

## DATASHEET

# VIPER-H5S NVR RANGE

4, 8 AND 16 CHANNEL H265 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**

## TECHNICAL SPECIFICATION

Model	VIPER-H5S-04	VIPER-H5S-08	VIPER-H5S-16	
<b>VIDEO</b>				
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	
<b>RECORDING</b>				
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	
<b>PLAYBACK</b>				
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	
<b>STORAGE</b>				
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	
<b>FUNCTION</b>				
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	
<b>NETWORK</b>				
Ethernet	WAN	1 RJ45 10/100/1000 Base-T	1 RJ45 10/100/1000 Base-T	1 RJ45 10/100/1000 Base-T
	PoE	4 RJ45 10/100 Base-T	8 RJ45 10/100 Base-T	16 RJ45 10/100 Base-T
	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	
<b>EXTERNAL IN/OUT</b>				
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	
<b>ETC</b>				
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.




No liability will be accepted by Vista for any errors or omissions in this information. Subject to change without notice.

DS - VIPER-H5S - Version 1

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## Models In This Range

**0394450**  
**VIPER-H5S-04-000**  
4 Chn PoE NVR H265 (No Hard drives)

**0394460**  
**VIPER-H5S-08-000**  
8 Chn PoE NVR H265 (No Hard drives)

**0394470**  
**VIPER-H5S-16-000**  
16 Chn PoE NVR H265 (No Hard drives)

**0394480**  
**VIPER-H5S-04-1TB**  
4 Chn PoE NVR H265 1TB

**0394490**  
**VIPER-H5S-04-2TB**  
4 Chn PoE NVR H265 2TB

**0394500**  
**VIPER-H5S-04-4TB**  
4 Chn PoE NVR H265 4TB

**0394510**  
**VIPER-H5S-08-2TB**  
8 Chn PoE NVR H265 2TB

**0394520**  
**VIPER-H5S-08-4TB**  
8 Chn PoE NVR H265 4TB

**0394530**  
**VIPER-H5S-08-6TB**  
8 Chn PoE NVR H265 6TB

**0394540**  
**VIPER-H5S-08-8TB**  
8 Chn PoE NVR H265 8TB

**0394550**  
**VIPER-H5S-16-4TB**  
16 Chn PoE NVR H265 4TB

**0394560**  
**VIPER-H5S-16-6TB**  
16 Chn PoE NVR H265 6TB

**0394570**  
**VIPER-H5S-16-8TB**  
16 Chn PoE NVR H265 8TB

**0394580**  
**VIPER-H5S-16-12TB**  
16 Chn PoE NVR H265 12TB

**0394590**  
**VIPER-H5S-16-16TB**  
16 Chn PoE NVR H265 16TB

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