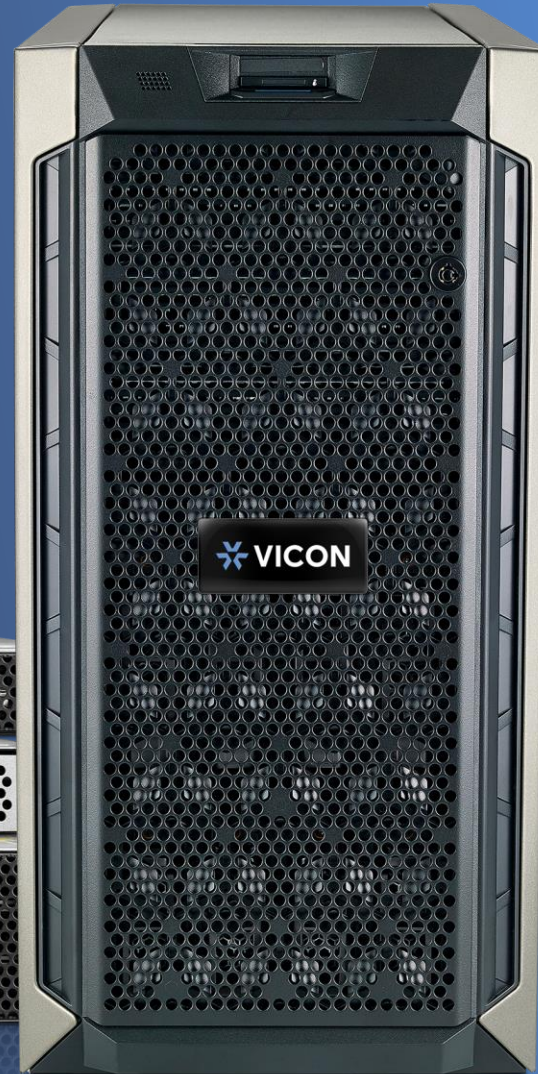




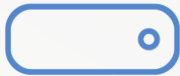
# Introducing Vicon's New Generation of Valerus Hardware Shadow Elite



# Why Shadow Elite?



# High Performance Servers and Workstations for High-Demand Operations



## Increase Retention

Increased storage capacity means you can keep more footage for longer.



## Trusted Technology

Built with Dell & Intel Technology for long-lasting performance.



## More Throughput

Get higher throughputs so you can manage more cameras than ever before.



## Optimized for Valerus

We get rid of the bloatware and pre-configure the Servers with Valerus, so you get more from your investment with less set-up time.







# Installation and Operation Made Easy



## Pre-Configured Servers for Faster Installs

Valerus comes pre-installed and pre-configured, cutting down installation time. Storage drives will be installed, and if RAID, the array will be configured.



## Activate in Minutes

Simply activate your license in a few simple steps and you're ready to go.



## Get Free Licenses

Each Shadow Elite machine includes free Valerus PRO licenses, so you get more bang for your buck.



# Built to Last and Backed by the Best Support in the Industry



## 5-Year Warranty

All Shadow Elite machines are backed by a 5-year warranty with next-business-day, Keep Your Hard Drive, on-site support.



## Single Point of Contact

There's no need to jump between hardware and software vendors—we've got your back the whole way.



## 24/7 US-Based Support

You always have access to Vicon's world-renowned support.

