Synology®

# VS80 User's Guide

Firmware version 1.3-0303

VS8003172011

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CHAPTER 1

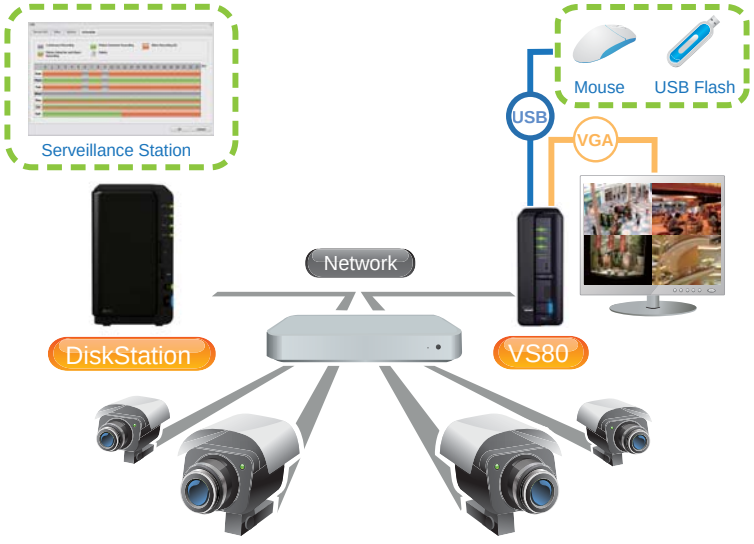
# Getting Started with VS80

Congratulations on your purchase of Synology VS80. It is designed to expand the flexibility of your Surveillance Station.

By connecting VS80 to an video output device, like a LCD or a TV, for example, users can directly have live-view of their IP camera set up on their Synology DiskStation, or play the recordings stored on it, all without a PC. If they have multiple cameras, VS80 even provides live-view of multiple cameras as a video wall system.

This user's guide will assist you through the installation and usage of your VS80.

Before going further, please confirm that you have at least one IP camera managed by your Synology DiskStation. For information on how to set up an IP camera on your Synology DiskStation, please check the user's guide of your Synology DiskStation.



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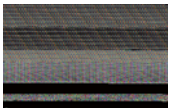
## Package Contents

Before installation, please check the package contents to verify that you have received the items below.

**Main Unit**

**AC power adapter**

**2M RJ-45 LAN cable**



**User's Guide**

## Hardware Specifications

| | |
|---|---|
| **USB** | 1 port in front, 1 port in rear<br>(For USB disk and mouse) |
| **Video Output** | VGA x 1 |
| **Audio Output** | 3.5mm Stereo Audio Jack x 1 |
| **Size (HxWxD) (mm)** | 160x63x218 mm |
| **Weight** | 0.78Kg |
| **LAN** | 10/100BaseT |
| **AC Input Power Voltage** | 100V to 240V AC |
| **Power Frequency** | 50 / 60Hz, Single Phase |
| **Operating Temperature** | 5°C ~ 35°C (40°F ~ 95°F) |
| **Storage Temperature** | -10°C ~ 70°C (15°F ~ 155°F) |
| **Relative Humidity** | 5% to 95% RH |
| **Maximum Operating Altitude** | 10,000 feet |
| **Certification** | FCC Class B, CE Class B |



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## Software Specifications

| | |
|---|---|
| **Channel #** | 4, 6 or 9 |
| **Display Mode** | 2x2, 3x2 or 3x3 panels |
| **Compression Formats** | MJPEG, MPEG-4, H.264 |
| **Decoding Throughput [MJPEG]** | MJPEG:<br>4,6 channel: 80 FPS, D1<br>9 channel: 80 FPS, CIF |
| **Decoding Throughput [MPEG4]** | MPEG4:<br>4,6 channel: 80 FPS, D1<br>9 channel: 80 FPS, CIF |
| **Decoding Throughput [H.264]** | H.264:<br>4,6 channel: 60 FPS, D1<br>9 channel: 80 FPS, CIF |
| **Maximum Camera Resolution** | 4,6 channel D1: (640x480 in VGA, 720x480 in NTSC, 720x576 in PAL) |
| | 9 channel CIF: (320x240 in VGA, 352x240 in NTSC, 352x288 in PAL) |
| **Snapshot** | Yes (save to USB disk) |
| **PTZ** | Yes (for PTZ cameras only) |
| **Playback** | Event Timeline |
| **Firmware Upgrade** | Yes (via USB disk) |
| **Resolution** | 1280x768, 1024x768, 800x600 |

