*HILTCON security



H.265+/H.265 dual-stream video compression

- · Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- · Max 16 channels IP camera inputs, each channel up to 8MP; Max 128 Mbps incoming bandwidth
- · Up to 2 channels video stream (analog channel) Perimeter Protection
- · Up to 8 channels video stream (analog channel) SMD Plus
- · Up to 2 channels video stream (analog channel) human face recognition
- · IoT & POS functionalities

















THV4K8HDS

8 Channel Penta-brid 4K-N/5MP 1U Digital Video Recorder

Functions

Real Time Face Recognition

Video 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 ÿltering while real time display, only show faces with target features.

*Face Recognition takes effect when Face is selected in Al Mode.

Perimeter Protection

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

*Perimeter Protection takes effect when IVS&SMD is selected in Al Mode.

SMD Plus

SMD Plus, referred to as Smart Motion Detection Plus, which is an upgrading version of SMD that greatly improves the alarm accuracy by loading deep-learning algorithm. It analyzes person and vehicle shapes based on motion detection and send alarms only when person and vehicle intrudes.

*SMD Plus takes effect when SMD or IVS&SMD is selected in Al Mode.

AI Coding

Compared with H.265, Al codec can reduce up to 50% bit rate and storage requirements while have no loss of decoding compatibility, providing clear human and vehicle details.

Smart H.265+

Smart Codec, H.265+ can reduce up to 90% bit rate and storage requirements compared with H.264 without having to invest in new cameras.

HDCVI/AHD/TVI/CVBS Auto-detect

The XVR can auto recognize the signal of front-camera without any setting. It makes operation more friendly and convenient.

High Definition Camera Input

The XVR supports up to 5MP HDCVI camera and 6MP IP camera input.

Coaxial Audio/Upgrade/Alarm

The integrated design can reduce wiring troubles which makes it much more cost-effective and convenient for installation.

Long Distance Transmission

The HDCVI system supports long distance transmission over coaxial cable and UTP, max. 700m for 4K/4MP, 800m for 1080P and 1200m for 720P.

Al Search

Extract and classify person and vehicles from massive video data, easy for end users to trace historical informaton and analyze. Person & vehicle optonal for playback to achieve quick target search, saving event retrieval tme.

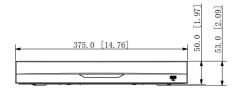
Technical Specification System Main Processor Embedded Processor Operating System Embedded LINUX **Perimeter Protection** Performance 2 channels, 10 IVS for each channel Object classification Human/Vehicle secondary recognition for tripwire and intrusion Search by target classification (Human, Vehicle) Al Search **Face Recognition** Performance Max 12 face pictures/sec processing 2 channels video stream face recognition, only support analog camera Stranger Mode Detect strangers' faces (not in device's face database). Similarity threshold can be set manually. Up to 8 target face images search at same time, similarity threshold can be set for each target face image. Al Search Database Management Up to 10 face databases with 20,000 face images in total. Name, gender, birthday, address, certificate type, cerificate No., countries®ions and state can be added to each face picture.

