

## VMS-16, VMS-36, VMS-64 and VMS-128

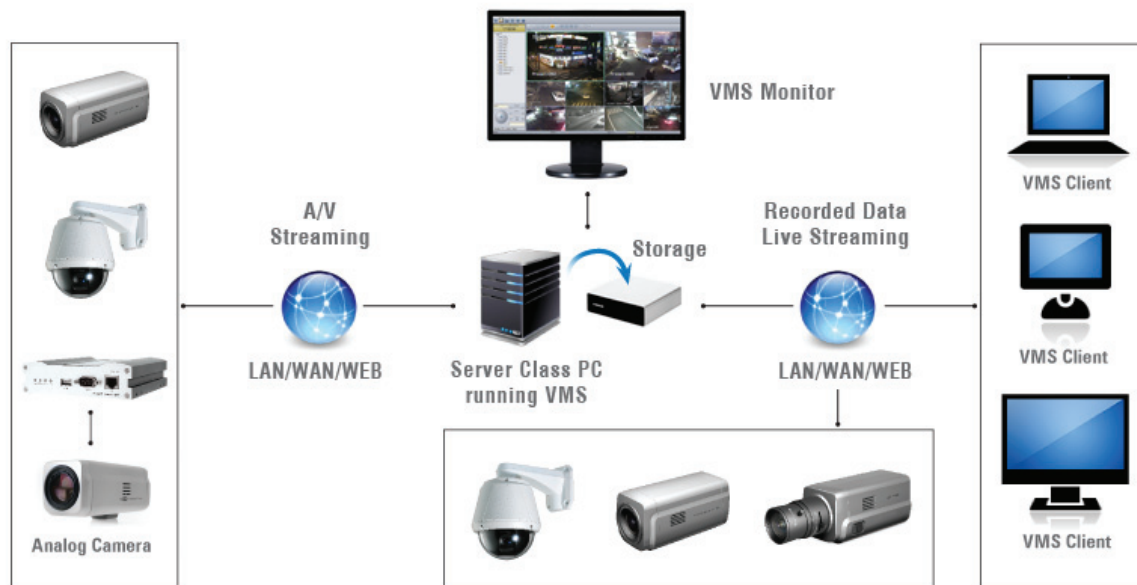
## Video Management Software

VMS is a powerful IP Video Surveillance Software Package providing rich features and ease of operation. VMS offers live monitoring and recording of a large number of IP cameras and video servers with an easy to use interface. Various types of events and schedule based recording are designed to fulfill each customers needs. The included Relay function provides stable real time streaming to multiple viewers and prevents system overload. VMS-16 software is included free with the purchase of any VS-camera or video server and can be upgraded to any of the larger versions through the purchase of a site licenses.

### FEATURES

- Manage up to 128 cameras / video servers
- Up to 16/36/64CH simultaneous live monitoring
- Up to 16/36/64/128CH simultaneous recording
- Up to 16CH simultaneous search & playback
- Provides VMS-Client software for remote live view, search and playback
- Supports T-MAP application
- Streaming relay function
- Two way audio communication
- Supports PTZ controller device interface
- Recording based on schedule associated events
- Various events monitoring and alarm notification
- Supports H.264 and MJPEG video compression
- Supports Secondary Monitor
- Easy installation / Multi-Languages
- Customized event creation using event handler

### VMS SYSTEM CONFIGURATION



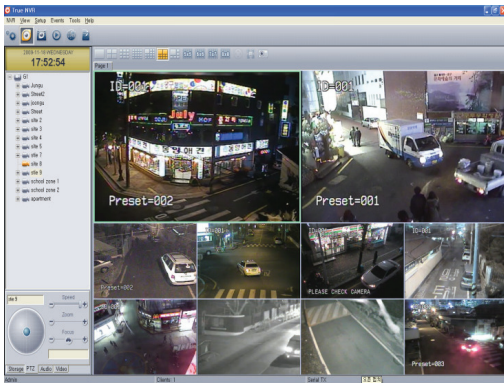
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## USER INTERFACE

