# VIPER-H5S NVR RANGE

## 4, 8 AND 16 CHANNEL H.265 NVRS WITH POE

The Viper H5S 1U high NVRs can record real-time super 8MP resolution video. The 4, 8 and 16 channel options are equipped with PoE per input to allow simple installation and powering of cameras, using a single cat5e cable.

The H5S NVRs can record both the standard H.264 and newer, more efficient H.265 camera streams. H.265 has the advantage of allowing the same time period and frame rate to be recorded on a smaller size of drive, or higher resolution images to be recorded at the same rate and using the same drive space as the lower resolution H.264 streams.

As part of the Vista Viper range, the H5S NVRs can be linked into a single system by using the Viper VMC (Virtual Matrix Controller). The VMC is connected via an IP Network to multiple Viper devices (NVRs and hybrid DVRs), using its "WARP" function. The VMC can then display and control the cameras from each device on the network.

This allows the system designer to upgrade to higher resolution recording by utilising legacy coax cabling with TVI format analogue cameras, plus add in IP cameras onto the same system. To the system operator it appears as a single, simple to use, coherent system.

Each H5S NVR can have 2 hard drives installed internally, allowing for up to 16TB of storage. If this is not enough then additional storage can be added via iSCSI.

This massive storage can be easily interrogated using various filters including SMART and Thumbnail searches. The H5S is optimised for use with the VK2 range of cameras but can also be used with other ONVIF compliant IP cameras.

### KEY FEATURES

**H.265 and H.264 stream recording capability**

**Up to 8MP recording resolution**

**ONVIF compatibility**

**PoE on all camera channels**

**"WARP" function for multi-device control**

**SMART, Thumbnail and VCA search functions**

**Audio and text overlay recording**

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# TECHNICAL SPECIFICATION

| Model | VIPER-H5S-04 | VIPER-H5S-08 | VIPER-H5S-16 |
|---|---|---|---|
| **VIDEO** | | | |
| Video Input | 4 IP | 8 IP | 16 IP |
| Video Input Resolution | Up to 8MP | Up to 8MP | Up to 8MP |
| Compression | H.264, H.265 | H.264, H.265 | H.264, H.265 |
| Display Output | 1 VGA, 1 HDMI | 1 VGA, 1 HDMI | 1 VGA, 1 HDMI |
| Display Resolution | 3840x2160, 1920x1080, 1280x720, 1024x768 | 3840x2160, 1920x1080, 1280x720, 1024x768 | 3840x2160, 1920x1080, 1280x720, 1024x768 |
| Display Speed | 100/120fps | 200/240fps | 400/480fps |
| Display Mode | 1/4 Split, Sequence | 1/4/9 Split, Sequence | 1/4/9/16 Split, Sequence |
| **RECORDING** | | | |
| Recording Speed | 100@8MP | 200@8MP | 480fps@8MP |
| Max. Recording Throughput | 32Mbps | 64Mbps | 128Mbps |
| Recording Mode | Continuous, Motion, Alarm, C+M, C+A, M+A, C+M+A, Panic | Continuous, Motion, Alarm, C+M, C+A, M+A, C+M+A, Panic | Continuous, Motion, Alarm, C+M, C+A, M+A, C+M+A, Panic |
| Pre Alarm | 1sec ~ 5sec | 1sec ~ 5sec | 1sec ~ 5sec |
| Post Alarm | 5sec ~ 1 hour | 5sec ~ 1 hour | 5sec ~1 hour |
| **PLAYBACK** | | | |
| Simultaneous Playback | 1/4 Split | 1/4/9 Split | 1/4/9/16 Split |
| Playback Mode | Backward, Forward 2x~64x | Backward, Forward 2x~64x | Backward, Forward 2x~64x |
| Search Mode | Time, Event, Thumbnail, Text, Smart (motion), VCA | Time, Event, Thumbnail, Text, Smart (motion), VCA | Time, Event, Thumbnail, Text, Smart (motion), VCA |
| **STORAGE** | | | |
| Internal HDD | 2 SATA Interfaces (2 HDD) | 2 SATA Interfaces (2 HDD) | 2 SATA Interfaces (2 HDD) |
| RAID | - | - | - |
| External Storage | iSCSI | iSCSI | iSCSI |
| Backup | USB / Network | USB / Network | USB / Network |
| Backup File Format | AVI, MP4, H4V | AVI, MP4, H4V | AVI, MP4, H4V |
| **FUNCTION** | | | |
| Text In | POS/ATM (VSI-Pro, ASCII, Network) | POS/ATM (VSI-Pro, ASCII, Network) | POS/ATM (VSI-Pro, ASCII, Network) |
| User Interface | Mouse, USB/RS485 Keyboard | Mouse, USB/RS485 Keyboard | Mouse, USB/RS485 Keyboard |
| **NETWORK** | | | |
| Ethernet — WAN | 1 RJ45 10/100/1000 Base-T | 1 RJ45 10/100/1000 Base-T | 1 RJ45 10/100/1000 Base-T |
| Ethernet — PoE | 4 RJ45 10/100 Base-T | 8 RJ45 10/100 Base-T | 16 RJ45 10/100 Base-T |
| Ethernet — PoE power | 38W (IEEE802.3at compliance) | 73W (IEEE802.3at compliance) | 130W (IEEE802.3at compliance) |
| Max. Output Throughput | Unlimited (Guarantee 72Mbps, Support Bandwidth Control) (TBD) | Unlimited (Guarantee 144Mbps, Support Bandwidth Control) (TBD) | Unlimited (Guarantee 288Mbps, Support Bandwidth Control) (TBD) |
| Remote Monitoring | VIPER-Central, VIPER-Remote, Web, Dashboard | VIPER-Central, VIPER-Remote, Web, Dashboard | VIPER-Central, VIPER-Remote, Web, Dashboard |
| **EXTERNAL IN/OUT** | | | |
| Audio In | 1 RCA, 4 IP Camera | 1 RCA, 8 IP Camera | 1 RCA, 16 IP Camera |
| Audio Out | 1 RCA, 1 HDMI | 1 RCA, 1 HDMI | 1 RCA, 1 HDMI |
| Alarm In | 4 Input (Terminal block) | 8 Input (Terminal block) | 16 Input (Terminal block) |
| Alarm Out | 1 Output (Terminal block) | 1 Output (Terminal block) | 1 Output (Terminal block) |
| Serial Port | 1 RS485 (Terminal block) | 1 RS485 (Terminal block) | 1 RS485 (Terminal block) |
| USB | 2 USB2.0, 1 USB3.0 | 2 USB2.0, 1 USB3.0 | 2 USB2.0, 1 USB3.0 |
| **ETC** | | | |
| Operating Humidity | 0 ~ 90% RH (Non-condensing) | 0 ~ 90% RH (Non-condensing) | 0 ~ 90% RH (Non-condensing) |
| Operating Temperature | 0°C ~ +45°C | 0°C ~ +45°C | 0°C ~ +45°C |
| Power Supply | 48VDC, 1.2A | 48VDC, 2.0A | AC 110~220V |
| Power Consumption | 18.5W (Include 2HDD, Without PoE) | 21.12W (Include 2HDD, Without PoE) | 25W (include 2HDD, Without PoE) |
| Dimension(WxHxD) | 375x44.9x318.2mm | 375x44.9x318.2mm | 375x44.9x318.2mm |
| Net Weight | Approx. 2.2Kg (Exclude HDD) (TBD) | Approx. 2.5Kg (Exclude HDD) (TBD) | Approx. 2.9Kg (Exclude HDD) (TBD) |

