



DVS3000 Substation Hardened Digital Video Server

Features:

- Designed for harsh substation environments (IEC61850-3, IEEE1613)
- Industrial rated power supply with dual power supply option
- Wide operating temperature (-40°C to +85°C), no fans
- Integrated analytics for automatic detection of events
- Alarm and event notification

Key Benefits:

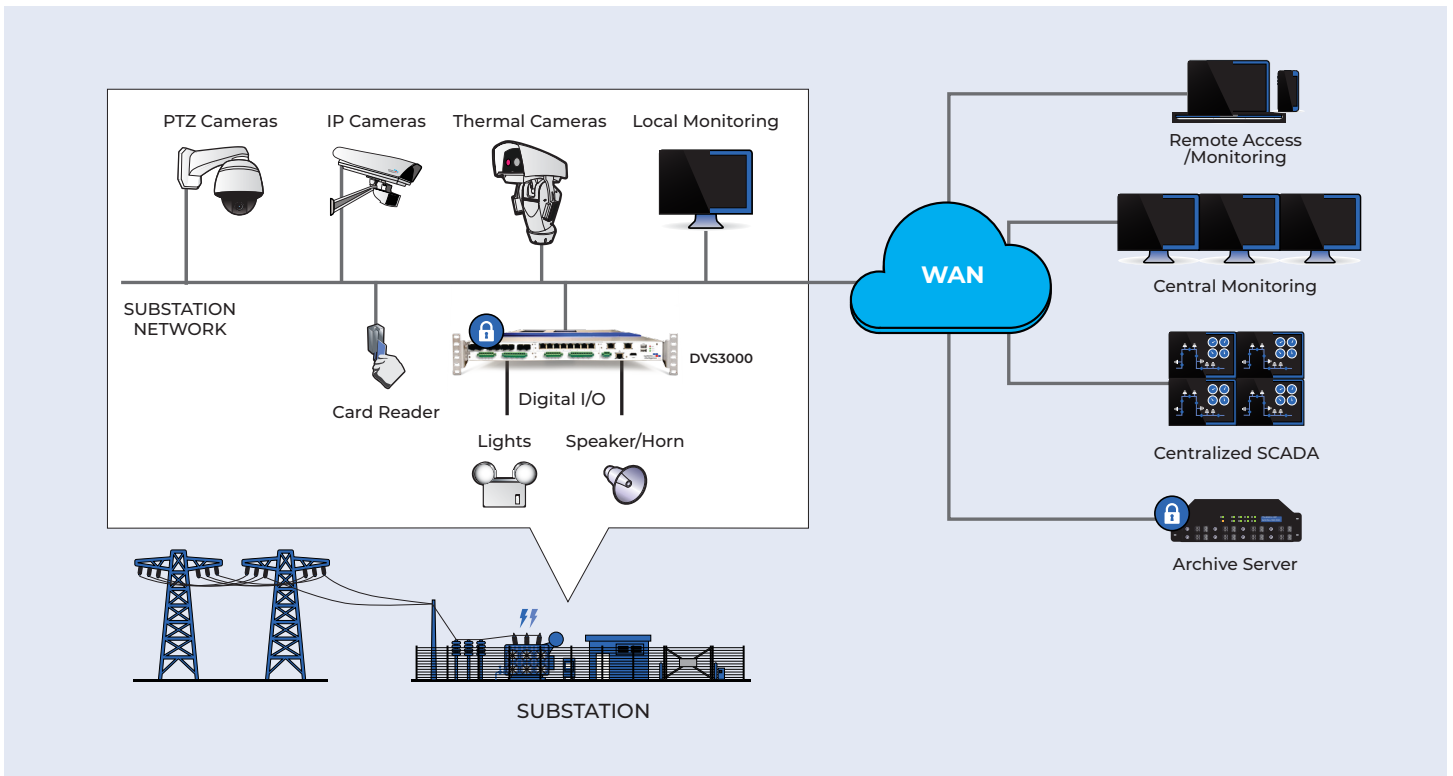
- Monitor critical infrastructure and remote sites
- Reduce theft and damage to physical assets
- Comply with regulatory requirements
- Easy integration with existing equipment
- Connects with existing SCADA

The Systems With Intelligence Digital Video Server (DVS3000) is the center piece of the solution. It is a powerful platform that records from multiple cameras and incorporates a suite of sophisticated video and thermal analytic algorithms for automated monitoring. The DVS features flexible networking capabilities and provides automated alarm and event notification to reduce the need for continuous monitoring. Local archiving up to 4 Terabytes allows for over 30 days of local storage.

