

# FHD5808/16S-X

# 8/16 Channel Penta-brid 1080P 2U Digital Video Recorder



- $\cdot$  H.265+/H.265 dual-stream video compression
- · Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- $\cdot$  Max 12/24 channels IP camera inputs, each channel up to 6/8MP; Max 48/96Mbps incoming bandwidth
- · 4/8 channels support Tripwire & Intrusion; First 2 channels support Object Abandoned & Missing
- · DH-XVR5816S-X supports HDMI2 for spot output



#### System Overview

With the surveillance operators pursuing to HD/UHD which further adds the storage and transmission cost, HDCVI H.265+/H.265 has been released to incredibly decrease the required bitrate while ensuring the video quality in realizing high resolution surveillance such as 4MP/4K.

The Lite Series is designed for high cost performance and quality. The range offers a great solution for users facing budget constraints who both require quality and performance. And with the adoption of Smart H.265+/H.265, the series improves encoding efficiency, saving on bandwidth/storage costs, and significantly reducing the Total Cost of Ownership (TCO).

#### Functions

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

#### SMD Functionality

SMD, referred to as Smart Motion Detection, is a new surface learning algorithm based on motion detection. It can reduce false alarms with intelligent analysis, saving time and labor costs of checking useless alarms. Furthermore, human and vehicle classification makes it possible to quickly locate the alarm triggering scenarios.

#### Coaxial Audio/Upgrade/Alarm

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

#### POS Functionality

This function includes POS ticket information overlay and search which can be widely used in retail programs.

#### 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.

#### Smart Fan Design

The smart fan can automatically turn on or turn off according to the CPU temperature. This function can effectively reduce the fan noise to provide a better user experience.

#### Spot Output

HDMI2 of DH-XVR5816S-X is made for a secondary monitor. This allows the operator to view one special monitor that assigned to selected cameras or video inputs from higher security areas.

#### Intelligent Video System (IVS)

With built-in intelligent video analytics, the DVR has the ability to detect and analyze moving objects for improved video surveillance. The DVR provides optional standard intelligence at the edge allowing detection of multiple object behaviors such as abandoned or missing objects. IVS also supports Tripwire analytics, allowing the camera to detect when a pre-determined line has been crossed.

#### Face Detection

It is a typical technology being used in a variety of applications for searching or identification of individuals.

