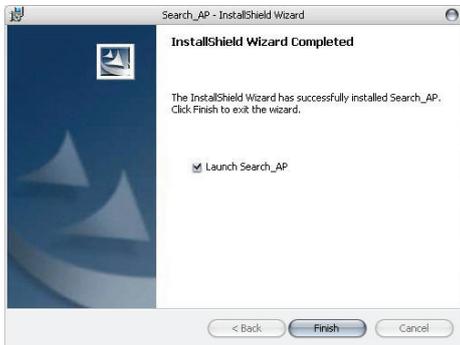
A separate DHCP server in the network



To begin, launch the "SEEnergy Device Search" utility from the CD and proceed with the installation:



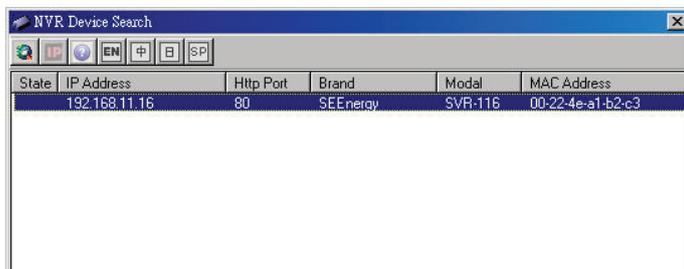
Once the installation is complete, check the "Launch the Search AP" option and click "Finish":



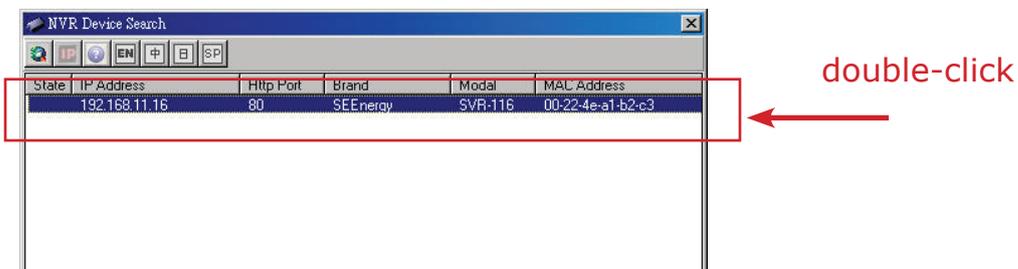
The search should start automatically and its status should be displayed:



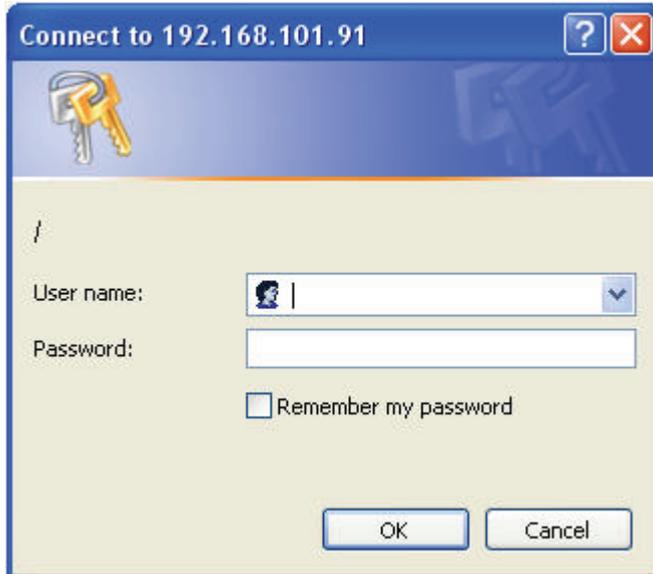
The NVR should be located and its IP address should be displayed:



Double-click on an NVR and the search program should automatically access the NVR's web administration page from your default browser

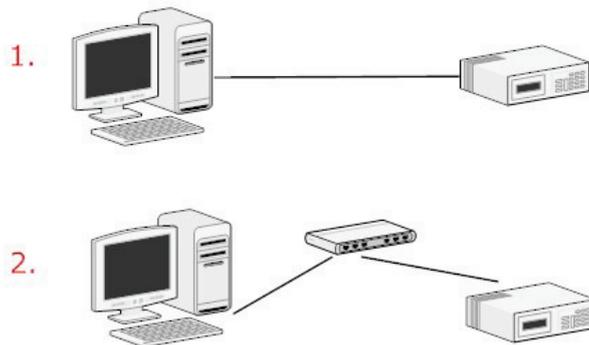


You should be prompted for the the NVR's username and password. Enter its default username "admin" and password "admin" and then click "OK" to enter the system

