



VAST

Professional Video/
Central Management Software

H.265 Compression · Unlimited Number of Cameras Support ·
Video Wall · VCA Counting Solution

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, Field Detection and People Counting Reports. 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.

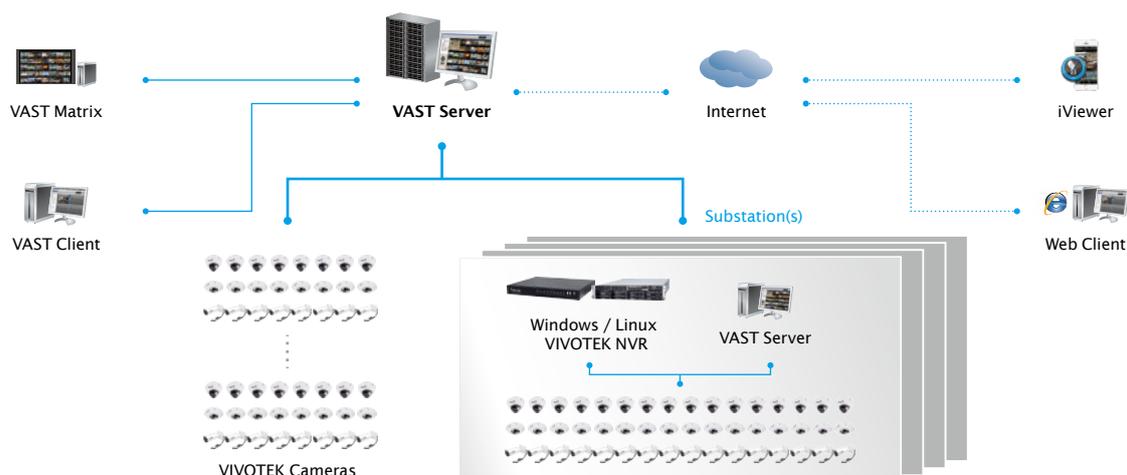
New Feature in Version 1.12

- Multiple Stream Recording
- VCA Counting Report
- HTTP Secure Support
- Multicast Support (Matrix Only)
- User Management Enhancement
- New I/O Box integration

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
- 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

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.

** 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
CPU	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.

Trial for 60 days

Technical Specifications

Version	1.12
General	
Max. Number of Cameras*	Unlimited
Max. Number of Servers*	Unlimited
Max. Number of Clients	Unlimited
Support OS	Windows 10, 8, 7, Vista, XP Windows Server 2012, 2008, 2003, 2000
Support Web Browser	Internet Explorer 11/10/9
Mobile Support	iViewer (iOS/Android)
Virtual Matrix Support*	VAST Matrix
Devices Pack	.vdp File Update
*Please refer to System Requirements Page (http://www.vivotek.com/vast/#system)	
LiveView (Local Display)	
Max. Channel	128-Channel (with Dual Monitors)
Layout	Multi Layout Display: 1x1, 2x2, 1+5, 3x3, 1+12, 4x4, 5x5, 1+31, 8x8, 1P+2, 1P+6, 1P+8, 2V, 3V, 4V, 2V+3 Single Layout Display, Full Screen Display, Sequential Display
Stream Application	Stream Selection & Auto Stream Size
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)
Fisheye Dewarp Mode	Fisheye Display Mode: Regular: 1O, 1P, 1R, 1O3R, 4R Wall Mount: 1P2R, 1P3R Ceiling/Floor Mount: 2P, 4R Pro, 1O8R
Playback	
Max. Channel	16 Channels
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
Playback Mode	Asynchronous & Synchronous
Playback Control	Play, Rewind, Pause, Stop, Next/Previous Video Start, Next/Previous Frame, 1/8X ~ 64X Speed Control, Bookmark
Search Mode	Browsing, Date & Time (Fast), Event, Bookmark, Alarm, Log, Timeline, Timeline Scale
Video	
Video Format	MJPEG, MPEG4, H.264 AVC, H.264 SVC, H.265
Video Resolution	Up to 9 Megapixels
Video Enhancement	Basic Mode: Brightness, Contrast, Saturation, Hue Intelligent Mode: Defog, Rain, Snow, Fire/Smoke
Audio	
Audio Format	G.711, G.726, AMR, AAC
Audio Capability	Two-way Audio

