

| Feature List | VAST | ST7501 (Free-standard) |
|--|-----------|------------------------|
| Live View on Dual Monitors | V (64-CH) | V (32-CH) |
| Synchronous/ Asynchronous 16-channel Playback | V | Asynchronous only |
| Remote Access via Client/Server Architecture | V | V |
| Event Trigger Management | V | V |
| Recording Group & Recording Schedule Management | V | V |
| User Management | V | V |
| Data Backup, Search, and Export | V | V |
| PTZ/ E-PTZ Remote Camera Control | V | V |
| E-map | V | V |
| Hierarchical Management | V | -- |
| VAST Matrix for Hundreds of Live Views | V | -- |
| PiP Function -- Digital Zoom In and Multi-touch Mode | V | -- |
| Integrated with VIVOTEK NVR | V | -- |
| Web Access via IE and FireFox | V | -- |
| Post-Video Enhancement and Defog | V | -- |

Technical Specifications

| | |
|--|--|
| General <ul style="list-style-type: none"> Hundreds of live view channel (VAST Matrix)* OS: Windows 7, Vista, XP, W2K, Server 2003 & Server 2008 Supported DBMS: SQL server & PostgreSQL | Protocol <ul style="list-style-type: none"> Client & Server communication protocol: HTTP tunnel with XML content Encryption: AES Encryption |
| Codec <ul style="list-style-type: none"> Video compression : H.264, MPEG-4 & MJPEG Audio compression: AAC, GAMR, G.7221, G.729A, G.711 & G.711A | Playback <ul style="list-style-type: none"> Max. number of channel: 16 Playback mode: Asynchronous & Synchronous Event & Log search: Yes |
| Recording <ul style="list-style-type: none"> Recording type: Manual, Schedule & Event trigger Event trigger source: Motion, Temperature, Tampering, DI/O, IR, PIR, IVA, Video lost, Recording error, Recording status, Substation connection status, Storage connection status, Storage capacity status, License status, Network status & Virtual memory status Media file format: ISO base media file format Cyclic recording: Day based & Spatial based Supports multiple hard disks Max. 256-CH recording channels/per hard disk Supports NAS & SMB | Video Enhancement <ul style="list-style-type: none"> Post-video Enhancement: Brightness, Contrast, Saturation & Hue Intelligent Enhancement: Defog for Fog, Rain, Snow, Fire & Smoke |
| Security <ul style="list-style-type: none"> Account role type: 5 levels of user roles Supports authentication protection | Event Management <ul style="list-style-type: none"> Live event awareness: Yes Trigger source: Motion, Temperature, Tampering, DI/O, IR, PIR, IVA, Video lost, Recording error, Recording status, Substation connection status, Storage connection status, Storage capacity status, License status, Network status & Virtual memory status Actions: Email, Start recording, Move to the preset position, Set DO, GSM short message & Send CGI command |
| Exporting <ul style="list-style-type: none"> Exporting format: AVI, EXE, 3GP Snapshot format: BMP, JPEG Source: Live view and media files | Other <ul style="list-style-type: none"> Camera configuration: Web-based configuration page embedded in VAST LiveClient Multi-lingual user interface: Nine languages & additional customized languages (English, French, German, Italian, Spanish, Traditional Chinese, Simplified Chinese, Japanese, Portugal) PTZ control: Support PTZ control panel, Joystick, Click on Image & Keyboard shortcut Installer: 4 divided installers for VAST Server, VAST LiveClient, VAST Playback & All in One |
| Backup <ul style="list-style-type: none"> Backup types: Manual, Scheduled | Keyboard Hotkey <ul style="list-style-type: none"> PTZ & E-PTZ Full screen, Single view & Layout page change Snapshot Stop alarm Mute audio of the focused channel Start & Stop rotation |
| Layout-live <ul style="list-style-type: none"> Layout types: 1x1, 2x2, 1+5, 3x3, 1+12, 4x4, 5x5, 1+31 Supports drag & drop Supports layout sets (Switch between different layout sets) Supports automatically add a newly-inserted device to the layout Supports page mode Supports multi-touch mode on VAST Matrix | Touch Screen Support <ul style="list-style-type: none"> Multi-touch mode on PiP* |
| Architecture <ul style="list-style-type: none"> System: Client & Server Remote access: Windows IE6, IE7, IE8 & FireFox 3.6 Hierarchical: Yes Program: VAST LiveClient, VAST Playback, VAST Matrix & VAST Server with VAST Server tool | Audio <ul style="list-style-type: none"> Supports two way audio |

