

VisualStation VS960HD



Synology VisualStation VS960HD is a compact, durable, and high-performance external display device built for Synology Surveillance Station 8 and onward¹. It comes with dual HDMI outputs supporting 4K and 1080p respectively, and supports 96 IP camera streams at 720p/10FPS. Synology VS960HD is backed by Synology's 3-year limited warranty.

PC-less Surveillance Management Solution

Synology VS960HD makes surveillance management simple. The palm-sized display device comes with **dual HDMI ports** supporting **4K** and **1080p** resolutions respectively, allowing monitoring up to **96 channels of real-time IP camera streams** at 720p/10FPS in a single 4K display monitor. The dual HDMI ports of VS960HD support **mirrored or extended desktop options** for flexible video monitoring layout arrangement. No need to use a costly, power-consuming and space-occupying computer for surveillance live view anymore.

When configured with a Synology NAS running **Surveillance Station 8** and onward¹, VS960HD supports direct control of Surveillance Station features such as **Live View**, **Timeline**, and **Recording List**. You can browse through historical video recordings stored in the paired NAS and export video clips or live view screenshots to an external USB drive. You can also configure IP camera recording settings, and edit privilege profiles for individual users directly from VS960HD for convenient surveillance management.

User-friendly Operation

VS960HD supports navigating between different camera streams with a USB mouse or keyboard. Live View layouts are fully customizable with a few drag-and-drops. USB joystick is also supported to operate IP cameras with PTZ (Pan-Tilt-Zoom) control. The audio input and output ports on VS960HD allow microphone and speaker connections for two-way voice communication via audio-enabled cameras.

Highlights

- PC-less surveillance live view and playback solution
- H.265 decoding and 4K output support
- Dual HDMI with extended desktop mode support
- 96-channel simultaneous HD live view
- Ultra compact palm size and fan-less design
- Endures industrial temperatures from -20°C to 50°C (-4°F to 122°F)
- VESA-compliant mounting kit included
- Works with Synology Surveillance Station 8 and onward

VESA Mount Compliance and Durable Design

VS960HD comes with a VESA mounting kit that is compatible to the back of any VESA-compliant monitor. The palm-sized display device easily hides behind the monitor, reducing clutter and providing maximum working space.

VS960HD also endures industrial temperatures from -20 °C to 50 °C (-4 °F to 122 °F), so there is no need to worry about overheating when installing VS960HD on the back of monitors or in harsh environments.



