VIVOTEK
A Delta Group Company

VAST 2 BROCHURE

Video Management Software

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Case Study – Parking Lot Access Control

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Success Stories

VAST 2

Video Management Software

VAST 2 is an easy to use IP video management software (VMS) that provides easy operation on a single or multiple monitors. It can rapidly export multichannel video clips and acquire VCA analytics from enabled cameras. With a wide range of add-on solutions, VAST 2 is the perfect VMS for use in markets such as SMB, retail, transportation, manufacturing and more.
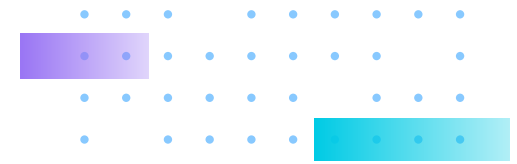
VAST 2 Benefits

Smart Investigation

Tons of surveillance footage is stored every day. With Smart Search II, Evidence Lock & Event Search built into VAST 2, search & retention of video content is no longer a painstaking task
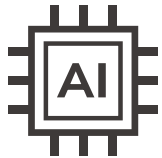
AI Analytics

Thanks to the integration of deep learning AI edge devices, multiple alarm event rules can be configured by customers to automatically trigger self-defined actions
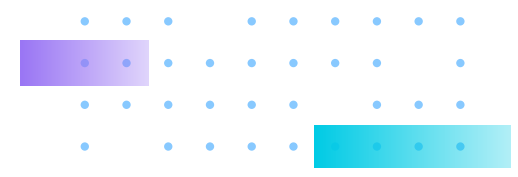
Secure & Reliable

Included cybersecurity management detects cyberattacks to protect data integrity. Designed with Failover to take over the recording task in case of CMS/substation failure
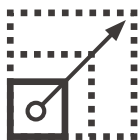
Cost –Effective & Scalable

VAST 2 embedded NVR/CMS station, together with a wide range of fine-tuned cameras, offers customers optimal configurations and scalability, reducing time and effort needed for setup and configuration

VAST 2 – Limitless Evolution

Continuously growing and adding new features to meet diversified environments. Customers of all types can always find the most suitable features from the comprehensive & expanding VAST 2 system

Integration with 3rd Parties

High Compatibility

VAST 2 Built-in NVR/Station

Substation Failover

CMS Failover

Cybersecurity Management

Smart Search II

Evidence Lock & Export

VCA Event Search

Smart VCA

License Plate Recognition

Face Recognition

Parking Violation Detection

Cost –Effective & Scalable

Smart Investigation

Secure & Reliable

AI Analytics
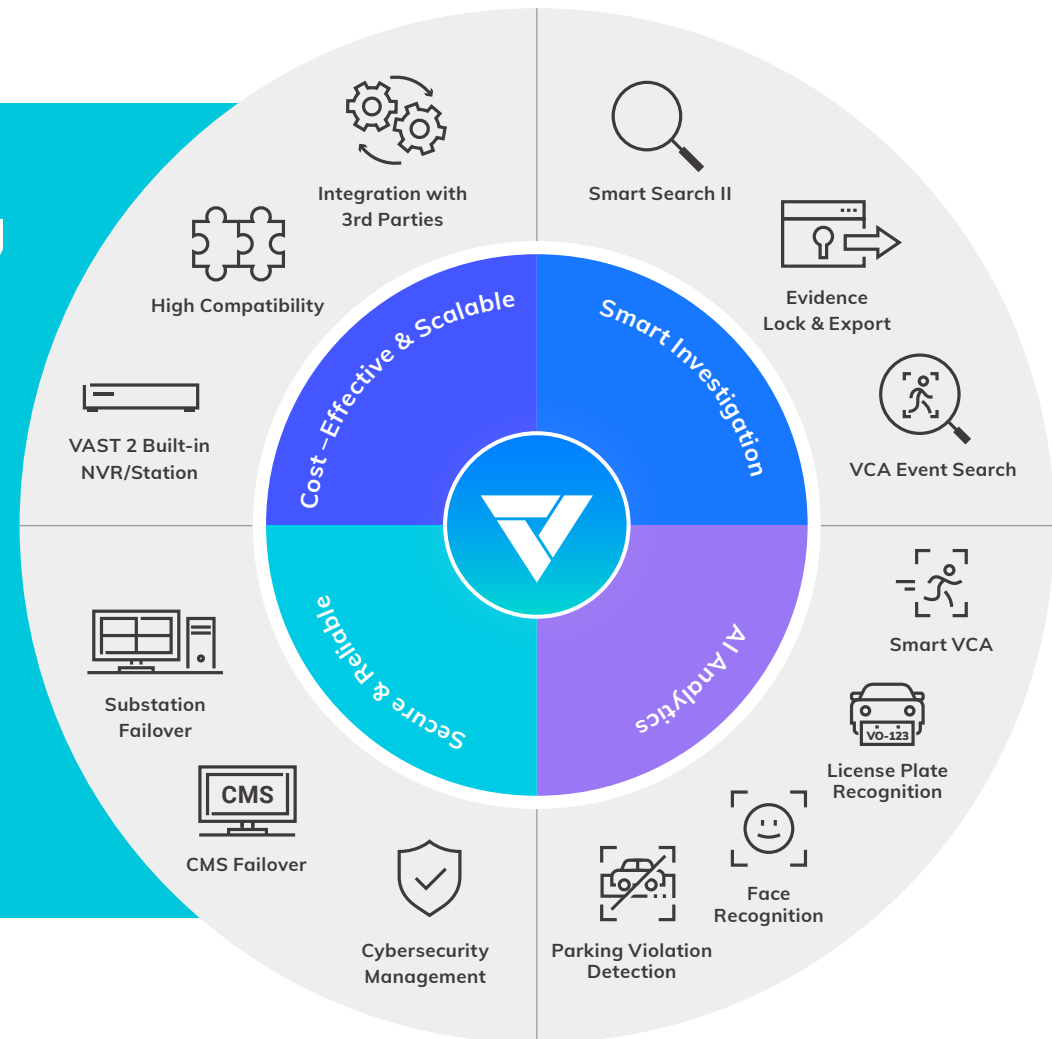
Flexible Architecture for Versatility

