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- DIACAP compliant and safe for DoD networks
- Approved for use in PL1-PL4 applications by the United States Air Force

VICADS™ transforms legacy analog CCTV systems into powerful IP based digital surveillance command and control centers.

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Video Image Control and Display System
WHAT IS VICADS™?

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FEATURES

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— Jodi Rell
VERSATILE AND INTEGRATED

VICADS™ is a highly versatile and integrated platform that is specifically focused on meeting mission specific requirements and adhering to current Force Protection standards. VICADS™ delivers 24/7 recording, CCDE integration, video wall display upon alarm, redundancy, advanced video analytic integration, and camera monitoring & control distributable to any authorized workstation on the network. A typical VICADS™ system is comprised of a server, NVR(s), video broadcast servers and distributed video client workstations.

VICADS™ delivers a scalable, distributable and operator focused platform that fully integrates the CCDE system to deliver robust video surveillance over an IP network. The system takes strictly IP based video streams over a network, records and distributes them out to our companion software programs Personal Viewer, Softwall and Alarm History Tool. The VICADS™ platform delivers extensive alarm video review and editing capabilities via the VICADS™ Investigator program whose event review and editing capabilities are based on current Force Protection Standards.
VICADS™ is specifically designed to be modular and scalable. VICADS™ Server has no limit on the total number of video clients, recording servers and cameras/encoders that it can manage. The typical system starts at 32 digital feeds and grows in chunks of 32 digital camera feeds per recorder. For example, a system utilizing four recorders will support 128 cameras. The VICADS™ platform has NVR hardware specifically designed for MJPEG as well as offerings for MPEG4/H.264 edge hardware applications. Additionally, even smaller footprints for 8 and 16 channels are offered to further help manage cost. This allows you to choose the hardware footprint that makes the most sense to strike the balance between requirements and budget.

With the Video clients all relying on the VICADS™ Server for media location rather than video media (video streams directly from each edge device or from the broadcast server), this allows the system to scale without performance trade-offs for large site deployments. Keeping the NVR design to reasonable capacities allows for easily manageable arrays that have robust yet sensible design characteristics for CPU hardware, memory and storage capacity.

The site licensing model for VICADS™ software infrastructure provides the owner peace of mind that incremental additions can be made to the system without heavy future costs. The per channel hardware licensing format allows the owner to purchase only the quantity of licenses required for the initial system, while facilitating system expansion as future surveillance requirements evolve and grow.
VICADS™ VIDEO CLIENTS
VICADS SOFTWARE

VICADS™ has replaced traditional analog based CCTV matrices with intelligent digital video switcher logic and brings this to the operator through a program called VICADS™ Softwall. The Softwall supports robust configuration parameters such as alarm point priority assessment, automatic vs manual call up policies, automatic PTZ presets upon alarm and intelligent queuing logic for multiple alarm scenarios. Each alarm point on the CCDE can be associated with up to a maximum of four cameras per alarm point.

VICADS™ Softwall actively monitors an event stream from the CCDE and upon alarm activation will display the live video scenes associated with the alarm. In addition to the live video scenes VICADS™ Softwall simultaneously delivers a configurable time period of pre and post-alarm recorded video for the operator. The recorded video titling bar consists of: a timestamp of the alarm event, alarm point number, any associated CCDE text and a running clock of current system time. Above each recorded tile is a display of frame time and frame number. The Softwall is configurable in how the live and recorded imagery is displayed. It can be delivered in a split screen fashion which allows for more simultaneous alarm events per Softwall or it can be delivered in full screen fashion which allows for higher resolution video delivery.

The Softwall was built such that an operator is not required to interface with the Softwall for control, this occurs through the existing CCDE Operator interface. By doing so, the quantity of systems the operator has to learn and control is reduced. There is no limit to the quantity of Softwalls that can exist in a system.
VICADS PERSONAL VIEWER

VICADS™ Personal Viewer is a distributable video viewing and control station. There is no limit to the quantity of Personal Viewers that can exist in a VICADS™ System. Personal Viewer integrates into the Active Directory environment to deliver administrator-controlled lists of cameras selectable by the operator for viewing and control. Personal Viewer provides the ability to control Fixed and PTZ cameras and Thermal Imagers as well as offering PTZ coordination policies for multiple operator shared resource scenarios. Personal Viewer has the capability of selecting different display layouts, creating and storing view arrangements, creating and storing video tours for automatic surveillance rotation of video feeds. Personal Viewer also offers the ability to control Softwalls that are being used in the static display mode and can push layouts, tours and views to these Softwalls which then always display the configuration (even across restarts) until commanded otherwise. Each Personal Viewer can host one VICADS Joystick for the operator to use for PTZ control and management. VICADS coordinates camera control to ensure that command centers have priority and multiple users cannot move the same cameras at the same time.

The Personal Viewer also provides advanced video control features such as snapshot, demand record and full screen tile support. Snapshot allows the operator to take a one-time JPEG of any actively displayed video tile and save that picture to the local HDD of the Personal Viewer station. Demand record allows the operator to record video from any actively displayed tile to the local HDD of the Personal Viewer station. The demand record feature can support up to (4) simultaneous local video recording requests and offers a configurable buffer from 1m to 2 hours. The full screen mode allows the operator to take any actively displayed video tile and select for full screen display. The system creates a new window and shows the video in full screen within that window.

INTELLIGENT VIDEO SURVEILLANCE (IVS)

To provide for increased system functionality and meet the demands of more advanced video analytic requirements, VICADS™ integrates with Object Video™ OV6.0 analytics service and can bring intelligence to existing camera resources by using them in a server-centric configuration or by distributing the analytics to the edge by using Object Video OnBoard embedded into a supported encoder/camera. VICADS™ Server is the communication broker and event processor for the integrated platform and has been specifically designed to provide a conduit for current and future events in the video realm to be translated and annunciated at the CCDE.

This integrated approach significantly enhances your security monitoring by allowing for monitoring of video events even when the feed is not on display. IVS provides a number of capabilities that can enable effective and reliable perimeter security. A virtual tripwire, for example, can be drawn across any area in the camera field of view and the system can be configured to generate an alert when specific targets cross the plane of detection. In a similar manner, an area of interest designates the area or section of the camera’s field of view, such as secure zones around a building or structure. Creation of these zones allows attention to be focused on critical areas and reduces the occurrences of nuisance alarms.

The full suite of Object Video’s patented analytics algorithms is supported and all event traffic can be translated into actionable events at the CCDE with paired live video and recorded pre-post video at the Softwall.
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