



- 64 Channel IP video access
- Smart H.265+/H.265/SmartH.264+/H.264/MJPEG
- Up to 16 Channel perimeter protection
- Up to 4 Channel video stream face recognition
- Up to 24 face pictures /sec processing
- Up to 20 face databases with 100,000 face images in total

THVU864IPAI

64Channel 2U AI Network Video Recorder



Functions

Perimeter Protection

Automatically filtering out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improving alarm accuracy.

Real Time Face Recognition

Video stream & picture stream real time face recognition. Facial attributes analysis features including gender, age, expression, glasses, moustache, mouth mask. Identify people and also capture, record faces with metadata. Facial feature filtering while real time display, only show faces with target features.

Face Database Management

Configurable multiple face databases. Powerful face database management. Face database can be applied to video channels independently. Name, gender, birthday, nationality, address, ID information can be added to each face picture.

Common/Stranger Mode

NVR5000-I supports common and stranger mode. In stranger mode, when NVR detects a strange face(not in device's face database), it can trigger alarm, buzzer, snapshot, record, etc. Similarity threshold can be set manually. This function is developed for important infrastructure sites for which access control is critical.

AI Search

Support search by metadata of human and vehicles. Support uploading face pictures to NVR and compare them with recorded faces in NVR by similarity. Enable operators to quickly and easily search through multi channels and long duration, efficiently find out when and where a person of interest appeared.

ANPR

Automatic Number Plate Recognition available for convenient entrance/ exit management. Support license plate recognition, black/white list import/export, add/delete B/W list number, search result from recorded video.

Point of Sale (POS)

Ideal for grocery and retail stores, the optional POS solution allows the NVR to receive a POS transaction via corresponding video. This feature allows merchants to analyze specific transactions via the Fuzzy search algorithm.

Technical Specification

System	
Main Processor	Multi-core embedded processor
Operating System	Embedded LINUX
Perimeter Protection	
Performance	16 channel, 10 IVS rules for each channel
Object classification	Human/Vehicle secondary recognition for tripwire and intrusion
AI Search	Search by target classification (Human, Vehicle)
Face Recognition	
Performance	Max 24 face pictures /sec processing (modeling and comparing)
	4 channel video stream face recognition / 16 channel picture stream face recognition (with FD camera)
Stranger Mode	Detect strangers' faces(not in device's face database). Similarity threshold can be set manually.
AI Search	Up to 8 target face images search at same time, similarity threshold can be set for each target face image.
Database Management	Up to 20 face databases with 100,000 face images in total. Name, gender, birthday, nationality, address, ID information can be added to each face picture.
Database Application	Each database can be applied to video channels independently.
Trigger Events	Buzzer, Voice Prompts, Email, Snapshot, Recording, Alarm Out, PTZ Activation, e.c.

Metadata	
Face	Gender, age, glasses, beard, mask.
Vehicle	Vehicle color, vehicle model, vehicle logo, plate color, vehicle decorations, call, seatbelt.
Human Body	Tops style, tops color, bottom style, bottom color, hat, bag.
Non-motor Vehicle	Type, color, people number.
AI Search	Support search target video by metadata.
Audio and Video	
IP Camera Input	64 Channel
Two-way Talk	1 Channel Input, 1 Channel Output, RCA
Display	
Interface	2HDMI, 1VGA
Resolution	HDMI1/VGA: 1920 × 1080 , 1280 × 1024, 1280 × 720 , 1024 × 768 / HDMI2: 3840 × 2160 , 1920 × 1080 , 1280 × 1024, 1280 × 720 , 1024 × 768
Decoding Capability	4-ch@8MP(30fps), 16-ch@1080P(30fps)
Multi-screen Display	1st Screen: 1/4/8/9/16/25/36 2nd Screen: 1/4/8/9/16
Recording	
Bandwidth	320Mbps (160Mbps when AI function enabled)
Compression	Smart H.265+/H.265/Smart H.264+/H.264/MJPEG
Resolution	16MP, 12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 1.3MP, 720P, D1 etc.
Record Mode	Manual, Schedule (Continuous, MD(Motion Detection) , Alarm, IVS)
Record Interval	1 ~ 120 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post-record: 10 ~ 300 sec
Video Detection and Alarm	
Trigger Events	Alarm Out, Video Push, Email, Recording, PTZ, Tour, Snapshot, Voice Prompt, Buzzer and Screen Tips
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Scene Change
Alarm input	16 Channel
Relay Output	6 Channel
Playback and Backup	
Sync Playback	1/4/9/16
Search Mode	Time /Date, Alarm, MD and Exact Search (accurate to SECOND)
Backup Mode	USB Device/Network/eSATA Device
Third-party Support	
Third-party Support	Arecont Vision, Airlive, AXIS, Canon, Dynacolor, JVC, LG, Panasonic, Pelco, PSIA, Samsung, Sanyo, Sony, Watchnet and more
Network	
Interface	2 RJ-45 Ports (10/100/1000Base-T)
POE	N/A
Network Function	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, SNMP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, IP Search (Support Dahua IP camera, DVR, NVS, etc.), P2P
Max. User Access	128 users
Smart Phone	iPhone, iPad, Android
Interoperability	ONVIF 2.4, SDK, CGI
STORAGE	
Internal HDD	8 SATA III Ports, Up to 8 TB capacity for each HDD
eSATA	1eSATA
Auxiliary Interface	
USB	4 USB Ports (2 Rear USB 3.0 , 2 Front USB 2.0)
RS232	1 Port, for PC Communication and Keyboard
RS485	1 Port, for PTZ Control

Power	
Power Supply	Single, AC100V ~ 240V, 50 ~ 60 Hz
Power Consumption	NVR: <16.1W (Without HDD)
Fan	Smart fan, automatically adjust running speed
Certification	
CE	EN55032, EN55024, EN50130-4, EN60950-1
FCC	Part 15 Subpart B, ANSI C63.4-2014
UL	UL 60950-1
Environmental	
Operating Conditions	-10°C ~ +55°C (+14°F ~ +131°F), 86 ~ 106kpa
Storage Conditions	-20°C ~ +70°C (-4°F ~ +158°F), 0 ~ 90% RH
Structure	
Dimensions	2U, 440mm x 450.13mm x 95mm ; (17.3" x 17.7" x 3.7")
Net Weight	6.70kg (14.8 lb) (without HDD)
Gross Weight	9.30kg (20.5 lb) (without HDD)

Hiltron Land S.r.l.

Strada Provinciale di Caserta, 218 80144 - Napoli - Italy
Tel: (+39) 081.185.39.000 Fax: (+39) 081.185.39.016
www.hiltronsecurity.it