Change the Way You Experience VMS

1. Small-Scale

VAST 2 Client
viewing, exporting, playback

iViewer
mobile App

monitoring and video
recording

2. Medium-Scale

VAST 2 CMS Server
manage substations in a
hierarchical structure

VIVOTEK Linux
based NVR

3. Large-Scale*

CMS

CMS

CMS Failover

CMS VAST

VAST 2
Substation Failover

Windows
VIVOTEK Windows
Based NVR

VAST 2
Substation

VAST 2
Substation
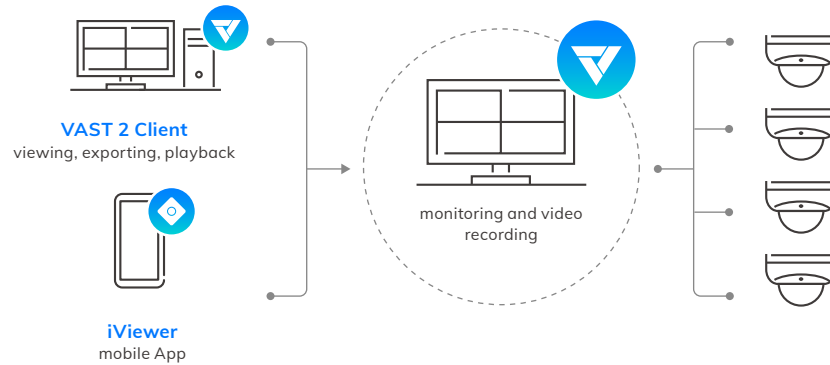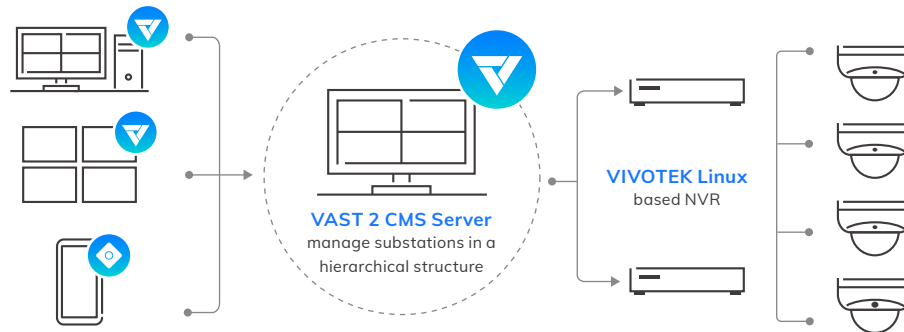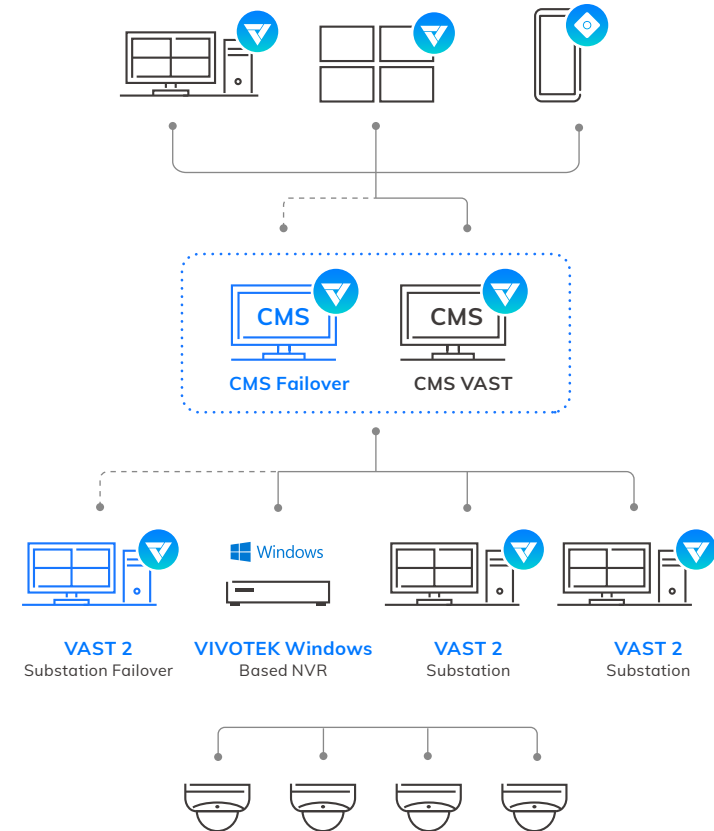
*** As operations expand, end-users can effortlessly upgrade the configuration
from small to medium or large scale**

