VAST 2
Change the Way You Experience VMS

Plug & Play Auto Setup · Thumbnail & Smart Search · Problem Feedback Mechanism · Add-on Solutions

VIVOTEK's VAST 2 is an easy to use IP video management software (VMS). To meet users' real-world needs, it comes with exciting advancements such as easy operation on single or multiple monitors, custom layout to fit both in corridor and panorama format, rapid export of multi-channel video and acquiring VCA analytics with integrated cameras.

VAST 2 supports smart search and thumbnail search for advanced video search applications. Smart search provides users to easily set critical areas with a custom zone setting. Thumbnail search produces the snapshot preview to reduce the chance of selecting the wrong image. Both ways allow for smarter and quicker searches of specific events. To efficiently solve users' problems and system bugs, VAST 2 provides an automatic problem feedback mechanism to directly connect to VIVOTEK's FAE system. Any feedback will be handled instantly.

Utilizing automatic configuration wizards, VAST 2 can significantly reduce the time and cost of installing multiple camera surveillance systems. With more advanced setup features such as logical tree, camera configuration, archive management and recording schedule backup solutions, VAST 2 provides easy and intuitive UI with rich functionality to meet the needs of any customer. For efficient video management, VAST 2 also provides multi-layered, interactive 2.5D maps, and sophisticated alarm management. Furthermore, VAST 2's add-on solutions include failover protection, a transportation solution with GPS coordinates, transaction solutions with POS integration and integration solutions. All of these features combine to make VAST 2 the perfect VMS for use in retail, banking, transportation, and industrial applications.

Key Features

· Custom Layout to Fit Different Camera Types
· Plug and Play Auto Setup
· Automatic Problem Feedback Mechanism
· Switch All Applications on Tabs
· Easy to Support Multi-Monitor
· 2.5D Visualization eMap
· Smart Search
· Thumbnail Search
· Evidence Lock
· Multi-Video Export with Custom Layouts
· VCA Report
· Schedule Backup
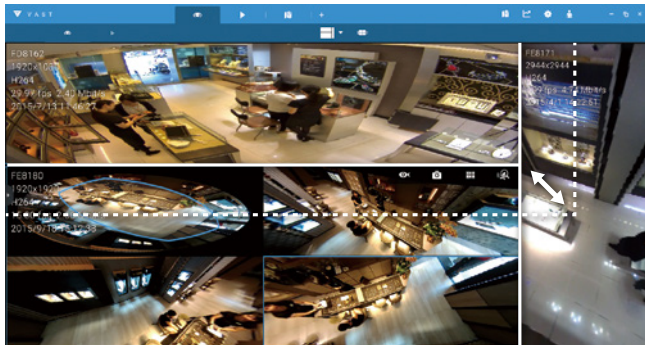· Add-on Solutions: Failover, Transportation, Transaction, Integration

Support List

· VIVOTEK Network Camera: 8000 & 9000 Series
· VIVOTEK NVR: ND Series (ND8321 excluded)
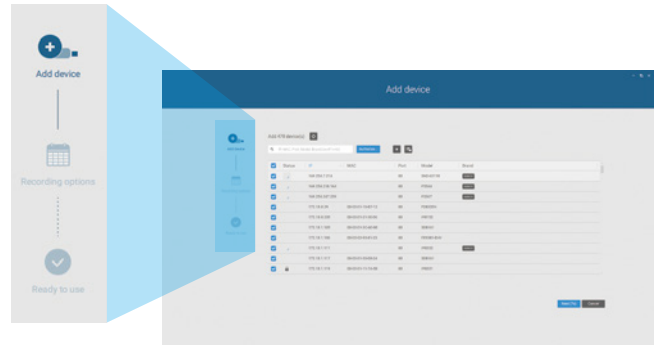· VIVOTEK Software: VAST 2

Highlight Features

Intuitive UI Design

Direct intuitive custom layout adjustment and fisheye ROI control for better security management experience.

