

# SEEnergy $\pi$ -Vu Professional --

"Reliable and High Performance Intelligent Video Management Software"



With SEEnergy  
Content Analysis Technology

The all-in-one IP Surveillance solution....

$\pi$ -Vu Professional is the ideal video management software for mid-sized applications. It's capable of managing total of 64 network cameras and delivering high quality live and playback videos simultaneously. Its built-in video analysis engine can greatly reduce human errors during daily monitoring and record videos that are useful to the end users. Remote monitoring and playback is possible through the web browser, client software, or even mobile devices. Datas can be backed up in multiple places and the backup can be performed remotely.

Preliminary

- **Client-server Architecture**
- **Manage up to 64 Network Cameras**
- **Support H.264**
- **Support MegaPixel Resolution**
- **Built-in Video Analytic Functions**
- **Built-in Image Enhancement Tools**
- **Advanced E-Map Monitoring**
- **Remote Client Backup and Playback**
- **Two-way Audio**
- **9 Channel Synchronous Playback**



**π-Vu Professional -- Feature Highlights**

**Video Analytics Software Modules**

**Object Loss**



It triggers an alert when an item is removed from its last location. Detection can be defined to alarm when an object is removed/stolen

**Smart Motion Detection**



One or more regions in a video can be configured as motion areas. Only motions detected in those areas trigger the alerts

**Tripwire**



Users can create one or more virtual lines and sets detections to be triggered when a person or a vehicle is crossing one of these lines. Prohibit or allow movement in a single direction can also be configured

**Image Enhancement**



*Before After*

It is aimed to improve the interpretability or perception of information in images for human viewers

**Camera Tampering Detection**



It triggers an alert when camera operation is disrupted by situations such as blocking the unit, low visibility or redirection.

**The SEEnergy Smart Motion Detection (SMD) detects motion area to pixel accuracy based on adaptive temporal differencing.**

**A surveillance-specific morphology operation is integrated to filter out noise and enhance motion area simultaneously.**

**SMD has been tested in general indoor/outdoor environment. It is also applicable to low light conditions or infrared images.**

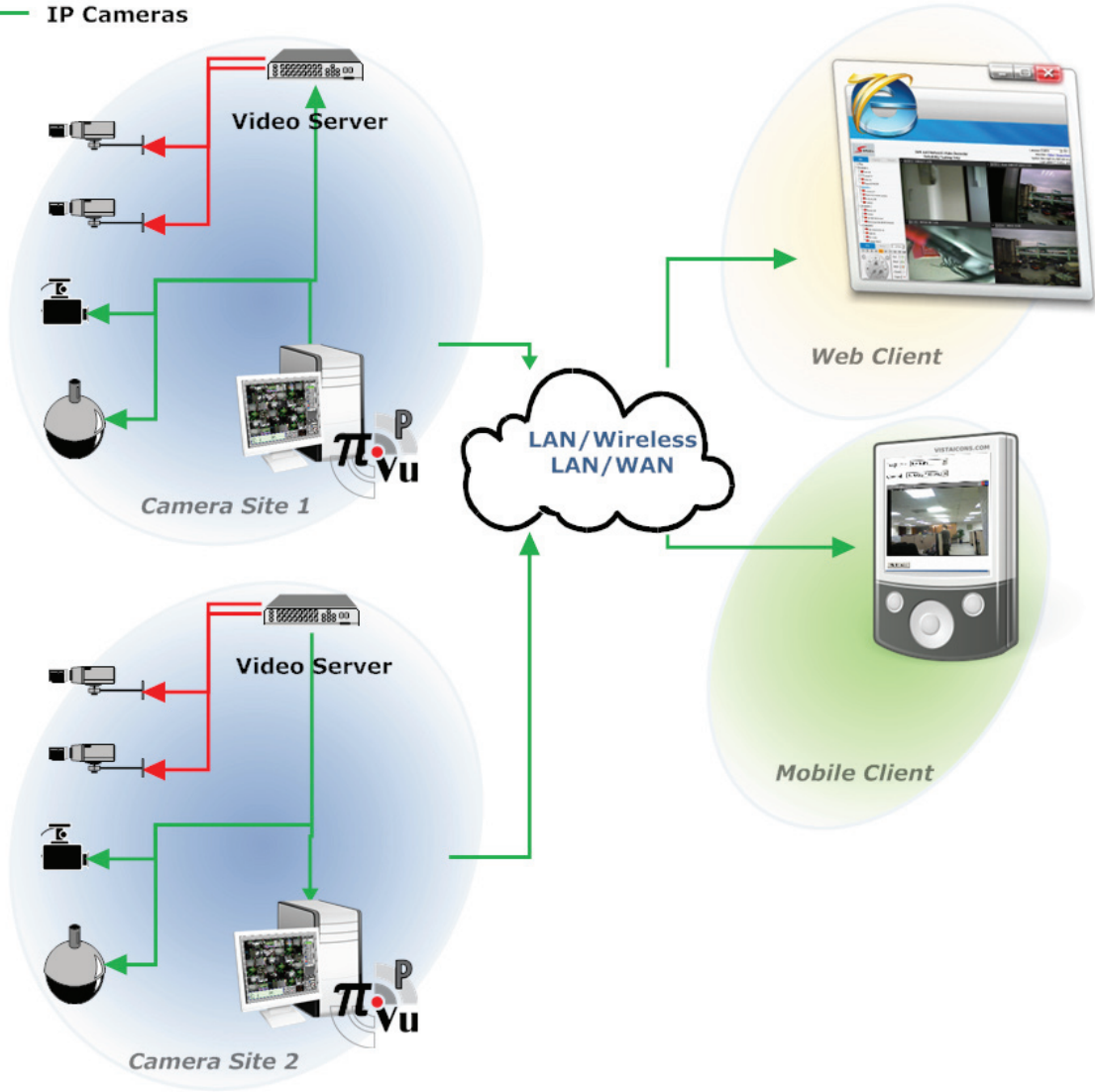
## π-Vu Professional -- Technical Specifications

