

# DH-XVR5116HS-I3

16 Channels Penta-brid 5M-N/1080P Compact 1U 1HDD WizSense Digital Video Recorder



Wiz Sense

Launched by Dahua Technology, WizSense is a series of Al products and solutions that adopt independent AI chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on Dahua's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

#### Series Overview

Dahua Technology, a world-leading video-centric smart IoT solution and service provider, debuted its new XVR series, XVR5000-I3 Series featuring max.full-channel SMD Plus to benefit customers from AI upgrade (The number of channels differs depending on the model. Please refer to the specifications below for information on the number of channels.). This series has been developed to reduce false-alarm rates and the cost of human surveillance, thus bringing great value to customers in search of products with accurate human/vehicle alarm to raise the security level of various indoor and outdoor facilities.

#### Functions

#### Face Recognition

Dahua Face Recognition technology extracts the features of captured faces and compares them with that in face database to recognize the person identity.

\*Face Recognition takes effect when Face is selected in AI Mode.

#### **Perimeter Protection**

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

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

#### **SMD Plus**

With intelligent algorithm, Dahua Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

\*SMD Plus takes effect when SMD or IVS&SMD is selected in AI Mode

- H.265+/H.265 dual-stream video compression
- Supports Full-channel AI Coding
- Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- Max 24 channels IP camera inputs, each channel up to 6MP; Max 128
  Mbps incoming bandwidth
- Up to 4 channels video stream (analog channel) Perimeter Protection
- Up to 16 channels video stream (analog channel) SMD Plus
- Up to 2 channels video stream (analog channel) human face recognition

#### IoT & POS functionalities



#### **Smart Dual Illuminators**

With Smart Dual Illuminators technology, you can select Smart Illumination Mode for the system to automatically switch between IR mode and white light mode. It allows white light to be turned on when a target is detected by the SMD Plus/Perimeter Protection function of AI-enabled XVR. This significantly reduces light pollution at night. Together with other modes, including IR Mode and White Light Mode, the smart dual illumination technology can meet the requirements of a wide variety of scenes.

#### **One-click Arming/Disarming**

With just one click, you can enable or disable alarm linkages to show messages, send emails, output audio alarms and more, through the mobile app and platform.

#### **Customizable Alarm Audio**

Designed for your convenience, the TiOC alarm can be customized to meet your needs. It is flexible, allowing you to directly upload your customized audio through the mobile app and XVR.

#### AI Coding

Compared with H.265/H.264, AI coding can reduce more than 50% bit rate and storage requirements without loss of decoding compatibility, providing clear human and vehicle details.