Auto Setup

Easy configuration through a fully automated process. Saves user's time and cost to install surveillance devices.
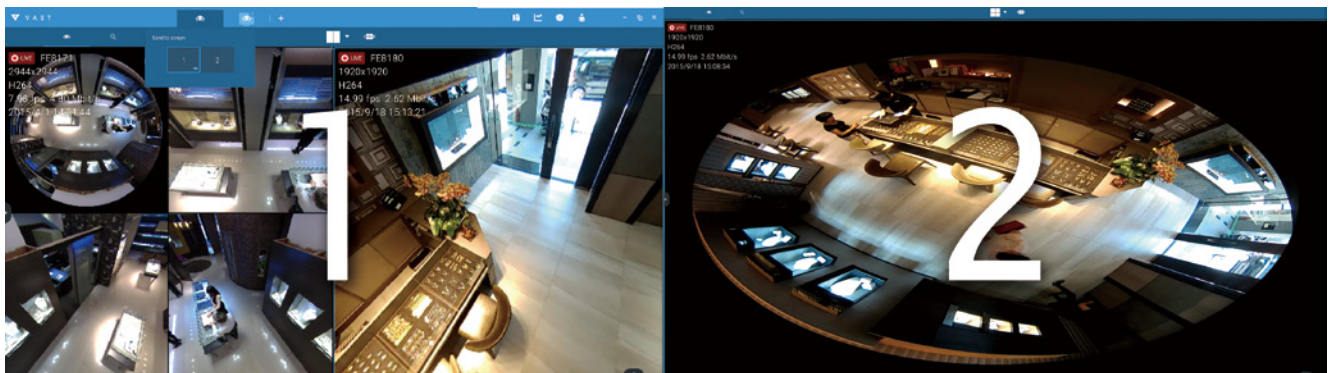

Problem Feedback Mechanism

Quick detect system problem and feedback to VIVOTEK's FAE system via automatic popup or manual operation.

