





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

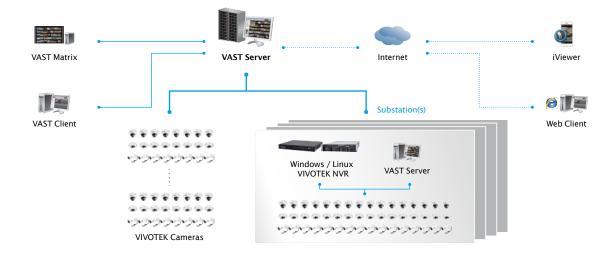
- · Failover Redundancy
- · Virtual Machine Supported
- · RTSP Streaming Recording

- · 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
CPU	4th Generation Intel® Core™ i3 Processors or above		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.

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	9СН
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.

^{**} Maximum number bitrate of cameras not to go over total recording throughput.

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

^{**} 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/	vast/#system)			
LiveView (Local Displa	ny)	Alarm Filter	Name, Time, Source, Event Type, State	
Max. Channel	128-Channel (with Dual Monitors) Multi Layout Display: 1x1, 2x2, 1+5, 3x3,	Alarm Setting	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 Display	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	
Fisheye Dewarp Mode	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 Memory Status	
Max. Channel	16 Channels	External Devices Event	DI/O (With I/O Box)	
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	Action	Email, Start Recording, Move to preset location, Set DO, GSM Short Message, HTTP & Client notification	
Playback Mode	Asynchronous & Synchronous	Alarm State for	New, Assigned, In Progress, Resolved,	
Playback Control	Play, Rewind, Pause, Stop, Next/Previous Video Start, Next/Previous Frame, 1/8X ~	Management	Closed, Later, Reject, Ignore	
	64X Speed Control, Bookmark	Alarm Result Export	.csv File	
	Browsing, Date & Time (Fast), Event, Bookmark, Alarm, Log, Timeline, Timeline	еМар		
Search Mode	Scale	Source	Import Picture	
Video	MJPEG, MPEG4, H.264 AVC, H.264 SVC,	Device	Camera, External DI/O, Substation camera, Substation DI/DO* * Support for VIVOTEK's ND Series NVR	
Video Format	H.265	Marked	Add, Remove, Direction Control, PTZ	
Video Resolution	Up to 9 Megapixels Basic Mode: Brightness, Contrast,		Control & Indicator LiveView Event Icon Light Flash, Show Live	
Video Enhancement	Saturation, Hue Intelligent Mode: Defog, Rain, Snow, Fire/	Event Notification PTZ	Streaming on E-map	
Audio	Smoke		Panel Control & Moure Click Control	
Audio	C 711 C 726 AMB AAC	PTZ/ePTZ Control	Panel Control & Mouse Click Control Direction Control, Home, Zoom, Focus,	
Audio Format	G.711, G.726, AMR, AAC	PTZ/ePTZ Operation		
Audio Capability	Two-way Audio		Speed	

Technical Specifications

PTZ Operation Mode	Click to Move & Continuous Move	
Export		
Print	Selection Windows & All Windows	
Snapshot	BMP & JPEG	
Export File	AVI, 3GP & EXE	
Backup		
Schedule	NAS (SMB & CIFS)	
User Management		
Authentication	Basic Account/Windows AD Account	
User Level	Administrator, Power User, User, Operator & Guest	
User Control	Permission, Accessible Cameras & Substations	
User Login Time Limitation	By Time & By Day	
User Login Schedule	Weekly Setting	
System		
Date & Time	Sync PC	
Network	DDNS, SMTP, UPnP, Proxy, HTTPS	
Multicast	Matrix Only	
Language	Czech, English, Finnish, French, German, Italian, Japanese, Persian, Polish, Portuguese, Russian, Spanish, Simplified Chinese, Traditional Chinese	
Device Integration		
Joystick	VIVOTEK USB Joystick All Windows® Compatible USB Joystick	
Switch	VIVOTEK AW-GEV Series (VivoCam PoE Switch)	
I/O Box	Advantech ADAM-6000 Series, CHIYU CYT- 133SC, Moxa I/O Box ioLogik E1210/E1211/ E1212	
Camera Integration		
Camera Insert	Manual & Search	
Video Source	VIVOTEK Cameras, ONVIF Cameras, RTSP URL	

Basic Setting	User Name, Password & Camera Model Detection
Connection Setting	Configuration Protocol: HTTP, HTTPS Streaming Protocol: TCP, UDP, HTTP, HTTPS
Video Setting	Video Stream, Compression, Resolution, FPS, Video Quality
Audio Setting	Compression & Bitrate
Remote Focus	Manual Focus Adjustment & Full Range Scan
NTP Setting	IP Address (NTP Server or VAST Server) & Updating Interval
ONVIF Core Spec	Version 2.2 or above (by Project)
ONVIF Stream	Video (H.264, MPEG4 & MJPEG) & Audio (G.711, One Way)
ONVIF Control	PTZ Control (Up, Down, Left, Right & Zoom In/Out)
ONVIF Event	Motion Event, DI/DO, Video Lost/Restore
ONVIF Discovery	Discover the other brand camera through Insert Camera & Batch Insert
VCA Solution	
VCA for Surveillance	Motion Detection, Line Crossing
VCA for Business Intelligence	People Counting
VCA Event	Line Crossing Detection, Loitering Detection, Field Detection
*Only Support VIVOTEK C	ameras.
Advanced Features	
VIVOTEK Exclusives	Panoramic PTZ Seamless Recording Standard VCA Integration (Line Crossing & Loitering & Field Detection) VCA Counting Solution
Failover Redundancy	Support N x M Structure* * Only Support VAST Server
Virtual Machine Support	VMware, Parallel, Virtual Box, Hyper-V (by Project)