Smart Investigation

Search and retention of video recordings has always been one of the most time-consuming tasks in video surveillance. Through self-defined search criteria, video clips can be automatically tagged, making search and retention highly efficient
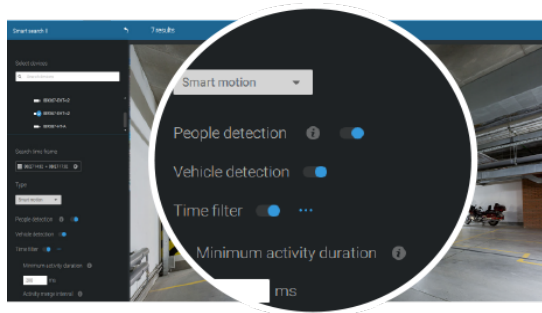
Smart Search II

Users can quickly sort through large amounts of footage to find people/vehicle related motion in video recordings. People and vehicles appearing in the user-defined area can serve as search criteria, providing greater efficiency
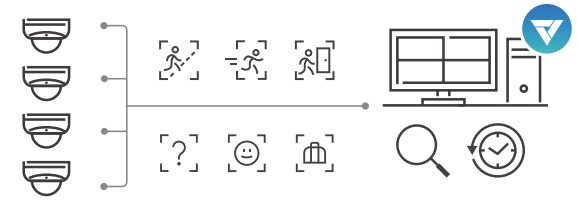
Evidence Lock & Export

Automatically bookmark relevant recordings when alarms are triggered, or manually extend the retention time for video recordings. Easy export of multiple video recordings with custom layouts in a specific time period
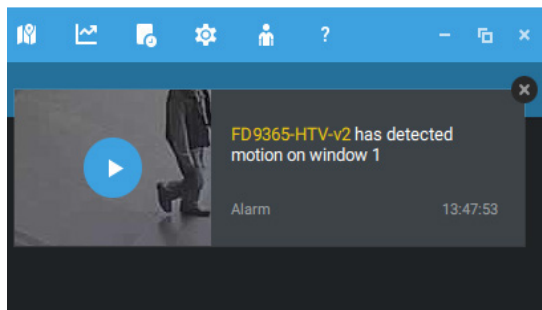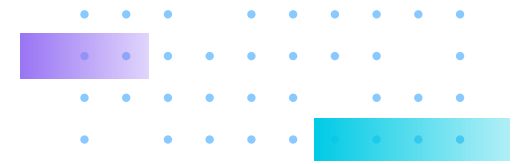
VCA Event Search

When a preset VCA rule is triggered (e.g. line crossing or intrusion detection), the alarm will pop up in live view and E-map in real-time. Furthermore, the footage will be automatically tagged to reduce forensic search times

