VICON
VALERUS

Valerus Shadow Elite RAID Recording Servers

Top-of-the-line recording servers with RAID, redundant power supply and remote management capabilities



Up to 800 Mbps

Up to 250 Video Channels

Up to 672 TB Storage

Powered by Dell and Intel Technology

Summary

The Valerus Shadow Elite RAID Recording Servers offer the best-in-class components and top-of-the-line processors to empower large-scale, enterprise surveillance operations. They support RAID 5 or 6, redundant power supply and an Integrated Dell Remote Access Controller (iDRAC) for fast and secure remote management. The RAID recording servers offer a choice of 1U or 2U form factors and storage options for any sized application, including our high-density 2U-RAID 6 racks, that give you more storage with a smaller footprint than you would find with traditional NVRs.

Product at a Glance

- Available in 1U or 2U racks
- Hardware RAID 5/6 with Dual RPS
- Install quickly with Valerus pre-installed
- Powered by best-in-class Dell and Intel technology
- Offers peace of mind with 5-year warranty with next business day, on-site support
- Safeguard your system with Secure Boot, TPM 2.0

Powered by Dell & Intel for Machines that Last

- Top-of-the-line components ensure long-lasting performance
- Future-proof your operation with the latest-gen technology

Installs in Minutes with Preloaded Valerus Software

- VMS and OS software are pre-installed and pre-tested
- Certified for plug-and-play operation out-of-the-box

Backed by a 5-Year Warranty and 24/7 Support

- Includes next business day on-site support
- Covers all components (including HDD)

Specifications (Vicon-Certified Hardware)

Model	Rack-Mount VERA-1UXXXR5-XX	Rack-Mount VERA-2UXXXR5-XX	Rack-Mount VERA-2UXXXR6-XX
Operating System:	Microsoft® Windows® 11 Enterprise IoT LTSC; Windows Server		
CPU/RAM:	Xeon®; 32 GB DDR5	Xeon; 32 GB DDR5	Xeon; 32 GB DDR5
OS Drive:	480 GB SSD (RAID-1)		480 GB SSD (RAID-1)
Supported Data Drives:	4×3.5"	12×3.5"	28×3.5"
Drives Configuration:	RAID 5	RAID 5	RAID 6
Max. Storage (Gross):	80 TB	240 TB	672 TB
Networking:	2x 1 GbE; 1x RJ-45 iDRAC		4x 1GbE RJ-45 (Broadcom NetExtreme 5720); 2x 10GbE BaseT; 1x RJ-45 for iDRAC
Video:	Single VGA, 1920 x 1200 (WUXGA) max; includes HDMI adapter		
Additional Rear Panel I/O:	2x USB 3.0; 1x VGA; 1x Serial	1x USB 2,0; 1x USB 3.0; 1x VGA;	1x USB 2.0
Front Panel I/O:	1x USB 2.0; 1x Micro USB for iDRAC	1x USB 2.0; 1x Micro USB for iDRAC; 1x VGA	1x USB 2.0; 1x Micro USB for iDRAC with LED; Power Button; Status LEDs
Electrical			
Redundant Power Supply:	600 W (Dual)	800 W (Dual)	1100 W (Dual)
Typical Power Consumption:	250 W (850 BTU	400 W (1365 BTU)	370 W (1300 BTU)
Max. Power Consumption:	300 W (1000 BTU)	550 W (1800 BTU	420 W (1500 BTU)
Mechanical			
Application:	Indoor		
Mounting:	Rack mount; 1U	Rack mount; 2U	Rack mount; 2U
Dimensions (HxWxD):	1.7 x 19 x 21.9 in. (42.8 x 483 x 556.2 mm) (with bezel)	3.5 x 19 x 28.4 in. (89 x 483 x 721.6 mm) (with bezel)	3.4 x 19 x 34.4 in. (86.8 x 483 x 872.7 mm)
Weight:	29.17 lb (13.23 kg)	63.53 lb (28.82 kg)	102.1 lb (46.3 kg)
Construction:	Steel and plastic		
Environmental			
Operating Temperature:	50° to 95° F (10° to 35° C)	73° to 95° F (23° to 35° C)	41° to 104° F (5° to 40° C)
Relative Humidity:	5 to 95%, non-condensing	5 to 85%, non-condensing	
Country of Origin:	Mexico		

*Mini-DP to HDMI adapters are included.