Manual

Automatic
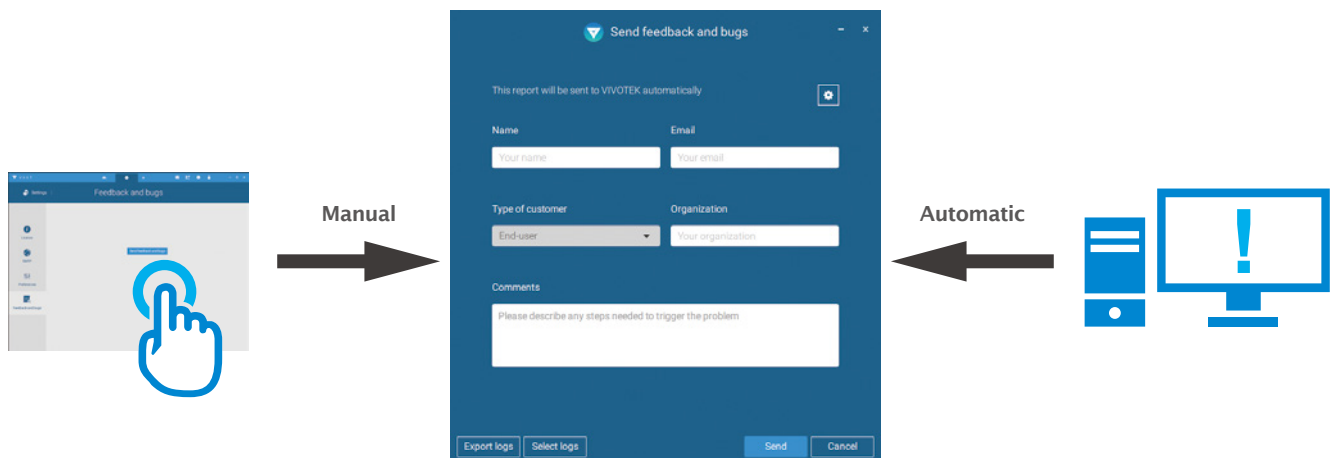
Multi-Monitor & Tabs

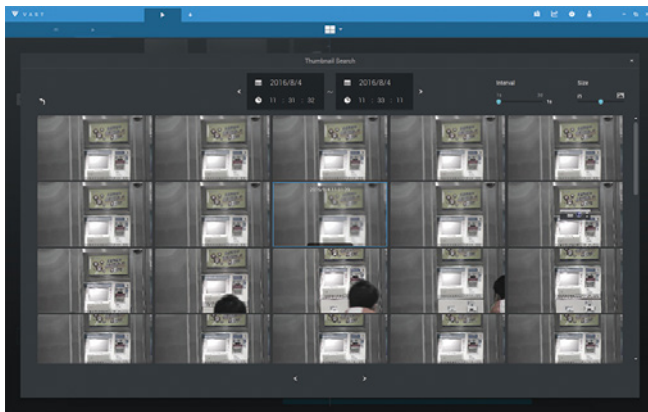Manage unlimited tasks with multiple screens for intuitive and easy surveillance.

Screen 1

Screen 2

Highlight Features

Advanced Search

Efficiently search suspicious video and specific events with thumbnail view and smart search.
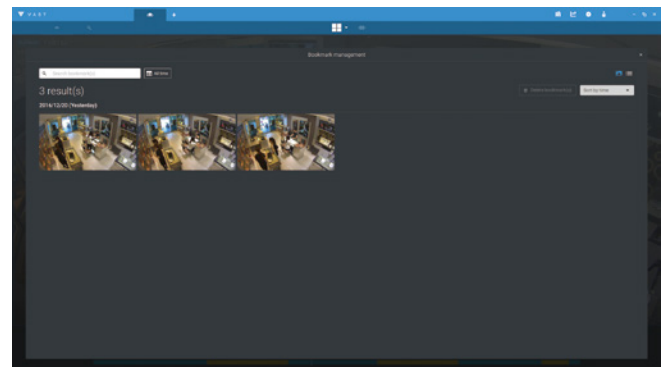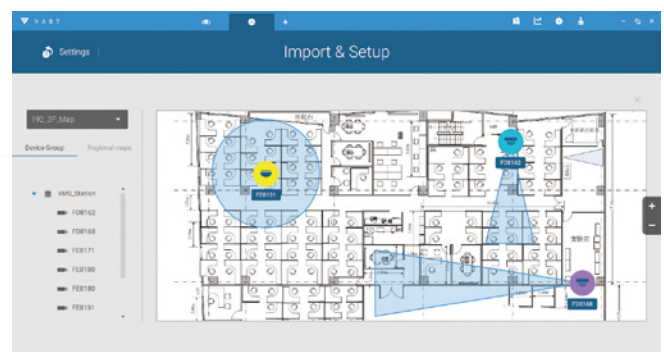

Thumbnail Search
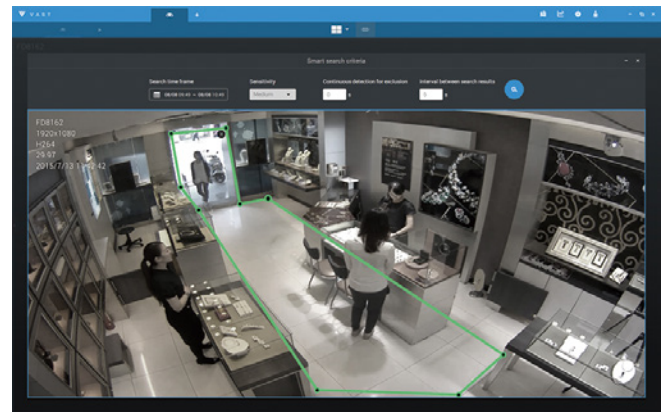
Smart Search

Evidence Lock

Manually extend the retention time for video recordings and manage a high number of investigation scenarios.