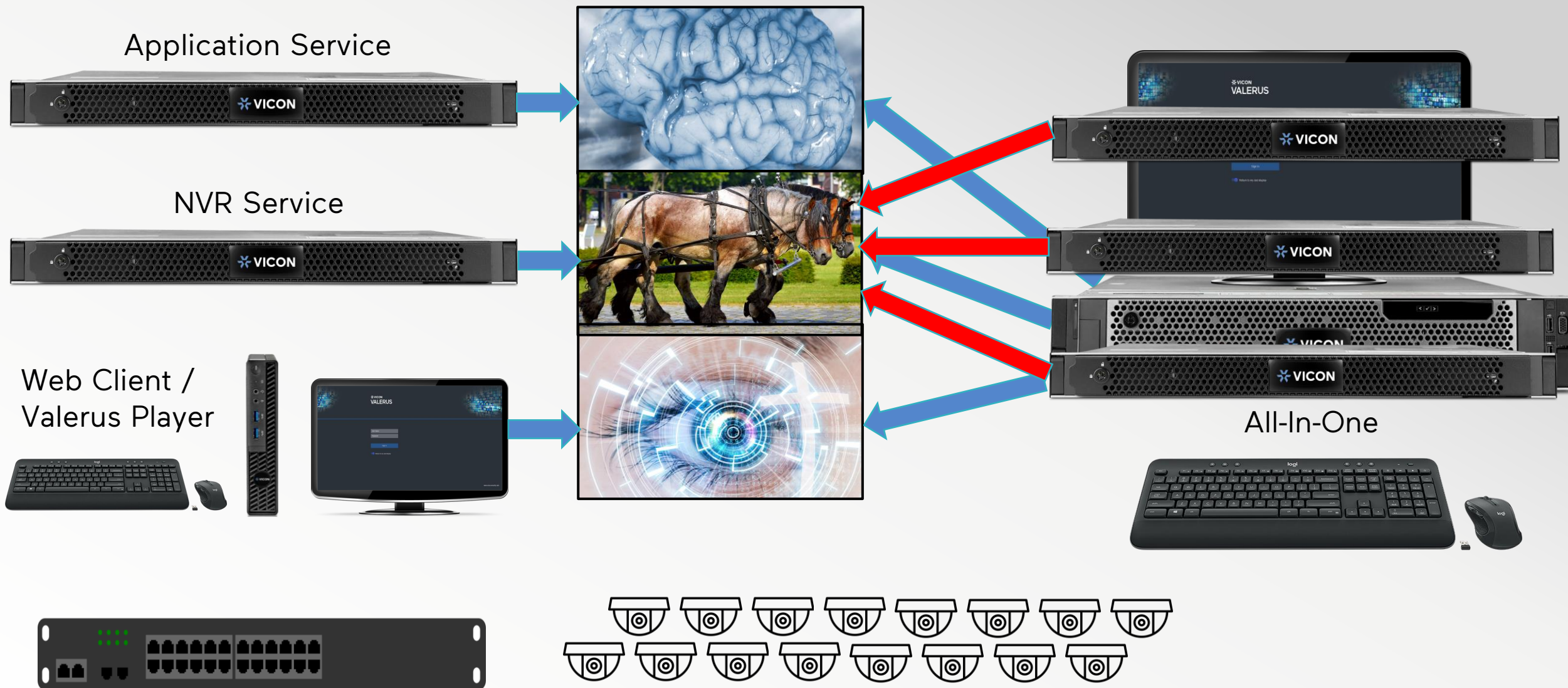


# Flexible Configuration Options with Valerus





# Valerus Software Architecture



# Shadow Elite Line Portfolio Overview





# Form Factors - Towers

Micro Tower (MC)

Client  
Workstation Only



Small Tower (SF)

Client Workstation

Application Server

Recording Server  
or All-In-One



Full Tower (FT)

