

# Network Video Recorder

# NVR1218



Synology Network Video Recorder NVR1218 is an all-in-one and energy efficient private surveillance solution with HDMI output for PC-less management and live monitoring. NVR1218 supports up to 12 channels of 720p/30FPS camera streams. Point of Sale (POS) system support combines business transaction records with surveillance recordings. Synology NVR1218 is backed by Synology's 3-year limited warranty.

## Standalone, All-in-one Surveillance Solution

Synology Network Video Recorder NVR1218 is an all-in-one surveillance solution with a 1080p HDMI interface for monitoring, managing, and storing surveillance videos. You can watch surveillance recordings and configure IP camera settings directly on **Surveillance Station** without using a computer. NVR1218 supports up to 12 channels of 720p/30FPS camera streams.

NVR1218 can be deployed and setup easily without a computer and Internet connection<sup>1</sup>, which is convenient for first-time system installation in remote or secure locations without external network access. NVR1218 supports **Point of Sales (POS) systems** via a dedicated COM port, allowing NVR1218 to be integrated with transaction systems to enable video indexing capability against transaction records.

## 24/7 Security Solution

Synology **Surveillance Station** offers a centralized interface to manage IP cameras deployed in your workplace. Easily setup and enable secure remote access to Surveillance Station via computers or the **DS cam** mobile app to monitor real-time camera streams and to view recorded events and snapshots. The hassle-free interface features an optimized live view experience with on-screen controls, smart analytic tools like motion detection, and an alert system that sends notifications through DS cam, SMS, and e-mail.

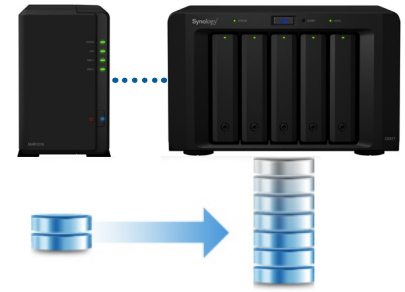
## Highlights

- Standalone surveillance solution with 1080p HDMI output
- Easy installation without a computer and Internet connection<sup>1</sup>
- Point of Sale (POS) system support combines business transaction records with surveillance recordings
- 4 free camera licenses included, supports up to 12 cameras
- Mobile apps ready for on-the-go surveillance
- Power-saving NVR runs below 15W
- Expandable storage capacity up to 7 HDDs with DX517<sup>2</sup>

## Rich Compatibility and User-friendly Operation

Powered by Synology Surveillance Station, NVR1218 supports more than **5,600 IP cameras** from 100 renowned brands and ONVIF Profile S and Profile G, allowing flexible system deployment options.

NVR1218 also supports navigating between different camera streams with a USB mouse, keyboard, or joystick. The audio input and output ports allow microphone and speaker connections for two-way voice communication via audio-enabled cameras. In the event of a power failure, NVR1218 can be paired with an uninterruptible power supply (UPS) for safe power down.



### Flexible scalability

NVR1218 can expand its capacity on-the-fly and enlarge volumes across its expansion unit for larger storage capacity.