Ordering Information Scheme

Model	Mounting Type	HDD Storage	RAID	Model Number†
Recording Server preconfigured with Valerus VMS system with internal storage.	1U Rack-Mount	Up to 80 TB	RAID 5	VERA-1UXXXR5-XX
	2U Rack-Mount RAID 5	Up to 240 TB	RAID 5	VERA-2UXXXR5-XX
	2U Rack-Mount RAID 6	Up to 672 TB	RAID 6	VERA-2UXXXR6-XX

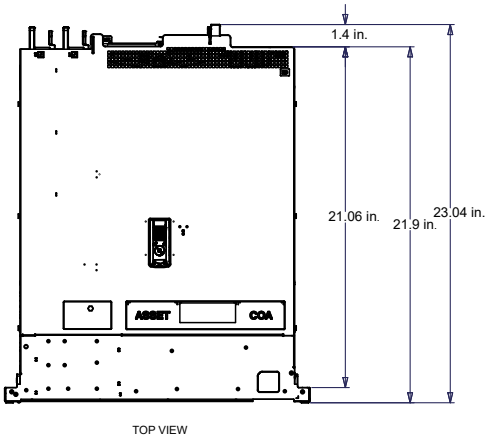
†XXX indicates gross amount of TB storage; XX indicates usable amoutnt of storage.

RAID NVR: 1U Rack-Mount (RAID 5) Form Factor Models

See table below for performance information. Each includes five year NBD onsite KYHD (Keep Your Hard Drive) warranty with UL/FCC/CE and other required certifications.

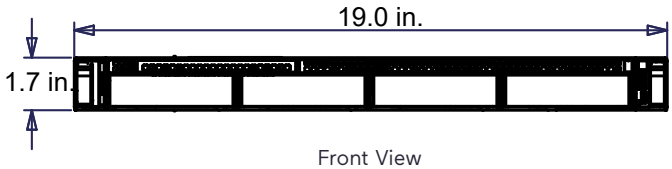
Model	Storage
VERA-1U48R5-32	48 TB gross storage (32 TB usable storage)
VERA-1U64R5-43	64 TB gross storage (43 TB usable storage)
VERA-1U80R5-54	80 TB gross storage (54 TB usable storage)

Dimensional Drawing



TOP VIEW

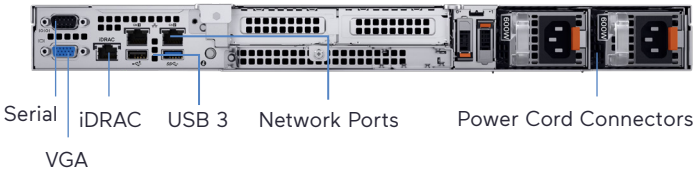

Side View



Front View

Front and Rear Panel Controls and Connectors





Valerus RAID NVR Performance

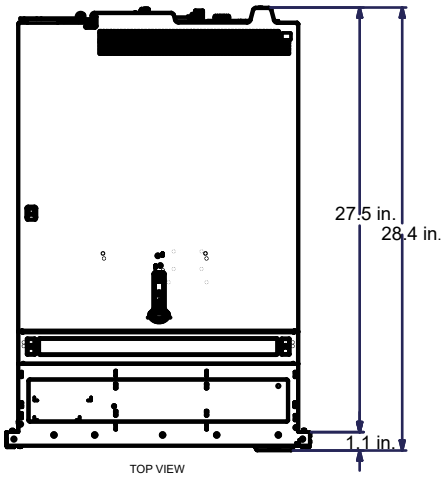
Recording Server	Data Rate (Mbits)	Number Video Channels	Number of Data Drives
RAID 5 Recording 1U Server	Up to 500	Up to 200	4