## **Technical Specification**

Main ProcessorEmbedded UNUXOperating SystemFubedded UINUXVideo and AudioFubedded UINUXAnalog Camera Input8/16 Channel, BNCHDC VI CameraSMP, 4MP, 1080P@25/30.720P@25/30fpsAHD CameraSMP, 4MP, 1080P@25/30, 720P@25/30fpsCVBS CameraPL/NTSCIP Camera Input8CH: 8/4.Channel, each channel up to 6MPAudio In/Out8CH: 8/1, BNCAudio In/Out8CH: 8/1, BNCRecordingFUES/FL/265/H.264/H.264RecordingFUES/FL/265/H.264/H.264Record RateSMP, 4MP, 1080P.020N, 720P.960H, D1, CIFRecord RateSMP, 4MP, 1080P.020N, 720P.960H, D1, CIFRecord RateSMP, 4MA, 1080P.1080N, 720P.960H, D1, CIFRecord RateSMP, 4MA, 1080P.1050N, 720P.960H, D1, CIFRecord IntervalSMP, 4MA, 1080P.1050N, 720P.960H, D1, CIFRecord IntervalSMP, 4MA, 1080P.1050N, 720P.960H, D1, CIFRecord IntervalSMC, SCH, TSP, SNB, SONN/720P.960H, D1, CIFRecord IntervalSMC, SCH, SCH, SCH, SCH, SCH, SCH, SCH, SC	System	
Video and Audio      Video and Audio        Video and Audio      \$/16 Channel, BNC        HDCVI Camera      \$MP, 4MP, 1080P@25/30fps, 720P@25/30fps        AHD Camera      \$MP, 4MP, 1080P@25/30, 720P@25/30fps        CVBS Camera      PAL/NTSC        CVBS Camera      PAL/NTSC        CVBS Camera      PAL/NTSC        Audio In/Out      8CH: 8/L, BNC 16CH: 16/8, BNC        Audio In/Out      8CH: 8/L, BNC 16CH: 16/1, BNC        Two-way Talk      1 Mic In, 1 Mic Out, BNC        Recording      UCICI (12:55/H.264+/H.264        Record Rate      3MAPS, 720P (20:00, 720P (20:01, 0), 0), 0)        Record Rate      SMP.4.M-M.1000P, 1080N, 720P, 960H, D1, CIF        Record Rate      Main stream:the 1st & 2nd channel SM-N (1*-10fps), o), others 4M-N/1080P(12:15ps); 1080N/720P/960H/ D1/(1CI (12:55/95))        Bit Rate      32Xbps ~ 614Kbps Per Channel        Record Interval      1 * 60 min (default: 60 min), Pre-record: 1 * 30 sec, Post- record: 10 * 300 sec        Audio Compression      AAC(only for the 1st channel), G.711A, G.7111, PCM        Audio Sample Rate      8KHz, 15 bit. Per Channel        Audio Sample Rate      8KHz, 15 bit. Per Channel        Audio Sample Rate      8CH: 1 HDMI, 1VGA, 1 TV 1GCH: 2 PuAJS 2 Posto(2, 2560×1	Main Processor	Embedded Processor
Analog Camera Input    8/16 Channel, BNC      HDCVI Camera    5MP, 4MP, 1080P@25/30,720P@25/30fps      AHD Camera    5MP, 4MP, 1080P@25/30,720P@25/30fps      CVBS Camera    PAL/NTSC      CVBS Camera    PAL/NTSC      CVBS Camera    PAL/NTSC      Audio In/Out    8CH: 8/4 Channel, each channel up to 6MP      1GCH: 16/4, BNC    16CH: 16/4, DANC      Two-way Talk    11GCH: 16/4, DANC      Recording	Operating System	Embedded LINUX