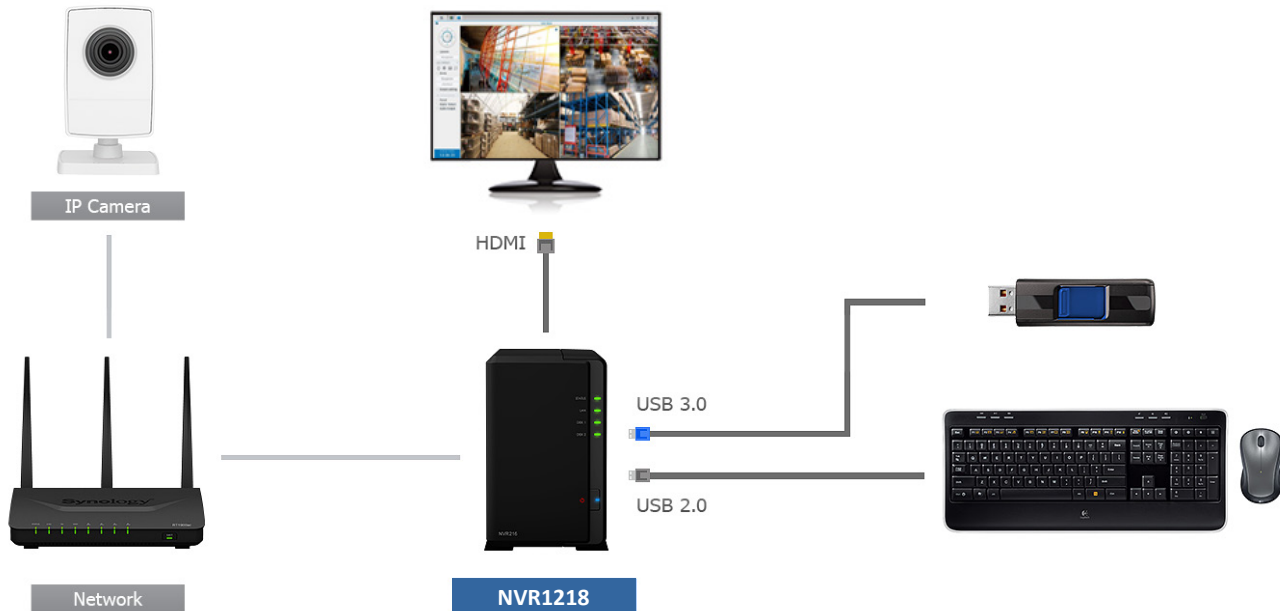
## Expandable Storage for Growing Needs

NVR1218 supports Synology Expansion Unit DX517<sup>2</sup> to support up to 7 hard drives. With DX517 connected, users are able to create a RAID 5 or RAID 6 volume for enhanced storage resiliency and larger usable space.

## Wallet-Friendly and Energy-Efficient

NVR1218 is engineered with energy efficiency in mind. It is extremely quiet and requires only 13.64W during operation. As a PC-less surveillance solution, NVR1218 economizes on both equipment and energy costs in the long-run.

All Synology products are produced with RoHS compliant parts and packed with recyclable packing materials. Synology acknowledges the responsibility as a global citizen to continually work towards reducing the environmental impact of every product.

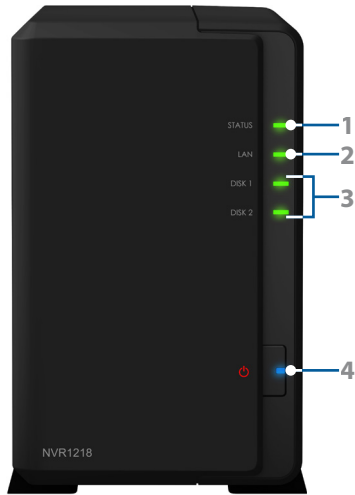


### Complete surveillance solution without a computer

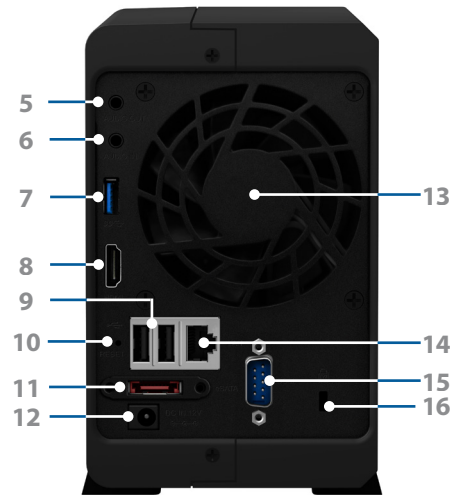
Connect Synology NVR1218 to an HDMI monitor and enjoy a PC-less surveillance solution that simultaneously supports up to 12 network cameras.

# Hardware Overview

Front



Rear



1	Status indicator	2	LAN indicator	3	Drive status indicator	4	Power button and indicator
5	Audio out	6	Audio in	7	USB 3.0 port	8	HDMI output
9	USB 2.0 port	10	Reset button	11	eSATA port	12	Power port
13	Fan	14	1GbE RJ-45 port	15	COM port	16	Kensington Security Slot

## Technical Specifications

### Hardware

Configuration	NVR1218 supports up to 12 cameras in total and comes with 4 camera licenses pre-installed.
CPU	Embedded NVR SoC dual-core 1.0GHz
Memory	DDR3 1GB
Compatible drive type	3.5" SATA x 2 (Hard drives not included)
External port	<ul style="list-style-type: none"> <li>• USB 3.0 x 1</li> <li>• USB 2.0 x 2</li> <li>• eSATA x 1</li> <li>• HDMI x 1</li> <li>• 3.5mm audio jack x 2 (input/output)</li> <li>• COM x 1 (for POS system connection)</li> </ul>
Supported video output resolution	1920 x 1080 (1080p), 60 Hz
Size (HxWxD)	165 x 100 x 225.5 mm
Weight	0.9 kg
LAN	Gigabit (RJ-45) x 1
Supported USB devices	USB storage, keyboard, mouse, joystick, uninterruptible power supply (UPS)
AC input power voltage	100V to 240V AC
Power frequency	50Hz to 60Hz, single phase
Operating temperature	Adapter: 0 °C to 40 °C (32 °F to 104 °F) Chassis: 5 °C to 45 °C (40 °F to 113 °F)
Storage temperature	-20 °C to 60 °C (-5 °F to 140 °F)
Relative humidity	5% to 95% RH
Power consumption	13.64 W, 46.57 BTU/hr
Agency certifications	FCC Class B, CE Class B, BSMI Class B