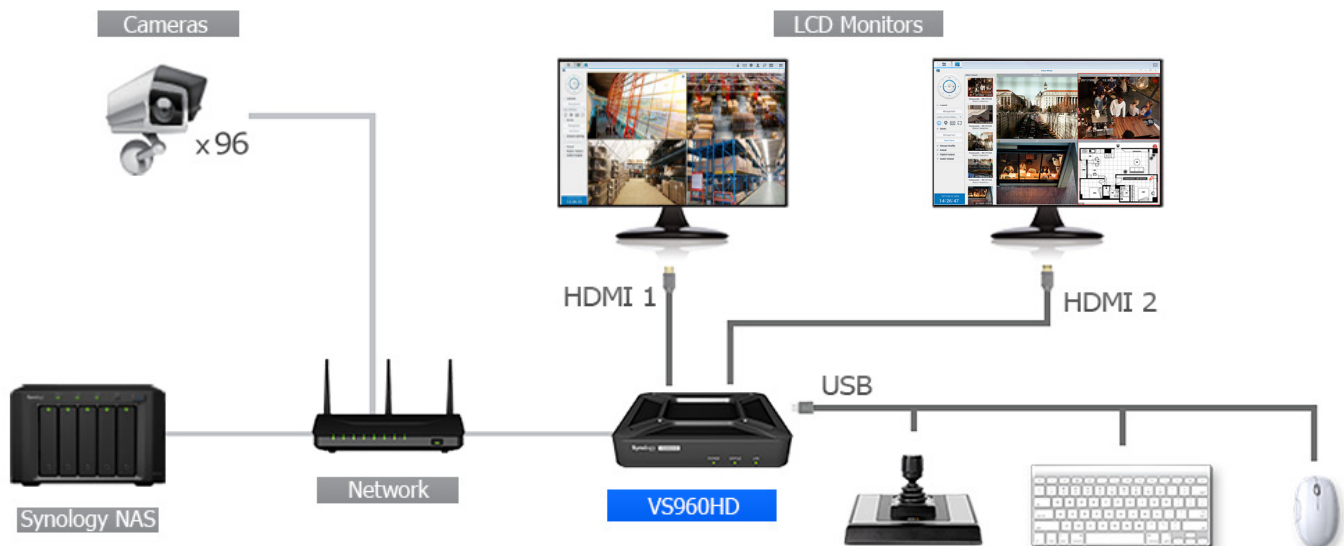
VESA Mount Compliance

VS960HD can be mounted to the back of any VESA-compliant monitor with the dedicated VESA mounting kit.

Wallet-Friendly and Energy-Efficient

Thanks to its fan-less design, VS960HD is completely silent and requires only 7.2W when operating with 96 channels. As a PC-less surveillance solution, VS960HD economizes on both equipment and energy costs in the long-run.

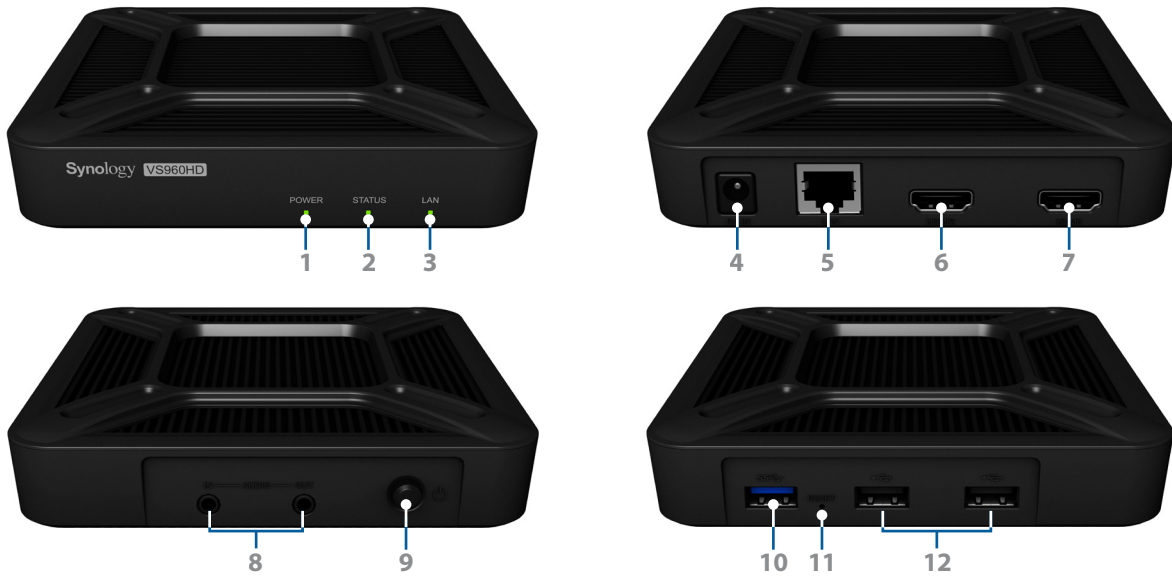
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Video Surveillance Made Easy with VS960HD

Configure VS960HD with a Synology NAS and enjoy a PC-less surveillance solution that simultaneously supports up to 96 IP cameras and two mirrored or extended display output.

