



4.3.X SERVER

RELIABLE | INTELLIGENT | CERTIFIED

Product Overview

VICADS[®] Server provides an Active Directory domain controller, the system configuration and management interface, hosts the system database as well as coordinates all core system services. VICADS[®] Server is the communication broker and processor for the intelligent event handling and video switching.

VICADS[®] Server provides the Network Video Recorder (NVR) interface as well as other third- party equipment interfaces like a SEI/WG ICD compliant interface to Wide-area and Long Range Surveillance Thermal Imagers (WSTI/LRTI) and Ground Based Radar (GBR) devices for automatic tracking.

VICADS[®] Server has replaced traditional analog based CCTV matrices with intelligent digital video switcher logic and brings this to the operator through a companion program called VICADS[®] Softwall. The system can be fully integrated with Command and Control Display Equipment (CCDE), Intelligent Transportation Systems (ITS), Intrusion Detection Systems (IDS) and Access Control Systems (ACS). The system supports robust configuration parameters such as event priority assessment, automatic vs. manual call up policies, automatic PTZ presets and intelligent queuing logic for multiple event scenarios.

Features	Benefits
Sturdy, Scalable, Serviceable	Designed for high reliability minimal downtime applications, expansion without obsolescence.
Redundancy and Regionalization	Fully redundant hardware configurations for mission critical applications.
Intelligent Event Integration	Wholesale replacement of existing analog camera infrastructure not required.
Geographic Information System (GIS) & Ground Based Radar (GBR) Integration	Active tile geo map interface with pan, scroll and zoom, robust automatic tracking logic.
Information Assurance Posture	DoD Risk Management Framework (RMF) Compliant.
Advanced Video Analytics Integration	Video realm intelligence can be fully integrated into a common operator picture.

HARDWARE SPECIFICATIONS

SPECIFICATION	DESCRIPTION	NOTES
Operating System	Microsoft® Windows Server 2022	64 Bit, Domain Controller
RAID Controller	RAID P408i-a w/ Smart Storage Battery	RAID 0,1,5,6,10
Storage	2- 960GB SATA SSD Drives	RAID 1, Operating System, 8LFF chassis
Memory	2- 16GB PC4-2666V	32GB RAM
Processor	2- Intel Xeon Silver 4110	Dual Processors, 8C/16T
Network	2—GB network interfaces	RJ-45
Power Supply	2- 500W Power Supply	Redundant
Power Consumption	Max: 4A @ 120VAC / 2A @ 240VAC	Per Supply
Peripherals	2- 1.83 m (6') 10A US	U.S. Power Cords
Form Factor	2- RU (3.5")	With lockable front bezel & dust cover
Warranty	3-year standard, 5-year optional	Limited
Hardware Part Number	10-10000-003	VICADS® Management Server 2022 HP
	10-37000-001	VICADS® Management Server 2022 HP Spares Kit
	10-38001-001	VICADS® (MGMT, VBS, NVR) 5-yr Warranty HP
Software Part Numbers	10-40000-000	VICADS® Server Software & Site License, V4
	10-40000-001	VICADS® System Redundancy License, V4 (optional)
	10-40000-REG	VICADS® Server Software Regional, V4 (optional)

PERFORMANCE SPECIFICATIONS

SPECIFICATION	DESCRIPTION
# of Servers	Up to 2 typical (51 max for regional); Single sided or redundant with concurrent or non-concurrent redundancy models supported
# of Network Video Recorders	Unlimited
# of Cameras	Unlimited
# of Users	Unlimited
# of Video Clients	Unlimited (can be any mix of Personal Viewers, Softwalls or Radar Walls)
# of Regional Child Sites	50
Digital Matrix Switcher	Interfaces with event sources and provides digital matrix switcher for immediate visual assessment with live and recorded video automatically delivered to Softwalls or Radarwalls.
Active Directory Integration	Yes; with Kerberos security for user authentication
Configuration Interface & Database	Secure, Encrypted(TLS), Web-based, PostgreSQL
Geographic Information System	Geography Markup Language (GML), PostGIS database
Supported Encoding Protocols	MJPEG, MPEG2 TS/ES, MPEG4, MPEG 4 part 10 (H.264)
Device Discovery Protocols	UPnP, ONVIF, NMEA, GSauce, Bonjour
PTZ Protocols	Pelco D, Pelco P, Pelco ASCII, Bosch OSDR, Most TASS Cameras, VICON, VICON NTCIP, VICON Native, Any camera on Moog QuickSet Pedestal, Hurlay IR, Allegiant Switcher, SONY VISCA, Phillips LTC2600, COHU iDome, FLIR Nexus XML, ONVIF, NTCIP
Video Analytics Options	Video Motion Detection, Object Video (OV6), AXIS VAPIX
Certifications & Approvals	DoD Approved for PL1N and PL1-PL4, DoD RMF compliant

ENVIRONMENTAL SPECIFICATIONS

NOMENCLATURE	TEMPERATURE HUMIDITY ¹ & ALTITUDE (NON-OPERATING)	TEMPERATURE & HUMIDITY ¹ & ALTITUDE (OPERATING)	ESTIMATE BTU LOAD ² (PER SERVER)
VICADS® Server	-30°C to 60°C (-22°F to 140°F) 5-95% (non-condensing) 9144 m (30,000 ft)	10°C to 35°C (50°F to 95°F) 8-90% (non-condensing) 3050 m (10,000 ft)	1979 BTU/hr (maximum)

DIMENSIONAL SPECIFICATIONS

NOMENCLATURE	HEIGHT (H)	WIDTH (W)	DEPTH (D)	CLEARANCE (REAR) ⁴	WEIGHT ⁵
VICADS® Management Server 2022 HP	3.44"	17.54"	28.75"	4"	19.5kg (43lbs)

¹ Altitude derating against operating temperature is 1.0°C per 305m (1.8°F per 1000ft). Extended temperatures can be achieved with specific hardware configurations.

² Heat dissipation (BTU/hr) data is based on 120VAC power input and is provided as an estimate for reference only.

³ Allow an additional 1 RU (1.75") Air Gap between each racked component.

⁴ Clearance is a recommended space budget in addition to machine dimensions to allow for cables & routing.

⁵ Exact weight depends upon configuration

[†] Specifications are subject to change without notice.