Camera	
<b>Add Camera</b>	Manual/Smart Search/Auto Detect
<b>Supported Brand</b>	Axis/Sony/Panasonic/AVTech/Canon/D-Link/ACTi/Mobotix/Vivotek/AMTK/Arecont Vision/Etrovision/Level1/Planet/Toshiba/Zavio
<b>Max. Channels</b>	64
Video	
<b>Compression</b>	MJPEG/MPEG4/H.264
<b>Resolution</b>	MegaPixel/FD1/CIF/QCIF
<b>Max. Frame Rate</b>	25/30 FD1 (Configurable)
Audio	
<b>Streaming</b>	Two-way
<b>Compression</b>	G.711/G.726
Live View	
<b>Multi-Monitor</b>	Up to five monitors can be automatically detected for viewing different function windows simultaneously
<b>Display Mode</b>	Live View/E-Map View/Event Monitor/Playback/Full Screen
<b>Split Screen</b>	1/4/6/9/13/16/25/36/64
<b>Pattern Display Mode</b>	User self-define patterns
<b>Full Screen</b>	64 videos
<b>PTZ Controls</b>	Pan/Tilt/Zoom/IRIS/Focus/Speed Control
<b>PTZ Functions</b>	Virtual PTZ Panel/Mouse-over-video PTZ/Auto Pan/Preset Point/Digital PTZ
<b>Sequence Mode</b>	Sequence All/Manually Selected cameras in 1/4/6/9/13/16 split view/Self-define patterns with configurable timer
<b>E-Map Monitor</b>	Configurable Multi-layer E-Map
<b>Snapshot</b>	Single/Continuous snapshot in JPEG format
<b>Motion Display</b>	ROI (Region of Interest)
<b>Image Enhancement</b>	Tamper Detection/Low Light Compensation/Blur Compensation/Image Quality Improvement
E-Map Monitor	
<b>Display</b>	PIP Video Integrated on E-Map
<b>Event Trigger</b>	Pop-up video displayed on the map
Backup	
<b>Storage</b>	Multiple directory/Network Storage/HD
<b>Remote Backup</b>	Backup from remote client software/Web client

Playback	
<b>Export AVI</b>	Export recorded files to AVI
<b>Split Screen</b>	1/4/9
<b>Search Methods</b>	Time/Date, Event (thumbnails)
<b>Event Search</b>	All/Time/Channel/Event Type/Event ID
<b>Playback Controls</b>	Play/Pause/Stop/Forward (Speed adjustable)/Reverse (Speed Adjustable)/Frame by Frame/Event By Event
<b>Remote Playback</b>	Playback videos from remote client/web client
Triggers & Events	
<b>Motion Detection</b>	SEEnergy Smart Motion Detection
<b>Digital Input</b>	Receive trigger from camera's input
<b>Motion Display</b>	ROI (Region of Interest)
<b>Event Detection</b>	Motion/Digital input & output/Camera Status
<b>Event Notifications</b>	On-Screen Alert/On-screen Motion Display/Mail/FTP/Configurable Alert Sound/Record
Status	
<b>Camera Status</b>	Disconnected/Connected/Recording/Event (Motion or sensor)
<b>System Info</b>	System Time/Login Users/System Logout/Network Bandwidth
<b>Motion Display</b>	ROI (Region of Interest)
Network	
<b>Protocols</b>	TCP/UDP/HTTP/FTP/SMTP/DHCP/DNS/ARP/ICMP/NTP/UPnP/RTP/RTSP/RTCP
Systems	
<b>Min. Hardware Requirement</b>	<b>CPU:</b> Intel Core 2 Duo or above <b>RAM:</b> Minimum 1GB or above is recommended <b>HDD:</b> 200GB or above <b>Graphic Card:</b> Independent graphic card with DirectX9.0c or higher <b>Network:</b> 100 Megabit Network Interface or above
<b>Min. Software Requirement</b>	Windows 2000(SP4), Windows XP SP2, Windows Vista/Windows 2003, IE7 or above
General	
<b>Package</b>	CD/Manual/USB KeyPro
<b>Languages</b>	English/Trad. Chinese/Simp. Chinese/Japanese/Spanish

# Application Diagrams

- Analog Cameras
- IP Cameras



Preliminary

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