## Operating Requirements

| | |
|---|---|
| **Synology DiskStation** | Recommend DSM 3.1 and onwards to support full features of VS80. |
| **Supported IP cameras** | For the complete list of supported IP cameras, please visit http://www.synology.com |



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## Appearance

| Article Name | Location | Description |
|---|---|---|
| **POWER button** | Front | The POWER button is used to turn the Synology VS80 on or off. |
| **LOCK button** | Front | The LOCK button is used to prevent VS80 from paring with other Synology DiskStations. |
| **LED Indicator** | Front | The LED Indicators are used to display the status of the system, network connection, and Lock function. For complete details, please refer to the ***LED Behavior*** table below. |
| **USB port** | Front & Rear | The Synology VS80 offers 2 USB ports for both mouse plug-in and USB flash drive connection*****. One of the ports is located on the front and the other on the rear. |
| **VGA port** | Rear | To connect the monitor's VGA adapter to VS80. |
| **AUDIO jack** | Rear | The AUDIO jack is used to connect external speakers or earphone to VS80 (for audio supported cameras). |
| **LAN port** | Rear | The LAN port is used to connect the LAN cable to VS80. |
| **RESET button** | Rear | The RESET button is used to restore the settings to the factory default. |
| **DC IN 5V port** | Rear | The DC IN 5V port is used to connect the AC Power Adapter to provide power to your Synology VS80. |



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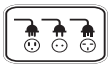
## LED Behavior

| LED | Behavior | Description |
|---|---|---|
| POWER | Solid Blue | System is ready |
| | Flashing Blue | System is starting up |
| | Off | The power is off |
| STATUS | Solid Green | Server is connected |
| | Off | Server is not connected |
| LAN | Solid Green | LAN is connected |
| | Flashing Green | LAN is active |
| LOCK | Solid Green | Locked (Pairing is not allowed with Synology DiskStation) |
| | Flashing Green | Unlocked (Pairing is allowed with Synology DiskStation) |
| RESERVE | Off | No functionality (Reserved for future use) |

## Safety Instructions

To use your Synology product safely, please follow these instructions and warnings at all time.

| | |
|---|---|
| | Keep away from direct sunlight and away from chemicals. Make sure the environment does not experience abrupt changes in temperature or humidity. |
| | Keep Synology product upright. Do not lay it down horizontally. |
| | Do not place the Synology product close to any liquid. |
| | Before cleaning, unplug the power cord first. Wipe Synology product with damp paper towels. Do not use chemical or aerosol cleaners to clean it. |
| | Do not place the Synology product on a cart, table, or desk, which is not stable to avoid the product from falling over. |
|  | The power cord must plug in to the right supply voltage. Make sure that the supplied AC voltage is correct and stable. |



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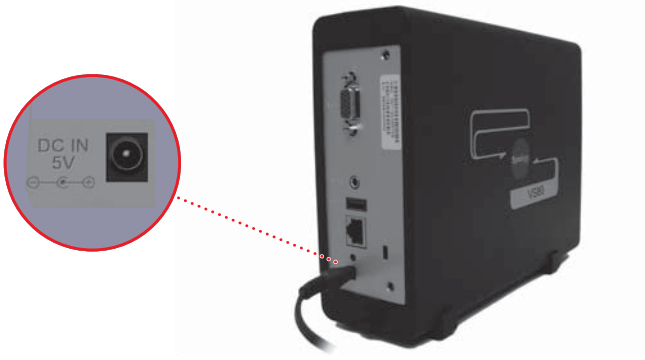
CHAPTER