Recording Server  
or All-In-One

RAID 5/6

Client  
Workstation

Application  
Server





# Form Factors – Rack Servers



1U Rack Mount

(1U) Client WS or App Server or Recording Server



1U Rack Mount

(1U) Recording Server with RAID or All-In-One



2U Rack Mount

(2U) Recording Server with RAID or All-In-One



2U Deep Rack

(2D) Recording Server with RAID or All-In-One



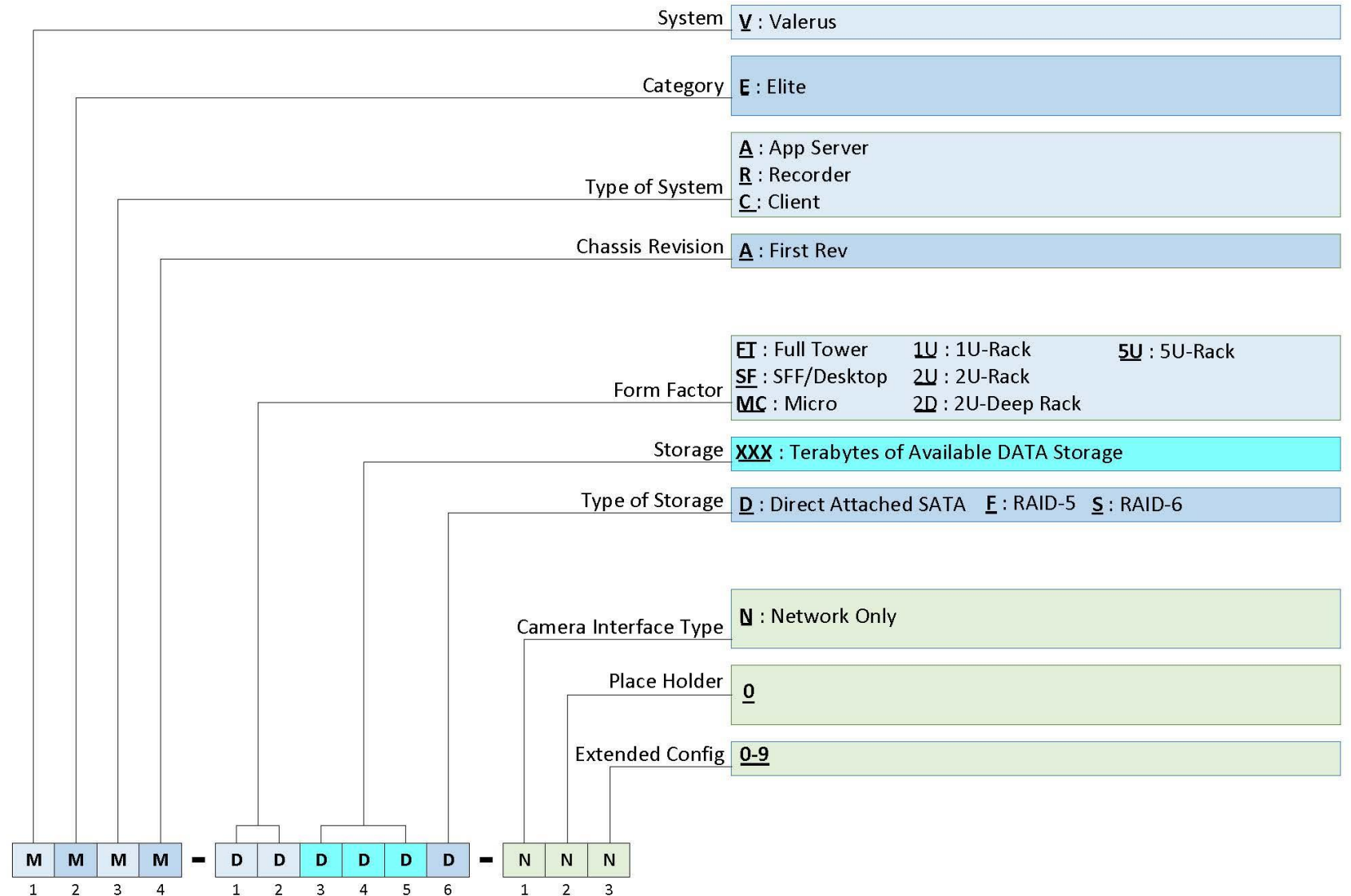
5U rack Mount

(5U) Recording Server with RAID or All-In-One



# Shadow Elite Model Numbering Scheme

## Vicon Systems : Model Numbering Scheme







# Recording Servers

- Can be used as standalone NVR or All-in-One machines
- Reduces overall hardware cost and footprint
- Maximum of 100 cameras
- Variable CPU, RAM, Storage, and Display Options per model

Includes 8 Valerus PRO Licenses

## 1U Rack

A powerful 1U rack-mount server, perfect for both recording or All-in-One applications.