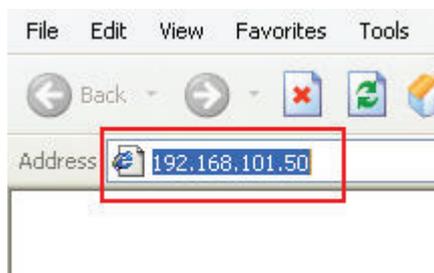


**Access the NVR with its default IP address**

The NVR comes with a pre-configured static IP "192.168.101.50". However, it is only used when there is no DHCP server presented in the network. The NVR will turn on its DHCP server function and act as the DHCP server in the network. To connect to the NVR, use a PC that is on the same network over a switch or hub, or connect the PC directly to the NVR using a crossover CAT5 Ethernet cable.



The PC that is connected directly to the NVR (or within the same local area network) should receive an IP from the NVR. Simply access the NVR from your web browser with its IP address



Again, you should be prompted for the username and password. Enter its default username "admin" and password "admin" and then click "OK" to enter the system



## Set up Password

The default login username and password is admin/admin. To change the password of the admin account, go to "Setup" --> "System Configurations" --> "User Account", click on the "admin" account in the account list then press the "edit" button to change its password. Finally, click "Apply" to save the change.

**SETUP**

**System Configurations** ▶

- Network Settings
- Time and Date
- User Account**
- Group Privilege
- Disk Setup

**Camera Configurations** ▶

**SVR-116 Network Video Recorder**

Main View | E-MAP Monitor | **Setup** | Channel Status  
System Time: May 07, 2009 10:24:34  
User: admin

**2**

**1**

**3**

**User Account Setting**

User Name	Group	Description
admin	admin	
quest	quest	sc
joser	supervisor	eng
hunt	opera	tc
view1	VIEWER	japan

**Add User**

User Name:  Only A-Z, 0-9 and \_@ are allowed

Password:

Confirm Password:

Company:  (Optional)

Department:  (Optional)

Telephone:  (Optional)

Mobile:  (Optional)

E-Mail:  (Optional)

Group:

Language:  English

Description:  (Optional)

User Name	Group	Description
admin	admin	
quest	quest	sc
joser	supervisor	eng
hunt	opera	tc
view1	VIEWER	japan

**Edit** **Remove**

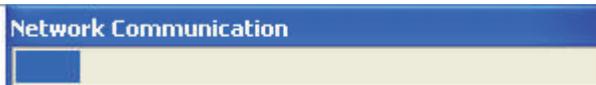
## Add a Camera

### Automatic Search:

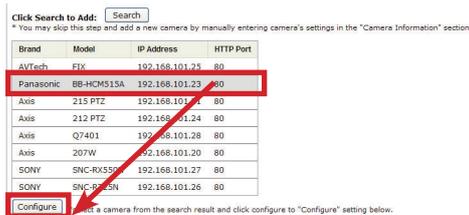
1. Click the "Search" button to perform the camera search. You should be prompted to install Active Control component in order for the search to function properly. Go ahead and click "Install"



2. After that, the search should begin and its status should be displayed:



3. Found cameras should be listed and simply select a camera from the list and press "Configure"



4. Its corresponding information should be displayed in the "Camera Information" section. Enter its username and password and select the channel ID and name the camera.



5. Click on "Detect" to establish connection between the recorder and the camera. If connection establishes successfully, camera's detailed information should be polled and displayed as below

Detect Once you fill out above information, click "Detect" to retrieve camera settings

**Additional Camera Information**

Audio Port: 80  
Video Port: 554

Live video Format: MJPEG  
Live Video Frame Rate: Full  
Live Video Resolution: 4CIF  
Live Video Quality: 5

Add

6. Adjust its video format, frame rate, resolution or bitrate...etc if you wish and then click "Add" to finish adding the camera

### Add a camera manually

Simply follow the instruction described above but instead of using the "Search" function, enter the camera's IP address and credential in the "Camera Information" manually, then follow step 5 ~6 described above.

**Add a new Camera:**

2.

Channel ID: 15  
Camera Name: cam15  
Group: 4  
IP Address: 192.168.101.21  
User Name: root  
Password: ●●●●  
HTTP Port: 80

1.

Detect Once you fill out above information, click "Detect" to retrieve camera settings

Enter manually

## Recording Configurations

The “recording configurations” gives users the overall control of how and when a recording is performed and the quality of different types of recordings performed on each channels. It can help the recorder to operate with sufficient system resource by performing recording only when it’s necessary with adjustable recording frame rate.