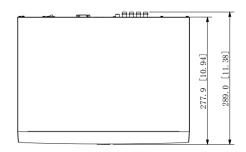
Database Application	Each database can be applied to video channels independently .
Trigger Events	Buzzer, Voice Prompts, Email, Snapshot, Recording, Alarm Out, PTZ Activation, etc.
SMD Plus	
Performance	8 channels
Al Search	Search by target classification (Human, Vehicle)
Video and Audio	
Analog Camera Input	8 channels, BNC
HDCVI Camera Input	4K, 6MP, 5MP, 4MP, 1080P@25/30fps, 720P@50/60fps, 720P@25/30fps
AHD Camera Input	4K, 5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps
TVI Camera Input	4K, 5MP, 4MP, 3MP, 1080P@25/30, 720P@25/30fps
CVBS Camera Input	PAL/NTSC
IP Camera Input	8+8 channels, each channel up to 8MP
Audio In/Out	1/1, RCA
Two-way Talk	Reuse audio in/out, RCA
Recording	
Compression	Al Coding/H.265+/H.265/H.264+/H.264
Resolution	4K, 6MP, 5MP, 4K-N, 4MP, 3MP, 4M-N, 1080P, 720P,960H, D1, CIF
Record Rate	Main stream: All channel 4K(1fps-7fps); 6MP(1fps-10fps); 5MP(1fps-12fps); 4K-N,
	4MP/3MP(1fps-15fps);4M-N/1080P/720P/960H/D1/CIF (1fps-25/30fps);
	Sub steram:960H(1fps-15fps); D1/CIF(1fps-25/30fps)
Bit Rate	32 Kbps-6144 Kbps Per Channel
Record Mode	Manual, Schedule (General, Continuous), MD (Videodetection: Motion Detection, Video Loss, Tampering), Alarm, Stop
Record Interval	1 – 60 min (default: 60 min), Pre-record: 1 s–30 s, Postrecord: 10 s–300 s
Audio Compression	G.711A, G.711U, PCM
Audio Sample Rate	8 KHz, 16 bit Per Channel
Audio Bit Rate	64 Kbps Per Channel
Display	
Interface	1 HDMI ,1 VGA
Resolution	HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 ×720
	VGA: 1920 × 1080, 1280 × 1024, 1280 × 720
Multi-screen Display	When IP extension mode not enabled: 1/4/8/9/16 When IP extension mode enabled: 1/4/8/9/16/25/36
OSD	Camera title, Time, Video loss, Camera lock, Motion detection, Recording
Network	
Interface	1 RJ-45 Port (1000 MB)
Network Function	HTTP, HTTPS, TCP/IP, IPv4/IPv6, Wi-Fi, 3G/4G, SNMP, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server,
	P2P,IP Search (Supports Dahua IP camera, DVR, NVS, etc.)
Max. User Access	128 users
Smart Phone	iPhone, iPad, Android
Interoperability	ONVIF 16.12, CGI Conformant
Video Detection and Alarm	
Trigger Events	Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen TipsAlarm input N/A
Video Detection	Motion Detection, MD Zones: 396 (22 \times 18), Video Loss, Tampering and Diagnosis
Alarm input	N/A
Relay Output	N/A
Playback and Backup	
Playback	1/4/9/
Search Mode	Time /Date, Alarm, MD and Exact Search (accurate to second)
Playback Function	Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle,
	Backup Selection, Digital Zoom
Backup Mode	USB Device/Network

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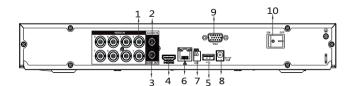
Storage	
Internal HDD	2 SATA Port, up to 10TB capacity
eSATA	N/A
Auxiliary Interface	
USB	2 USB Ports (USB 2.0)
RS485	1 Port, for PTZ Control
RS232	N/A
Electrical	
Power Supply DC 12V/2A	DC 12V/2A
Power Consumption (Without HDD)	<10W
Construction	
Dimensions	Compact 1U, 260 mm \times 238 mm \times 48 mm (10.24" \times 9.34" \times 1.87")
Net Weight (without HDD)	1.6 kg (3.5 lb)
Gross Weight	3.0kg (6.6 lb)
Installation	Desktop installation
Environmental	
Operating Conditions	-10°C to +55°C (+14°F to +131°F), 0–90% RH
Storage Conditions	-20°C to $+70^{\circ}\text{C}$ (-4°F to $+158^{\circ}\text{F}$) , 0–90% RH
Third-party Support	
Third-party Support	Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony,
	Videotec, Vivotek, and more
Certifications	
Certifications	FCC: Part 15 Subpart B
	CE: CE-LVD: EN 60950-1/IEC 60950-1 CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN50130, EN 55024

Dimension





Panels



- 1 VIDEO IN
- 2 AUDIO IN, RCA Connector
- 3 AUDIO OUT, RCA Connector
- 4 HDMI Interface
- 5 USB Interface

- 6 Network Interface
- 7 RS485 Interface
- 8 DC 12V Power Input
- 9 VGA Interface
- 10 Power Switch



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