MAX STORAGE  
**32TB**

MAX CAMERAS  
**100**

MAX DATA RATE  
**200 Mbps**

Includes 8 Valerus PRO Licenses



## Small Tower

A small, easy-to-use desktop, ideal for sites that need a straight-forward recording server or All-in-One unit.

MAX STORAGE  
**16TB**

MAX CAMERAS  
**100**

MAX DATA RATE  
**200 Mbps**

# VICON

## Recording Servers

### Valerus Shadow Elite Recording Servers

Model	Description
Small Form Factor; i3 Processor	
VERA-SF14TD-N00	Supports 100 IP cameras at 200 Mbps and dual 4K monitors using onboard graphics. 16 TB gross storage (14.4 TB usable). Intel 10th Gen i3 processor with 8 GB DDR4 RAM. Windows 10 Enterprise IoT on 250 GB SSD. Dual Gigabit network ports. 200 W power supply. Includes eight complimentary PRO Vicon licenses and five-year NBD Onsite KYHD warranty with UL/FCC/CE and other required certifications.
Small Form Factor; i7 Processor	
VERA-SF14TD-N01	Supports 100 IP cameras at 200 Mbps and dual 4K monitors using onboard graphics. 16 TB gross storage (14.4 TB usable). Intel 10th Gen i7 processor with 16 GB DDR4 RAM. Windows 10 Enterprise IoT on 250 GB SSD. Dual Gigabit network ports. 200 W power supply. Includes eight complimentary PRO Vicon licenses and five-year NBD Onsite KYHD warranty with UL/FCC/CE and other required certifications.
1U Rack-Mount Form Factor; i3 Processor	
VERA-1U29TD-N03	Supports 100 IP cameras at 200 Mbps and quad 4K monitors using nVidia Quadro graphics. 1U rack; 32 TB gross storage (28.8 TB usable) on JBOD. Intel 9th Gen i3 processor with 8 GB DDR4 RAM. Windows 10 Enterprise IoT on 250 GB SSD. Dual Gigabit network ports. 550 W power supply. Includes eight complimentary PRO Vicon licenses and five-year NBD Onsite KYHD warranty with UL/FCC/CE and other required certifications.
1U Rack-Mount Form Factor; Xeon Processor	
VERA-1U29TD-N05	Supports 100 IP cameras at 200 Mbps and quad 4K monitors using nVidia Quadro graphics. 1U rack; 32 TB gross storage (28.8TB usable) on JBOD. Intel Xeon E-22XX processor with 16 GB DDR4 RAM. Windows 10 Enterprise IoT on 250 GB SSD. Dual Gigabit network ports. 550 W dual redundant power supply. Includes eight complimentary PRO Vicon licenses and five-year NBD Onsite KYHD warranty with UL/FCC/CE and other required certifications.

Includes 8 Valerus PRO Licenses

### 1U Rack

A powerful 1U rack-mount server, perfect for both recording or All-in-One applications.



MAX STORAGE  
**32TB**

MAX CAMERAS  
**100**

MAX DATA RATE  
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### Small Tower

A small, easy-to-use desktop, ideal for sites that need a straight-forward recording server or All-in-One unit.

MAX STORAGE  
**16TB**

MAX CAMERAS  
**100**

MAX DATA RATE  
**200 Mbps**



# RAID Recording Servers

- Best-in-class components and features
- Supports RAID 5 and RAID 6
- Redundant power supply standard
- Integrated Dell Remote Access Controller (iDRAC)

Includes 8 Valerus PRO Licenses

## 2U Deep Rack

This unit takes up the same amount of rack units, with double the drive space.



MAX STORAGE  
**384TB**

MAX CAMERAS  
**250**

MAX DATA RATE  
**800 Mbps**

Includes 8 Valerus PRO Licenses

## 1U Rack

A compact rack unit with high-performance and reliability for operations requiring less storage and video retention.



MAX STORAGE  
**64TB**

MAX CAMERAS  
**200**

MAX DATA RATE  
**500 Mbps**

Includes 8 Valerus PRO Licenses

## 2U Rack

For larger more advanced applications that need increased storage.