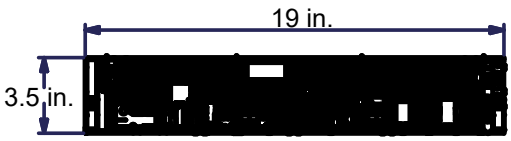
RAID NVR: 2U Rack-Mount (RAID 5) Form Factor Models

See table below for performance information. Each includes five year NBD onsite KYHD (Keep Your Hard Drive) warranty with UL/FCC/CE and other required certifications.

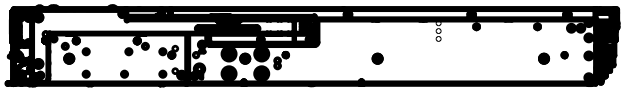
Model	Storage
VERA-2U84R5-65	84 TB gross storage (65 TB usable storage)
VERA-2U96R5-76	96 TB gross storage (76 TB usable storage)
VERA-2U120R5-90	120 TB gross storage (90 TB usable storage)
VERA-2U140R5-108	140 TB gross storage (108 TB usable storage
VERA-2U160R5-126	160 TB gross storage (126 TB usable storage)
VERA-2U180R5-144	180 TB gross storage (144 TB usable storage)
VERA-2U200R5-162	200 TB gross storage (162 TB usable storage)
VERA-2U220R5-180	220 TB gross storage (180 TB usable storage)
VERA-2U240R5-198	240 TB gross storage (198 TB usable storage)

Dimensional Drawing





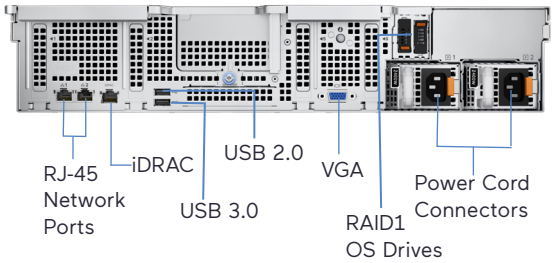
Front View



Side View

Front and Rear Panel Controls and Connectors





Valerus RAID NVR Performance

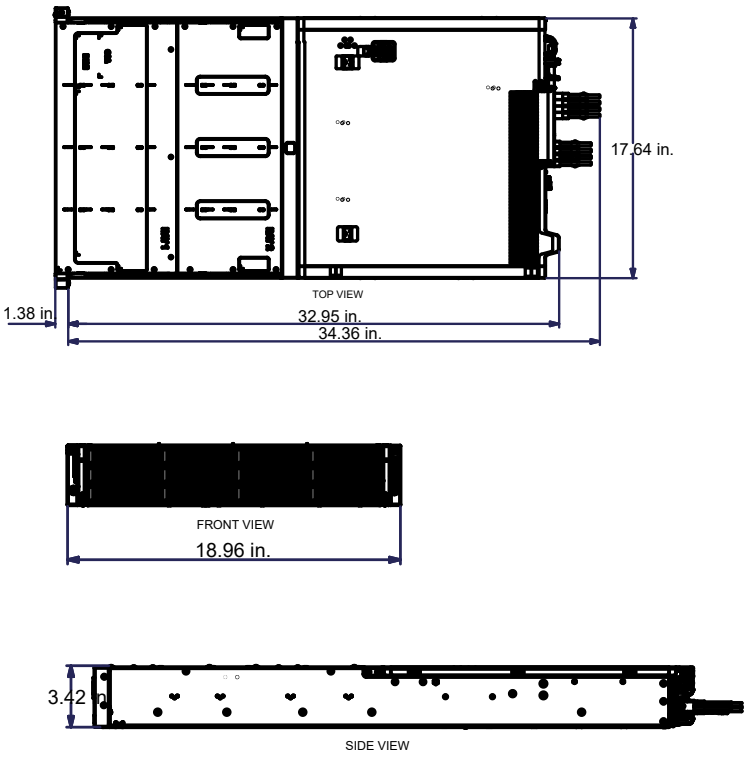
Recording Server	Data Rate (Mbits)	Number Video Channels	Number of Data Drives
RAID 5 Recording 2U Server	Up to 600	Up to 200	12

