Quantum

VS-HCI SERIES

IT Infrastructure for Mission-Critical Surveillance and Security

DATASHEET

FEATURES & BENEFITS

Resilience and High Availability
The VS-HCI Series patented system-level resilience and data protection technology ensures you can continue to store, access, and analyze video even in the event of disks or an appliance failure. Storage will remain online, applications automatically failover and restart, and recorded video will remain protected and accessible, all without the need for redundant software, licensing, or hardware.

Simplified Management
The VS-HCI Series hyperconverged software automates many management tasks such as resource allocation, health monitoring, self healing, and upgrade orchestration, meaning no specialized skills are needed to manage this enterprise-class infrastructure.

Flexible Scalability
Deploy the VS-HCI Series with only the server and storage resources you currently need, minimizing your upfront costs. As camera counts grow, new camera technologies are deployed, or retention times increase, add just the storage, compute, GPU, and bandwidth needed by simply adding appliances, with no system downtime.

Purpose-Built for Video
Optimized to handle the unique requirements of modern video surveillance workloads, the VS-HCI Series eliminates frame drops to ensure video loss and image degradation never occur. Every VS-HCI appliance's storage and performance resources are aggregated and available to every camera, so you can be confident that cameras will get the sustained performance they require, even in the event of hardware failure.

Better Economics
With the VS-HCI Series, you require less hardware to support the needed camera counts and storage capacity. Consolidating multiple applications on the VS-HCI Series eliminates other standalone server hardware in your environment, reducing upfront and ongoing power, cooling, and maintenance costs.

Software-based intelligence designed for video surveillance.

The Quantum VS-HCI™ Series is purpose-built for supporting video management systems (VMS), video storage, and video analytics, plus enabling the consolidation of other related applications such as access control onto an integrated server and storage platform called hyperconverged infrastructure (HCI).

The Quantum VS-HCI Series uses innovative software-based intelligence and automation to simplify management, provide the highest levels of resilience and efficiency, and ensure scaling and maintenance are easy. It is designed for customers and systems integrators that value a complete solution, both video surveillance hardware and software from a single source.

VS-HCI Series appliances are available with the option of either Quantum USP™ or Acuity* hyperconverged infrastructure software installed and configured on certified server hardware to provide the right balance of performance, storage density, and cost for video surveillance environments.

**Acuity software is formerly Pivot3 Acuity Hyperconverged Infrastructure and is available for installed Pivot3 customers expanding their deployments or customers who prefer the VMware hypervisor.*

LEARN MORE:
www.quantum.com/video-surveillance

Technical Specifications

Model Name	VS2012D-HCIn Normal HCI Node VS2012D-HCIs Storage-Only Node	VS2016D-HCIn Normal HCI Node VS2016D-HCIs Storage-Only Node	VS2024D-HCIn Normal HCI Node VS2024D-HCIs Storage-Only Node
Hyperconverged Software Platform	Quantum Unified Surveillance Platform™ (USP) or Pivot3 Acuity Surveillance Edition	Quantum Unified Surveillance Platform (USP) or Pivot3 Acuity Surveillance Edition	Quantum Unified Surveillance Platform (USP) or Pivot3 Acuity Surveillance Edition
Form Factor	2U	2U	2U
HDD Capacity (TB, per appliance)	24,96,144,192	64,128,192,256	288, 384
SSD Capacity (TB)	-	-	-
SSD Caching	Yes	Yes	No
Max Appliances per vPG*	16	16	16
Max Storage per vPG	3.07 PB	4.09 PB	6.14 PB
Virtualization	USP - KVM Acuity - VMware ESXi	USP - KVM Acuity - VMware ESXi	USP - KVM Acuity - VMware ESXi
Optional GPU	Up to 2x Single Wide NVIDIA GPUs (e.g. A2, RTX A4000, L4) or 1x Double Wide NVIDIA GPU (e.g. A16, A40, A100, RTX A4500, L40, H100)	-	-
Processor	Intel® Xeon® Scalable Processors 1x 12 Cores, 2x 12 Cores or 2x 20 Cores (Normal HCI Node) or 1x 8 Cores (Storage-only Node)	Intel® Xeon® Scalable Processors 1x 12 Cores, 2x 12 Cores or 2x 20 Cores (Normal HCI Node) or 1x 8 Cores (Storage-only Node)	Intel® Xeon® Scalable Processors 2x 12 Cores or 2x 20 Cores (Normal HCI Node) or 2x 8 Cores (Storage-only Node)
RAM (GB)	96, 128 or 192 (Normal HCI Node) or 32 GB (Storage-only Node)	96, 128 or 192 (Normal HCI Node) or 32 GB (Storage-only Node)	96, 128 or 192 (Normal HCI Node) or 32 GB (Storage-only Node)
Network Connectivity	6x 10 GbE (SFP+ or RJ45) (Normal HCI Node) or 4x 10 GbE (SFP+ or RJ45) (Storage-only Node)	6x 10 GbE (SFP+ or RJ45) (Normal HCI Node) or 4x 10 GbE (SFP+ or RJ45) (Storage-only Node)	6x 10 GbE (SFP+ or RJ45) (Normal HCI Node) or 4x 10 GbE (SFP+ or RJ45) (Storage-only Node)

** A Virtual Performance Group (vPG) is a logical, scale-out construct that includes both virtualized servers and storage.*

Quantum

Quantum technology, software, and services provide the solutions that today's organizations need to make video and other unstructured data smarter – so their data works for them and not the other way around. With over 40 years of innovation, Quantum's end-to-end platform is uniquely equipped to orchestrate, protect, and enrich data across its lifecycle, providing enhanced intelligence and actionable insights. Leading organizations in cloud services, entertainment, government, research, education, transportation, and enterprise IT trust Quantum to bring their data to life, because data makes life better, safer, and smarter. Quantum is listed on Nasdaq (QMCO) and the Russell 2000® Index. For more information visit www.quantum.com.