MAX STORAGE  
**192TB**

MAX CAMERAS  
**200**

MAX DATA RATE  
**600 Mbps**





# RAID Recording Servers

- Best-in-class components and features
- Supports RAID 5 and RAID 6
- Redundant power supply standard
- Integrated Dell Remote Access Controller (iDRAC)



Includes 8 Valerus PRO Licenses

## 5U Rack

For large-scale applications that need extra power and storage. Get more storage with smaller footprint than multiple machines.

MAX STORAGE  
**1600TB**

MAX CAMERAS  
**250**

MAX DATA RATE  
**800 Mbps**



Includes 8 Valerus PRO Licenses

## Full Tower

Available as All-in-One for larger storage and high camera count.

MAX STORAGE  
**192TB**

MAX CAMERAS  
**200**

MAX DATA RATE  
**600 Mbps**



# RAID Recording Servers

Valerus Shadow Elite RAID Recording Servers	
Model	Description
1U Rack-Mount Form Factor; Xeon Processor	
VERA-1U43TF-N02	RECORDING SERVER WITH RAID; supports 200 IP cameras at 500 Mbps and one WUXGA monitor using onboard graphics. 1U rack; 64 TB gross storage (43.2 TB usable) on RAID5. Intel Xeon E-22XX processor with 16 GB DDR4 RAM. Windows 10 Enterprise IoT on dual 250 GB SSD on RAID1. Dual Gigabit network ports. 350 W dual redundant power supply. Dedicated IPMI server management port using Dell's iDRAC. Includes eight complimentary PRO Vicon licenses and five-year NBD Onsite KYHD warranty with UL/FCC/CE and other required certifications.
2U Rack-Mount Form Factor; Xeon Processor	
VERA-2U144S-N02	Supports 200 IP cameras at 600 Mbps and one WUXGA monitor using onboard graphics. 192 TB gross storage (144 TB usable) on RAID6. Intel Xeon 42XXR processor with 16 GB DDR4 RAM. Windows 10 Enterprise IoT on dual 250 GB SSD on RAID1. Dual Gigabit network ports. 750 W dual redundant power supply. Dedicated IPMI server management port using Dell's iDRAC. Includes eight complimentary PRO Vicon licenses and five-year NBD Onsite KYHD warranty with UL/FCC/CE and other required certifications.
2U Deep Rack-Mount Form Factor; Xeon Processor	
VERA-2D316S-N02	Supports 250 IP cameras at 800 Mbps and one WUXGA monitor using onboard graphics. 384 TB gross storage (316.8 TB usable) on RAID6. Intel Xeon 42XXR processor with 16 GB DDR4 RAM. Windows 10 Enterprise IoT on dual 250 GB SSD on RAID1. Quad network ports (dual Gigabit and dual 10 Gig SFP+). 1100 W dual redundant power supply. Dedicated IPMI server management port using Dell's iDRAC. Includes eight complimentary PRO Vicon licenses and five-year NBD Onsite KYHD warranty with UL/FCC/CE and other required certifications.



# RAID Recording Servers

Valerus Shadow Elite RAID Recording Servers	
Model	Description
5U Rack-Mount Form Factor; Dual-Xeon Processor	
VERA-5U1P3S-N09	Recording Server /w RAID : Supports 250 IP Cameras at 800 Mbps and One WUXGA Monitor using Onboard Graphics. 5U-Rack Form Factor, 1600 TB Gross Storage (1324.8 TB Usable) on RAID-6. Intel Dual-Xeon 42XXR Processor with 32 GB DDR4 RAM. Windows Server on Dual 480 GB SSD on RAID-1. Quad Network Ports (Dual Gigabit and Dual 10 Gig SFP+). 2400W Dual Redundant Power Supply. Dedicated IPMI Server Management Port using Dell's iDRAC. Includes EIGHT complimentary Pro Vicon Licenses and Five-Year NBD Onsite KYHD Warranty with UL/FCC/CE and other required certifications.
Full Tower Form Factor; Xeon Processor	
VERA-FT100F-N02	Recording Server /w RAID : Supports 200 IP Cameras at 600 Mbps and One WUXGA Monitor using Onboard Graphics. Full-Tower Form Factor, 128 TB Gross Storage (100.8 TB Usable) on RAID-5. Intel Xeon E-22XX Processor with 16 GB DDR4 RAM. Win 10 Enterprise IoT on Dual 250 GB SSD on RAID-1. Dual Gigabit Network Ports. 495W Dual Redundant Power Supply. Dedicated IPMI Server Management Port using Dell's iDRAC. Includes EIGHT complimentary Pro Vicon Licenses and Five-year NBD Onsite KYHD Warranty with UL/FCC/CE and other required certifications. Available with optional Windows Server Operating System.