Hardware Overview



| | | | | | | | |
|---|-----------------|----|-----------------------|----|--------------------|----|--------------|
| 1 | Power indicator | 2 | Status indicator | 3 | LAN indicator | 4 | Power port |
| 5 | 1GbE RJ-45 port | 6 | HDMI output 2 (1080p) | 7 | HDMI output 1 (4K) | 8 | Audio in/out |
| 9 | Power button | 10 | USB 3.0 port | 11 | Reset button | 12 | USB 2.0 port |

Technical Specifications

Hardware

| | |
|-----------------------------------|--|
| USB | USB 3.0 x 1, USB 2.0 x 2 |
| Video output | HDMI x 2 (Mirrored or extended display output) |
| Supported video output resolution | <ul style="list-style-type: none"> • HDMI1: 4K (3840 x 2160, 30Hz/60Hz) • HDMI2: 1080p (1920 x 1080, 60 Hz) |
| Audio input/output | 3.5 mm stereo audio jack x 2 (input/output) |
| Size (H x W x D) | 32 x 130 x 130 mm |
| Weight | 380 g |
| LAN | Gigabit x 1 |
| AC input power voltage | 100V to 240V AC |
| Power frequency | 50Hz to 60Hz, single phase |
| Operating temperature | <ul style="list-style-type: none"> • Chassis: -20 °C to 50 °C (-4 °F to 122 °F) • Adapter: 0 °C to 40 °C (32 °F to 104 °F) |
| Storage temperature | -20 °C to 60 °C (-4 °F to 140 °F) |
| Relative humidity | 5% to 95% RH |
| Power consumption | 7.2 W / 24.6 BTU/hr (96 channels), 4.9 W / 16.7 BTU/hr (Idle) |
| Agency certifications | EN45545, EN50155, FCC Class B, CE Class B, BSMI Class B |

Software

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|-------------------|--|
| Maximum IP camera | 96 (720p at 10FPS) |
| Total FPS (H.264) | <ul style="list-style-type: none"> • 960 FPS at 720p • 580 FPS at 1080p • 440 FPS at 3M • 250 FPS at 5M • 140 FPS at 4K |

| | |
|--------------------------|--|
| Total FPS (H.265) | <ul style="list-style-type: none"> • 900 FPS at 720P • 640 FPS at 1080P • 430 FPS at 3M • 250 FPS at 5M • 150 FPS at 4K |
| Video compression format | <ul style="list-style-type: none"> • H.264 • H.265 • MPEG4 • MJPEG |
| Audio codec | AAC, PCM, G711, G726, AMR |
| Live view | <ul style="list-style-type: none"> • Up to 96 channels in 720p/10PS • Support smart multi-stream switching technology • Pan Tilt Zoom (PTZ) and digital zoom support with configurable PTZ speed • On-screen controls to activate audio/digital outputs of external devices • On-screen camera controls including camera zoom, focus, iris adjustment, auto pan, and auto object tracking • Alert panel to quickly display the most recently triggered events • E-Map & Snapshot support • Snapshot editor support for instant editing after taking a snapshot |
| Playback | <ul style="list-style-type: none"> • Up to 96 channels synchronous and non-synchronous playback • Customizable layouts for playback in Timeline • Playback controls include pause, stop, previous recording, next recording, fast forward, slow motion, and digital zoom in/out • Frame by frame playback support • Snapshot support • Divide a recording into four equal-length sessions and playback concurrently |
| Management | <ul style="list-style-type: none"> • Add and edit IP camera, I/O module, Access Control, and Transaction devices • Create and manage admin/manager/spectator user privileges • Joystick supported for hot keys, and PTZ control supported for replacing mouse control • Virtual keyboard supported • HTTPS secured connection • System log |
| 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"> • VS960HD main unit • Quick Installation Guide • AC power adapter • RJ-45 LAN cable • VESA mounting kit |
| Warranty | 3 years ² |

*Model specifications are subject to change without notice. Please refer to www.synology.com for the latest information.

1. Synology Surveillance Station 8.0.2 and onward is required to support for VS960HD.
2. 5-year warranty is available as an optional bundle with EW201, 2-year Extended Warranty service add-on. Visit https://www.synology.com/products/Extended_Warranty for more information on availability.

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VS960HD-2017-ENU-REV001

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