





H.265 Compression · Unlimited Number of Cameras Support · Video Wall · Windows Active Directory · Failover Redundancy

VIVOTEK's VAST is an intuitive professional video/central management software designed for managing all VIVOTEK IP surveillance products. It integrates next generation H.265 video codec and supports hundreds of cameras and stations in a hierarchical system structure for monitoring, recording, playback and event trigger management with effortless control. Furthermore, VAST offers the video wall solution, VAST Matrix, for hundreds of live view camera monitoring.

VAST expertly integrates with VIVOTEK's network cameras to provide the most expansive solutions and applications in video surveillance. Seamless recording with cameras

for uninterrupted video recording, Panoramic PTZ for 360° seamless surveillance and VCA metadata Integration like Line Crossing Detection, Loitering Detection, Field Detection and People Counting Reports are among the highlights of this integration. At the system level, VAST supports failover redundancy to avoid single points of failure and ensures maximum system up time. It also supports setup of the VAST server on a virtual machine by using one powerful physical server running multiple VASTs on it. VAST performs remote management with the full range of the server & client structures and constitutes a robust system for various applications, such as Retail, Residential and Industrial.

New Feature in Version 1.13

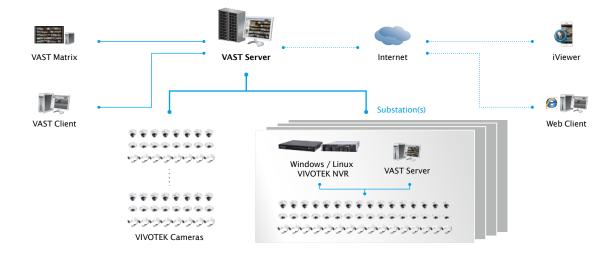
- · Failover Redundancy
- · Virtual Machine Supported
- · RTSP Streaming Recording

- · Joystick Enhancement
- · ONVIF Event Support in Alarm Management

Key Features

- · 128-channel Live Video Monitoring with Dual Monitors
- · 16-channel Synchronous Playback
- · Video Wall Solution "VAST Matrix" for Unlimited Live Views
- Auto Stream Size for Reducing Display Loading (Live-Client/ Matrix)
- · Instant Replay & Playback on Live Client
- · Intelligent Alarm Management and Acknowledgement
- · Overall Device Management through Intuitive E-map Feature
- · Multiple Fisheye Dewarp Support
- · Web Access via Internet Explorer
- · Logical Tree Management
- · Windows Active Directory Integration
- · VIVOTEK Exclusive Feature: Panoramic PTZ, Seamless Recording and VCA Counting Solution
- · Failover Solution
- · Virtual Machine Solution

VAST Structure



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)

System Requirements

VAST Server			
Server (Recording Channels)	Up to 64 Channels	Up to 128 Channels	Up to 256 Channels
СРИ	4th Genera Core™ i3 F or al	4th Generation Intel® Core™ i5 Processors or above	
RAM	4 GB or above	8 GB or above	8 GB or above
Hard Drive (Enterprise Model Only) Suggestion	1 Volume Group*	2 Volume Group*	4 Volume Group*
Recording Throughput	1 Volume Group: 200 Mbps (Max.)**		
Network Interface Card	1000/100/10 Ethernet***		

- * Volume group depends on total recording server throughput.
- ** Maximum number bitrate of cameras not to go over total recording throughput.

 *** Please consider the throughput of viewing, recording and server's network.

VAST LiveView & Playback

Client (Display Channels)	H.264, 720P, 2Mbps for Each Channel*	8CH	16CH	32CH	
	H.264, 1080P, 4Mbps for Each Channel**	6CH	10CH	18CH	
	H.265, 1080P, 4Mbps for Each Channel	3CH	5CH	9CH	
СРИ		4th Generation Intel® Core™ i3 Processors	4th Generation Intel® Core™ i5 Processors	4th Generation Intel® Core™ i7 Processors	
RAM		2 GB or above	4 GB or above	4 GB or above	
Graphics Processing Unit (GPU)		Support Direct3D Acceleration with 1GB Video RAM			
Network Interface Card		1000/100/10 Ethernet			

- * Display requirements of a 3MP fisheye camera is equal to a 720P camera.
- ** Display requirements of a 5MP fisheye camera is equal to a 1080P camera.

