

Valerus Recording Servers



Recording Server

- ▶ Handles recording video and audio
- ▶ Windows® service that runs on Vicon certified hardware
- ▶ i7 processor and 16 GB RAM
- ▶ Can be used as all-in-one application/recording server on systems with less than 150 cameras
- ▶ Provides a strong and secure engine communicating, streaming and recording video and audio from cameras and encoders
- ▶ Supports systems of up to 70 cameras (Mini version support 35)
- ▶ Variety of chassis types to meet any size system

The Valerus VMS software is COTS (customer-off-the-shelf) compatible. However, Vicon offers factory certified, pre-installed Servers, which saves valuable installation time and reduces the overall system cost, as well as providing one source for technical support.

Valerus can be deployed in different configuration depending on system size and logistical deployment; configurations include standalone system on a single PC (all-in-one), a centralized site running multiple servers or a central site running multiple remote recording servers (NVRs) and cameras.

This datasheet focuses on the Valerus Recording Server; the other servers each have individual datasheets.

The components of a complete Valerus VMS are:

Application/Web Server: This is the brains of the system, where the database is active and all system programming is stored. On systems under 150 cameras, this can also be used for recording up to its specified capacity. Each system requires only one Application Server. Refer to datasheet dedicated specifically to Application Server and Viewing Station.

Recording Servers: All Recording Servers (NVRs) record and provide playback; each is capable of recording a specific number or cameras based on its specification. Refer to chart below. Note that if Valerus SmartAnalytics is running on the NVR, this may impact on the number of cameras that can record. A version is available with internal RAID storage. Refer to the specific datasheet on the Shadow NVR.

Client Viewing Station: With this thin-client topology, client viewing stations can be on any PC Microsoft® Internet Explorer 11 minimum. Refer to datasheet dedicated specifically to Application Server and Viewing Station.

Ordering Information

Model	Mounting Type	HDD Size*	Model Number
Recording Server preconfigured with Valerus VMS system with internal storage	Desktop/Tower**	Up to 20 TB	VLR-XTB-A
	Rack-mount		VLR-XTB-A-RK
Mini Recording Server preconfigured with Valerus VMS system	Mini Desktop	Up to 8 TB	VLR-MINI-XTBV1

*Models up to 8 TB use a desktop chassis; above that it is a tower chassis. XTB indicates the hard drive size in TB. For example, an NVR with 1 TB storage would have a model of VLR-1TB-A; the rack version would be VLR-1TB-A-RK. Use the 1 TB models when a unit is required for use with external SAN-RAID storage.

**The Application Server can run on one of the Recording Servers in a system with up to 150 cameras. Over 150 cameras, Vicon recommends a dedicated Application Server.

Options and Accessories

Description	Model Number
 External Storage Options. Vicon offers a variety of external storage options using SAN and other technologies. Refer to the website for more information.	VN-SAN Series

Valerus Recording Server Specifications†

Recording Server	Mbits	Number Cameras
Mini Recording Server	Up to 100	Up to 35
Recording Server	Up to 200	Up to 70

†For exact numbers, use the Valerus storage calculator. Note that both the bandwidth (Mbits) and the number of cameras should be taken in consideration. If Valerus SmartAnalytics is running on the NVR, this number may be impacted; refer to the Vicon guide or consult Vicon.

VALERUS VMS HARDWARE SPECIFICATIONS

Model	Rack-Mount Server	Desktop/Tower Server	Mini Recording Server
PC Requirements			
Operating System:	Microsoft® Windows® 10 IoT 2016 LTSB*, 64 bit		
CPU:	Intel® i7 7700 3.6 GHz min. processor		Intel i3 min. processor
Memory:	16 GB (DDR4 RAM)		4 GB
Graphics:	256 MB RAM onboard		
Display:	Refer to the Valerus Performance Guide		Displays up to 9 cameras @D1
Network Interface:	100/1000 Mbps; dual NIC provided		
Disk Space:	Model dependent		
Browser**:	Must have Internet Explorer® 11 min. or Firefox® (up to version 51.x supporting Active X)		

Electrical

Input Voltage:	105-240 ±10% VAC, 50/60 Hz	115-240 VAC, 50/60 Hz
Current:	0.66 A @ 115 VAC; 0.33 A @ 240 VAC	0.33 A @ 115 VAC; 0.16 A @ 240 VAC
Power Consumption:	76 W nominal	38 W nominal
Heat Output:	266 btu/hour	133 btu/hour
Power Connector:	Standard 3-conductor female socket	Standard 3-conductor female socket

Mechanical

Application:	Indoor		
Mounting:	19 in. (483 mm) rack-mount, 1 RU height	Standard desktop (mini ITX chassis)/Tower chassis	Mini desktop
Dimensions:	1.75" (44.45 mm) H x 19" (483 mm) W x 16" (406 mm) D, with connectors	9.5 in. (241.3 mm) H x 3.75 in. (95.25 mm) W x 10.5 in. (266.7mm) D	3.5 in. (89 mm) H x 7.9 in. (200 mm) W x 7.75 in. (197 mm) D
Weight:	18.2 lb (8.3 kg)	8.1 lb (3.7 kg)	
Construction:	Steel and plastic		

Environmental

Operating Temperature:	32° to 104°F (0° to 40°C).
Humidity:	Up to 95% relative, non-condensing.

Warranty:

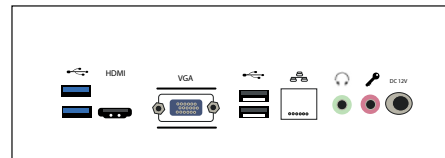
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*The LTSB version (Long Term Servicing Branch; similar to former Embedded version) is provided. If a full Windows 10 CB O.S. is required, contact your Vicon Sales Representative.

**Additional browsers will be supported in future releases.

Controls and Connectors

Note that mother boards are subject to change and the current rear panel may differ slightly but will be similar.



Data Sheet Number: V281-50

Vicon Data Sheet Part Number: 8009-7281-50-05

Dated: 9/2018

Specifications subject to change without notice.

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Dimensional Drawings

