



# **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: Al 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



### **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-Al 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.

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	10, 1P, 1R, 103R, 4R, 2P, 4R Pro, 108R 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	
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	
Alarm Period (sec.)	Max. 30
Alarm Filter	Time, Trigger Type (Camera/Substation/System), Status, Name, Trigger Source
Alarm Setting	Realtime System Notification Alarm Result Display by List or Thumbnail
Schedule Type	Continuous, schedule, manual
Camera Event	General: Motion detection, Camera DI, Camera DO, IR (Infrared), PIR (Passive infrared), Tampering detection, Temperature, Camera disconnected, Recording error, Stop recording, Video loss (Video server only), SD card life expectancy detection, Audio detection, Shock detection Smart VCA: Line crossing detection, Intrusion detection, Loitering detection, Face detection, Missing object detection, Unattended object detection, Crowd detection, Zone detection Trend Micro IoT Security: Brute force attack, Cyber attack, Quarantine event
Substation	NV Series NVR: Abnormal G-sensor Motion, Speeding, GPS Disconnected ND Series NVR: Fan Status, Network Disconnected, Storage Failure, Storage Full, Number of remaining people, Brute force attack, Cyber attack, Quarantine event NR Series NVR: Network Disconnected, Storage Failure, Storage Full

Alarm Management         External Devices Event         DIVO (volts I/O Bood, TCP Message           Action         State to record videous, Set DO Babasis, Go to camera presents. Send HTTP requests, Send we wanner and Add Boodmant.           Alarm Result Export         Serv file           Observed         Import Peture & Felder           Devoca         Import Peture & Felder           Devoca         Cernore, asternal BIVO           William         Cernore, asternal BIVO           William         Alarm Result Export           Bound         Cernore, asternal BIVO           Bound         Cernore, asternal BIVO           William         Cernore, asternal BIVO           Bound         Cernore, asternal BIVO		
Saint to record videos, Set DO Status, Go to camerar persets, Send Iver anterimental persendent of assigned camerator, Go to E-Maps, Sund the alarm and Act bodemore.  Alarm State for Management New, In Progress, Faiter Alarm and Close  Alarm Result Export camerator, Go to E-Maps, Sund the alarm and Close  Alarm Result Export control progress, Faiter Alarm and Close  Source Import Picture & Folder  Divide Camera, external DIVO  Marked Add, Remove, Divercion Centrol, PTZ Control, EPV Control, LiveView & Playback  Exert Notification 0 to on Mare Live Sitesaming  Face Me Socurity  Maximum Numbers of Faces in Databaseo 1000	Alarm Management	
Action state for Management Action State for Management Agent State for Management State State Agent Agent State Agent Agent State Agent Agen	External Devices Event	DI/O (with I/O Box), TCP Message
Alarm Result Export  oMap  Source Import Picture & Folder  Device Camera, external DIVO Marked Add, Remove, Direction Control, PTZ Control, FOV Control, LiveView & Playtack Event Notification One or More Live Streaming Face Mescurity Maximum Numbers of Faces in Database Maximum Numbers of Size in Database 10000 Which Source Facial Recognition Stream 10000 Face in Recognition Stream 10000 Face	Action	streaming, Send email with snapshot of assigned camera(s), Go to E-Map, Sound the alarm and
Source Import Picture & Folder  Device Camera, external DIDO  Marked Add, Remove, Direction Control, FDZ Control, EVeAfew & Pinysack  Event Notification One or More Live Streaming  Face Me Security  Maximum Numbers of Faces in Database 10000  Maximum Numbers of Size in Database 10000 10000  Maximum Numbers of Size in Database 10000 10000  Maximum Numbers of Size in Database 100000 10000 10000  Maximum Numbers of Size in Database 10000 10000 10000  Maximum Numbers of Size in Database 10000 10000 10000  Face Me Security  Letteral Interface  External Interface  USB Interface Size in Database 100000 100000 100000 100000 10000 10000 10000 10000 10000 10000 10000 10000 10000	Alarm State for Management	New, In Progress, False Alarm and Close
Source         Import Picture & Folder           Device         Camera, external DIVO           Marked         Add, Romove, Direction Control, PTZ Control, EVV Control, LiveView & Pleyback           Event Notification         One or More Live Streaming           Face Me Security           Maximum Numbers of Faces in Database         10000           Maximum Numbers of Size in Database         10 080 vm.           Facial Recognition Stream         1080P 10 FPS           Facial Recognition Speed         FR2: 500 peoplethour           External Interface         Front           USB 2.0 x2 Back: USB 3.1 type A) x2, USB 3.1 (type C) x2           Audio Inf Out         Front         USB 2.0 x2 Back: USB 3.1 tree output audio jack in put x1 3.5 Line output audio jack x1 Back           System         POS Integration         Supported           UPS Integration         Supported           UPs Integration         Supported           UPs Management         Authentican Basic Account! Windows AD Account!           User Management         Authentican Basic Account! Windows AD Account!           User Accounting Solution         Sync server           Advanced Features         VCA Event Search         Supported           VCA Event Search         Supported           VCA Event Search         Sup	Alarm Result Export	.csv file