2.5D Visualization eMap

Multiple layers and camera's FOV views allow users instantly to pinpoint a selected camera located on the map.

Highlight Features

Export Evidence

Easily export multiple video recordings with custom layouts in a specific time period or instant snapshot with a fast click.
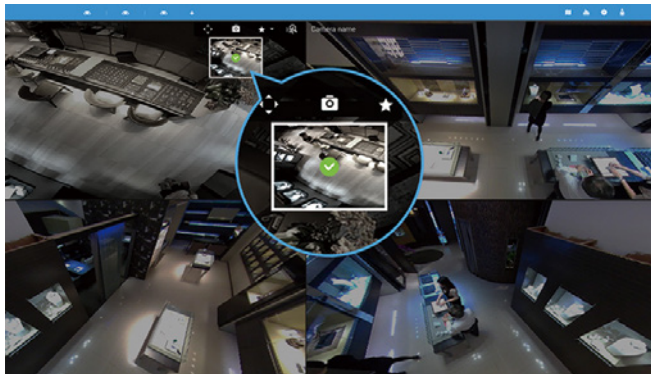
Snapshot
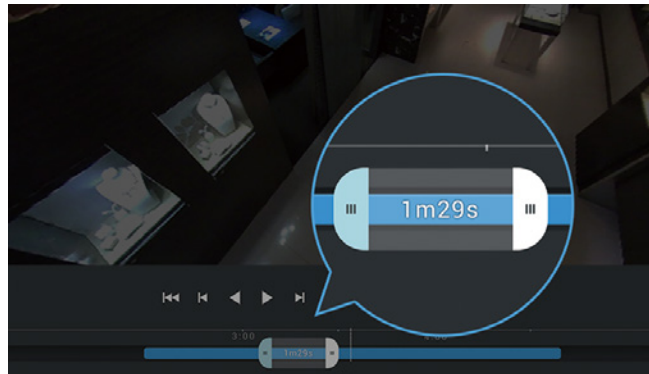
Video

Schedule Backup

Automatically backs up the recording video clip to another network storage device.

Recordings   Via Schedule   Server/Folder
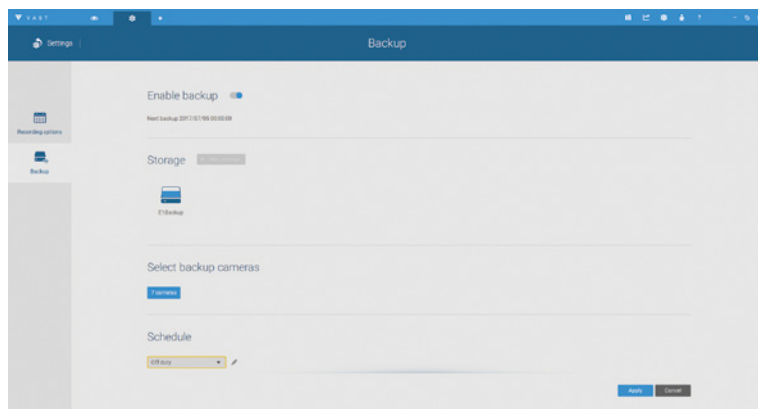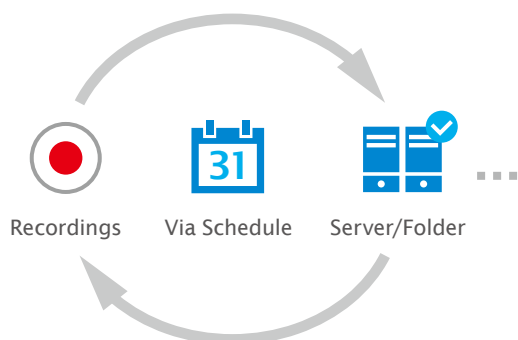
VCA Report