AI Analytics

Network cameras can do more than simply capture video. Thanks to the advanced deep learning & AI algorithm, VAST 2 can set up multiple event rules and link them to edge devices, so that actions can be automatically triggered
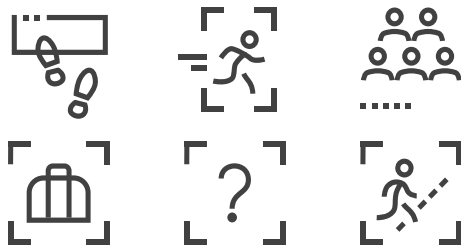
Smart VCA

Integrate Video Content Analytics from cameras, enabling VAST 2 to detect intrusion, loitering, line crossing, missing and unattended objects, or faces in a crowd
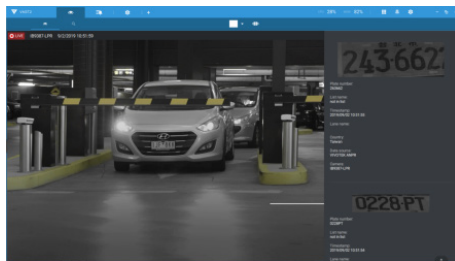
License Plate Recognition

VAST 2 links license plate information with live streaming and recordings via integration with VIVOTEK's LPR cameras. Users can search and analyze historical data, display the number of recognized license plates, export search results, and display live streaming video data from alarm triggered cameras
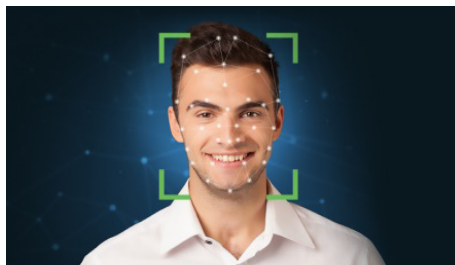
Facial Recognition

VAST Face Facial Recognition solutions are fully integrated with VAST 2, allowing users to apply it to a variety of applications including identity verification, live alerts/notifications, access control, and person of interest management
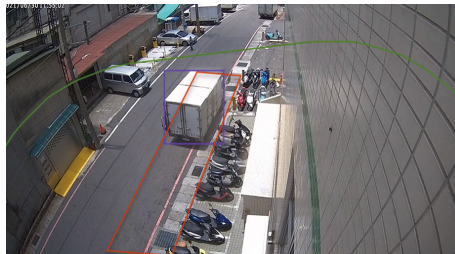
Parking Violation Detection

Illegal parking is a major cause of traffic congestion. Parking violation detection can detect illegally parked vehicles in real-time and notify the command center to take action

Secure & Reliable

Similar to equipment in any other field, surveillance devices are not immune to the threat of hackers. VAST 2 includes password encryption and cybersecurity management, greatly safeguarding video recordings to a higher level.

CMS/substation failover provides immediate takeover if the active server goes offline, maintaining routine operations works as usual
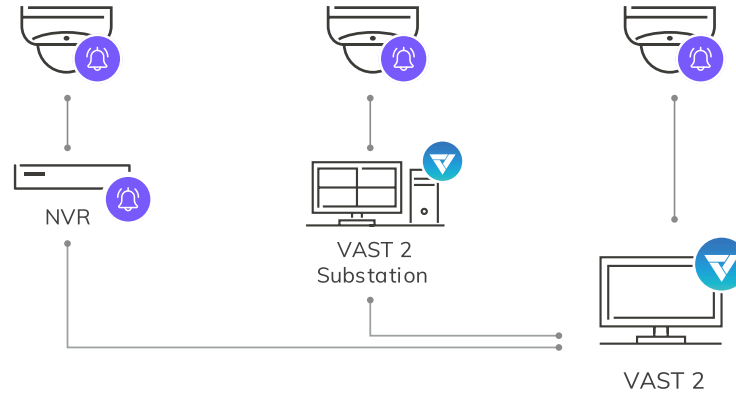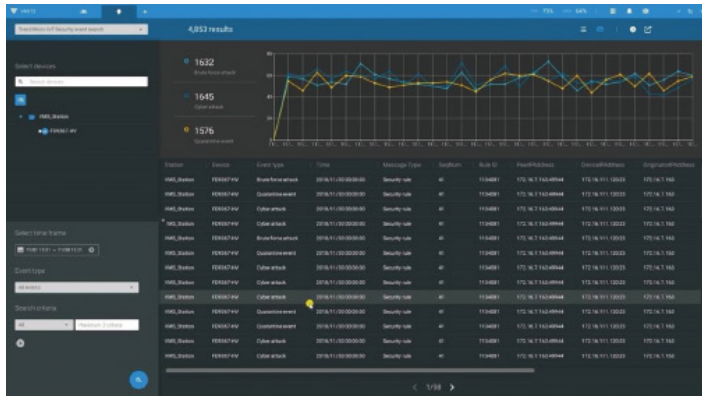
Cybersecurity Management