RAID NVR: 2U Rack-Mount (RAID 6) Form Factor Models

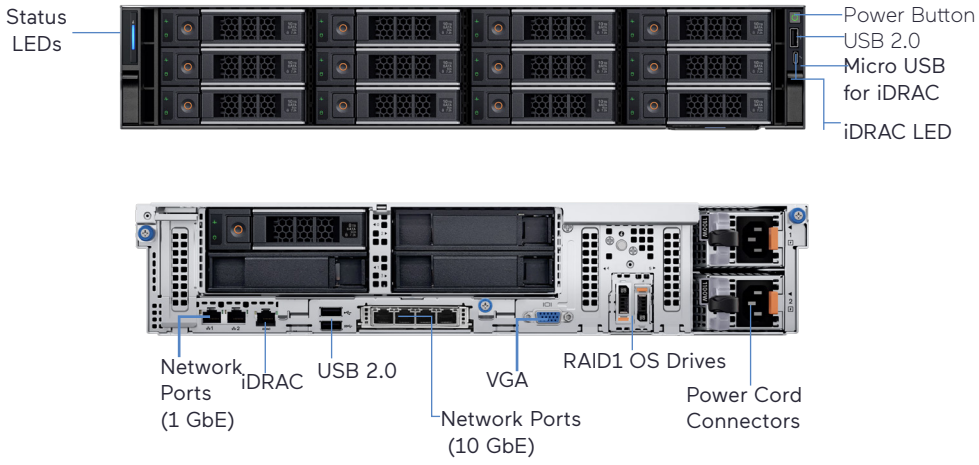
See table below for performance information. Each includes five year NBD onsite KYHD (Keep Your Hard Drive) warranty with UL/FCC/CE and other required certifications.

Model	Storage
VERA-2U280R6-216	280 TB gross storage (216 TB usable storage)
VERA-2U300R6-234	300 TB gross storage (234 TB usable storage)
VERA-2U320R6-252	320 TB gross storage (252 TB usable storage)
VERA-2U340R6-270	340 TB gross storage (270 TB usable storage)
VERA-2U360R6-288	360 TB gross storage (288 TB usable storage)
VERA-2U380R6-306	380 TB gross storage (306 TB usable storage)
VERA-2U400R6-324	400 TB gross storage (324 TB usable storage)
VERA-2U420R6-342	420 TB gross storage (342 TB usable storage)
VERA-2U440R6-360	440 TB gross storage (360 TB usable storage)
VERA-2U460R6-378	460 TB gross storage (378 TB usable storage)
VERA-2U480R6-396	480 TB gross storage (396 TB usable storage)
VERA-2U500R6-414	500 TB gross storage (414 TB usable storage)
VERA-2U520R6-432	520 TB gross storage (432 TB usable storage)
VERA-2U540R6-450	540 TB gross storage (450 TB usable storage)
VERA-2U560R6-468	560 TB gross storage (468 TB usable storage)
VERA-2U672R6-562	672 TB gross storage (562 TB usable storage)

Dimensional Drawing



Front and Rear Panel Controls and Connectors



Valerus RAID NVR Recording Performance

Recording Server	Data Rate (Mbits)	Number Video Channels	Number of Data Drives
RAID 6 Recording 2U Server	Up to 800	Up to 250	28

Data Sheet Number: V323-01-09 Rev 7/26
Vicon Data Sheet Number: 8009-7323-01-09

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