Integrate VIVOTEK's intelligence cameras to provide visual reports including video feedback, tables and charts.
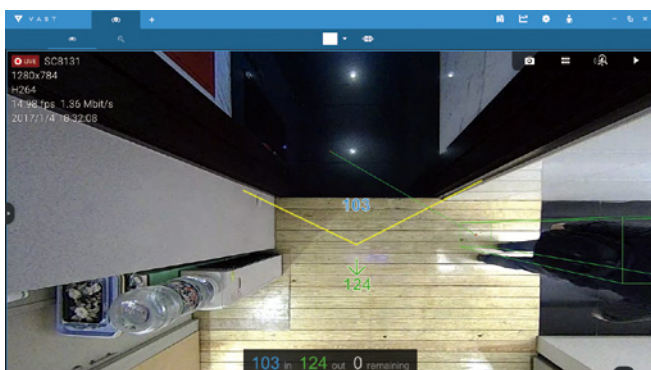
Counting LiveView
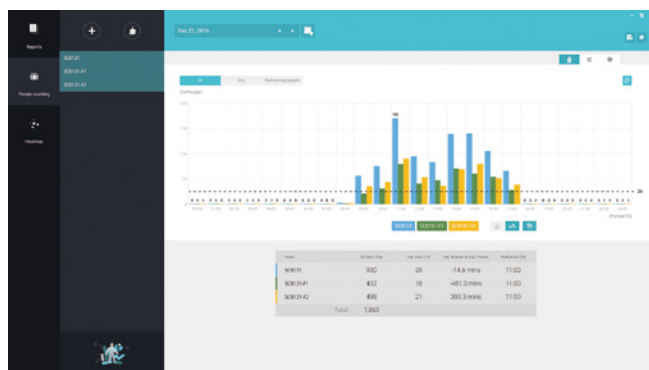
Counting Report

Add-on Solutions

Failover Solution

Reliable backup system designed to transfer recording tasks from N sites to M sites upon the rare occurrence of disk or other malfunction.

Transportation Solution

VAST 2 can trace vehicles through information provided from GPS receivers, track vehicles' real-time location, and playback videos with recorded visited paths.
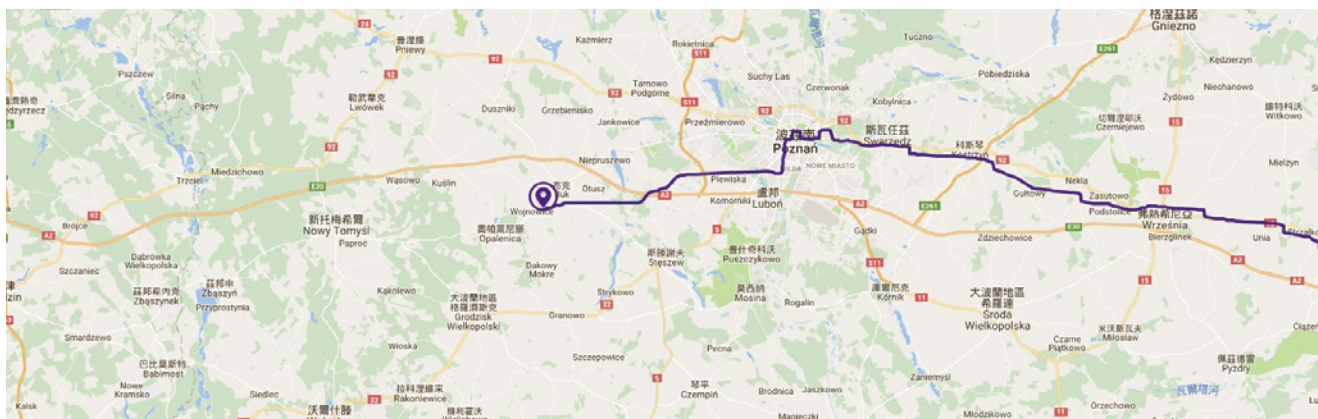
Transaction Solution

Retains all transaction details including not only POS data but also associated video footage to create deeper POS knowledge. Enter search conditions to filter transactions more easily.