Oversee cybersecurity attack events from VIVOTEK cameras and NVR's with VAST 2 alarm management. In addition to alarm actions and notifications, VAST 2 can centrally manage and recognize attack trends, as well as acquire attack information .
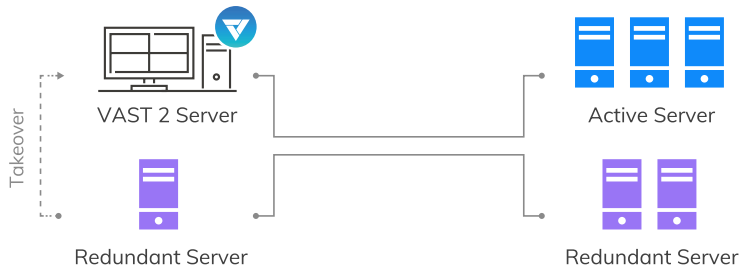
CMS Failover

Provide 1+1 Redundancy for Central Management System. In case of CMS service failure, recording and management tasks will be transferred from CMS to a CMS redundant server.
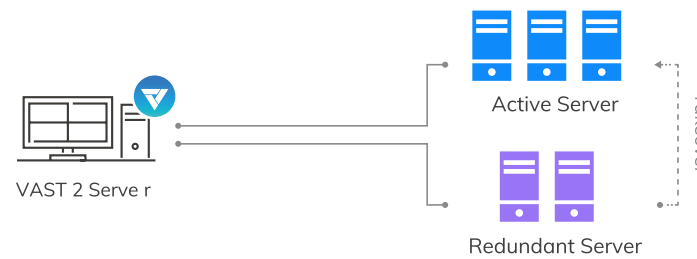
Substation Failover

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

Cost–Effective & Scalable

One-stop shop for VIVOTEK hardware and software, seamlessly working with existing and new devices, make VAST 2 highly cost-effective for all types of customers. Furthermore, expanding AI analytics continuously enhance the accuracy and meticulousness for more & more security scenarios

VAST 2 Built-in NVR/Station

VAST 2 built-in NVR/Station is designed to save time and effort. With an intuitive user interface, flexible storage support, and embedded VAST 2 video management system, it's convenient for users to start their operations without delay. Plus, multiple tests and verifications in-house make VAST 2 built-in NVR/Station compatible with other devices in the entire ecosystem.

High Compatibility

From VIVOTEK to ONVIF cameras, most cameras can operate with VAST 2.

Easy Integration with 3rd Parties

VAST 2 syncs up with multiple devices via data magnet and TCP message. It can receive data and commands from 3rd party devices as well as send HTTP requests to 3rd party devices to trigger actions. This ease of integration continuously expands VAST 2 applications for more added value.

VAST 2
Built-in NVR/Station

With the advantages of quick setup, easy deployment and simple troubleshooting, VAST 2's built-in NVR/Station offers a cost-effective turnkey solution to customers. Smart VCA and multiple solutions support makes VIVOTEK's VAST 2 built-in NVR more than just a video recorder
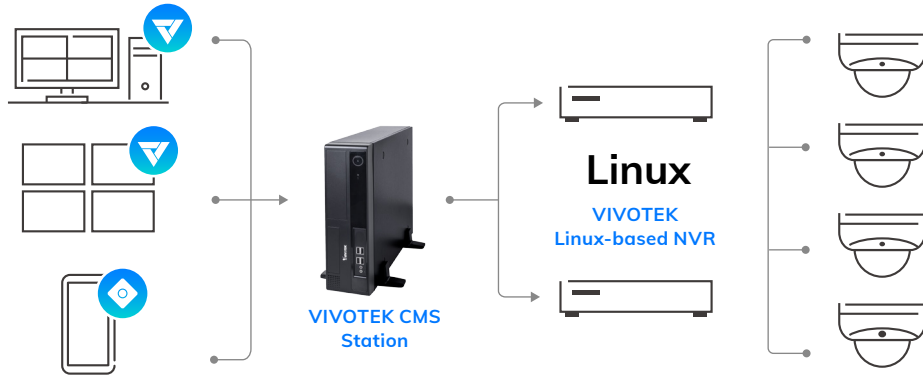
Small/Medium Scale