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### Live View

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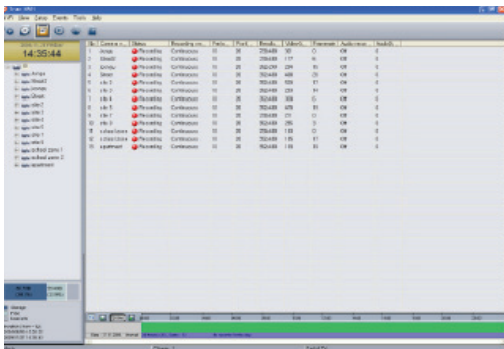


- Supports Live monitoring of up to 64/36/16CH\*
- Automatic camera IP discovery
- Easy display mapping by mouse drag or Auto mapping function
- Supports up to 11 types of screen layout modes
- Create and manage screen pages
- Optimize PC performance by using 'decode visible channels only' function
- Access remote camera setup
- Supports Secondary monitor
- On-Screen PTZ and PTZ Preset/Tour functions
- Automatic video encoding configuration according to various screen modes
- Supports two way audio communications
- Play Wave files based on camera functions

- \* The number of supported Screen modes and channels depends on version license
- \* The number of actual channels depends on server's configurations, PC and network capacity

### Recording

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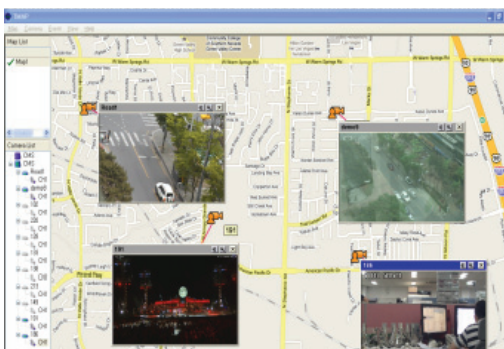


- Supports up to \*128/64/36/16CH Recording
- Supports connection to external storage
- Manual configuration of recording files size & duration
- Supports Continuous, Event-based and Manual Recording modes.
- Pre & post event recording;
  - Motion, Sensor, Alarm, Video loss, Serial event
- Recording based on manually triggered events and scheduled events
- Recording based external events from other cameras
- Record Status mode:
  - The Recording status of all system components can be monitored on this page. This mode doesn't require the CPU for decoding and display, as a result more cameras can be accommodated for recording and streaming.

- \* The number of supported Screen modes and channels depends on version license
- \* The number of actual channels depends on server's configurations, PC and network capacity

### T-MAP

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- Display image-based maps
- Add the list of cameras from VMS
- Easy placement of cameras on the map
- Display video manually or by using an event-trigger
- Supports two way audio communication
- Various types of actions based on events:
  - Highlight camera node
  - Pop-up video window
  - Sound effect
  - Event window display and logging
  - Automatic enabling of audio output,
  - Change active channel
- Event log search

- \* The number of supported Screen modes and channels depends on version license
- \* The number of actual channels depends on server's configurations, PC and network capacity

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## USER INTERFACE

### Search & Playback



- Supports up to 16Channels\* of simultaneous playback
- Search by date, time and events
- Easy to use playback control interface
- Playback of individual storage files
- Supports remote search and playback from remote clients
- AVI file back up
- Supports format storage files generated by VMS
- Supports Snapshot
- Bookmark function

\* The number of actual channels depends on cameras' configurations or PC capacity