### General Settings

You can define the following in “General Settings”:

- Pre-Alarm/Post-Alarm recording length
- Recording frame rate
- Enable/disable different recording types on different cameras
- Enable/disable audio recording

The screenshot shows the 'Recording Configuration' page for the SVR-116 Network Video Recorder. The interface includes a sidebar with navigation options like 'System Configuration', 'Channel Configuration', 'Event Configuration', 'Recording Configuration', 'General Setting', 'Schedule Recording Setting', and 'System Options'. The main content area is divided into several sections:

- Pre-Alarm Buffer:** 3 Seconds
- Post-Alarm Buffer:** 10 Seconds
- Recording Frame Rate:** A table with 16 columns (cameras) and 4 rows (Continuous, Schedule, Event, Manual). Each cell contains a dropdown menu.
- Keep Video:** A checkbox labeled 'Keep the previous 2 days of recorded videos' is checked.
- Camera Recording Setting:** A table with 16 columns and 3 rows (Continuous, Schedule, Event). Each cell contains a checkbox.
- Record Audio:** A table with 16 columns and 1 row. Each cell contains a checkbox.

Buttons for 'Apply' and 'Cancel' are located at the bottom of the configuration area.

The “recording buffer” allows user to define “pre-alarm” and “post-alarm” time for event recordings. The “pre-alarm” time sets the NVR to record in advance when an event is triggered. The “post-alarm” time sets the NVR to continue recording for a period of time after an event trigger is finished.

### Recording Buffer

Pre-alarm Buffer:  sec

Post-alarm Buffer:  sec

*\* The "Pre-alarm" function only works when the "Continuous" recording is also activated.*

Recording frame rate allows you to set different frame rate for different types of recording instead of recording at one frame rate only. Use the drop-down menu and select one of the pre-defined frame rates for a particular recording type

Recording Frame Rate																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Continuous	1	I Only	1	I Only	1											
Schedule	5	I Only	5	I Only	5											
Event	Full	Full	Full	Full	Full											
Manual	Full	Full	Full	Full	Full											

The "Camera Recording Setting" section allows you to turn on or off a particular recording type on any channels.

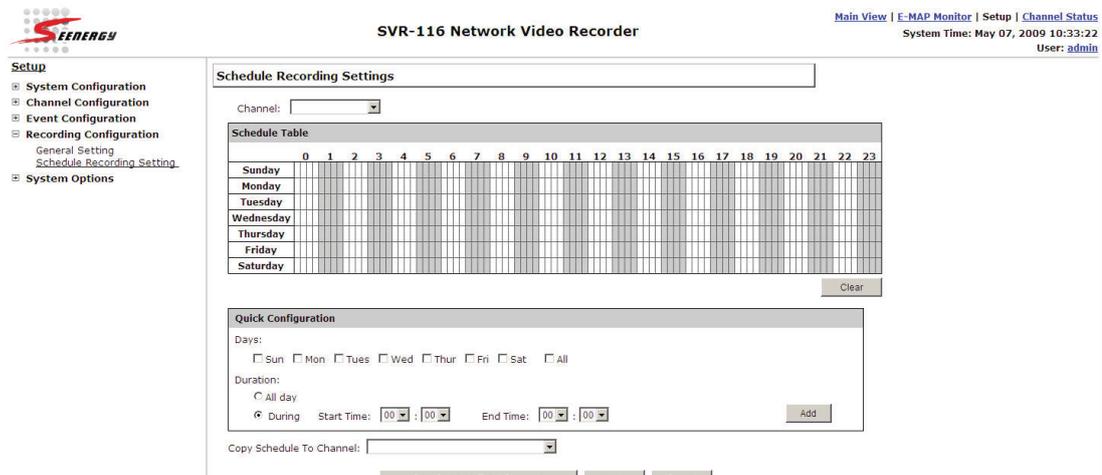
Camera Recording Setting																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Continuous	<input type="checkbox"/>															
Schedule	<input type="checkbox"/>															
Event	<input type="checkbox"/>															

The section at the bottom of the page allows you to disable audio recording (record video only) of particular channels.

Record Audio																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Record audio	<input type="checkbox"/>															

## Schedule Recording

Here you can define the time range of the schedule recording for all channels.



### To configure a schedule recording:

1. Use the "Camera" drop-down menu and select a camera first

Camera:

2. You can use the schedule table to set the time range. Click the cell boxes then move the cursor horizontally lets you set what hours to perform recording during a day. Click and move vertically lets you set what days to perform recording at a specific time.