In simple small cases, users can directly utilize one single CMS station to connect with cameras. In more complex small/medium-scale deployments, VAST 2's built-in CMS station acts as the CMS server to manage substations. With verification and certification by VIVOTEK, it fully aligns with all VIVOTEK family products for a fully integrated seamless solution

VIVOTEK CMS Station

Linux

VIVOTEK Linux-based NVR
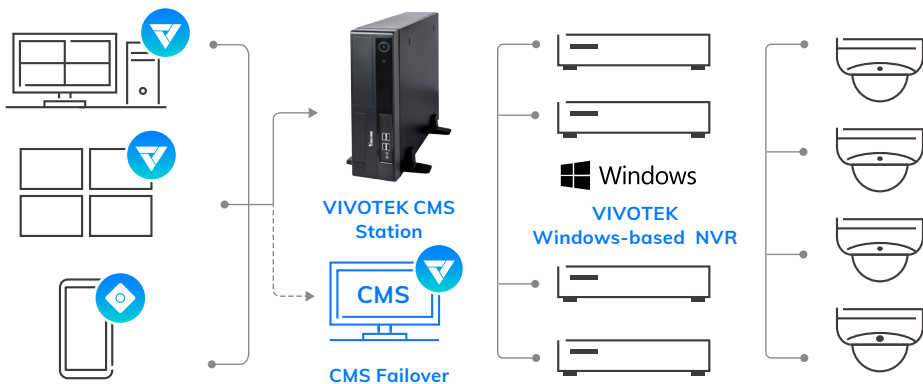
Large Scale

In large-scale deployments, Windows-based NVR's embedded with VAST 2 can act as either the substation or the substation failover. Highly flexible with great reliability provides users with a full turnkey solution

VIVOTEK CMS Station

CMS

CMS Failover

Windows

VIVOTEK Windows-based NVR

High Compatibility

Users have varied needs and expectations for their security requirements. VIVOTEK VAST 2, fully integrated with all VIVOTEK product lines, is a cost-effective solution for all surveillance and monitoring applications. Integration of other 3rd party cameras is also supported via ONVIF

Comprehensive VIVOTEK Product Lineup

VAST 2 is fully integrated with all VIVOTEK products. From high image quality, multiple angles, and noise reduction to searching for a person of interest and AI analytics, VIVOTEK's comprehensive product portfolio comes to full life with VAST 2

Multiple Fisheye Dewarp Modes

VAST 2 provides multiple fisheye de-warp display modes for VIVOTEK Fisheye cameras, including 1O, 1P, 1R, 1O3R, 4R, 2P, 4R Pro, and 1O8R. By using different dewarp modes, users can monitor different angles as well as get immersive 360° e-PTZ effects

ONVIF Support

VAST 2 supports ONVIF certified cameras. Recording video, audio & streaming with ONVIF cameras is guaranteed

Easy Integration with 3rd Party Devices

Both Data Magnet or TCP protocol are utilized to integrate 3rd party devices. From pop-up alarm messages to video content analytics, data transmission is fully integrated with VAST 2.
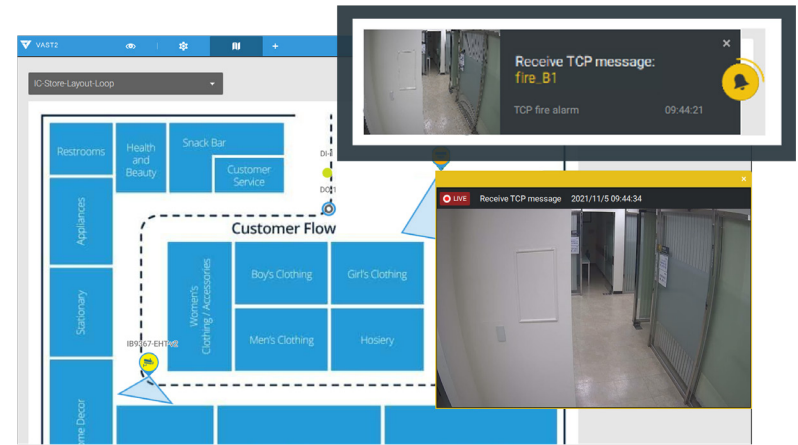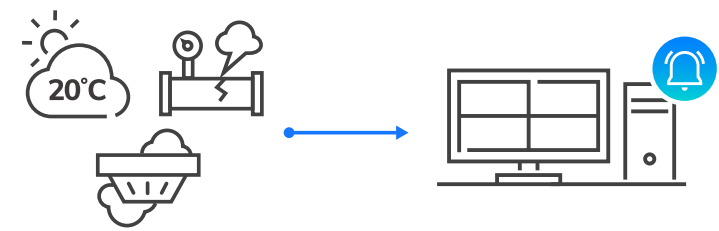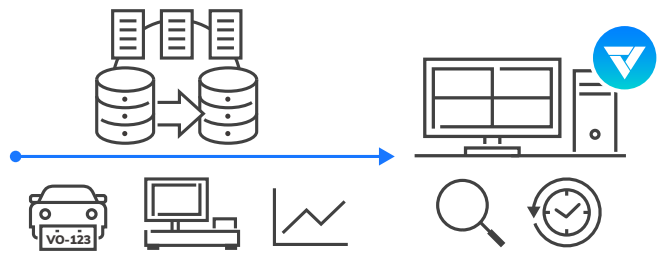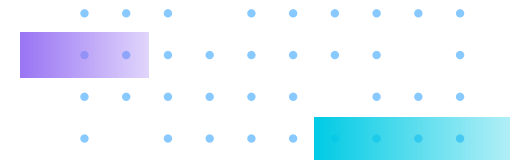
Data Magnet Integration