### VMS 128CH / 64CH / 36CH / 16CH Specifications

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Minimum System Requirements</b>             | <ul style="list-style-type: none"> <li>• <b>Operating system:</b> Window XP Professional, Vista Business, Window 7, Server 2003/2008</li> <li>• <b>CPU:</b> Intel Pentium 4 / 2 .4GHz or higher</li> <li>• <b>RAM:</b> 1GB or larger</li> <li>• <b>Network:</b> Ethernet 100Mbps or larger</li> <li>• <b>Graphics:</b> Graphics memory: 512MB or larger, Direct X 9.0 installed, Screen resolution: 1024 x 768 or larger</li> </ul> <p>* Note: Above minimum requirements are for a system configuration using 4 to 6 cameras. The requirements to support additional cameras vary greatly depending on the number of channels, video resolution, frame rate, bit rate etc. Marshall offers two high performance workstations specifically designed for large systems, the VS-DX-01 and the VS-DX-02. Please contact Marshall Technical Support for additional recommendations regarding specific configurations with support for a large number of cameras.</p> |
| <b>Video</b>                                   | <ul style="list-style-type: none"> <li>• <b>Algorithm:</b> MJPEG or H.264</li> <li>• <b>Frame rate:</b> Up to 30fps</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Audio</b>                                   | <ul style="list-style-type: none"> <li>• Two way audio communication (VMS→Cameras, Cameras→VMS)</li> <li>• Play Wave file function</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Live Monitoring</b>                         | <ul style="list-style-type: none"> <li>• Up to *64/36/16 Channels simultaneously</li> <li>• <b>*Screen Mode:</b> 1x1, 2x2, 3x3, 4x4, 1+12, 2+8, 1+5, 5x5, 6x6, 7x7, 8x8</li> <li>• <b>PTZ Control:</b> On-screen PTZ, PTZ Preset, PTZ Tour, Digital Zoom</li> <li>• <b>Event monitoring:</b> Sensor, Motion, Alarm, Video loss, Serial event, Combined events by Event handler</li> </ul> <p>* The number of supported Screen modes and channels depends on version license<br/>         * The number of actual channels depends on server's configurations, PC and network capacity</p>                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Recording</b>                               | <ul style="list-style-type: none"> <li>• Up to *128/64/36/16 Channels simultaneously</li> <li>• <b>Recording Mode:</b> Continuous (Schedule), Event-based (Schedule), Manual</li> <li>• Video, Audio, Event data recording</li> <li>• Record Mode (Monitor Recording status without live monitoring)</li> </ul> <p>* The number of supported Screen modes and channels depends on version license<br/>         * The number of actual channels depends on server's configurations, PC and network capacity</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Search &amp; Playback</b>                   | <ul style="list-style-type: none"> <li>• Up to *16 Channels simultaneous Playback</li> <li>• Search methods: Date, Time, Events</li> <li>• Event log search</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>T-MAP</b>                                   | <ul style="list-style-type: none"> <li>• Map based monitoring program, T-MAP included</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Relay</b>                                   | <ul style="list-style-type: none"> <li>• Streaming relay function included</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Remote Live View, Search &amp; Playback</b> | <ul style="list-style-type: none"> <li>• Supports remote live view, search &amp; playback for remote clients through VMS Client software</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Serial</b>                                  | <ul style="list-style-type: none"> <li>• Serial data pass-through for external PTZ controller</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Multi-Monitor</b>                           | <ul style="list-style-type: none"> <li>• Support Secondary Monitor</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Back up</b>                                 | <ul style="list-style-type: none"> <li>• AVI file back up</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Security</b>                                | <ul style="list-style-type: none"> <li>• 4 types of authentication: Admin, Manager, User, Guest</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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# VMS Client

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VMS Client is software that allows monitoring of Marshall Products and the ability to playback & search recorded data from VMS remotely over the network.

VMS Client software enables users at remote sites to connect to VMS at a central location and to get video & audio data in real time.

## FEATURES

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- Up to 16CH simultaneous remote live monitoring from VMS
- Up to 16CH simultaneous remote search & playback from VMS recording data
- Supports T-Map application
- Easy connection to VMS
- Supports secondary monitor
- Two way audio communication
- Supports PTZ controller device interface
- Various event and alarm monitoring notification
- Supports H.264 and MJPEG video compression
- Supports mega pixel cameras
- Supports Multiple languages

## VMS SYSTEM CONFIGURATION

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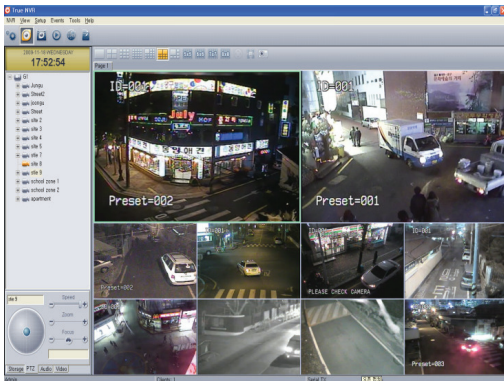