Device Camera, external DIVO  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 100800 10080  Maximum Numbers of Size in Database 100800 10080  Maximum Numbers of Size in Database 100800 10080  Facial Recognition Stream 10809 10 FPS  Facial Recognition Stream 10809 10 FPS  Facial Recognition Speed FR2: 500 people/hour  External Interface  USB Interface Front: USB 2.0 x2 Stream 2 Stream	еМар	
Marked         Add, Remove, Direction Control, PTZ Control, FOV Control, LiveView & Playphack           Event Notification         One or Morie Live Streaming           Face Me Security           Maximum Numbers of Faces in Database         10000           Maximum Numbers of Size in Database         10 68 With SQL Express           Facial Recognition Stream         1080P 10 FPS           Facial Recognition Speed         FR2: 500 people/hour           External Interface         Front: USB 2.0 x2 Rack USB 3.1 (type C) x2.           Audio In/ Out         Front: USB 2.0 x2 Rack USB 3.1 (type C) x2.           System         Front: USB 2.0 x2 Rack USB 3.1 (type C) x2.           System         Foot Morrophone audio jack input x1 Rack X1 Rack USB 3.5 (type A) x2, USB 3.1 (type C) x2.           System         System USB Integration         Supported           UPS Integration         Supported           UPS Integration         ONVER Profile S           User Management         Advantech ADAM-6000 Series CHUV CY1-133SC MAXX Rack Marinetinator / Customized User           Log         Operation, system and event log           Date & Time         System and event log           Date & Time         Supported           Advanced Features         VCA Counting Solution         Supported           VCA Event Search         Supported	Source	Import Picture & Folder
Event Natification One or More Live Streaming  Face Me Security  Maximum Numbers of Faces in Database 10000  Maximum Numbers of Size in Database 10000 10 FB  Facial Recognition Stream 1080P 10 FB  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 Sacram Sacr	Device	Camera, external DI/O
Face Me Security  Maximum Numbers of Faces in Database 10000 Maximum Numbers of Size in Database 10000 Facial Recognition Stream 10000 per Jo FPS Facial Recognition Stream Facial Recognition Speed External Interface  USB Interface  Front Marchphone audio jack Input x1 3.5 Line output audio jack x1 Back Back Back Back Back Back Back Back	Marked	Add, Remove, Direction Control, PTZ Control, FOV Control, LiveView & Playback
Maximum Numbers of Faces in Database 10000  Maximum Numbers of Size in Database 106B 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 C) x2  Audio In/ Out Speed Front: USB 2.0 x2 Back: USB 3.1 (type A) x2, USB 3.1 (type C) x2  Audio In/ Out Speed Front: USB 2.0 x2 Back: USB 3.1 (type A) x2, USB 3.1 (type C) x2  System  POS Integration Supported Supported Supported Speed Spe	Event Notification	One or More Live Streaming
Maximum Numbers of Size in Database         10 GB with SQL Express           Facial Recognition Stream         1080P 10 FPS           External Interface         FR2: 500 people/hour           External Interface           USB Interface         Front: USB 2.0 x2 Back: USB 3.1 (type C) x2           Back: USB 3.1 (type A), x2, USB 3.1 (type C) x2           Audio In/ Out         Front: USB 2.0 x2 Back: USB 3.1 (type C) x2           Audio In/ Out         Front: USB 2.0 x2 Back: USB 3.1 (type C) x2           System         System           POS Integration           UPS Integration         Supported           Camera Integration         ONVIF Profile S           UO Box Integration         Advantech ADAM-8000 Series CHYU CYX1-33SC MOXA (oLogik E1210, E1211 and E1212           UO Box Integration         Jubentication: Basic Account/ Windows AD Account User Account: 1024 User Level: Administrator / Customized User           Log         Operation, system and event log           Date & Time         Syno server           Advanced Features         VCA Counting Solution         Supported           VCA Event Search         Supported           Smart Search         Supported           Synoted         Supported	Face Me Security	
Facial Recognition Stream Facial Recognition Speed FR2: 500 people/hour  External Interface  USB Interface Front: USB 2.0 x2 Back: USB 3.1 (type C) x2  Back	Maximum Numbers of Faces in Database	10000
Facial Recognition Speed FR2: 500 people/hour  External Interface Front: USB 2.0 x2 Back: USB 3.1 (type C) x2  Audio In/ Out Round Recognition Speed Round Recognition Speed Round Recognition Speed Round Recognition Speed Round Recognition Recogni	Maximum Numbers of Size in Database	10 GB with SQL Express