# Application Servers

- Our most reliable App Servers yet, with 3 CPU options
- Rack mount includes dual-redundant power supplies to safeguard against power supply failures

## Valerus Shadow Elite Application Servers

Model	Description
Small Form Factor; i3 Processor	
VEAA-SF000D-N00	App Server: Supports Dual 4K Monitors using Onboard Graphics. SFF Form Factor. Intel 10th Gen i3 Processor with 8 GB DDR4 RAM. Win 10 Enterprise IoT on 250 GB SSD. 200W Power Supply. Includes FOUR complimentary Pro Vicon licenses and FIVE Year NBD Onsite KYHD Warranty with UL/FCC/CE and other required certifications.
Small Form Factor; i7 Processor	
VEAA-SF000D-N01	App Server: Supports Dual 4K Monitors using Onboard Graphics. SFF Form Factor. Intel 10th Gen i7 processor with 16 GB DDR4 RAM. Win 10 Enterprise IoT on 250 GB SSD. 200 W power supply. Includes four complimentary PRO Vicon licenses and five year NBD Onsite KYHD warranty with UL/FCC/CE and other required certifications.
1U Rack-Mount Form Factor; Xeon Processor	
VEAA-1U000D-N02	Supports quad WUXGA monitor using onboard graphics. Intel Xeon E-22XX processor with 16 GB DDR4 RAM. Win 10 Enterprise IoT on 250 GB SSD. 550 W dual redundant power supply. Dual Gigabit network ports. Includes four complimentary PRO Vicon licenses and five year NBD Onsite KYHD warranty with UL/FCC/CE and other required certifications.



Includes 4 Valerus PRO Licenses

## Small Tower

A powerful and convenient app server with straightforward setup

## 1U Rack

A reliable Application Server designed for operations utilizing server racks.



Includes 4 Valerus PRO Licenses



# Client Workstations

- Don't miss a thing with high-performance, crystal-clear video
- Supports up to 4 monitors for larger viewing applications
- Local storage for downloaded video exports



Includes 4 Valerus PRO Licenses

## Micro Tower

A client best suited for every day monitoring, with a micro form factor

MAX MONITORS  
**2**

MAX STORAGE  
**2TB**



Includes 4 Valerus PRO Licenses

## Small Tower

Higher performance for more complex workflows and additional storage.

MAX MONITORS  
**4**

MAX STORAGE  
**16TB**

Includes 4 Valerus PRO Licenses

## 1U Rack

A powerful 1U rack-mount client for applications like video walls.



