VIVOTEK

A Delta Group Company

S SERIES

NS9521-AI
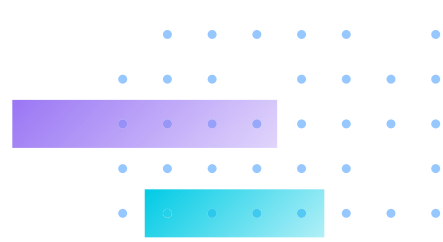## VAST 2 FaceMe Recognition Station

2-CH FaceMe • Up to 64CH Video management • Smart Search II Smart VCA Event • Cybersecurity Management Solution • Data Magnet

- 2-CH Facial Recognition by CyberLink FaceMe SECURITY
- Support H.265/H.264 Compression Technology 32CH, Expandable up to 64CH
- VIVO TEK VAST 2 CMS Inside
- Smart Search II: Powerful Search for Smart Motion Detection
- Smart VCA: AI Powered Video Analytics
- Cybersecurity Management Solution
- Multiple Fisheye Dewarp Modes
- Add-on Solutions: Failover, Transportation, Transaction and Data Magent
- VIVOTEK License Plate Recognition Solution
- Slim Design and Easy HDD Installation
- Based Windows Platform

FaceMe
Facial Recognition

Intelligent Computer Vision for AI Security Control Solutions

VIVOTEK's NS9521-AI is a 32-CH video management station that supports 2-CH facial recognition on FaceME. NS9521-AI allows you to easily search for individuals who have gained access and provides video evidence. The system can also trigger an integrated access control system to secure your entrance. With NS9521-AI, your IP surveillance becomes intelligent surveillance.

Benefits

Compact Solution for Multiple Applications

Fully and effortlessly integrable with VIVOTEK's cameras, NS9521-AI can seamlessly both monitor and manage facial recognition results, utilizing Edge Smart VCA, LPR, Access control, and Facial Recognition in one station.

Highly Accurate

NS9521-AI offers a Facial Recognition Solution by Cyberlink FaceMe Security to meet the precise needs of a diverse range of users. Based on machine learning and deep neural networks, FaceMe® has an accuracy rate (TAR, True Acceptance Rate) of 99.7% at 10-4 FAR.
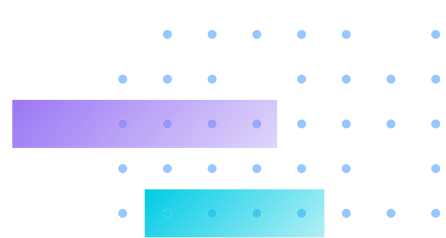
Facial Recognition with Masks

FaceMe security's update algorithm provides the ability to accurately recognize a person's identity, even if they are wearing a mask. It enables instantaneous and hygienic touchless biometric recognition.
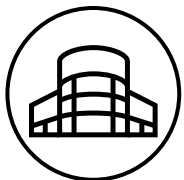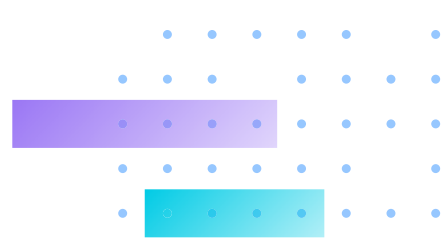
Ideal for Diverse Applicable Scenarios

As flexible as it is intelligent, NS9521-AI Facial Recognition offers comprehensive coverage and protection at high-traffic areas with large throughput and flawless management. It is ideal for medium to large businesses, covering scenarios such as office buildings, retail spaces, public entrances.
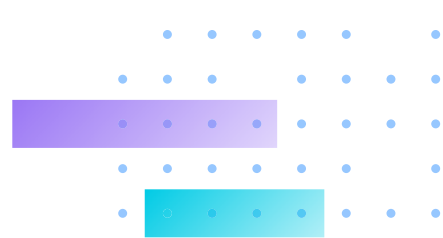
Technical Specifications

Device

Model	NS9521-AI
OS	Embedded Windows 10
Watchdog	Hardware + Software
Power Restoration	System restart automatically after power recovery

Local Display

LiveView Display	32 Channels (up to 64CH by license purchasing) 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 lay out display, f ull screen display Custom lay out, lay out rotation
Video Output	HDMI x1, Display Port x1, DVI x1
Display Resolution	HDMI: 4096x2160
	DVI: 1920x1200
	DP: 4096x2304
Dual Monitors	Supported
Camera Position	Change the view cell position on the Liv e View screens
Stream Application	Stream selection & auto stream size
Monitor Enhancement	E-Map Embedded
	Drag & Drop
	Remote I/O Control
	PiP (Digital Zoom)
	Instant Playback
	Video Display Mode (Aspect Ratio & Camera Information)
	Metadata Display (VCA, POS and Data Magnet)
Fisheye Dewarp	1O, 1P, 1R, 1O3R, 4R, 2P, 4R Pro, 1O8R and Fisheye Auto-Pan
PTZ/ ePTZ Operation	Direction Control, Home, Zoom, Focus, Isis, Preset, Patrol (Group), Tracking, Pan, Stop, Speed, Wiper Blade Control