HDCVi Camera      SMP. 4MP, 1080P@25/30fps, 720P@25/30fps        AHD Camera      SMP. 4MP, 1080P@25/30, 720P@25/30fps        TVI Camera      SMP. 4MP, 1080P@25/30, 720P@25/30fps        CVBS Camera      PAL/NTSC        IP Camera Input      SCH: 84 Channel, each channel up to 6MP        16CH: 16/1, BNC      SCH: 81/1, BNC        Compression      H.265+/H.265/H.264/H.264        Recording      Main stream:the 1st & 2nd channel 5M-N (1*10fps), others        Record Rate      SMP. 4MP, 1080P (15/5ps)        Record Rate      SMP. 4MP, 1080P (15/5ps)        Record Rate      SM-N, 4M-N, 1080P, 1080N, 720P, 960H, D1, CIF        Record Rate      SMS007(1*15/5ps)        Bit Rate      32Kbps~6144kbps Per Channel        Record Mode      Manual, Schedule (General, Continuous), MD (Video detction: Motion Detection, Video Loss, Tampering), Alarm, Stop        Audio Compression      AAC(only for the 1st channel), G.7110, G.7110, PCM        Audio Sample Rate      SHH, 10MI, 1VGA, 1TV        Recolution      SCH: 1 HDMI, 1VGA, 1TV        Resolution      SCH: 1	Video and Audio	
AHD CameraSMP, 4MP, 1080P@25/30, 720P@25/30fpsTVI CameraSMP, 4MP, 1080P@25/30, 720P@25/30fpsCVBS CameraPAL/NTSCCVBS CameraPAL/NTSCIP Camera Input8CH: 8/4 Channel, each channel up to 6MPAudio In/Out8CH: 8/1, BNCTwo-way Talk1 Mic In, 1 Mic Out, BNCRecordingSMP. 4MP, 1080P, 1080N, 720P, 960H, D1, CIFResolutionSM-N, 4M-N, 1080P, 1080N, 720P, 960H, D1, CIFRecord RateMain stream:the 1st & 2nd channel SM-N (1~10fps), others 4M-N/1080P(1~15fps); 1080N/720P/960H/ DI/CIF (1~25/30fps)Bit Rate32Kbps ~ 6144Kbps Per ChannelRecord ModeManual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, StopRecord Interval1~6 Got(H) for the 1st channel), G.7111A, G.711U, PCMAudio CompressionAAC(only for the 1st channel), G.711A, G.711U, PCMAudio Sample Rate8KHz, 16 bit Per ChannelAudio Sample Rate8CH: 1DMI, 1VGA, 1TV 15CH: 2 HDMI, 11920×1080, 1280×1024, 1280×720Interface8CH: HDMI, 11920×1080, 1280×1024, 1280×720 1280×1024, 1280×720Multi-screen Display8CH: HDMI, 11920×1080, 1280×1024, 1280×720 1280×1024, 1280×720NetworkCamera tilte, Time, Video loss, Camera lock, Motion detection; When IP extension mode ent enabled: 1/4/8/9/16 (SCH) HONI / YKA: 1920×1080, 1280×1024, 1280×720NetworkSCH: THDMI 1/920×1080, 1280×1024, 1280×720Multi-screen DisplaySCH: When IP extension mode ent enabled: 1/4/8/9/16 (SCH) HONI / YKA: 1920×1080, 1280×1024, 1280×720NetworkSCH: THD, P.Y	Analog Camera Input	8/16 Channel, BNC
Nu Camera  SMP. 4MP, 1080P@25/30, 720P@25/30.fps    CVBS Camera  PAL/NTSC    CVB Camera Input  SCH: 814 Channel, each channel up to 6MP 16CH: 16/1, BNC    Audio In/Out  SCH: 81, BNC 16CH: 16/1, BNC    Two-way Talk  1 Mic In, 1 Mic Out, BNC    Recording	HDCVI Camera	5MP, 4MP, 1080P@25/30fps, 720P@50/60fps, 720P@25/30fps
CVBS CameraPAL/NTSCIP Camera Input8CH: 8/4 Channel, each channel up to 6MP 16CH: 16/4 8 Channel, each channel up to 8MPAudio In/Out8CH: 8/1, BNC 16CH: 16/1, BNCTwo-way Talk1 Mic J, Mic Out, BNCRecording	AHD Camera	5MP, 4MP, 1080P@25/30, 720P@25/30fps
IP Camera Input    8CH: 844 Channel, each channel up to 6MP 16CH: 1648 Channel, each channel up to 8MP      Audio In/Out    8CH: 841, BNC 16CH: 161, BNC      Two-way Talk    IMI cin, 1 Mic Out, BNC      Recording    Imit cin, 1 Mic Out, BNC      Compression    H.265+/H.265/H.264+/H.264      Resolution    SM-N, M-N, 1080P, 1080N, 720P, 960H, D1, CIF      Record Rate    Main stream:the 1st & 2nd channel SM-N (1~10fps), others div/N/1080P(11=5fps); 1080N/720P/960H/ D1/CIF (1~15fps); 1090N/1200A,	TVI Camera	5MP, 4MP, 1080P@25/30, 720P@25/30fps