* 3 Depends on H/W spec
* 4 Supports on Win7

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Central Management Software

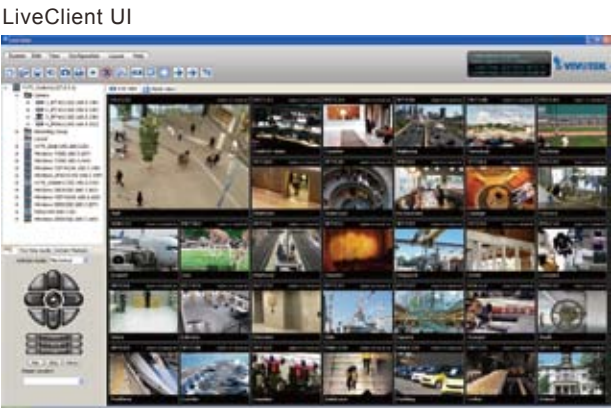


Hierarchical Management • VAST Matrix • PiP



VIVOTEK is proud to introduce VAST, the most comprehensive central management software designed for managing all VIVOTEK IP surveillance products with intuitive functions and numerous features. It supports hundreds of cameras and stations in a hierarchical structure of system for monitoring, recording, playback, and event trigger management with ease-of-use and efficient control. Most particularly, the newest fully scalable feature VAST Matrix offers an hundreds of number of live views for monitoring. Together with simultaneous 16-channel playback facilitating quick & easy browsing from multiple stations, it performs remote management with a large scale of the server & client structure and constitutes a robust system for stores, banking, and public space.

Features

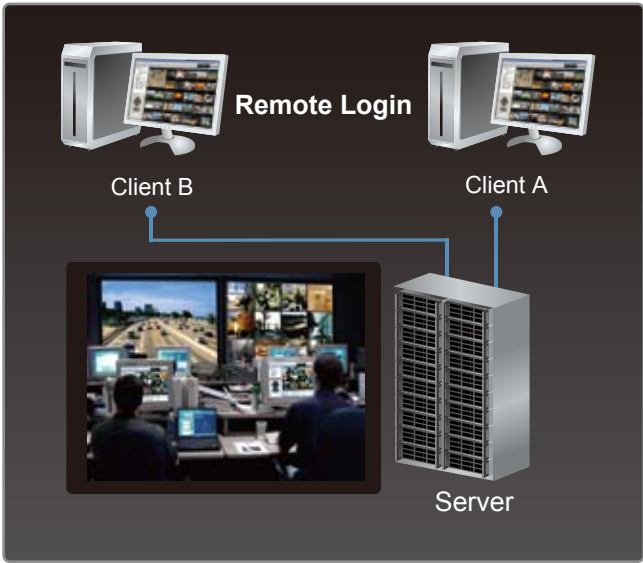


- Powerful Video Wall Solution “VAST Matrix” for Hundreds of Live Views*
- Intelligent PiP Function -- Digital Zoom In and Multi-touch Mode
- Integrated with VIVOTEK NVR for Extreme Applications
- Convenient Remote Access via Client/Server Architecture
- Powerful Hierarchical Management*
- Effective & Reliable Event Trigger Management
- Real-time 64-channel Live Viewing and Simultaneous 16-channel P playback
- Multiple Simultaneous Streams for Different Media Platforms
- Activity Adaptive Streaming for Dramatically Reducing Bandwidth and Storage Space
- Synchronous/ Asynchronous Playback for Effortless Viewing
- Extremely Versatile Settings for Recording Group and Recording Schedule Management
- Role-based User Management to Enhance Security Operations
- Efficient Data Backup, Search, and Export
- Intelligent PTZ/ E-PTZ Remote Camera Control
- Overall Device Management through Intuitive E-map Feature
- Instantly Playback Event Recording
- Built-in Instant Player for Playback
- Supports Web Access via IE and FireFox
- Supports Post-Video Enhancement and Defog
- Accessible through NAT Using the Public IP
- Supports Two Way Audio

*1 The ability to extend devices is also subject to the network bandwidth and computer performance.
*2 The number of linked stations will depend on the license on the key dongle.

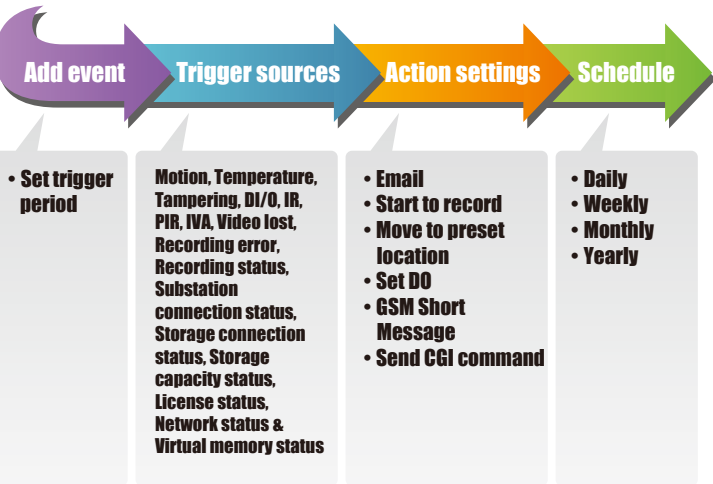
Remote Access via Client/Server Architecture

User can access VAST via Internet by using LiveClient and Playback programs or web browsers.