 If installing Server & Client in the same PC, overall loading of the PC will be evaluated.

Technical Specifications

Version	1.13	Audio Control	Mute, Broadcasting & Sound Play
General		Record	
Max. Number of Cameras*	Unlimited	Recording Time (sec.)	Pre-Record: 3-15, Post-Record: 10-60
Max. Number of Servers*	Unlimited	Recording Stream Type	Unicast
Max. Number of Clients	Unlimited	Recording Stream	Single/Multiple
Support OS	Windows 10, 8, 7, Vista, XP Windows Server 2012, 2008, 2003, 2000	Recording Mode	Continuous, Schedule, Manual, Event, Activity Adaptive Streaming
Support Web Browser	Internet Explorer 11/10/9	Recording Setting	Recycle (Unit: Size or Day)
Mobile Support	iViewer (iOS/Android)	Recording File Format	3GP
Virtual Matrix Support*	VAST Matrix	External Storage Recording	NAS (SMB & CIFS)
Devices Pack	.vdp File Update	Alarm Management	
*Please refer to System Re	quirements Page	Alarm Period (sec.)	Max. 30
(http://www.vivotek.com/v	vast/#system)		
LiveView (Local Displa	y)	Alarm Filter	Name, Time, Source, Event Type, State
Max. Channel	Multi Layout Display: 1x1, 2x2, 1+5, 3x3,		LiveView Alarm Notification: Fixed & Popup Alert Sound
Layout	1+12, 4x4, 5x5, 1+31, 8x8, 1P+2, 1P+6, 1P+8, 2V, 3V, 4V, 2V+3	Schedule Type	Continuous, Schedule, Manual
Stream Application	Single Layout Display, Full Screen Display, Sequential Display, Layout Rotate Stream Selection & Auto Stream Size	Camera Event	Motion, DI/O, Video Lost/Restore, PIR, Tampering, Temperature, IR, PPTZ, Line Crossing Detection, Loitering Detection, Field Detection, Audio detection, SD Card life Expectancy Detection, Shock Detection, ONVIF Motion Event, ONVIF DI/ O, ONVIF Video Lost/Restore
	Drag & Drop Remote I/O Control PiP (Digital Zoom)		
View Application	Instant Replay De-interlace Video Display Mode (Aspect Ratio, Hide	Camera Status	Connection Status, Recording Status, Recording Error
Fisheye Dewarp Mode	Borders, Keep Top/Down Borders) Fisheye Display Mode: Regular: 10, 1P, 1R, 103R, 4R	Substation	Substation Connection Status, Substation DI/DO Trigger* * Support for VIVOTEK's ND Series NVR
, ,	Wall Mount: 1P2R, 1P3R Ceiling/Floor Mount: 2P, 4R Pro, 1O8R	Storage Status	Storage Connection Status, Storage Capacity Status
Playback		Station Status	License Status, Network Status, Virtual
Max. Channel	16 Channels	Estamal Davissa Essat	Memory Status
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	External Devices Event Action	DI/O (With I/O Box) Email, Start Recording, Move to preset location, Set DO, GSM Short Message,
Playback Mode	Asynchronous & Synchronous		HTTP & Client notification
	Play, Rewind, Pause, Stop, Next/Previous	Alarm State for Management	New, Assigned, In Progress, Resolved, Closed, Later, Reject, Ignore
Playback Control	Video Start, Next/Previous Frame, 1/8X ~ 64X Speed Control, Bookmark	Alarm Result Export	.csv File
	Browsing, Date & Time (Fast), Event, Bookmark, Alarm, Log, Timeline, Timeline Scale	еМар	
Search Mode		Source	Import Picture
Video	MIDES ADESA IL 264 AVS IL 264 SVS	Device	Camera, External DI/O, Substation camera, Substation DI/DO* * Support for VIVOTEK's ND Series NVR
Video Format	MJPEG, MPEG4, H.264 AVC, H.264 SVC, H.265		Add, Remove, Direction Control, PTZ
Video Resolution	Up to 9 Megapixels	Marked	Control & Indicator LiveView
Video Enhancement	Basic Mode: Brightness, Contrast, Saturation, Hue Intelligent Mode: Defog, Rain, Snow, Fire/	Event Notification	Event Icon Light Flash, Show Live Streaming on E-map
	Smoke	PTZ	
Audio		PTZ/ePTZ Control	Panel Control & Mouse Click Control
Audio Format	G.711, G.726, AMR, AAC	PTZ/ePTZ Operation	Direction Control, Home, Zoom, Focus, Iris, Preset, Patrol (Group), Pan, Stop,
Audio Capability	Two-way Audio	. 12, ci 12 Operation	Speed