IP Camera input    16CH: 16+8 Channel, each channel up to 8MP      Audio In/Out    8CH: 8/1, BNC      IoCH: 16/1, BNC    1Mic In, 1 Mic Out, BNC      Recording       Compression    H.265+/H.265/H.264/H.264      Resolution    SM-N, 4M-N, 1080P, 1080N, 720P, 960H, D1, CIF      Main stream:the 1st & 2nd channel 5M-N (1~10fps), others    M4/M-M/1080P(1050N, 720P/960H/)      Record Rate    32Kbps~6144Kbps Per Channel      Record Mode    Manual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, Stop      Record Interval    1~60 min (default: 60 min), Pre-record: 1~30 sec, Post- record: 10~300 sec      Audio Sample Rate    8KH2, 16 bit Per Channel      Audio Sample Rate    8KH2, 16 bit Per Channel      Audio Sample Rate    8CH: 1HDMI, 1VGA, 1TV 16CH: 2HDMI, 1VGA, 1TV 16CH: 2HDMI, 1VGA, 1TV 16CH: 2HDMI, 1VGA, 1TV 16CH: 2HDMI, 1VGA, 1280×1024, 1280×720 1280×1024, 1280×720      Multi-screen Display    8CH: When IP extension mode enabled: 1/4/8/9/16 16CH: 2RI-45 Port	CVBS Camera	PAL/NTSC
Audio in/Out16CH: 16/1, BNCTwo-way Talk1 Mic In, 1 Mic Out, BNCRecordingCompressionH.265+/H.265/H.264+/H.264Resolution5M-N, 4M-N, 1080P, 1080N, 720P, 960H, D1, CIFRecord RateMain streamthe 1st & 2nd channel 5M-N (1~10fps), others 4M-N/1080P(1~15fps); 1080N/720P/960H/ D1/CIF (1~25/30fps)Bit Rate32Kbps ~ 6144Kbps Per ChannelRecord ModeManual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, StopRecord Interval1~60 min (default: 60 min), Pre-record: 1~30 sec, Post- record: 10~300 secAudio CompressionAAC(only for the 1st channel), G.711A, G.711U, PCMAudio Sample Rate8KH2, 16 bit Per ChannelAudio Sample Rate8CH: 11MDN, 1 VGA, 1TVResolutionSCH: HDMI, 1 VGA, 1TVInterface8CH: HDMI, 1 VGA, 1TVBesolutionSCH:HDMI 1:1920×1080, 1280×1024, 1280×720 15CH:HDMI 1:1920×1080, 128	IP Camera Input	
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Nain stream.the 1st & 2nd channel SM-N (1~10fps), others 4M-N/1080P(1~15fps); 1080N/720P/960H/ DI/CIF (1~25/30fps) Sub stream: DI/CIF(1~15fps)Bit Rate32Kbps ~ 6144Kbps Per ChannelRecord ModeManual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, StopRecord Interval1~60 min (default: 60 min), Pre-record: 1~30 sec, Post- record: 10~300 secAudio CompressionAAC(only for the 1st channel), G.711A, G.711U, PCMAudio Sample Rate8KHz, 16 bit Per ChannelAudio Sample Rate8KHz, 16 bit Per ChannelAudio Bit Rate64Kbps Per ChannelDisplayInterfaceInterface8CH: 1HDMI, 1 VGA, 1 TV 16CH: 2 HDMI, 1 VGA, 1 TVResolution8CH: HDMI 1:1920×1080, 1280×1024, 1280×720 16CH:HDMI 1:3840×2160, 2560×1440, 1920×1080, 1280×1024, 1280×1024, 1280×720Multi-screen Display8CH: When IP extension mode not enabled: 1/4/8/9 When IP extension mode enabled: 1/4/8/9/16 