

Features

- Scalable and Modular architecture
- Support of graphical maps for easy localization
- Centralized User Management
- Automated switching to failover Server(s)
- HD Quality Video in multiple compression standards
- Automated Event – Reaction macro
- Multiple time schedule based
- Supports multiple security subsystems
Including Siquira and third-party product lines
- Customizable built-in video wall management
- Facial Recognition Video Analytics
- Automatic Number Plate Recognition



Description

The Siquira® 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 Siquira’s IP cameras and codecs, Siquira DIVA offers the perfect solution for situations, including perimeter and homeland security, theft and vandalism prevention, and intrusion detection.

Adaptability

Siquira DIVA can be scaled from small operations of ten streams to networks of over 1000 cameras, Siquira DIVA successfully manages the network and uses analytics algorithms to detect and recognize faces and number plates. Siquira DIVA’s user-interface and video wall layout can be configured to fit the needs of defined user profiles.

Integration

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

Guaranteed availability

Siquira DIVA’s 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 functions of that server. Several failover servers can be defined to monitor different groups of active servers.

Additionally, Siquira DIVA monitors the position and image quality of connected cameras to verify the effectiveness of the applied analytics. This ultimately provides users with a truly complete management system that guarantees the dependability of the surveillance solution.

Software Maintenance Contract

All Siquira DIVA software modules are delivered with a 5 years software maintenance contract (SMC).

Ordering Information

Model	Description
DIVA NVSP-10xx ¹	Standalone configuration video surveillance platform for Siquira® and third-party network devices
DIVA NVDR-10xx	Multi-server configuration video surveillance platform for Siquira® and third-party network devices
DIVA NVMS-xxxx ²	Multiple client management configuration for Siquira® and third-party network devices

¹xx represents the number of channels: 1 to 64.

²xxxx represents the number of servers and cameras monitored.

Video	
Algorithms	Supports MJPEG, MPEG4 and H.264 for both analog and IP cameras.
Recording	Continuous, motion or event triggered (FaceR, CarR, etc..) recording mode. These can be scheduled using the calendar object for repetitive action
Screen Layout and Video Wall	The layout management supports virtual matrix structure, with monitors capable to display video streams from any camera in any lay-out. These include multiple workstation, monitors and spot (active) layout management. To define a layout (operator function oriented), the following panel types are available:
Live viewing	Includes digital zoom for all live/playback video
Playback	Used to display stored video from the selected camera with UI 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.
The above different panel (resizable) types can be used to define a monitor layout. A screen layout can be directed to any monitor as default setting, manual selection or as a result of a macro. Different monitor layouts can be combined as a multi-layout, a predefined combination of layouts and monitors. The display of multiple screens can be activated by one single operator click or one touch button or alarm input	
Picture and Video Export	Export of still images are timestamped to PDF format and sent to a predefined network location or portable media. A video clip with a selected start and end time from one or more cameras simultaneously can be exported to a network location or portable media. A video player is necessary and provided for playback on any other Windows-based PC.
Log Files	All events, macros, changes and specific user activities events are logged to the database.
Profiles	Profiles are combination of the system's user settings and macro commands that apply the behaviour of all connected devices required on a predefined time frame or in a predefined situation. Once a profile is completed it can be (de)activated by the built-in calendar function, external XML commands, internal macro commands, user events, and I/O contacts.
Failover Management	Monitors a specified list of servers. If no response is received from one of the servers, the failover server takes on the settings of that server and functions as that server. Several failover servers can be defined to monitor different groups of active servers.
User Management	User management can only be performed by administrator, who can grant multilevel access to users among all user defined objects in the system.
Calendar	Used to (de)activate profiles and run automated macros within specified periods.
Statistics	Generated for devices, hard disks and network in real time to assist/support engineers, technicians and network managers.
Macros	Macros can be defined to automate action(s) when a combination of events (rules) occurs. Both server and viewer (executed when the operator is logged) macros are supported.
Database	The system database is Postgres, an open source enterprise database server on which all events are stored in. If VCA features are used, then more specific metadata are also stored to provide search efficiency.
Smart search	The search engine allows quick access to the selected event types and selected times. Event criteria include motion, scene change, license plate number, face. The results are displayed in a list with the corresponding images.
SceneR (Tampering)	Detect/compare from live video from a reference image to track unwanted changes in the scene. (obstruction, slight movement, anti-masking, etc.)
Integration (option)	Integration/interaction with third party software applications is performed via 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 matched face or license plate to a third party access control platform or the other way to switch a layout, start recording, etc.
Car R (License Plate Recognition option)	CarR detects license plate in video frames with country type classification. The detected plates are compared to stored database lack or white list (if defined) with a match/mismatch event result type.
Face R (Facial Recognition option)	FaceR is a 2D algorithm that extracts faces from live video and compares with a black or white list of subjects. A match/mismatch event type is generated for the appropriate action.
Operating System	Windows Server 2008 R2 and Windows 7 Professional