#### Audio over Coax

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

## Wiz Sense | DH-XVR5116HS-I3

#### 1 HDMI .1 VGA **Technical Specification** VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 System Video Output ×720 It changes to 1920 × 1080, 1280 × 1024, 1280 × 720 Main Processor Embedded processor when Face or IVS&SMD is selected in AI Mode. Embedded Linux **Operating System** When IP extension mode not enabled: 1/4/8/9/16 Multi-screen Display When IP extension mode enabled: 1/4/8/9/16/25 **Operating Interface** Web<sup>.</sup> Local GUI Onvif, Panasonic, Sony, Axis, Arecont, Pelco, Canon, Third-party Camera Access Samsung Perimeter Protection **Compression Standard** Perimeter Performance AI Advanced Model: 2 channel, 10 IVS for each channel by Recorder (Number of General Model: 4 channels, 10 IVS for each channel Video Compression AI Coding/H.265+/H.265/H.264+/H.264 Channels) Audio Compression G.711A/G.711u/PCM Face Detection Network Gender; age group; glasses; expressions; face mask; **Face Attributes** beard HTTP, HTTPS, TCP / IP, IPv4, RTSP, UDP, SMTP, NTP, DHCP, Network Protocol Face Detection DNS, DDNS, P2P Performance of AI by 2 channels (up to 12 face images/s) **Mobile Phone Access** iPhone, iPad, Android Recorder (Number of Channels) Interoperability ONVIF 21.06, CGI Face Recognition Browser Chrome, IE9 or above, Firefox Up to 10 face databases with 10000 face images in total. Name, gender, birthday, address, certificate type, Network Mode Single-address mode Face Database Capacity cerificate No., countries&regions and state can be added to each face picture Recording Playback Face Recognition Performance of AI by Record Mode General, motion detection; intelligent; alarm; POS 2 channels Recorder (Number of Channels) 1/4/9/16 Recording Playback It changes to 1/4/9 split when Face or IVS&SMD is **SMD** Plus selected in AI Mode. 16 channels: Secondary filtering for human and motor USB Device/Network Backup Method SMD Plus by Recorder vehicle SMD Plus, reducing false alarms caused by leaves, rain and lighting condition change Instant playback, general playback, event playback, tag Playback Mode playback, smart playback (face and motion detection) Audio and Video Alarm 16 BNC ports, CVI access by default, supports HDCVI/ Analog Camera Input AHD/TVI/CVBS auto-detect General Alarm Motion detection, Video Loss, tampering 1. CVI: 5MP, 4MP, 1080p@25/30 fps, 720p@50/60 fps, 720p@25/30 fps No disk, disk error, low space, offline, ip conflict, MAC Camera Input Anomaly Alarm 2. TVI: 5MP, 4MP, 1080p@25/30 fps, 720p@25/30 fps. conflict 3. AHD: 5MP, 4MP, 1080p@25/30 fps, 720p@25/30 fps. Intelligent Alarm Face detection, face recognition, perimeter protection Up to 24 channels of IPC access Record, snapshot (panoramic), IPC external alarm 8 IP channels by default + 16 channels (analog channels Alarm Linkage output, access controller, voice prompt, buzzer, log, are converted to IP channels) preset, email incoming bandwidth: 128 Mbps, recording bandwidth: **IP** Camera Input 128 Mbps and outgoing bandwidth: 128 Mbps Ports \*After IP channels are added beyond the existing channels, the AI Function (IVS, SMD, FACE) will be 1-channel RCA (external) Audio Input disabled 16-channel BNC (coaxial audio) Main stream: All channel 5M-N (1 fps-10 fps); Audio Output 1-channel RCA 4M-N/1080p (1 fps-15 fps); 1080N/720p/960H/D1/CIF **Encoding Capacity** (1 fps-25/30 fps) Sub stream: Supported (D1/CIF (1 fps-15 fps)). Two-way Talk Yes (share the same audio input with the first channel) Dual-stream Yes 1 SATA Port, up to 16TB, the maximum HDD capacity HDD Interface varies with environment temperature PAL: 1 fps-25 fps. Video Frame Rate NTSC: 1 fps-30 fps RS-485 1 Port, for PTZ Control Video Bit Rate 32 Kbps-6144 Kbps Per Channel USB 2 (1 front USB 2.0 port, 1 rear USB 3.0 port) Audio Sampling 8 KHz, 16 bit HDMI 64 Kbps Audio Bit Rate VGA

### Wiz Sense | DH-XVR5116HS-I3

Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)	
General		
Power Supply	DC12V, 2A	
Power Consumption	Lower than 12 W	
Net Weight	1.17 kg (2.58 lb)	
Gross Weight	1.57 kg (3.46 lb)	
Product Dimensions	Compact 1U, 260.0 mm × 237.9 mm × 47.6 mm 10.24" × 9.37" × 1.87" (W × D × H)	
Packaging Dimensions	333.0 mm × 89.0 mm × 315.0 mm 13.11" × 3.50" × 12.40" (W × D × H)	
Operating Temperature	-10 °C to +55 °C (+14 °F to +131 °F)	
Operating Humidity	10%-90%	
Installation	Desktop	
Certifications	CE: CE-LVD: EN 60950-1/IEC 60950-1 CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024 FCC: Part 15 Subpart B	



#### **Ordering Information**

Туре	Model	Description
16 Channels WizSense XVR	DH-XVR5116HS-I3	Compact 1U DIGITAL VIDEO RECORDER

### Dimensions (mm[inch])





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