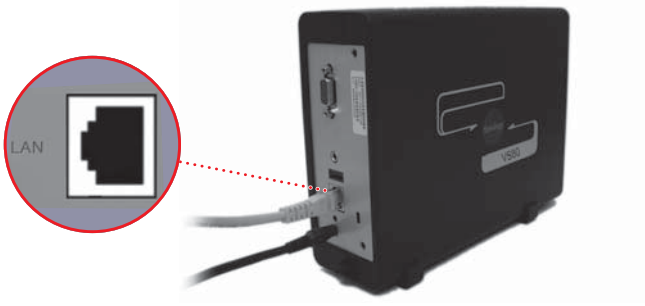
# 2 Using VS80

## Hardware Setup

**1** Connect the AC power adapter to VS80, and the other end to the power outlet.




**2** Use the LAN cable to connect VS80 to your switch/router/hub.



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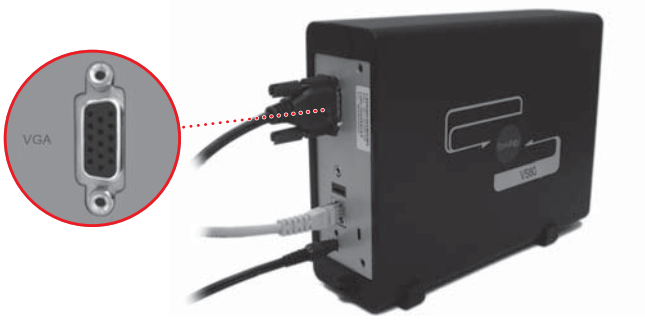
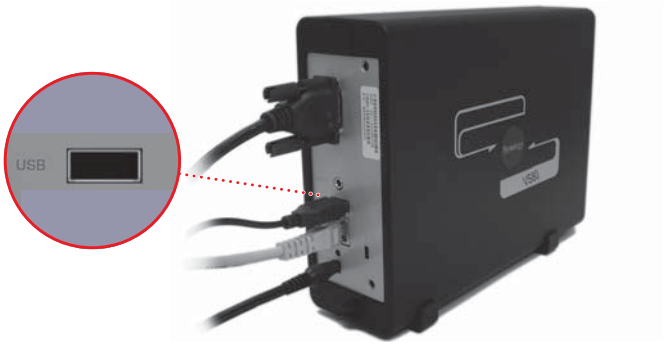
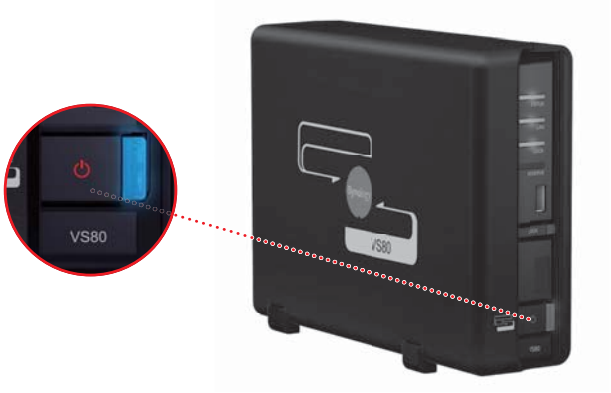
**3** Connect your monitor's VGA cable to the VGA port on the back of VS80.