16CH: When IP extension mode enabled: 1/4/8/9/16 16CH: 2 RJ-45 Port (1000M) 16CH: 2 RJ-45 Port (1000M)Network8CH: 1.1PJ-45 Port (1000M) 1GCH: 2 RJ-45 Port (1000M) Net, 2 ResolutionNetwork Function8CH: 1.1PJ-55 Port (1000M) 1GCH: 2 RJ-45 Ports (1000M) 1GCH: 2 RJ-45 Ports (1000M)Network Function8CH: 1.1PJ-55 Port (1000M) 1GCH: 2 RJ-45 Ports (1000M) Alarm Server, 22,IP Search (Supports Dahua IP camera, DVR, NVS, etc.)Max. User Access128 users128 users128 users	Compression	H.265+/H.265/H.264+/H.264
Record Rate44-/V/1080P(1~15fps); 1080N/720P/960H/ D1/CIF(1~25/30fps) Sub steram: D1/CIF(1~15fps)Bit Rate32Kbps ~ 6144Kbps Per ChannelRecord ModeManual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, StopRecord Interval1~ 60 min (default: 60 min), Pre-record: 1~ 30 sec, Post- record: 10 ~ 300 secAudio CompressionAAC(only for the 1st channel), G.711A, G.711U, PCMAudio Sample Rate8KHz, 16 bit Per ChannelAudio Bit Rate64Kbps Per ChannelDisplaySCH: 1 HDMI, 1 VGA, 1 TV 16CH: 2 HDMI, 1 VGA, 1 TV 1280×720 HDMI 2/ VGA: 1920×1080, 1280×1024, 1280×720 1280×1024, 1280×720 HDMI 2/ VGA: 1920×1080, 1280×1024, 1280×720 1280×1024, 1280×720 HDMI 2/ VGA: 1920×1080, 1280×1024, 1280×720 HDMI 2/ VGA: 1920×1080, 1280×1024, 1280×720 1280×1024, 1280×720 HDMI 2/ VGA: 1920×1080, 1280×1024, 1280×720 1280×1024, 1280×720 HDMI 2/ VGA: 1920×1080, 1280×1024, 1280×720Multi-screen DisplaySCH: When IP extension mode entabled: 1/4/8/9/16/255NetworkSCH: H	Resolution	5M-N, 4M-N, 1080P, 1080N, 720P, 960H, D1, CIF
Record ModeManual, Schedule (General, Continuous), MD (Video detection: Motion Detection, Video Loss, Tampering), Alarm, StopRecord Interval1 ~ 60 min (default: 60 min), Pre-record: 1 ~ 30 sec, Post- record: 10 ~ 300 secAudio CompressionAAC(only for the 1st channel), G.711A, G.711U, PCMAudio Sample Rate8KHz, 16 bit Per ChannelAudio Bit Rate64Kbps Per ChannelDisplay8CH: 1 HDMI, 1 VGA, 1 TV 16CH: 2 HDMI, 1 VGA, 1 TV 16CH: 2 HDMI, 1 VGA, 1 TV 16CH: 2 HDMI, 1 YGA, 1 TVResolution8CH: HDMI 1:1920×1080, 1280×1024, 1280×720 1280×720 HDMI 2/ VGA: 1920×1080, 1280×1024, 1280×720, 1280×1024, 1280×	Record Rate	4M-N/1080P(1~15fps); 1080N/720P/960H/ D1/CIF (1~25/30fps)
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Audio Bit Rate64Kbps Per ChannelDisplayInterface8CH: 1 HDMI, 1 VGA, 1 TV 16CH: 2 HDMI, 1 VGA, 1 TVResolution8CH:HDMI 1:1920×1080, 1280×1024, 1280×720 16CH:HDMI 1:3840×2160, 2560×1440, 1920×1080, 1280×1024, 1280×720 HDMI 2 / VGA: 1920×1080, 1280×1024, 1280×7201920×1080, 1280×1024, 1280×720Multi-screen Display8CH: When IP extension mode not enabled: 1/4/8/9/16 16CH: When IP extension mode not enabled: 1/4/8/9/16 16CH: When IP extension mode not enabled: 1/4/8/9/16/25oSDCamera title, Time, Video loss, Camera lock, Motion detection, RecordingInterface8CH: 1 RJ-45 Port (1000M) 16CH: 2 RJ-45 Ports(1000M) 16CH: 2 RJ-45 Ports(1000M)Network FunctionHTTP, HTTPS, TCP/IP, IPV4/IPV6, Wi-Fi, 3G/4G, SNMP, UPPP, 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 Access128 usersSmart PhoneIPhone, iPad, Android	Audio Compression	AAC(only for the 1st channel), G.711A, G.711U, PCM