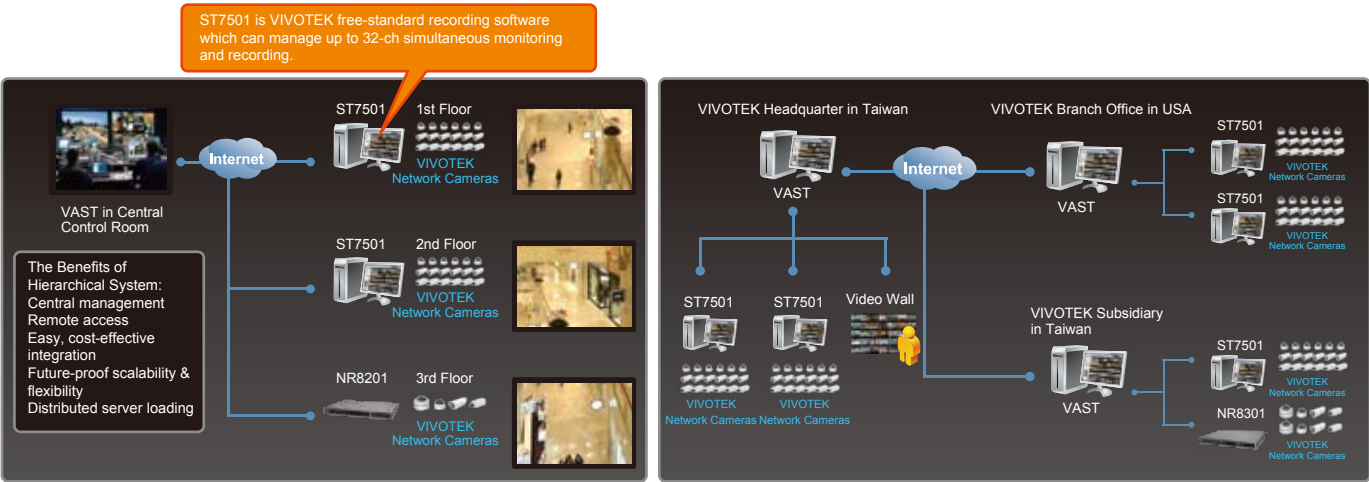
Effective Event Management

The VAST LiveClient supports comprehensive event management which allows the user to quickly respond to any emergencies. The VAST Playback offers an array of event search engine for retrieving video clips from the database of recorded videos based on different search criteria.



Truly Open Platform with Hierarchical Management Architecture

The powerful management scalability of VAST makes it suitable for managing from the small-scale to the large-scale surveillance systems.



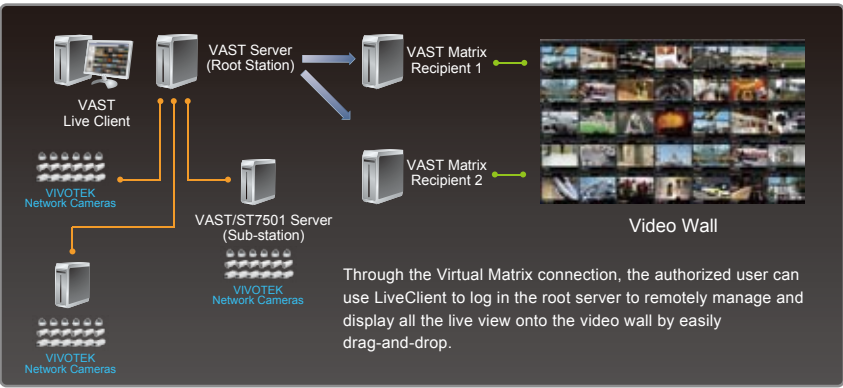
Fully Scalable VAST Matrix

VAST Matrix is a very useful program for multiple monitor display and central management, which efficiently helps user construct a real-time live video wall in the control center, thus making VAST a very powerful central management system.

Video Wall



The System Structure of VAST Matrix



Intuitive User Interface

PiP (Picture-in-Picture)

PiP is an advanced function for user to simultaneously view a Global View and ROI (Region of Interest) for live monitoring, which is very useful while viewing high-megapixel video. The digital zoom in function can only focus on the interested area and represent the details of megapixel video. Moreover, the **multi-touch mode** is a user-friendly interface for user to easily digital zoom in a view with two fingers upon the multi-touch monitors.



E-map

VAST LiveClient supports intuitive E-map function which allows users to upload E-maps for overall devices management. The whole system architecture is thus visualized through e-map links.