Data Magnets enable cameras or third-party devices (e.g., access control/POS/Analytics) to integrate into VAST 2, supporting data display on live streaming and recording, as well as rapid search of multiple metadata/video. For human/vehicle identification, Data Magnets transmit the captured snapshot to VAST 2 and triggers immediate actions (e.g., Go/No Go). It also bookmarks the recordings for post search

TCP Message

Relay TCP messages from third-party security devices such as smoke detectors or temperature sensors to notify VAST 2 users and/or trigger alarm actions. In the case of fire alarms, once the smoke detector sensors fire and transmits a TCP message to VAST 2, cameras nearby would automatically pop up on the monitor or on the e-map to call for further actions

Case Study – Parking Lot Access Control

1 **LPR Camera + Access Control**

A camera with built-in license plate recognition technology detects the vehicle's license plate and manages the authorization of in/out with the gate barrier while sending video recording and identified result back to VAST 2

2 **Parking Violation Detection**

Cameras with parking violation analytics detects if vehicles are illegally parked, and send out real-time alarms to the VAST 2 system

4 **VAST 2 System**

VAST 2 receives real-time alerts, allowing operators to take immediate actions through either pre-defined rules/announcements on VAST 2 or in person

3 **Network Audio**

A horn speaker integrated with VAST 2 broadcasts pre-recorded audio warnings to drivers who violate parking rules, suspicious persons loitering in the parking lot, or persons attempting a break-in

Case Study – Retail Surveillance

1 People Counting & Business Intelligence

People counting analytics integrated with VAST 2 generate accurate in-store traffic reports, providing valuable data to enhance operational efficiency

2 POS Terminal Integration

Integration of cameras monitoring POS terminals can associate transaction data with video footage, creating live printing transaction data on the screen and facilitating corresponding video search on VAST 2

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

Total: 72

5 VAST 2 System

VAST 2 receives real-time alerts, allowing operators to take immediate actions through either pre-defined rules/announcements on VAST 2 or in person

4 Intrusion Detection

Cameras with intrusion analytics detects a suspicious person intent on breaking into a closed store, sends out real-time alarms to the VAST 2 system, and triggers an audio alert notification
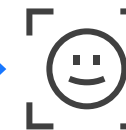
3 Facial Recognition + List Management

Facial recognition cameras can verify staff identification and manage access authorization into the office and warehouse. Conversely, facial recognition can also be used to detect and welcome the arrival of VIP customers

Case Study – Manufacturing & Industrial Security

1 **Restricted Zone Detection**

A camera with restricted zone analytics detects a person of interest entering a prohibited area and sends out real-time alarms to the VAST 2 system

2 **Network Audio**

A horn speaker integrated with VAST 2 broadcasts a pre-recorded or live warning to a suspicious person who triggered an alarm

3 **LPR Camera + Access Control**

A camera with built-in license plate recognition technology detects the vehicle's license plate and manages the authorization of in/out with the gate barrier while sending video recording and identified result back to VAST 2
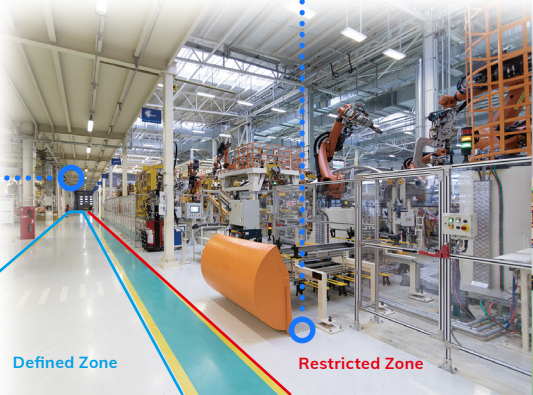
Defined Zone   Restricted Zone