Name	Unit	Subtotal
Tomato	1	8
Banana	1	12
Drink	2	24
Cookies	4	28

Total: 72

Technical Specifications

Version	2.0

General

Auto Wizard	Plug & Play Auto Setup
Max. Number of Cameras*	Unlimited
Max. Number of Servers*	Unlimited
Max. Number of Clients	Unlimited
Support OS	Windows 10, 8, 7
Mobile Support	iViewer (iOS/Android)
Tabs Support*	Supported
Devices Pack	Ver. 5.9.122

LiveView (Local Display)

Max. Channels*	64-channel per Monitor (Supports up to 8 Monitors)
Layout	Equal: 1x1, 2x2, 3x3, 4x4, 5x5, 6x6, 7x7, 8x8 Panorama: 1P+6, 2P, 2P+3, 3P Focus: 1+12, 1+16, 1+3, 1+5, 1+7, 1+9, 2+8 Vertical: 1V+6, 2V+2, 2V+3, 3V, 3V+4, 4V, 4V+4, 5V Single Layout Display
Custom Layout	Supported
Layout Configuration Saving	Supported
Layout Rotation	Supported
Stream Application	Stream Selection & Auto Stream Size
View Application	Drag & Drop Remote I/O Control PiP (Digital Zoom) Instant Playback Video Display Mode (Aspect Ratio & Camera information) Metadata Display (VCA, POS)
Fisheye Dewarp Mode	1O, 1P, 1R, 1O3R, 4R, 2P, 4R Pro, 1O8R

Playback

Max. Channels*	64-channel per monitor (Supported monitor depends on PC decoding efficacy)
Layout	Equal: 1x1, 2x2, 3x3, 4x4, 5x5, 6x6, 7x7, 8x8 Panorama: 1P+6, 2P, 2P+3, 3P Focus: 1+12, 1+16, 1+3, 1+5, 1+7, 1+9, 2+8 Vertical: 1V+6, 2V+2, 2V+3, 3V, 3V+4, 4V, 4V+4, 5V Single Layout Display
Custom Layout	Supported
Playback Mode	Asynchronous & Synchronous
Playback Control	Play, Rewind, Pause, Stop, Next/Previous Frame, 1/64X ~ 64X Speed Control, Bookmark
Playback Timeline	Scale Adjustment Event Timeline Interval Display

Search Mode	Calendar, Alarm, Bookmark, Thumbnail, Smart & Transaction (POS)
Evidence Lock	Supported

Video

Video Format	MJPEG, MPEG4, H.264 AVC, H.264 SVC, H.265
Video Resolution	Up to 9 Megapixels

Audio

Audio Format	G.711, G.726, AMR, AAC
Audio Capability	Two-way Audio
Audio Control	Mute

Record

Recording Time (sec.)	Pre-Record: 3-15, Post-Record: 10-60
Recording Stream Type	Unicast
Recording Stream	Single
Recording Mode	Continuous, Event, Customized Schedule, Activity Adaptive Streaming
Recording Setting	Recycle (Depends on Storage Size)
Recording File Format	3GP
External Storage Recording	NAS (SMB & CIFS)

Alarm Management

Alarm Period (sec.)	Max. 30
Alarm Filter	Name, Time, Trigger Type (Camera/Substation/System)
Alarm Setting	Realtime System Notification
Schedule Type	Continuous, Schedule
Camera Source	Camera Disconnected, Camera DI, Camera DO, Field Detection (VCA), IR (Infrared), Line crossing (VCA), Loitering (VCA), Motion detection, PIR (Passive infrared), Recording error, Stop recording, Tampering detection, Temperature, Video loss (Video server only)
Substation Source	Network disconnected, Storage failure, Storage full
External Devices Event	DI/O (With I/O Box)
Action	Start to record videos, Set DO status, Go to camera presets, Send HTTP requests, Send live streaming, Send email

eMap

Source	Import Picture & Folder
Adjustment	Vertical Angle Adjustment
Marked	Add, Remove, Direction Control, PTZ Control, FOV Control, LiveView & Playback
Event Notification	Supported