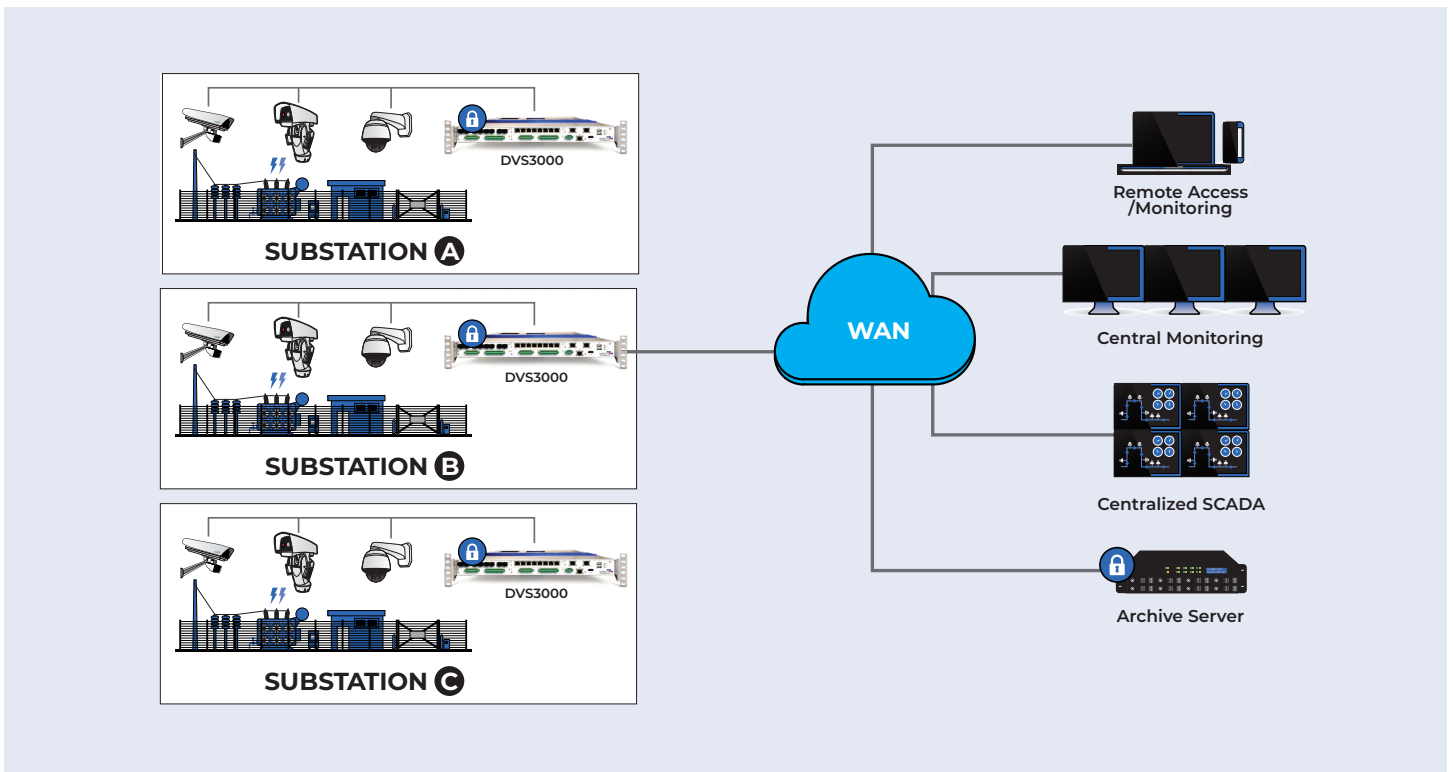
The DVS3000 is easy to use, with simple “plug-n-play” functionality that minimizes installation time and costs. It can be used in new or existing installations and connects directly to most IP video cameras. The DVS3000 is ideal for applications with remote sites that are managed from a central location.

The DVS3000 has been designed specifically for harsh environments found in electric utility applications, taking into account the presence of high levels of EMI, voltage fluctuations and wide temperature ranges.

SUBSTATION MONITORING ARCHITECTURE



DISTRIBUTED ARCHITECTURE



SMARTVMS™ VMS2000 SERVER SOFTWARE

The VMS2000 Video Management System is the software behind the video surveillance solution that consists of Server software on the Digital Video Server and Client software on a remote Windows PC. VMS2000 Server software records video images, analyzes them using unique analytics, determines if a rule has been broken, then sends real-time alerts with an image to the operator. The video is also stored in the DVS for archiving and investigation. The VMS Server software is also responsible for streaming the video feeds to the VMS Client, providing PTZ control and managing serial and digital I/O interfaces to allow integration of physical security devices.

Key Features Include:

Real-time camera monitoring and remote control over network

The VMS2000 can capture live video from up to 16 cameras that can be monitored over any IP network. Graphical web based management interface to remotely control and configure cameras.

H.264 Compression Technology

The VMS2000 supports H.264 AVC/SVC and JPEG encoding. H.264 compression provides the best image quality at the lowest possible bandwidth and storage requirement.

Alarm and Event Notification

The VMS2000 has a comprehensive set of configurable video analytic alarms and can be configured for up to ten rule sets per camera. An extensive set of system



VMS2000 Client Main Screen

event and alarms are provided to help in the overall system management. When an alarm event occurs, the VMS2000 performs one or more of the following actions:

1. Update the alarms database with a record of the time, alarm message and event image.
2. Send an alarm notification to the VMS clients.
3. Send an email notification with JPEG attachment of the event.

SCADA Integration

DNP and IEC 61850 configuration interface to enable seamless integration of alarms into third party SCADA applications.

Serial Interfaces

Up to 2 interfaces (RS485 10-pin connector).

Digital I/O

Utilize up to 16 of the various types of digital I/O available on the DVS. The user can then incorporate control logic into the video.