6 **VAST 2 System**

VAST 2 receives real-time alerts, allowing operators to take immediate actions through either pre-defined rules/announcements on VAST 2 or in person

5 **Data Magnet/TCP Message**

Through Data Magnets, facial data for access control is imported into the VAST 2 system. Security operators can search through footage or attendance reports for a person of interest. Through TCP message, VAST 2 can receive alarms from IoT devices to take necessary actions
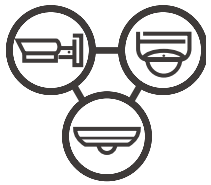
4 **Facial Recognition + Access Control**

The list management function makes access authorization by different groups possible. It is especially useful when applied to restricted areas like data centers or laboratories

Case Study – Campus Safety

1 **Camera Surveillance**

Selective cameras of all types monitor every corner of the campus in real-time and send notifications back to VAST 2 if alarms are triggered

2 **Facial Recognition + Access Control**

Students and teachers are categorized into different groups with varied access authorities. Through facial recognition, access authority to specific buildings/labs/classrooms is achievable and forensic search of a suspicious person's route is also possible on VAST 2

5 **VAST 2 System**

VAST 2 synthesizes video streams and facial data, receives and delivers corresponding notifications and actions when pre-defined conditions are met

4 **Network Audio**

A horn speaker integrated with VAST 2 can broadcast a pre-recorded clip by schedule or a live announcement to the campus

3 **Loitering Detection**

A camera with loitering analytics detects a person of interest who is not allowed on campus and sends out real-time alarms to the VAST 2 system, as well as triggers audio warnings

Success Stories

Education

Nov. 2021, Indonesia

Singapore School, Pantai Indah Kapuk

Commercial

Sep. 2021, Indonesia

Vittoria Residence

Transportation

Sep. 2021, Taiwan

Parking Management System of Medical Center

Transportation

Mar. 2021, Zambia

Zambian National Roads Fund Agency

Commercial

Mar. 2021, South Africa

BP Manor Garage Gas Station

Retail

Jan. 2021, Mexico

Peyrelongue Chronos Jewelry Boutique

Manufacturing & Industrial

Oct. 2020, United States

Existo Cannabis Security Solutions

Education

Dec. 2019, United States

National Center for International Schools

Casino and Gaming

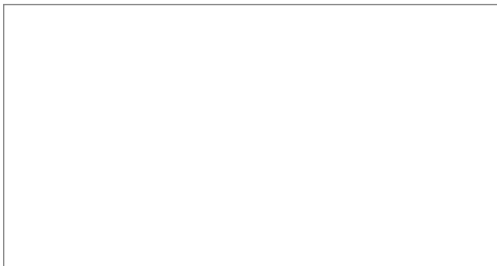**Nov. 2019, United States**

Chumash Casino Resort

Commercial

July 2018, Serbia and Montenegro

SBB, the provider of cable television and broadband internet

VIVOTEK

A Delta Group Company

Distributed by:

www.vivotek.com

VIVOTEK Inc.
6F, No.192, Liancheng Rd., Zhonghe Dist.,
New Taipei City 235, Taiwan
| **T** +886-2-82455282 | **E** sales@vivotek.com

VIVOTEK Japan
〒105-0012東京都港区芝大門2-1-14,
デルタ芝大門ビル
| **T** +81-3-5733-1280 | **E** salesjp@vivotek.com

VIVOTEK USA
2050 Ringwood Avenue, San Jose, CA 95131
| **T** 408-773-8686 | **E** salesusa@vivotek.com

VIVOTEK India
602, Best Sky Tower, Plot No. F-5, Netaji Subhash Place,
Pitampura, New Delhi-110034
| **T** +91-11-45137465 | **E** salesindia@vivotek.com

VIVOTEK EMEA
Zandsteen 15, 2132 MZ Hoofddorp,
The Netherlands
| **T** +31(0)20-800-3817 | **E** saleseurope@vivotek.com

VIVOTEK LATAM
Ejército Nacional No. 418 Piso 7, Oficina 711. Col. Polanco V Sección,
Alcaldía Miguel Hidalgo, Ciudad de México
| **T** + 52 55 1101 1793 | **E** saleslatam@vivotek.com