Technical Specifications

PTZ

PTZ Control	Mouse Draw & Drag Control
PTZ Operation	Direction Control, Home, Zoom, Focus, Preset, Patrol (Group), Tracking, Pan, Stop, Speed
PTZ Operation Mode	Continuous Move

Export

Snapshot	PNG & JPEG
Export File	3GP & EXE

Player

Layout	Single & Mutuple Layout Display
Custom Layout	According to playback export layout configuration
Playback Mode	Asynchronous & Synchronous
Playback Control	Play, Rewind, Pause, Stop, Next/Previous Frame, 1/64X ~ 64X Speed Control
Playback Timeline	Scale Adjustment Event Timeline Interval Display
Snapshot	PNG & JPEG
Export Video	3GP

Backup

Schedule	NAS (SMB & CIFS)

User Management

Authentication	Basic Account/Windows AD Account
User Level	Administrator, Customized User
User Control	Client Permission (LiveView, Playback, Setting) & Camera Permission

System

Date & Time	Sync PC
Network	SMTP & HTTPS
Language	Czech, English, French, German, Italian, Japanese, Persian, Portuguese, Russian, Spanish, Simplified Chinese, Traditional Chinese
Diagnostic Service	Supported

Device Integration

VIVOTEK Network Camera	8000 & 9000 Series
VIVOTEK NVR	ND Series (ND8321 excluded)
VIVOTEK Software	VAST 2
I/O Box	Advantech ADAM-6000 Series CHIYU CYT-133SC

POS (Add-ons)	POSNET Lafresh Allsense (Implement in NVR, Searchable in VAST 2)

Camera Integration

Camera Insert	Manual & Search
Basic Setting	User Name, Password & Camera Model Detection
Connection Setting	Configuration Protocol: HTTP (Default) Streaming Protocol: TCP (Default)
Video Setting	Video Stream, Codec, Resolution, Maximum frame rate, I-frame period, video quality, FPS, Maximum bit rate
Image Setting	Time stamp, Video title, Video orientation, Mount type (fisheye only), Color, Power line-frequency
Motion Detection Setting	VIVOTEK Network Cameras: 9000 Series
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 Discovery	Supported

VCA Solution

VCA for Surveillance	Line Crossing Detection, Loitering Detection, Field Detection
VCA for Business Intelligence	People Counting

Advanced Features

VIVOTEK Exclusives	Seamless Recording Standard VCA Integration (Line Crossing & Loitering & Field Detection) VCA Counting

Add-ons**

Failover Solution	N x M System Structure
Transportation Solution	Google Map and User-Defined Maps Support Vehicle GPS Tracking
Transaction Solution	POS Terminal Integration (Series Port or Network) Transaction Data Live Printing Transaction Corresponding Video Search
Integration Solution	TCP Trigger Receiver

** Advanced license is required. (Additional charge might apply.)

System Requirements

VAST 2 Server

Server (Recording Channels)	Up to 64-CH	Up to 128-CH	Up to 256-CH
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: Max. 200 Mbps**		
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 2 LiveView & Playback

Client (Display Channels)	H.264, 720P, 2Mbps for Each Channel*	8-CH	16-CH	32-CH
	H.264, 1080P, 4Mbps for Each Channel**	6-CH	10-CH	18-CH
	H.265, 1080P, 4Mbps for Each Channel	3-CH	5-CH	9-CH
CPU		4th Generation Intel® Core™ i3 Processors	4th Generation Intel® Core™ i5 Processors	4th Generation Intel® Core™ i7 Processors
RAM		4 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.
*** Please update to the latest version of GPU driver.
If installing Server & Client in the same PC, overall loading of the PC will be evaluated.

Trial for 60 days