

PRODUCT SPECIFICATION 3VR 4100-SERIES



3VR's 4100-series of hybrid network video recorders (NVR/HVR) are a powerful and versatile workhorse solution for medium-sized installations using analog or IP cameras – or both. If high reliability is a concern, the 4100-series is available in RAID as well as non-RAID configurations using enterprise-class hard drives with a 3-year warranty on hardware included.

Pre-loaded with VisionPoint™ VMS video management software, the rack-mountable 4100-series offers seamless integration with POS, Access Control, ATM, Teller, and other external systems. When combined with 3VR's award-winning analytics, the backbone of 3VR's powerful forensic search capabilities, the 4100-series becomes an even more powerful solution providing business intelligence and the ability to find suspects and evidence fast. Whether using as a standalone NVR or hybrid NVR or with 3VR's Enterprise Server, the 4100-series is versatile, powerful, and reliable. Designed to fit your security and analytics needs.

FLEXIBLE HYBRID SOLUTION

- Hybrid models incorporate 16 or 32 analog camera licenses with 8 IP licenses included. NVR models include 8 IP licenses.¹
- Expand system capacity on all models by adding more IP licenses. 64 IP licenses are supported.¹
- Mix and match analog, IP, 360p, megapixel, and PTZ cameras for maximum flexibility.
- High-quality audio and video storage using MPEG-4 or H.264 compression.
- Storage options include 2, 4, or 6TB RAID and 2, 4, 6, 8 or 12TB non-RAID configurations in a stylish 2U rackmount chassis.
- Field Upgradeable Storage allows flexibility when security needs grow.

ENTERPRISE PERFORMANCE

- Use as part of a large enterprise system, or as a standalone NVR. Enterprise server optional.

SEAMLESS INTEGRATION

- Integrates with POS, Access Control, ATM, Teller & other external systems. Custom integration available.
- Most major camera manufacturers connect to 3VR systems. See www.3vr.com for details.

HIGH RELIABILITY

- Real-time health monitoring of cameras, recording, network and hardware.
- Enterprise-class HDDs for reliability.
- 3-year warranty on hardware.

VIDEO MANAGEMENT

- VisionPoint™ VMS video management software included, featuring 3VR's award-winning interface.
- Case Management, Forensic Search, Live Monitoring, and much more. See VisionPoint™ VMS data sheet.²

¹ For details on the supported combinations of 3VR analytics, IP and analog cameras, and 3VR applications, consult the Solutions Overview Guide at <http://www.3vr.com/nvrs>. Contact your 3VR Sales Representative with any questions.

² For information about VisionPoint™ VMS video management software is included with every 3VR appliance, please visit <http://www.3vr.com/products/video-managementsoftware-vm>

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Specifications

ANALOG CAMERA SUPPORT (HYBRID MODELS)

Analog Recording Resolutions	NTSC: 704x480, 320x240; PAL: 704x576, 352x288
Video Encoding	H.264 (MPEG4 Part 10)
Maximum Images per Second (NTSC/PAL)	30ips/ch @ 4CIF (480/960ips total)
Analog Camera Inputs	16 or 32 inputs
Analog PTZ Control	Pelco-D, Manchester (AD) & Panasonic protocols

IP CAMERA SUPPORT (NVR & HYBRID MODELS)

IP/MP Cameras Supported	Yes ⁴
Maximum Resolution	10+ megapixels
Number of IP Cameras Supported	64 VGA, 48 1.3MP (Less if analytics are used)
Video Codec Support	H.264/MPEG-4/MJPEG
Maximum Images per Second	30ips/ch
Hybrid IP Camera Licenses	8 IP licenses included
IP PTZ Support	Yes ⁴

AUDIO

Analog Audio Inputs	Equal to analog video inputs
Analog Audio Codec	G.711, 8bit/8kHz, 64kbit/s, unidirectional
IP Camera Audio Support	Yes ⁴
IP Supported Codecs	AAC, G.711

SYSTEMS AND NETWORK MANAGEMENT

Bandwidth Throttling	Yes
Bandwidth Scheduling	Yes
Adaptive Bandwidth Use	Yes, image-only transmission
Remote Connection	TCP/IP (IPv4)
Simultaneous Remote Connections	Unlimited
Remote System Configuration & Management and Health Monitoring	Yes
Enterprise Configuration, Management, Health Monitoring and Health Alerting	Optional with VisionPoint™ Enterprise Server.
UPS Support	Yes, APC Smart UPS model

SOFTWARE

Video Management	VisionPoint™ VMS ²
Software Version	Supports 8.1 and above

THIRD-PARTY INTEGRATION

Third-party Data Integration (e.g. ATM, POS, Access Control, etc.)	Yes ⁴
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STORAGE

Storage Capacity	RAID-1: 2, 4 or 6TB JBOD: 2, 4, 6, 8 or 12TB
Drive Type	SATA
RAID	RAID-1
Hot Swappable Drives	Yes
Drive Bays	2

INPUTS AND OUTPUTS

Type of Camera Inputs	Analog, IP, MP, and PTZ cameras supported. ⁴
Monitor Output	2 X HDMI, 1 X DVI, VGA with converter
Display Resolution	Up to 1600 x 1200
SpotMonitor	2 X HDMI, 1 X DVI, VGA with converter
Network (NIC)	2 x 1Gb Ethernet port (4 x 1Gb optional)
USB	8 ports (4 x 2.0 & 4 x 3.0)
Alarm Inputs / Outputs	Optional External Alarm I/O
Serial Port	2x (RS-232/422/485) configurable with internal jumpers
DVD-RW	Optional USB Drive
Keyboard and Mouse	Included

PHYSICAL

Dimension (HxWxD)	3.44" x 16.9" x 12.07"
Rack Units	2 RUs, 19" rack-mountable
Mounting	Optional rack rails or wall-mounting brackets available
Unit Weight	13 lbs. (5.90 kg)
Shipping Weight	17 lbs. (7.7 kg)

ENVIRONMENTAL AND WARRANTY

Operating Temperature	41° ~ 104° F (5° ~ 40° C)
Heat Dissipation	850 BTU/h max (based on 250W PSU)
Humidity	20% to 80% RH (noncondensing)
Storage Conditions	14° to 140°F (-10° to 60°C)
Hardware Warranty	3 years

ELECTRICAL

Power	100-240VAC, 50-60Hz, 250 watts, 5A
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Part Numbering:

H	V	R	-	4	1	3	2	-	0	0	6	T	1
HVR or NVR				Model Number	Number of Channels				HDD Storage 002T=2TB 016T=16TB		RAID or JBOD 1=RAID 0=JBOD		

¹ For details on the supported combinations of 3VR analytics, IP cameras, and 3VR applications, consult the Solutions Overview Guide in the Partner Portal: <http://partners.3vr.com/>. Contact your 3VR Sales Representative with any questions

² For information about 3VR's VisionPoint™ VMS video management software that is included with every 4100-Series appliance, visit <http://www.3vr.com/products/videomanagementsoftware-vms>

³ For more information on 3VR analytics, visit <http://www.3vr.com/products/videomanagementsoftware-vms>

⁴ For a list of supported cameras and technology partners, visit <http://www.3vr.com/partners/technologypartners>

⁵ For information on optional Alarm inputs, visit <http://www.3vr.com/sites/default/files/archive/files/adaminputintegration.pdf>