**4** Connect the mouse to the USB port on the back of VS80.




**5** Push the Power button on the front of your VS80. Your VS80 is now online and ready to work with your DiskStation.



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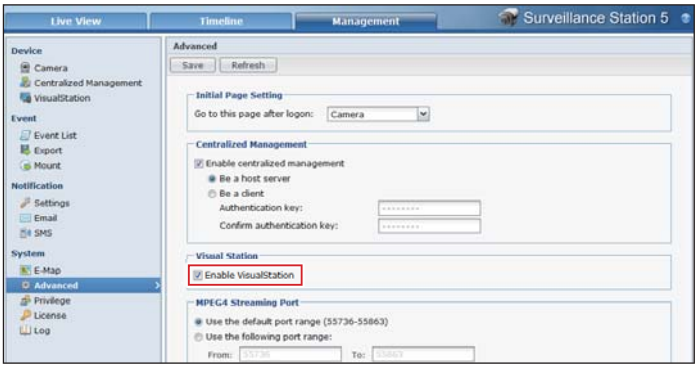
## Enabling VS80 on your Synology DiskStation

Before you start, make sure the DSM version of your DiskStation is ***3.1 or later*** to support the full features of VS80. You can view your current DSM version by going to ***Control Panel*** > ***DSM Update***.

To update DSM, please visit: http://www.synology.com/support

### To Enable VS80 on your Surveillance Station:

1. Enter Surveillance Station.
2. Click on the ***Management*** tab at the top.
3. Select ***Advanced*** option under ***System*** category.
4. Enable VS80 by checking ***Enable VisualStation*** checkbox.
5. Click on ***Save*** to save the changes. After configuration, ***VisualStation*** will appear under the ***Management*** tab.



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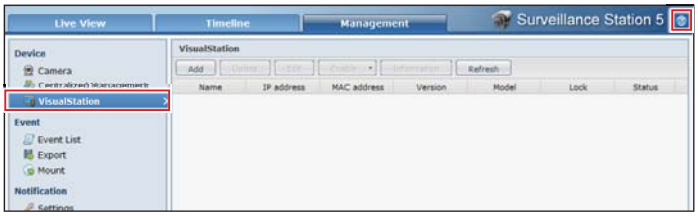
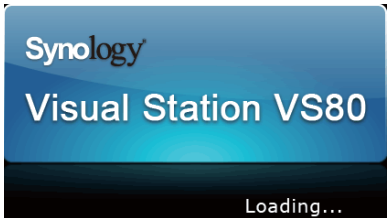
6 Click on the ***VisualStation*** tab to enter the setup page. Follow the steps in ***Help*** (the icon with question mark) to finish setup.




## Live-view

### To turn on your VS80 to start live-view:

1 Turn on your VS80 by pressing the Power button. The loading image should appear on screen.




2 When the loading is completed, the live-view will appear on the screen according to the settings on Surveillance Station.

3 To see any one of the channels in full screen, double-click on it in the live-view. Double-click anywhere on the screen to return to the multiple-channel view.

## More Functions

Right-clicking anywhere on the screen will bring up the functions menu, which offers the following functions: ***Snapshot***, ***Start PTZ, Event Playback, Switch Resolution***, ***Firmware Upgrade*** and ***Information***.



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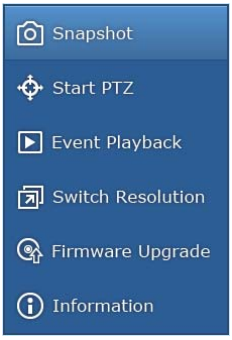
## Snapshot

By right-clicking on the live-view and selecting ***Snapshot***, you can save the current image as a snapshot. The image will be stored onto the connected USB storage device. VS80 will create an individual folder for each live-view channel.




Alternatively, you can also take snapshots by clicking on the Snapshot button on the PTZ control Panel.

***Note:*** You can connect a USB flash drive to Synology VS80 via the USB port. Synology VS80 also supports external USB HDD, provided that it comes with its own power supply.

***Important:*** VS80 only recognizes USB storage devices in FAT32 format.

## Start PTZ

If your camera supports PTZ (pan/tilt/zoom) function, you can select a camera and use the PTZ control panel to adjust the camera's direction and to zoom in and out on specific areas. The supported functions on the control panel will appear in blue, while the unsupported functions will be grayed out.