Video

Video Format	MJPEG, MPEG4, H. 264 AVC, H. 264 SVC, H. 265
Graphic Decoder	Software decoding
Decoding Resolution	Up to 8192x8192
Decoding Capability	H. 264: 1920x1080 @ 540 f ps
	H. 265: 1920x1080 @ 270 f ps

Audio

Audio Format	G. 711, G. 726, AMR, AAC
2-way Audio	Supported

Record

Technical Specifications

Recording Time (sec.)	Pre-Record: 3-15
	Post-Record: 10-60
Recording Stream	Single
Recording Throughput	400 Mbps
Recording Mode	Continuous, Event, Customized Schedule, Activity Adaptive Streaming
Recording Setting	Recycling time depends on the remaining storage space or the set number of day s
Seamless Recording	Supported

Storage & Backup

HDD Devices	Internal x2 (3.5"")
	*HDD is purchased by separately
HDD Max. Capacity	*Please refer to HDD supported list on VIVOTEK website
Disk Management	Create, format and remove disk
Manual Backup	USB Dongle (FAT Format)
	NAS (SMB & CIFS)
Schedule Backup	NAS (SMB & CIFS)

Playback (Local Display)

Playback Display	32 Channels (up to 64CH by license purchasing)
	(the max. number of monitors supported depends on the decoding capability of your system)
	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, full screen display
	Custom Layout, layout Rotation
Playback Control	Play, Rewind, Pause, Stop, Next/Previous
	Frame, 1/64X ~ 64X Speed Control, Bookmark
Video Search	Calendar, Event, Alarm, Bookmark, Thumbnail, Smart Search II, Transaction (POS), Data Magnet, Log
Snapshot	BMP & JPEG
Video Clip Export	3GP & EXE

Network

Ethernet	10/100/1000Mbps Ethernet (RJ-45) x2
Video Throughput for Remote Client	400 Mbps
Protocols	IPv4,TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, SMTP, FTP, DHCP, NTP, DNS, DDNS, IP Filter

Alarm Management

External Devices Event	DI/O (with I/O Box), TCP Message

Technical Specifications

Action	Start to record videos, Set DO status, Go to camera presets, Send HTTP requests, Send live streaming, Send email with snapshot of assigned camera(s), Go to E-Map, Sound the alarm and Add bookmark
Alarm State for Management	New, In Progress, False Alarm and Close
Alarm Result Export	.csv file

eMap

Source	Import Picture & Folder
Device	Camera, external DI/O
Marked	Add, Remove, Direction Control, PTZ Control, FOV Control, LiveView & Playback
Event Notification	One or More Live Streaming

Face Me Security

Maximum Numbers of Faces in Database	10000
Maximum Numbers of Size in Database	10 GB with SQL Express
Facial Recognition Stream	1080P 10 FPS
Facial Recognition Speed	FR2: 500 people/hour

External Interface

USB Interface	Front: USB 2.0 x2
	Back: USB 3.1 (type A) x2, USB 3.1 (type C) x2
Audio In/ Out	Front
	Microphone audio jack Input x1
	3.5 Line output audio jack x1
	Back
	Microphone audio jack Input x1
	3.5 Line output audio jack x1

System

POS Integration	Supported
UPS Integration	Supported
Camera Integration	ONVIF Profile S
I/O Box Integration	Advantech ADAM-6000 Series
	CHIYU CYT-133SC
	MOXA ioLogik E1210, E1211 and E1212
User Management	Authentication: Basic Account / Windows AD Account
	User Account: 1024
	User Level: Administrator / Customized User
Log	Operation, system and event log
Date & Time	Sync server

Advanced Features
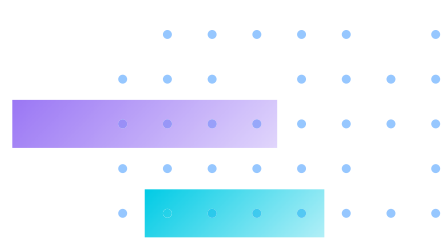
Technical Specifications

VCA Counting Solution	Supported
VCA Event Search	Supported
Smart Search	Supported
Cybersecurity Management	Supported
Failover	Supported
Remote Client	
Software AP	Shepherd, VAST 2
Mobile/Tablet App	iViewer (iOS/Android)
General	
Power Input	100~220V AC
Power Consumption	Max. 250 W
80 Plus Certified	Silver
Dimensions	342.3 (H) x 96 (W) x 409.1 (D) mm
Weight	5.15 kg
Operating Temperature	5°C ~ 35°C (41°F ~ 95°F)
Humidity	0 ~ 95%
Safety Certifications	CE, FCC, VCCI, C-Tick, UL, CB, BSMI
Warranty	36 months (Except VPU card)

Dimensions

342.3 mm

409.1 mm

96 mm

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