DisplayInterface8CH: 1 HDMI, 1 VGA, 1 TV 16CH: 2 HDMI, 1 VGA, 1 TVResolution8CH:HDMI 1:1920×1080, 1280×1024, 1280×720 16CH:HDMI 1:3840×2160, 2560×1440, 1920×1080, 1280×1024, 1280×720 HDMI 2 / VGA: 1920×1080, 1280×1024, 1280×7201920×1080, 1280×1024, 1280×720Multi-screen Display8CH: When IP extension mode not enabled: 1/4/8/9/16 16CH: When IP extension mode enabled: 1/4/8/9/16/25OSDCamera title, Time, Video loss, Camera lock, Motion detection, RecordingInterface8CH: 1 RJ-45 Port (1000M) 16CH: 2 RJ-45 Ports(1000M)Interface8CH: 1 RJ-45 Port (1000M) 16CH: 2 RJ-45 Ports(1000M)Network Function8CH: 1 RJ-45 Port (1000M) 16CH: 2 RJ-45 Ports(1000M)Network Function8CH: 1 RJ-45 Port (1000M) 16CH: 2 RJ-45 Ports(1000M)Network Function8CH: 1 RJ-45 Port (1000M) 16CH: 2 RJ-45 Ports(1000M)Max. User Access128 usersSmart Phone128 usersSmart PhoneiPhone, iPad, Android	Audio Sample Rate	8KHz, 16 bit Per Channel
Interface8CH: 1 HDMI, 1 VGA, 1 TV 16CH: 2 HDMI, 1 VGA, 1 TVResolution8CH: HDMI 1:1920×1080, 1280×1024, 1280×720 16CH: HDMI 1:3840×2160, 2560×1440, 1920×1080, 1280×1024, 1280×720Multi-screen Display8CH: When IP extension mode not enabled: 1/4/8/9 Vhen IP extension mode enabled: 1/4/8/9/16 16CH: When IP extension mode not enabled: 1/4/8/9/16 16CH: When IP extension mode enabled: 1/4/8/9/16 16CH: When IP extension mode enabled: 1/4/8/9/16 16CH: When IP extension mode enabled: 1/4/8/9/16 16CH: Net WorkNetwork8CH: 1 RJ-45 Port (1000M) 16CH: 2 RJ-45 Ports(1000M) 16CH: 2 RJ-45 Ports(1000M)Network FunctionHTTP, 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 Access128 usersSmart PhoneiPhone, iPad, Android	Audio Bit Rate	64Kbps Per Channel
Interface16CH: 2 HDMI, 1 VGA, 1 TVResolution8CH:HDMI 1:1920×1080, 1280×1024, 1280×720 16CH:HDMI 1:3840×2160, 2560×1440, 1920×1080, 1280×1024, 1280×720 HDMI 2 / VGA: 1920×1080, 1280×1024, 1280×7201920×1080, 1280×1024, 1280×720Multi-screen Display8CH: When IP extension mode not enabled: 1/4/8/9 Yhen IP extension mode enabled: 1/4/8/9/16 16CH: When IP extension mode not enabled: 1/4/8/9/16/25OSDCamera title, Time, Video loss, Camera lock, Motion detection, RecordingNetwork8CH: 1 RJ-45 Port (1000M) 16CH: 2 RJ-45 Ports(1000M)Interface8CH: 1 RJ-45 Port (1000M) 16CH: 2 RJ-45 Ports(1000M)Network FunctionHTTP, HTTPS, TCP/IP, IPv4/IPv6, Wi-Fi, 3G/4G, SNMP, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPP0E, DDNS, FTP, Alarm Server, P2P, IP Search (Supports Dahua IP camera, DVR, NVS, etc.)Max. User Access128 usersSmart PhoneiPhone, iPad, Android	Display	