The button functions are shown as follows:

| | |
|---|---|
| | Adjust the camera's direction |
| | Restore the camera back to its home position |
| | Take a Snapshot |
| | Zoom in/out function |



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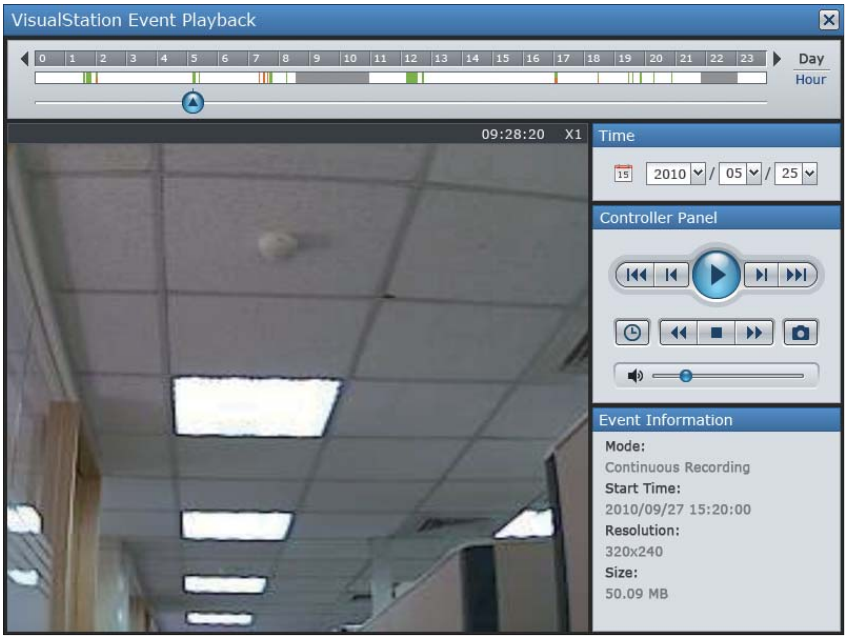
## Event Playback

By right-clicking on one channel live view and selecting ***Event Playback***, you can switch to the event player for playback of video recordings stored on your DiskStation with specified date and time.

The Timeline displayed on top of the event player indicates the time frame there are events recorded. ***Continuous Recording*** mode will be marked in gray in the Timeline. ***Motion Detection Recording*** mode will be marked in green. ***Alarm Recording*** mode will be marked in orange.



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The button functions are shown as follows:

| | | |
|---|---|---|
| | Play / Pause | Play / Pause the event |
| | Previous frame and Next frame | Go to the previous frame or the next frame |
| | Previous and Next | Go to the previous or the next event |
| | Stop | Stop playing events |
| | Slow Motion / Fast Forward | Adjust the video playback tempo |
| | Snapshot | Take a Snapshot |
| | Duration / Timestamp | Switch between displaying the video length or its recorded time |
| | Audio volume | Adjust the volume |

### To playback events of a different date:

When you enter the event player, by default the player will automatically search and start playing the earliest recorded event for your current day. To select a different date, click on ***Stop*** button on the controller panel, then use the drop down tool box under ***Time*** module to narrow down the date of interest. When it is done, click on Play to start playback.

### To playback events of a certain time:

Move the ***Cursor*** icon on the timeline to where you want to start watching the events. You can click ***Day*** or ***Hour*** to display the timeline within 24 hours or within 1 hour.

### To play an event:

1. Click the ***Play*** button on the ***Controller*** panel to start or pause playing the events.
2. Click the ***Previous*** button or ***Next*** button on the ***Controller*** panel to go to the previous or the next event.
3. Click the ***Fast Forward*** or ***Slow Motion*** button to adjust the video playback tempo.
4. Click the ***Duration*** / ***Timestamp*** button to switch between displaying the length of the video or the time when the video is recorded.
5. Adjust the volume by dragging the slider bar on the ***Controller*** panel if the selected event has audio support.
6. Click the ***Stop*** button to stop playing the event.