Schedule Table		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Sunday																									
Monday																									
Tuesday																									
Wednesday																									
Thursday																									
Friday																									
Saturday																									

\* Each cell box represents 15 minutes of time. Click one or more boxes to omit consecutive recording

3. You can also use the "Quick Configuration" to define recording time range instead of clicking cell boxes one by one on the time table. Simply check what days you would like to perform recording and specify the recording duration by either choosing "All Day" or enter a start and end time for specific recording duration.

**Quick Configuration**

**Days**

Mon.  Tue.  Wed.  Thur.  Fri.  Sat.  Sun.

**Duration**

All day

During Start Time:  End Time:

4. Select the "Copy to" option if you would like to set the same recording schedule to another camera.

During Start Time:  :  End Time:

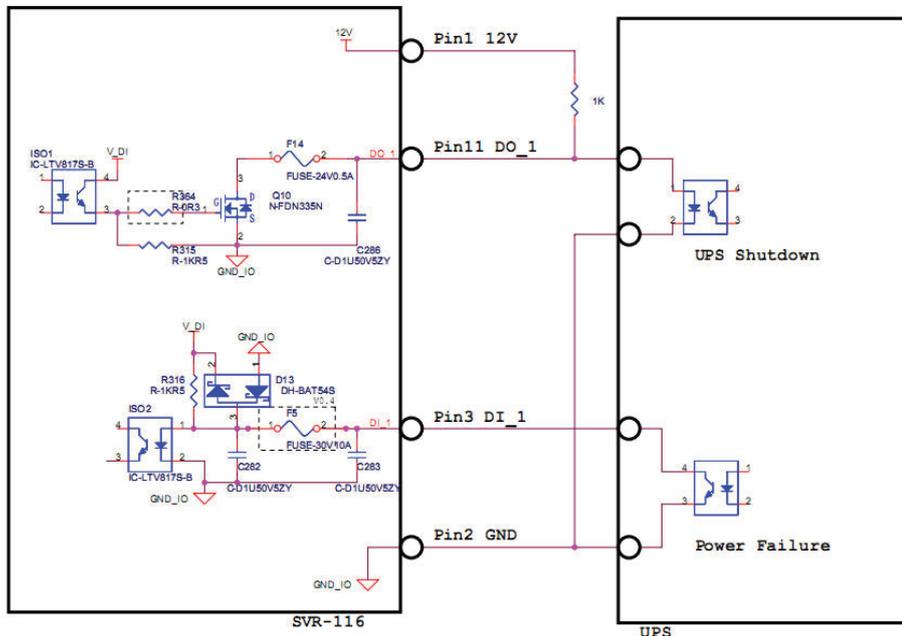
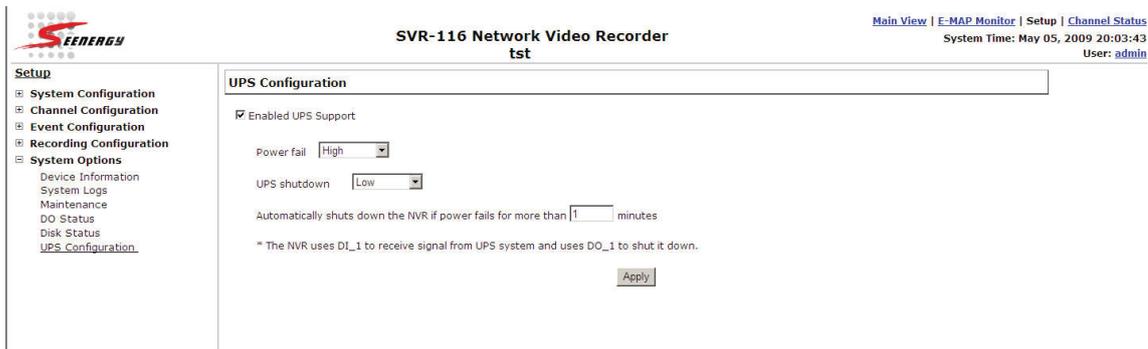
Copy Schedule To Channel:

Apply

## UPS Configurations

Connect the UPS to the NVR's DI/DO port for sending and receiving signals between the UPS and the NVR. Refer to the diagram below to connect the UPS with its RS-232 interface to the NVR's DI/DO port.

The NVR can receive signal from the UPS when there is a power failure and shut down itself automatically within a period of time.



**\* The NVR uses DI\_1 to receive signal from UPS system and uses DO\_1 to shut it down.**

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