*Specifications are subject to change without notice.

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No liability will be accepted by Vista for any errors or omissions in this information.
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DS - VIPER-H5S - Version 1

## MODELS IN THIS RANGE

**0394450**
**VIPER-H5S-04-000**
4 Chn PoE NVR H.265 (No Hard drives)

**0394460**
**VIPER-H5S-08-000**
8 Chn PoE NVR H.265 (No Hard drives)

**0394470**
**VIPER-H5S-16-000**
16 Ch PoE NVR H.265 (No Hard drives)

**0394480**
**VIPER-H5S-04-1TB**
4 Chn PoE NVR H.265 1TB

**0394490**
**VIPER-H5S-04-2TB**
4 Chn PoE NVR H.265 2TB

**0394500**
**VIPER-H5S-04-4TB**
4 Chn PoE NVR H.265 4TB

**0394510**
**VIPER-H5S-08-2TB**
8 Chn PoE NVR H.265 2TB

**0394520**
**VIPER-H5S-08-4TB**
8 Chn PoE NVR H.265 4TB

**0394530**
**VIPER-H5S-08-6TB**
8 Chn PoE NVR H.265 6TB

**0394540**
**VIPER-H5S-08-8TB**
8 Chn PoE NVR H.265 8TB

**0394550**
**VIPER-H5S-16-4TB**
16 Chn PoE NVR H.265 4TB

**0394560**
**VIPER-H5S-16-6TB**
16 Chn PoE NVR H.265 6TB

**0394570**
**VIPER-H5S-16-8TB**
16 Chn PoE NVR H.265 8TB

**0394580**
**VIPER-H5S-16-12TB**
16 Chn PoE NVR H.265 12TB

**0394590**
**VIPER-H5S-16-16TB**
16 Chn PoE NVR H.265 16TB

## MODELS IN THIS RANGE

**0749450**
**RACK SHELF**
2U Rack Shelf

**0467590**
**Under Shelf bracket**
1U brackets for mounting on under side of a shelf

**0363570**
**VKBD4**
PTZ Keyboard

THIS PRODUCT QUALIFIES FOR
vista
**3 YEAR**
ADVANCE
REPLACEMENT