### To take a snapshot:

To take a snapshot, you can ***Pause*** the current event, click the ***Previous frame*** or ***Next***



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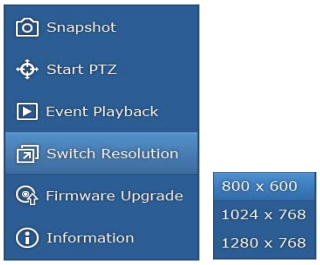
***frame*** button on the ***Controller*** panel, then click the ***Snapshot*** button to save the image.

## Switch Resolution

If your monitor supports more than one resolution, you can specify the viewing preference. VS80 supports the following three resolutions:

800 x 600, 1024 x 768, 1280 x 768




***Note:*** If you select a resolution your monitor does not support, the monitor will black-out for seconds and then return to its selected resolution.

## Firmware Upgrade

To upgrade VS80 firmware, follow the steps below:

1. Download the latest firmware from: http://www.synology.com
2. Unzip the firmware and save the file onto your USB storage device.
3. Connect your USB storage device to VS80.
4. Click on ***Firmware Upgrade*** to start upgrading.

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### Information

By right-clicking anywhere on the screen and selecting Information, you can see the facts about your VS80:

- ***Model Name:*** The model of your VisualStation
- ***Fimware Version:*** The firmware version of your VisualStation
- ***Pairing with:*** The current DiskStation paired with your VS80

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CHAPTER 3

# Troubleshooting

## Q1: Why can't I pair my DiskStation with VS80?

You can only pair the VS80 with Synology DiskStation when VS80 is unlocked. To see if your VS80 is locked, check the LED indicator light on the front panel. The LED indicator will glow solid green when VS80 is locked and flash green when unlocked. To lock or unlock your VS80, press and hold the LOCK button on the VS80 for 3 seconds. The status of the LED indicator should change accordingly.

## Q2: Why can't Surveillance Station detect any VS80 within the network?

Check if your VS80 is connected to the local network. Also, make sure it is turned on.

## Q3: Why do I see the warning File cannot be saved! when I use Snapshot function?

The snapshot must be saved on a USB storage device which is formatted in FAT32. You can connect a USB storage device to Synology VS80 via the USB port. Synology VS80 also supports external HDD, provided that it comes with its own power supply.

Note that after plugging in your USB storage device, please wait for 15 seconds before attempting to access.

## Q4: Why do I see these icons after VS80 starts up?

- ***Disabled:*** VS80 is configured but disabled in your Synology DiskStation.
- ***Not configured:*** VS80 is not paired with any Synology DiskStation.
- ***Disconnected:*** VS80 is configured but cannot connect to your Synology DiskStation. Please check the network setting and the DiskStation is started up.



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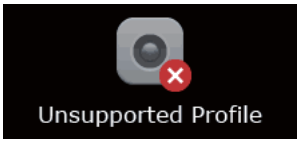
## Q5: What may be the cause for lower FPS (frame per second) performance on my VS80?

VS80 can achieve its proper 80 fps speed with Mpeg4 codec. You may experience performance in the 60 fps range if the camera is using H.264 codec because H.264 uses more decoding resources. Therefore, your actual performance may vary if you use a combination of MPEG4 and H.264 cameras.

## Q6: Why does VS80 display Unsupported Profile on the camera screen?




When H.264 camera uses profile other than Baseline profile, or when MPEG4 camera uses profile other than Simple profile, VS80 won't be able to process the different profile levels for each video codec and causes this warning message. The solution is to enter the IP camera's portal page and adjust the codec profile with the recommended profile settings above.

## Q7: When facing long video delays, how do I reduce the latency?

If video latency is too long, try decreasing the image quality or frame rate from Surveillance Station or Camera portal to reduce the system workload.

## Q8: Why do Live View and Event Playback aspect ratio look different?

This is caused by the LCD monitor or TV which you are using. To resolve this issue, go to the Main menu for your LCD/TV, use the Auto Adjust function and your screen aspect ratio will return to normal.



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