



VAST

Professional Video/
Central Management Software

Professional VMS/CMS Software · Video Wall · H.265 Compression ·
Unlimited Number of Cameras Support

VIVOTEK VAST is the professional video / central management software designed for managing all VIVOTEK IP surveillance products with intuitive functions and numerous features. It integrates the new generation H.265 video codec and 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. Moreover, VAST also offers the video wall solution, VAST Matrix, for hundreds of cameras live view monitoring.

VAST integrates VIVOTEK network cameras to provide diverse solutions and applications, such as seamless recording with the cameras for uninterrupted video recording, Panoramic PTZ for 360° seamless surveillance solution and VCA metadata Integration like Line Crossing Detection, Loitering Detection and Field Detection. VAST performs remote management with full range of the server & client structure and constitutes a robust system for various applications, such as Retail, Residential and Industrial.

Support List:

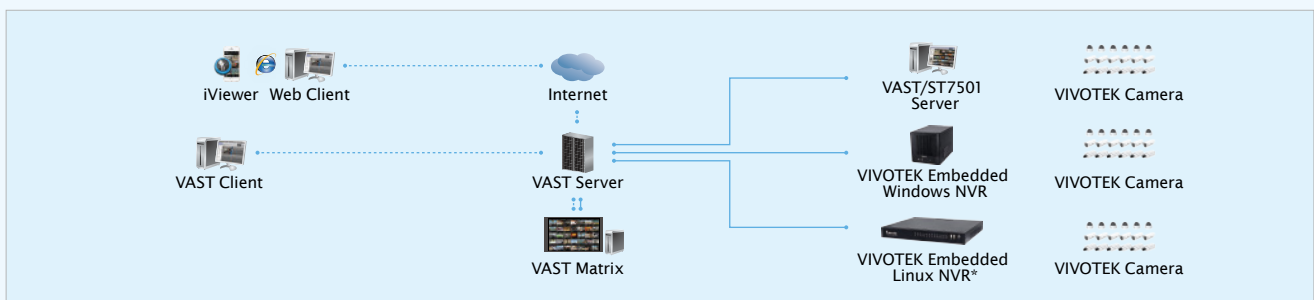
- VIVOTEK Network Cameras: 7000 & 8000 & 9000 Series (MD7560X excluded)
- VIVOTEK NVR: NR & ND Series
- VIVOTEK Software: ST7501, VAST
- VIVOTEK Switch: VivoCam PoE Switch (AW-GEV Series)

New Features in Version 1.11

- H.265 Compression Support
- Software License Support
- Instant Replay Enhancement
- Alarm Acknowledgement
- Unified Device Pack
- Joystick Hotkey Link Support
- VivoCam PoE Switch Discover Integration

Key Features

- Video Wall Solution "VAST Matrix" for Unlimited Live Views
- 64-channel Live Video Monitoring with Dual Monitors
- 16-channel Synchronous Playback
- PTZ/ePTZ/PIP(Digital Zoom) Function Control
- Logical Tree Management
- Intelligent Alarm Management
- Overall Device Management through Intuitive E-map Feature
- Two-way Audio, Multi-channel Audio Broadcast
- Post-Video Enhancement and Defog
- Instant Replay & Playback on Live Client
- Auto Stream Size for Reducing Display Loading
- Multiple Fisheye Dewarp Support
- Web Access via Internet Explorer
- Windows Active Directory Integration
- Device Packs for Extending New VIVOTEK Cameras
- VIVOTEK Exclusive Feature: Panoramic PTZ and Seamless Recording



