

**DATASHEET** 

# **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

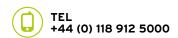
"WARP" function for multidevice control

SMART, Thumbnail and VCA search functions

Audio and text overlay recording







#### **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,<br>1280x720, 1024x768   | 3840x2160, 1920x1080,<br>1280x720, 1024x768  | 3840x2160, 1920x1080,<br>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,<br>C+M, C+A, M+A, C+M+A, Panic   | Continuous, Motion, Alarm,<br>C+M, C+A, M+A, C+M+A, Panic  | Continuous, Motion, Alarm,<br>C+M, C+A, M+A, C+M+A, Panio   |
| 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,<br>Smart (motion), VCA  | Time, Event, Thumbnail, Text,<br>Smart (motion), VCA   | Time, Event, Thumbnail, Text,<br>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   | 200 (47)  | DOG/LTLA   | DOC/ATA   |
| Text In  | POS/ATM<br>(VSI-Pro, ASCII, Network)  | POS/ATM<br>(VSI-Pro, ASCII, Network)   | POS/ATM<br>(VSI-Pro, ASCII, Network)  |
| User Interface   | Mouse, USB/RS485 Keyboard   | Mouse, USB/RS485 Keyboard  | Mouse, USB/RS485 Keyboard   |
| NETWORK  |   |  |   |
| 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   |
| PoE power  | er 38W (IEEE802.3at compliance)   | 73W (IEEE802.3at compliance)   | 130W (IEEE802.3at compliance  |
| Max. Output Throughput   | Unlimited<br>(Guarantee 72Mbps, Support<br>Bandwidth Control) (TBD)<br>VIPER-Central, VIPER-Remote,                           | Unlimited<br>(Guarantee 144Mbps, Support<br>Bandwidth Control) (TBD)<br>VIPER-Central, VIPER-Remote,     | Unlimited<br>(Guarantee 288Mbps, Support<br>Bandwidth Control) (TBD)<br>VIPER-Central, VIPER-Remote |
| Remote Monitoring  | Web, Dashboard  | Web, Dashboard   | 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   |
|  | 4 Input (Terminal block)  | 8 Input (Terminal block)   | 16 Input (Terminal block)   |
| Alarm In   | 1 Output (Tarminal blook)   | 1 Output (Terminal block)  | 1 Output (Terminal block)   |
| Alarm In<br>Alarm Out  | 1 Output (Terminal block)   |  |   |
| Alarm Out  | 1 RS485 (Terminal block)  | 1 RS485 (Terminal block)   | 1 RS485 (Terminal block)  |
| Alarm Out<br>Serial Port   |   | 1 RS485 (Terminal block)<br>2 USB2.0, 1 USB3.0   | 1 RS485 (Terminal block)<br>2 USB2.0, 1 USB3.0  |
| Alarm Out<br>Serial Port<br>USB  | 1 RS485 (Terminal block)  |  |   |
| Alarm Out<br>Serial Port<br>USB<br>ETC   | 1 RS485 (Terminal block)  |  | 2 USB2.0, 1 USB3.0  |
| Alarm Out<br>Serial Port<br>USB<br><b>ETC</b><br>Operating Humidity                          | 1 RS485 (Terminal block)<br>2 USB2.0, 1 USB3.0  | 2 USB2.0, 1 USB3.0   | 2 USB2.0, 1 USB3.0  |
| Alarm In Alarm Out Serial Port USB ETC Operating Humidity Operating Temperature Power Supply | 1 RS485 (Terminal block) 2 USB2.0, 1 USB3.0  0 ~ 90% RH (Non-condensing) 0°C ~ +45°C 48VDC, 1.2A                              | 2 USB2.0, 1 USB3.0  0 ~ 90% RH (Non-condensing)  0°C ~ +45°C  48VDC, 2.0A                                | 2 USB2.0, 1 USB3.0  0 ~ 90% RH (Non-condensing  |
| Alarm Out Serial Port USB ETC Operating Humidity Operating Temperature                       | 1 RS485 (Terminal block) 2 USB2.0, 1 USB3.0  0 ~ 90% RH (Non-condensing) 0°C ~ +45°C  | 2 USB2.0, 1 USB3.0  0 ~ 90% RH (Non-condensing)  0°C ~ +45°C   | 2 USB2.0, 1 USB3.0  0 ~ 90% RH (Non-condensing 0°C ~ +45°C  |
| Alarm Out Serial Port USB ETC Operating Humidity Operating Temperature Power Supply          | 1 RS485 (Terminal block) 2 USB2.0, 1 USB3.0  0 ~ 90% RH (Non-condensing) 0°C ~ +45°C 48VDC, 1.2A 18.5W (Include 2HDD, Without | 2 USB2.0, 1 USB3.0  0 ~ 90% RH (Non-condensing)  0°C ~ +45°C  48VDC, 2.0A  21.12W (Include 2HDD, Without | 2 USB2.0, 1 USB3.0  0 ~ 90% RH (Non-condensing  |

 ${}^*\mathsf{Specifications}$  are subject to change without notice.

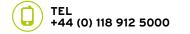


No liability will be accepted by Vista for any errors or omissions in this information. Subject to change without notice.

DS - VIPER-H5S - Version 1







#### **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**

0567480

VIPER-1U-RM

Rack mounts for 1U VIPERs

0467590

Under Shelf bracket

1U brackets for mounting on under side of a shelf

0363570

VKBD4 PTZ Keyboard