## General specification

File system	<ul style="list-style-type: none"><li>• Internal: ext4</li><li>• External: ext4, ext3, FAT, NTFS, HFS+ (read only)</li></ul>
Supported RAID type	<ul style="list-style-type: none"><li>• Synology Hybrid RAID (SHR)</li><li>• Basic</li><li>• JBOD</li><li>• RAID 0</li><li>• RAID 1</li><li>• RAID 5 (with Synology Expansion Unit DX517<sup>1</sup>)</li><li>• RAID 6 (with Synology Expansion Unit DX517<sup>1</sup>)</li></ul>
Storage management	<ul style="list-style-type: none"><li>• Maximum single volume size: 16TB</li><li>• Maximum internal volume: 256</li><li>• Maximum shared folder: 256</li></ul>

## Surveillance Station

Maximum IP camera	12 Channels (360FPS at 720p)
IP Camera support	<ul style="list-style-type: none"><li>• Video codec: MJPEG, MPEG-4, MxPEG, H.264, and H.265 (MxPEG and H.265 do not support Local Display)</li><li>• Audio codec: PCM, AAC, AMR, G.711, and G.726</li><li>• Camera bit-rate fine-tuning via constant and variable bit-rate control</li><li>• ONVIF™ 2.6, Profile S certified, Profile G for edge recording</li></ul>
Live View	<ul style="list-style-type: none"><li>• Pan Tilt Zoom (PTZ) support with configurable PTZ speed</li><li>• On-screen camera controls: camera zoom, focus, iris adjustment, auto pan, and auto object tracking</li><li>• E-Map, Snapshot, and Snapshot Editor supported for instant editing after taking a snapshot</li><li>• Video quality settings: bit-rate control, image quality, resolution, and FPS</li><li>• Joystick support for easy navigation</li><li>• Alert panel for a quick display of the most recently triggered events</li><li>• Customizable layout and sequential camera view support</li></ul>
Recording	<ul style="list-style-type: none"><li>• Supported recording modes: manual, continuous, motion detection, I/O alarm, action rule, and customized</li><li>• Recording formats: MP4</li><li>• The customized recording mode can be configured as a combination of conditional events, including motion detection, audio detection, tampering detection, and alarm input</li><li>• Edge recording on the SD card of certain supported cameras</li><li>• Configurable pre-recording and post-recording time</li></ul>
Playback	<ul style="list-style-type: none"><li>• Customizable layouts for playback in Timeline</li><li>• Playback controls include pause, stop, previous recording, next recording, fast forward, slow motion, frame by frame, and digital zoom in/out</li><li>• Embedded watermark for evidence integrity</li><li>• Image enhancements including brightness, contrast, saturation, and sharpness (web client only)</li></ul>
Management	<ul style="list-style-type: none"><li>• Create and manage different user privileges</li><li>• Rotate recorded videos by archived days or storage size</li><li>• Event notification supported via SMS, E-mail, and mobile devices via DS cam</li><li>• Recordings can be backed up to an external storage or remote server</li><li>• Built-in NTP server</li><li>• Supported tunnel: MPEG-4, H264 via RTSP over TCP, UDP, and HTTP</li></ul>
iOS/Android™ applications	DS file, DS finder, DS cam
Other packages	File Station, VPN Server, Storage Analyzer, Hyper Backup
Surveillance desktop client support	Windows 7 and 10, Mac OS X® 10.11 onwards
Supported browsers	Internet Explorer® 11 (excluding Microsoft Edge), Safari® 10 onwards
Interface language	English, Deutsch, Français, Italiano, Español, Dansk, Norsk, Svensk, Nederlands, Русский, Polski, Magyar, Português do Brasil, Português Europeu, Türkçe, Český, 日本語, 한국어, 繁體中文, 简体中文

## Environment and packaging

Environment	RoHS compliant
Package content	<ul style="list-style-type: none"><li>• NVR1218 main unit</li><li>• AC power adapter</li><li>• RJ-45 LAN cable</li><li>• USB installation dongle</li><li>• Quick Installation Guide</li><li>• Accessory pack</li></ul>
Optional accessories	Synology Expansion Unit DX517, Surveillance Device License Pack
Warranty	3 years <sup>3</sup>

\*Model specifications are subject to change without notice. Please refer to [www.synology.com](http://www.synology.com) for the latest information.

1. To set up NVR1218 without Internet connection, an HDMI monitor, USB mouse, and the bundled USB installation dongle are required. In this scenario, NVR1218 supports up to 4 IP cameras with the pre-installed camera licenses. Please refer to the Quick Installation Guide for details.
2. NVR1218 supports one Synology DX517, sold separately.
3. 5-year warranty is available as an optional bundle with EW201, the 2-year Extended Warranty service add-on. Visit [https://www.synology.com/en-global/products/Extended\\_Warranty](https://www.synology.com/en-global/products/Extended_Warranty) for more information on availability.

## SYNOLOGY INC.

Synology is dedicated to taking full advantage of the latest technologies to bring businesses and home users reliable and affordable ways to centralize data storage, simplify data backup, share and sync files across different platforms, and access data on-the-go. Synology aims to deliver products with forward-thinking features and the best in class customer services.

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NVR1218-2017-ENU-REV002

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