VAST Structure

* Embedded Linux NVR supports Live View, Playback and Alarm Search

Technical Specifications

Version	1.11	Schedule Type	Continuous, Schedule, Manual
General		Camera Event	Motion, DI/O, Video Lost/Restore, PIR, Tampering, Temperature, IR, PPTZ, Line Crossing Detection, Loitering Detection, Field Detection
Maximum Number of Cameras	Unlimited (Please Refer to System Requirements Below)	Camera Status	Connection Status, Recording Status, Recording Error
Maximum Number of Servers	Unlimited (Please Refer to System Requirements Below)	Substation	Substation Connection Status
Maximum Number of Clients	Unlimited	Storage Status	Storage Connection Status, Storage Capacity Status
Support OS	Windows 8, 7, Vista, XP Windows Server 2012, 2008, 2003, 2000	Station Status	License Status, Network Status, Virtual Memory Status
Support Web Browser	Internet Explorer 11/10/9	External Devices Event	DI/O (With I/O Box)
Mobile Support	iViewer (iOS/Android)	Action	Email, Start Recording, Set DO, GSM Short Message, HTTP & Client Notification
Virtual Matrix Support	VAST Matrix (Please Refer to System Requirements Below)	eMap	
Devices Pack	.vdp File Update	Source	Import Picture
LiveView (Local Display)		Marked	Add, Remove, Direction Control, PTZ Control & Indicator LiveView
Max. Channel	64-Channel (with Dual Monitors)	Event Notification	Event Icon Light Flash
Layout	Multi Layout Display: 1x1, 2x2, 1+5, 3x3, 1+12, 4x4, 5x5, 1+31, 1P+2, 1P+6, 1P+8, 2V, 3V, 4V, 2V+3 Single Layout Display, Full Screen Display, Sequential Display	PTZ	
Stream Application	Stream Selection & Auto Stream Size	PTZ/ePTZ Control	Panel Control & Mouse Click Control
View Application	Drag & Drop Remote I/O Control PIP (Digital Zoom) Instant Replay De-interlace Video Display Mode (Aspect Ratio, Hide Borders, Keep Top/Down Borders)	PTZ/ePTZ Operation	Direction Control, Home, Zoom, Focus, Iris, Preset, Patrol (Group), Pan, Stop, Speed
Fisheye Dewarp Mode		PTZ Operation Mode	Click to Move & Continuous Move
	Fisheye Display Mode: Regular: 1O, 1P, 1R, 1O3R, 4R Wall Mount: 1P2R, 1P3R Ceiling/Floor Mount: 2P, 4R Pro, 1O8R	Export	
Playback		Print	Selection Windows & All Windows
Max. Channel	16 Channels	Snapshot	BMP & JPEG
Layout	Multi Layout Display: 1x1, 2x2, 1+5, 3x3, 1+12, 4x4, 2V, 3V, 4V, 2V+3 Single Layout Display, Full Screen Display, Sequential Display	Export file	AVI, 3GP & EXE
Playback Mode	Asynchronous & Synchronous	Backup	
Playback Control	Play, Rewind, Pause, Stop, Next / Previous Video Start, Next / Previous Frame, 1/8X ~ 64X Speed Control, Bookmark	Schedule	NAS (SMB & CIFS)
Search Mode	Browsing, Date & Time (Fast), Event, Bookmark, Alarm, Log, Timeline, Timeline Scale	System	
Video		User Management	Authentication: Basic Account / Windows AD Account
Video Format	MJPEG, MPEG4, H.264 AVC, H.264 SVC, H.265	User Level	Administrator, Power User, User, Operator & Guest
Video Resolution	Up to 9 Megapixels	User Control	Permission, Accessible Cameras & Accessible Substation
Video Enhancement	Basic Mode: Brightness, Contrast, Saturation, Hue Intelligent Mode: Defog, Rain, Snow, Fire / Smoke	Date & Time	Sync PC
Audio		Network	DDNS, SMTP, UPnP & Proxy
Audio Format	G.711, G.726, AMR, AAC	Language	Czech, English, French, German, Italian, Japanese, Persian, Portuguese, Russian, Spanish, Simplified Chinese, Traditional Chinese
Audio Capability	Two Way	Device Integration	
Audio Control	Mute, Broadcasting & Sound Play	Joystick	VIVOTEK USB Joystick All Windows® Compatible USB Joystick
Record		I/O Box	Advantech ADAM-6000
Recording Time (sec.)	Pre-Record: 3-15, Post-Record: 10-60	Switch	VIVOTEK VivoCam PoE Switch (AW-GEV Series)
Recording Stream Type	Unicast	Camera Integration	
Recording Stream	Single	Camera Insert	Manual & Search
Recording Mode	Continuous, Schedule, Manual, Event, Activity Adaptive Streaming	Basic Setting	User Name, Password & Camera Model Detection
Recording Setting	Recycle (Unit: Size or Day)	Connection Setting	Configuration Protocol: HTTP, HTTPS Streaming Protocol: TCP, UDP, HTTP, HTTPS
Recording File Format	3 GP	Video Setting	Video Stream, Compression, Resolution, FPS, Video Quality
External Storage Recording	NAS (SMB & CIFS)	Audio Setting	Compression & Bitrate
Alarm Management		Remote Focus	Manual Focus Adjustment & Full Range Scan
Alarm Period (sec.)	Max. 30	NTP Setting	IP Address (NTP Server or VAST Server) & Updating Interval
Alarm Filter	Name, Time, Source, Event Type	ONVIF Core Spec	Version 2.2 or above (By Project)
Alarm Setting	LiveView Alarm Notification: Fixed & PopUp Alert Sound	ONVIF Stream	Video (H.264, MPEG4 & MJPEG) & Audio (G.711, One Way)
		ONVIF Recording	Continuous, Schedule, Manual
		ONVIF Control	PTZ Control (Up, Down, Left, Right & Zoom In/Out)
		ONVIF Discover	Discover the other brand camera through "Insert Camera & Batch Insert"
		Advanced Feature	
		VIVOTEK Exclusive Feature	Panoramic PTZ Seamless Recording

System Requirements

VAST Server			
Server (Recording Channels)	4Mbps for Each Channel*	Up to 64 Channels (256Mbps Recording Throughput)	Up to 128 Channels (512Mbps Recording Throughput)
CPU		3rd Generation Intel® Core™ i5 Processors or above	3rd Generation Intel® Core™ i7 Processors or above
RAM		4 GB or above	4 GB or above
Hard Drive (Enterprise Model Only)		1 Volume Group	2 Volume Group
Network Interface Card		1000/100/10 Ethernet	
* Maximum number bitrate of cameras will be not over total recording throughput.			

VAST LiveView & Playback				
Client (Display Channels)	H.264, 720P, 4Mbps for Each Channel*	8CH	16CH	32CH
	H.264, 1080P, 4Mbps for Each Channel**	4CH	10CH	18CH
	H.265, 1080P, 4Mbps for Each Channel	2CH	5CH	9CH
CPU		3rd Generation Intel® Core™ i3 Processors or above	3rd Generation Intel® Core™ i5 Processors or above	3rd Generation Intel® Core™ i7 Processors or above
RAM		2GB or above	4GB or above	4GB or above
Graphics Processing Unit (GPU)		Support Direct3D acceleration with 1GB Video RAM		
Network Interface Card		1000/100/10 Ethernet		
* Display requirements of the 3MP fisheye camera is equal to a 720P camera. ** Display requirements of the 5MP fisheye camera is equal to a 1080P camera. If installing Server & Client in the same PC, overall loading of the PC is to be evaluated.				

Trial for 60 days.

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