Audio Control	Mute, Broadcasting & Sound Play
Record	
Recording Time (sec.)	Pre-Record: 3-15, Post-Record: 10-60
Recording Stream Type	Unicast
Recording Stream	Single/Multiple
Recording Mode	Continuous, Schedule, Manual, Event, Activity Adaptive Streaming
Recording Setting	Recycle (Unit: Size or Day)
Recording File Format	3GP
External Storage Recording	NAS (SMB & CIFS)
Alarm Management	
Alarm Period (sec.)	Max. 30
Alarm Filter	Name, Time, Source, Event Type, State
Alarm Setting	LiveView Alarm Notification: Fixed & Popup Alert Sound
Schedule Type	Continuous, Schedule, Manual
Camera Event	Motion, DI/O, Video Lost/Restore, PIR, Tampering, Temperature, IR, PPTZ, Line Crossing Detection, Loitering Detection, Field Detection
Camera Status	Connection Status, Recording Status, Recording Error
Substation	Substation Connection Status
Storage Status	Storage Connection Status, Storage Capacity Status
Station Status	License Status, Network Status, Virtual Memory Status
External Devices Event	DI/O (With I/O Box)
Action	Email, Start Recording, Move to preset location, Set DO, GSM Short Message, HTTP & Client notification
Alarm State for Management	New, Assigned, In Progress, Resolved, Closed, Later, Reject, Ignore
Alarm Result Export	.csv File
eMap	
Source	Import Picture
Marked	Add, Remove, Direction Control, PTZ Control & Indicator LiveView
Event Notification	Event Icon Light Flash
PTZ	
PTZ/ePTZ Control	Panel Control & Mouse Click Control
PTZ/ePTZ Operation	Direction Control, Home, Zoom, Focus, Iris, Preset, Patrol (Group), Pan, Stop, Speed
PTZ Operation Mode	Click to Move & Continuous Move
Export	
Print	Selection Windows & All Windows
Snapshot	BMP & JPEG
Export File	AVI, 3GP & EXE

Technical Specifications

Backup			
Schedule	NAS (SMB & CIFS)	Connection Setting	Configuration Protocol: HTTP, HTTPS Streaming Protocol: TCP, UDP, HTTP, HTTPS
User Management		Video Setting	Video Stream, Compression, Resolution, FPS, Video Quality
Authentication	Basic Account/Windows AD Account	Audio Setting	Compression & Bitrate
User Level	Administrator, Power User, User, Operator & Guest	Remote Focus	Manual Focus Adjustment & Full Range Scan
User Control	Permission, Accessible Cameras & Substations	NTP Setting	IP Address (NTP Server or VAST Server) & Updating Interval
User Login Time Limitation	By Time & By Day	ONVIF Core Spec	Version 2.2 or above (By Project)
User Login Schedule	Weekly Setting	ONVIF Stream	Video (H.264, MPEG4 & MJPEG) & Audio (G.711, One Way)
System		ONVIF Control	PTZ Control (Up, Down, Left, Right & Zoom In/Out)
Date & Time	Sync PC	ONVIF Discovery	Discover the other brand camera through Insert Camera & Batch 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 Chinese, Traditional Chinese	VCA for Business Intelligence	People Counting
Device Integration		VCA Event	Line Crossing Detection, Loitering Detection, Field Detection
Joystick	VIVOTEK USB Joystick All Windows® Compatible USB Joystick	*Only Support VIVOTEK Cameras.	
Switch	VIVOTEK AW-GEV Series (VivoCam PoE Switch)	Advanced Features	
I/O Box	Advantech ADAM-6000 Series CHIYU CYT-133SC	VIVOTEK Exclusives	Panoramic PTZ Seamless Recording Standard VCA Integration (Line Crossing & Loitering & Field Detection) VCA Counting Solution
Camera Integration			
Camera Insert	Manual & Search		
Basic Setting	User Name, Password & Camera Model Detection		