Technical Specifications

PTZ Operation Mode	Click to Move & Continuous Move	Basic Setting	User Name, Password & Camera Model Detection	
Export			Configuration Protocol: HTTP, HTTPS	
Print	Selection Windows & All Windows	Connection Setting	Streaming Protocol: TCP, UDP, HTTP, HTTPS	
Snapshot	BMP & JPEG			
Export File	AVI, 3GP & EXE	Video Setting	Video Stream, Compression, Resolution, FPS, Video Quality	
Backup		Audio Setting	Compression & Bitrate	
Schedule	NAS (SMB & CIFS)	Remote Focus	Manual Focus Adjustment & Full Range	
User Management			Scan	
Authentication	Basic Account/Windows AD Account	NTP Setting	IP Address (NTP Server or VAST Server) & Updating Interval	
User Level	Administrator, Power User, User, Operator & Guest	ONVIF Core Spec	Version 2.2 or above (by Project)	
User Control	Permission, Accessible Cameras & Substations	ONVIF Stream	Video (H.264, MPEG4 & MJPEG) & Audio (G.711, One Way)	
User Login Time Limitation	By Time & By Day	ONVIF Control	PTZ Control (Up, Down, Left, Right & Zoom In/Out)	
User Login Schedule	Weekly Setting	ONVIF Event	Motion Event, DI/DO, Video Lost/Restore	
System		ONVIF Discovery	Discover the other brand camera through Insert Camera & Batch Insert	
Date & Time	Sync PC		insert camera a batti insert	
Network	DDNS, SMTP, UPnP, Proxy, HTTPS	VCA Solution		
Multicast	Matrix Only	VCA for Surveillance	Motion Detection, Line Crossing	
Language	Czech, English, Finnish, French, German, Italian, Japanese, Persian, Polish, Portuguese, Russian, Spanish, Simplified	VCA for Business Intelligence	People Counting	
Device Integration	Chinese, Traditional Chinese	VCA Event	Line Crossing Detection, Loitering Detection, Field Detection	
		*Only Support VIVOTEK Cameras.		
Joystick	VIVOTEK USB Joystick All Windows® Compatible USB Joystick	Advanced Features		
Switch	VIVOTEK AW-GEV Series (VivoCam PoE Switch)		Panoramic PTZ Seamless Recording	
I/O Box	Advantech ADAM-6000 Series CHIYU CYT-133SC	VIVOTEK Exclusives	Standard VCA Integration (Line Crossing & Loitering & Field Detection) VCA Counting Solution	
Camera Integration			Support N x M Structure*	
Camera Insert	Manual & Search	Failover Redundancy	* Only Support VAST Server	
Video Source	VIVOTEK Cameras, ONVIF Cameras, RTSP URL	Virtual Machine Support	VMware, Parallel, Virtual Box, Hyper-V (by Project)	