External Interface  USB Interface  Front: USB 2.0 x2 Back: USB 3.1 (type C) x2  Audio In/ Out  Audio In/ Out  Front Microphone audio jack Input x1 Back Microphone audio jack Input x1 S.5 Line output audio jack X1 Back Microphone audio jack Input x1 S.5 Line output audio jack X1  System  POS Integration  Supported  UPS Integration  ONVIF Profile S  I/O Box Integration  Advanted h ADAM-6000 Series CHYU CYY-133SC MOXA lotogik E1210, E1211 and E1212  User Management  Audivancial Administrator / Customized User  Log  Operation, system and event log  Date & Time  Sync server  Advanced Features  VCA Counting Solution  Supported	Facial Recognition Stream	1080P 10 FPS
Common	Facial Recognition Speed	FR2: 500 people/hour
Audio In/ Out  Audio In/ Out  System  POS Integration  Camera Integration  Comera Integration  Advantech ADAM-6000 Series CHIYU CYT-133SC CHIYU CYT-133SC MOXA ioLogik E1210, E1211 and E1212  Comera Integration  Comera Integration  Comera Integration  Comera Integration  Comera Integration  Advantech ADAM-6000 Series CHIYU CYT-133SC CHIYU CYT-133SC MOXA ioLogik E1210, E1211 and E1212  Comera Integration  Advantech ADAM-6000 Series CHIYU CYT-133SC CHIYU CYT-13SC CH	External Interface	
Audio In/ Out  System  POS Integration Supported  Camera Integration OnVIF Profile S  I/O Box Integration ONVIF Profile S  I/O Box Integration ONVIF Profile S  Log Operation, system and event log  Date & Time Sync server  Advanced Features  VCA Counting Solution Supported  Supported  Supported  Authentication: Basic Account / Windows AD Account User Account: 1024 User Level: Administrator / Customized User  Advanced Features  VCA Counting Solution Supported	USB Interface	
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 User Account: 1024 User Level: Administrator / Customized User  Log Operation, system and event log  Date & Time Sync server  Advanced Features  VCA Counting Solution Supported  Supported  Supported  Supported  Supported  Supported  Supported  Supported  Supported	Audio In/ Out	Microphone audio jack Input x1 3.5 Line output audio jack x1 Back Microphone audio jack Input x1
UPS Integration  Camera Integration  ONVIF Profile S  Advantech ADAM-6000 Series CHIYU CYT-133SC MOXA ioLogik E1210, E1211 and E1212  User Management  Log  Operation, system and event log  Date & Time  Advanced Features  VCA Counting Solution  VCA Event Search  Supported  Supported  Cybersecurity Management  Supported  Supported  Cybersecurity Management  Supported  Supported  Cybersecurity Management  Supported  Supported  Supported  Cybersecurity Management  Supported  Supported	System	
Camera Integration ONVIF Profile S  I/O Box Integration Advantech ADAM-6000 Series CHIVU CYT-1338C 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  VCA Counting Solution Supported  VCA Event Search Supported  Supported  Cybersecurity Management Supported  Supported  Supported	POS Integration	Supported
Wo Box Integration  Advantech ADAM-6000 Series CHIYU CYT-133SC MOXA ioLogik E1210, E1211 and E1212  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  VCA Counting Solution Supported  VCA Event Search Supported  Cybersecurity Management Supported Supported Supported Supported	UPS Integration	Supported
I/O Box Integration     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     VCA Counting Solution       VCA Counting Solution     Supported       Smart Search     Supported       Cybersecurity Management     Supported	Camera Integration	ONVIF Profile S
User Management     User Account: 1024 User Level: Administrator / Customized User       Log     Operation, system and event log       Date & Time     Sync server       Advanced Features     VCA Counting Solution       VCA Counting Solution     Supported       VCA Event Search     Supported       Smart Search     Supported       Cybersecurity Management     Supported	I/O Box Integration	CHIYU CYT-133SC
Date & Time Sync server  Advanced Features  VCA Counting Solution Supported  VCA Event Search Supported  Smart Search Supported  Cybersecurity Management Supported	User Management	User Account: 1024
Advanced Features  VCA Counting Solution  VCA Event Search  Supported  Smart Search  Supported  Cybersecurity Management  Supported	Log	Operation, system and event log
VCA Counting SolutionSupportedVCA Event SearchSupportedSmart SearchSupportedCybersecurity ManagementSupported	Date & Time	Sync server
VCA Event Search     Supported       Smart Search     Supported       Cybersecurity Management     Supported	Advanced Features	
Smart Search Supported  Cybersecurity Management Supported	VCA Counting Solution	Supported
Cybersecurity Management Supported	VCA Event Search	Supported
	Smart Search	Supported
Failover Supported	Cybersecurity Management	Supported
	Failover	Supported

Remote Client	
Software AP	Shepherd, VAST 2
Mobile/Tablet App	iViewer (iOS/Android)
Web Browser	Internet Explorer 9 (32 bit) or above
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
Warranty	36 months (Except VPU card)

### **Dimensions**



