



DIVA

Video Management Software - DIVA

Description

In general - The Digital Intelligence Video Architecture (DIVA) video management solution for IP-based devices offers built-in intelligence for VCA, including facial recognition and license plate recognition for security applications. In combination with IP cameras and codecs, DIVA offers the perfect solution for any security situation, including perimeter and homeland security, theft and vandalism prevention, and intrusion detection.

Adaptable - DIVA successfully manages any size network, from a small operation of ten streams to networks of over 1000 cameras. DIVA uses analytics algorithms to detect and classify faces and number plates. It is also possible to configure a customized user-interface and video wall layout for each predefined user profile.

Integration - DIVA is easily integrated with third-party systems and supports a wide range of subsystems, including access control, data synchronization, intrusion, and building management. DIVA also provides flexible XML data output to communicate its events to third-party applications. Furthermore, DIVA provides a hybrid solution to facilitate migration from analog infrastructure to an IP installation.

Features

- o Scalable and modular architecture
- o Graphical maps simplify remote management
- o Centralized user management
- o Automated switching to failover server(s)
- o HD quality video in multiple compression standards
- o Automated event - reaction macro
- o Supports multiple security subsystems
- o Customizable video wall management
- o Facial and license plate recognition video analytics
- o Light Web-client viewer

Technical Specifications

DIVA - Video Management Software

Models

DIVA-S	DIVA-START - Free demo trial of the DIVA 2 Video Management Software
DIVA-B	DIVA-BASIC - Standalone DIVA 2 Video Management Software with limited optional features
DIVA-P	DIVA PROFESSIONAL - Multiple client/server DIVA 2 Video Management Software with optional VCA and features

Video

Algorithms Support	MJPEG, MPEG-4, and H.264 for analog and IP cameras
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Recording

Recording	Continuous, motion, or event triggered (e.g., FaceR or CarR) recording can be scheduled using the calendar object for repetitive action
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Dual Streaming

DIVA can handle two independent, configurable video streams for live viewing and recording. Each stream can be individually optimized for stream compression, resolution and frame rate. Available Q4 2012 for selected dual streaming capable cameras.

Screen layout*

Screen layout /video wall	Layout management supports a virtual matrix structure; monitors can display video streams from any camera in any layout, including on multiple workstations, monitors, and/or spot (active) layout management.
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Screen mode*

Live viewing	Includes digital zoom for all live/playback video
Playback	Used to display stored video from the selected camera with user-interface controls
Event live and playback	Display the live and/or associated video of selected events
Floor map/plan	The map/plan use standard graphical files, such as BMP or JPG
Clock	System clock display
Target	Displays video double-clicked from panel in full screen on second monitor
HTML page	Enables display of Web page or a predefined address
On-screen PTZ control	PTZ can also be performed using any USB joystick managed by Windows OS
User events	This panel type runs a macro linked to user event, such as a macro defined for a sequence of layouts

Web client

Light Web-client viewer	Allows authorized users to remotely access video devices over a standard Internet browser
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Picture and video export

Picture and video export	Still images are time-stamped and exported to PDF format. A video clip with a selected start and end time from one or more cameras can be exported simultaneously. All video material can be exported to a network location or portable device. A video player is necessary when viewing exports on a Windows-based PC.
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Technical Specifications

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Log files

Log files All events, macros, changes, and specific user activities are logged in the database

Profiles

Profiles Profiles comprise user settings and macro commands. Profiles describe the behavior of all connected devices through predefined time frames and/or situations. Profiles can be (de)activated through the calendar function, external XML commands, internal macro commands, user events, and I/O contacts.

Failover management

Failover The DIVA failover server ensures the reliability and availability of the entire system. If no response is received from one of the servers, the failover server takes on the settings and functionality of that server. Several failover servers can be defined to monitor different groups of active servers.

User management

User management

1. DIVA user management can only be performed by an administrator.
2. Administrators can grant multilevel access to users among all predefined objects in the system.

Calendar

Calendar Used to (de)activate profiles and run automated macros within specified periods

Statistics

Statistics Generated for devices, hard disks, and network in real time to assist/support engineers, technicians, and network managers

Macros

Macros DIVA Macros automate action(s) when a predefined combination of events (rules) occurs. Both server and viewer macros are supported.

Database

Database The system database is Postgres, an open source enterprise database server on which all events are stored. If VCA features are used, then more specific metadata are stored to provide search efficiency.

Smart search

Smart search The DIVA search engine allows quick access to the selected event types and selected times. Event criteria include motion, scene change, license plate number, and face. The results are displayed in a list with the corresponding images.

SceneR

Tampering SceneR compares live video with a reference image to detect and track unwanted changes in the scene (obstruction, slight movement, anti-masking, etc.).



Technical Specifications

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Integration (option)

Integration (option)	Integration/interaction with third-party software applications is performed via an SDK (Software Development Kit). Communication messages can be exchanged to and from the database. This SDK is XML command-line based and enables interaction to and from other systems. For example, a detected face or license plate can trigger an action, such as a third-party access control platform, switch a layout, start recording.
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CarR (option)

CarR	License plate recognition detects license plates in video frames with country type classification. The detected plates are compared to a black and white list (if defined) with a match/mismatch event result type.
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FaceR (option)

FaceR	Facial recognition within DIVA is all about a 2D algorithm that extracts faces from live video and compares them with a black and white list of subjects. A match/mismatch event type is generated for the appropriate action.
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ObjectR (option)

ObjectR	ObjectR can isolate & classify objects from video images into several categories. Events are created when a rule is violated. Objects who enter a specific area, crossing a tripwire, loitering, leave behind or take away items can be marked as an event. These events can be used to trigger macros from other components. Multiple rules can be set per camera, together with the event/macro feature an amazing number applications are possible. This algorithm can also be used for people counting (unique) for marketing purposes.
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Operating system

OS	Windows Server 2008
	Windows Server 2011
	Windows 7 Professional

Hardware requirements Client

Processor	Intel® Xeon® CPU
	Intel® Core i7 (quad core)
Memory	4 GB DDR3 SDRAM
Graphics card	Dual
	Quad graphic 256 MB (or higher)
	PCI express card
	Minimum resolution 1280/1024
Display output	VGA/DVI
	HDMI
Network	Standard 1 GBit Ethernet
Audio	Standard audio card
Optical	16x DVD +/- RW Drive
Operating system	Microsoft Windows 7 SP1 Professional (64 Bit)



Technical Specifications

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Hardware requirements Server

Processor	Intel® i7 Quad Core
	Intel® Xeon® Server Based Processor, up to 2x CPU
Memory	4GB DDR3 SDRAM or preferable 8GB DDR3 SDRAM
RAID	Minimum of 3 x HDD SATA 7200 Rpm in RAID5 by additional hardware RAID controller, 512MB cache
Resolution	Standard SVGA display with minimum 1024 x 768 resolution
Network	Standard 1 GBit Ethernet
Optical	16x DVD +/- RW Drive
Operating system	Microsoft Windows Server 2008/2011
	Microsoft Windows 7 SP1 Professional (64 Bit)



Pictures

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DIVA Video Management Software

DIVA (Digital Intelligent Video Architecture) is a fully featured video management system. Scalable from one to a practically unlimited number of camera's. The DIVA Video Management Solution for IP-based devices offers built-in intelligence for VCA including facial recognition and license plate recognition for security applications. In combination with IP cameras and codecs, DIVA® offers the perfect solution for situations, including perimeter and homeland security, theft and vandalism prevention, and intrusion detection.