## VMS CLIENT USER INTERFACE

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### Live View

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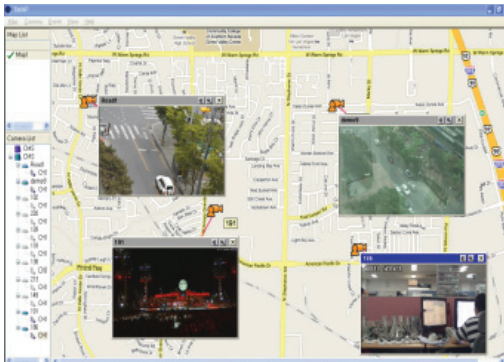


- Supports up to 16 Channels of remote live monitoring of VMS
- Easy connection control to several VMS
- Supports up to 7 types of screen modes
- Access and Read remote camera setup
- Support secondary monitor
- On-Screen PTZ and PTZ Preset/Tour functions
- Supports two way audio communication
- Play Wave files to camera function

\* The number of actual channels depends on server's configurations, PC and network capacity

### T-MAP

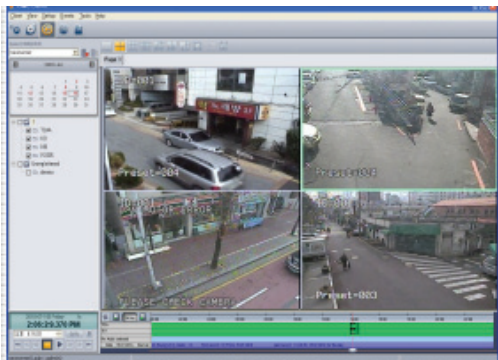
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- Map based monitoring
- Display image-based maps
- Add the list of cameras from VMS
- Easy placement of cameras on the map
- Display cameras' video manually or in a event-driven way
- Supports two way audio communication
- Various types of actions based on events
- Event log search

### Search & Playback

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- Support up to \*16CH of simultaneous remote playback from the VMS recorded data
- Search by date, time and events
- Easy to use playback control interface
- AVI file back up
- Supports format storage files generated by VMS
- Supports Snapshot
- Bookmark function

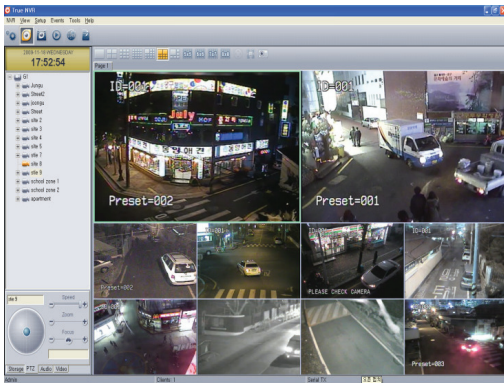
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## VMS CLIENT ADDITIONAL FUNCTIONS

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### Web Client

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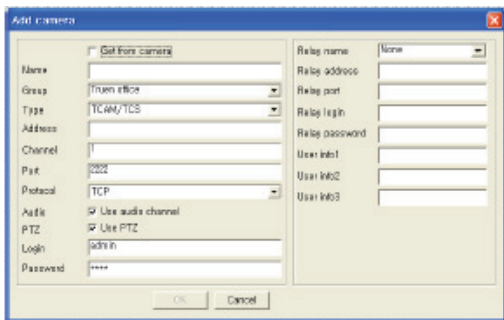
Web Client is a software client to monitor Marshall Cameras as well as playback & search recorded data from a VMS remotely through a local network or using the web.

Web Client enables users at remote sites to connect to a VMS in a center and get real-time video & audio data.

\* The number of actual channels depends on server's configurations, PC and network capacity

### Relay

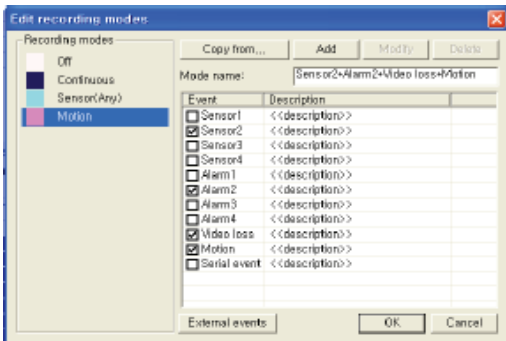
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- Provides real-time video to clients from cameras without overloading the network resources
- Register cameras on streaming server automatically

### Edit Recording Modes

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- Setup various recording modes
- Copy recording modes from one camera to another camera without repeating configuration