Resolution16CH:HDMI 1:3840×2160, 2560×1440, 1920×1080, 1280×1024, 1280×720 HDMI 2 / VGA: 1920×1080, 1280×1024, 1280×7201920×1080, 1280×1024, 1280×7201920×1080, 1280×1024, 1280×720Multi-screen Display8CH: When IP extension mode not enabled: 1/4/8/9/16 16CH: When IP extension mode enabled: 1/4/8/9/16 (When IP extension mode enabled: 1/4/8/9/16/25oSDCamera title, Time, Video loss, Camera lock, Motion detection, RecordingInterface8CH: 1 RJ-45 Port (1000M) 16CH: 2 RJ-45 Ports(1000M) 16CH: 2 RJ-45 Ports(1000M)NetworkHTTP, 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 Access128 usersSmart PhoneiPone, iPad, Android	Interface	
Multi-screen DisplayWhen IP extension mode not enabled: 1/4/8/9/16 16CH: When IP extension mode enabled: 1/4/8/9/16/25OSDCamera title, Time, Video loss, Camera lock, Motion detection, RecordingNetworkInterfaceInterfaceSCH: 1 RJ-45 Port (1000M) 16CH: 2 RJ-45 Ports(1000M) 16CH: 2 RJ-45 Ports(1000M) 16CH: 2 RJ-45 Ports(1000M)Network FunctionHTTP, 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 Access128 usersSmart Phoneinhone, iPad, Android	Resolution	16CH:HDMI 1:3840×2160, 2560×1440, 1920×1080, 1280×1024, 1280×720 HDMI 2 / VGA: 1920×1080, 1280×1024, 1280×7201920×1080,
OSD  Recording    Network    Interface  8CH: 1 RJ-45 Port (1000M) 16CH: 2 RJ-45 Ports(1000M)    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	Multi-screen Display	When IP extension mode not enabled: 1/4/8/9 When IP extension mode enabled: 1/4/8/9/16 16CH: When IP extension mode not enabled: 1/4/8/9/16
Interface8CH: 1 RJ-45 Port (1000M) 16CH: 2 RJ-45 Ports(1000M)Network FunctionHTTP, 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 Access128 usersSmart PhoneiPhone, iPad, Android	OSD	
Interface  16CH: 2 RJ-45 Ports(1000M)    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	Network	
Network Function  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	Interface	
Smart Phone iPhone, iPad, Android	Network Function	RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE,DDNS, FTP, Alarm Server, P2P,IP Search (Supports Dahua IP camera, DVR,
	Max. User Access	128 users
Interoperability ONVIF 16.12, CGI Conformant	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 Tips	
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Diagnosis	
Alarm input	8/16	
Relay Output	6	
Playback and Backu	р	
Playback	8CH: 1/4/8 16CH: 1/4/8/16	
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	
Storage		
Internal HDD	8 SATA Ports, up to 10TB capacity	
eSATA	1 Port	
Auxiliary Interface		
USB	8CH: 4 USB Ports (4 USB 2.0) 16CH: 4 USB Ports (2 USB 2.0 , 2 USB 3.0)	
RS232	1 port, for PC communication & Keyboard	
RS485	1 Port, for PTZ Control	
RS422	1 Port, for PTZ Control	
Electrical		
Power Supply	AC100V-240V, 50/60Hz	
Power Consumption (Without HDD)	<35W	
Construction		
Dimensions	2U, 440mm×455mm×95mm (17.3" x 17.9" x 3.7")	
Net Weight	7kg (15.4 lb) (without HDD)	
Gross Weight	9.8kg (21.6lb)	
Installation	Desktop installation/Rack-mounted	
Environmental		
Operating Conditions	-10°C ~ +55°C (+14°F ~ +131°F), 10%~ 90% RH	
Storage Conditions	-20°C ~ +70°C (-4°F ~ +158°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		
	FCC: Part 15 Subpart B	
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	