MAX MONITORS  
**4**

MAX STORAGE  
**16TB**



# Client Workstations

Valerus Shadow Elite Client Workstations	
Model	Description
Micro Form Factor; i3 Processor	
VECA-MC000D-N00	Supports dual 4K monitors using onboard graphics. Intel 10th Gen i3 processor with 8 GB DDR4 RAM. Windows 10 Enterprise IoT on 250 GB SSD. 200 W power supply. Includes four complimentary PRO Vicon licenses and five year NBD Onsite KYHD warranty with UL/FCC/CE and other required certifications.
Micro Form Factor; i7 Processor	
VECA-MC000D-N01	Supports dual 4K monitors using onboard graphics. Intel 10th Gen i7 processor with 16 GB DDR4 RAM. Windows 10 Enterprise IoT on 250 GB SSD. 200 W power supply. Includes four complimentary PRO Vicon licenses and five year NBD Onsite KYHD warranty with UL/FCC/CE and other required certifications.
Small Form Factor; i3 Processor	
VECA-SF000D-N00	Supports dual 4K monitors using onboard graphics. Intel 10th Gen i3 processor with 8 GB DDR4 RAM. Windows 10 Enterprise IoT on 250 GB SSD. 200 W power supply. Includes four complimentary PRO Vicon licenses and five year NBD Onsite KYHD warranty with UL/FCC/CE and other required certifications.
Small Form Factor; i7 Processor	
VECA-SF000D-N01	Supports dual 4K monitors using onboard graphics. Intel 10th Gen i7 processor with 16 GB DDR4 RAM. Windows 10 Enterprise IoT on 250 GB SSD. 200 W power supply. Includes four complimentary PRO Vicon licenses and five year NBD Onsite KYHD warranty with UL/FCC/CE and other required certifications.
VECA-SF000D-N04	Supports quad 4K monitors using nVidia Quadro graphics. Intel 10th Gen i7 processor with 16 GB DDR4 RAM. Windows 10 Enterprise IoT on 250 GB SSD. 200 W power supply. Includes four complimentary PRO Vicon licenses and five year NBD Onsite KYHD warranty with UL/FCC/CE and other required certifications.
1U Rack-Mount Form Factor; i7 Processor	
VECA-1U000D-N04	Supports quad 4K monitors using nVidia Quadro graphics. Intel 9th Gen i7 processor with 16 GB DDR4 RAM. Windows 10 Enterprise IoT on 250 GB SSD. 550 W dual redundant power supply. Dual Gigabit network ports. Includes four complimentary PRO Vicon licenses and five year NBD Onsite KYHD warranty with UL/FCC/CE and other required certifications.

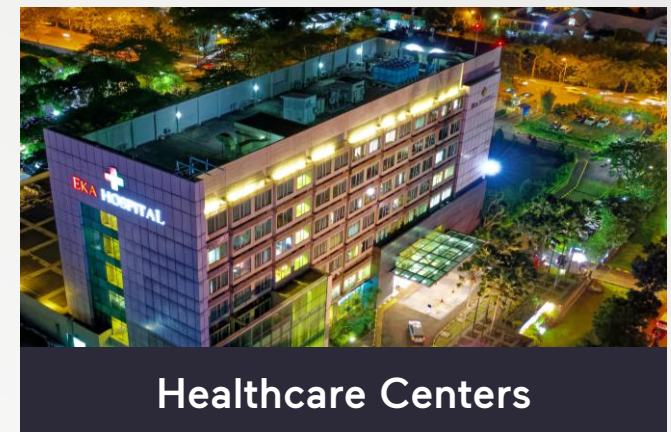
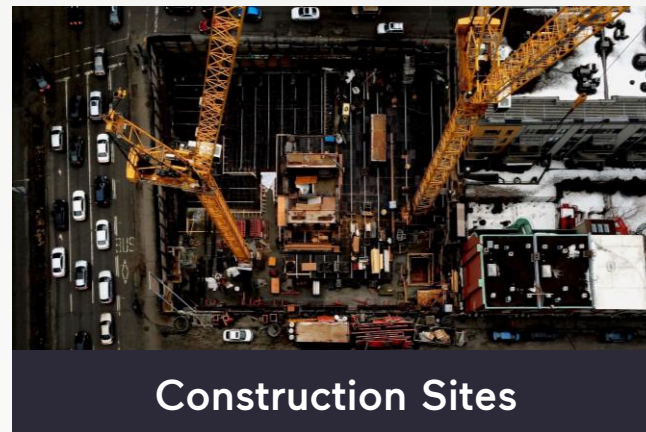
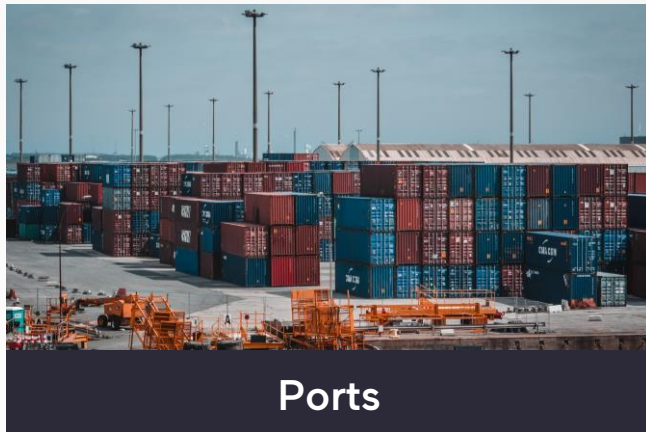
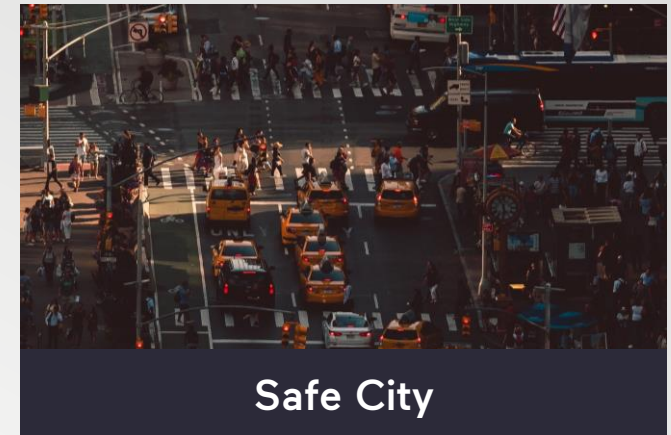
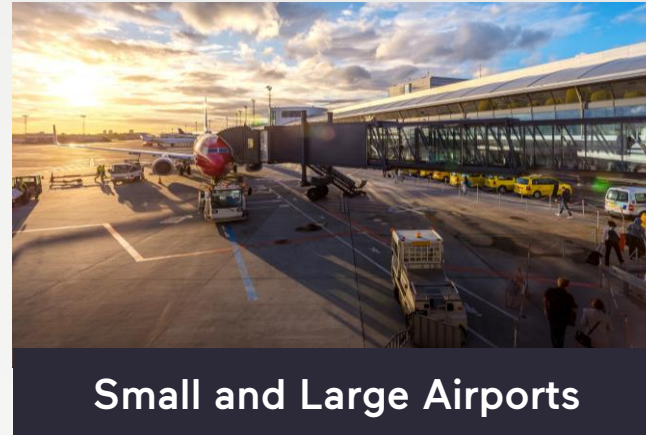
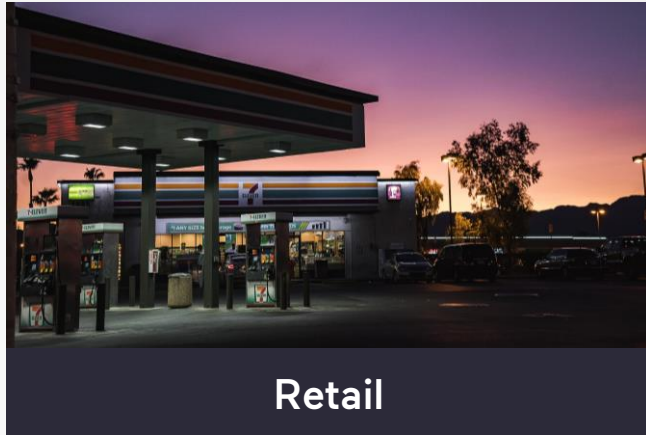




**Designed to Work with  
Extensive Applications**



Options for small to large applications:







# Review: Shadow Elite

- High Performance
- Pre-Configured for Easy Installation
- Flexible Form Factors and Specifications
- 5 Year NBD and KYHD Warranty
- The “next step” in the evolution of Valerus







# Questions & Answers

Contact sales for more information  
at [sales@vicon-security.com](mailto:sales@vicon-security.com)

Vicon Industries | 135 Fell Court | Hauppauge | NY 11788  
[vicon-security.com](http://vicon-security.com)



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