

ONVR8HS-8P

8 Channel Compact 1U 8PoE H.265 Network Video Recorder













Functions

Smart H.265+

Smart H.265+ is the optimised implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

Automatic Network Replenishment (ANR) Technology

Network Video Recorders with the ANR function automatically store video data on an IP camera's SD card when the network is disconnected. After recovery of the network, the NVR automatically retrieves the video data stored on the camera.

DMSS/IDMSS

The DMSS app is available on the iOS App Store and Google Play. It makes surveillance easy and simple, allowing you to remotely access NVR devices, view live video, receive event push notifications, and search for recorded videos from an iPhone, iPad, or Android phone at anytime from virtually anywhere.



Technical Specification

System Main Processor Dual-Core embedded processor			
Operating System Embedded LINUX Audio & Video IP Camera Input 8 Channel Two-Way Talk N/A Display Interface 1 HDMI, 1 VGA Resolution 1920×1080, 1280×1024, 1280×720 Decoding Capacity 1ch@6MP 30fps, 4ch@1080P 25fps Multi-Screen Display 1/4 OSD Camera title, Time, Camera lock, Motion detection, Recording Recording Compression H.265+/H.264+ Resolution 6MP/5MP/4MP/3MP/1080P/720P/D1&etc. Record Rate 40Mbps Bit Rate 16Kbps ~ 20Mbps Per Channel Record Mode Manual, Schedule (Regular/Continuous), MD, Stop Record Interval 1-120 min (default: 60 min), Pre-record: 1-30 sec, Post-record: 10-300 sec Video Detection & Alarm Trigger Events Recording, PTZ, Tour, Video Push, Snapshot, and Screen Tips Video Detection Motion Detection, MD Zones: 396 (22 × 18), and Tampering Alarm Input N/A Relay Output N/A Playback & Backup Sync Playback 1/4/9 Search Mode Time/Date, MD and Exact Search (Accurate to second) Play Pause, Stop, Rewind, Fast Play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Backup Selection,	System		
Audio & Video IP Camera Input Two-Way Talk N/A Display Interface 1 HDMI, 1 VGA Resolution 1920×1080, 1280×1024, 1280×720 Decoding Capacity 1ch@6MP 30fps, 4ch@1080P 25fps Multi-Screen Display 1/4 OSD Camera title, Time, Camera lock, Motion detection, Recording Recording Compression H.265+/H.264+ Resolution 6MP/5MP/4MP/3MP/1080P/720P/D1&etc. Record Rate 40Mbps Bit Rate 16Kbps ~ 20Mbps Per Channel Record Mode Manual, Schedule (Regular/Continuous), MD, Stop Record Interval 1-120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec Video Detection & Alarm Trigger Events Recording, PTZ, Tour, Video Push, Snapshot, and Screen Tips Video Detection Motion Detection, MD Zones: 396 (22 × 18), and Tampering Alarm Input N/A Relay Output N/A Playback & Backup Sync Playback 1/4/9 Search Mode Time/Date, MD and Exact Search (Accurate to second) Play Pause, Stop, Rewind, Fast Play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Backup Selection,	Main Processor	Dual-Core embedded processor	
IP Camera Input Two-Way Talk N/A Display Interface 1 HDMI, 1 VGA Resolution 1920×1080, 1280×1024, 1280×720 Decoding Capacity 1ch@6MP 30fps, 4ch@1080P 25fps Multi-Screen Display N/A OSD Camera title, Time, Camera lock, Motion detection, Recording Recording Compression H.265+/H.264+ Resolution 6MP/5MP/4MP/3MP/1080P/720P/D1&etc. Record Rate 40Mbps Bit Rate 16Kbps ~ 20Mbps Per Channel Record Mode Manual, Schedule (Regular/Continuous), MD, Stop Record Interval 1-120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec Video Detection & Alarm Trigger Events Recording, PTZ, Tour, Video Push, Snapshot, and Screen Tips Video Detection Motion Detection, MD Zones: 396 (22 × 18), and Tampering Alarm Input N/A Relay Output N/A Playback & Backup Sync Playback 1/4/9 Search Mode Time/Date, MD and Exact Search (Accurate to second) Play, Pause, Stop, Rewind, Fast Play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Backup Selection,	Operating System	Embedded LINUX	
Two-Way Talk Display Interface 1 HDMI, 1 VGA Resolution 1920×1080, 1280×1024, 1280×720 Decoding Capacity 1ch@6MP 30fps, 4ch@1080P 25fps Multi-Screen Display OSD Camera title, Time, Camera lock, Motion detection, Recording Recording Compression H.265+/H.264+ Resolution 6MP/5MP/4MP/3MP/1080P/720P/D1&etc. Record Rate 40Mbps Bit Rate 16Kbps ~ 20Mbps Per Channel Record Mode Manual, Schedule (Regular/Continuous), MD, Stop Record Interval 1-120 min (default: 60 min), Pre-record: 1-30 sec, Post-record: 10-300 sec Video Detection & Alarm Trigger Events Recording, PTZ, Tour, Video Push, Snapshot, and Screen Tips Video Detection Motion Detection, MD Zones: 396 (22 × 18), and Tampering Alarm Input N/A Relay Output N/A Playback & Backup Sync Playback 1/4/9 Search Mode Time/Date, MD and Exact Search (Accurate to second) Play, Pause, Stop, Rewind, Fast Play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Backup Selection,	Audio & Video		
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Resolution 1920×1080, 1280×1024, 1280×720 Decoding Capacity 1ch@6MP 30fps, 4ch@1080P 25fps Multi-Screen Display 1/4 OSD Camera title, Time, Camera lock, Motion detection, Recording Compression H.265+/H.264+ Resolution 6MP/5MP/4MP/3MP/1080P/720P/D1&etc. Record Rate 40Mbps Bit Rate 16Kbps ~ 20Mbps Per Channel Record Mode Manual, Schedule (Regular/Continuous), MD, Stop Record Interval 1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec Video Detection & Alarm Trigger Events Recording, PTZ, Tour, Video Push, Snapshot, and Screen Tips Video Detection Motion Detection, MD Zones: 396 (22 × 18), and Tampering Alarm Input N/A Relay Output N/A Playback & Backup Sync Playback 1/4/9 Search Mode Time/Date, 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, Backup Selection,	Display		
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Multi-Screen Display 1/4 OSD Camera title, Time, Camera lock, Motion detection, Recording Recording Compression H.265+/H.264+ Resolution 6MP/5MP/4MP/3MP/1080P/720P/D1&etc. Record Rate 40Mbps Bit Rate 16Kbps ~ 20Mbps Per Channel Record Mode Manual, Schedule (Regular/Continuous), MD, Stop Record Interval 1-120 min (default: 60 min), Pre-record: 1-30 sec, Post-record: 10-300 sec Video Detection & Alarm Trigger Events Recording, PTZ, Tour, Video Push, Snapshot, and Screen Tips Video Detection Motion Detection, MD Zones: 396 (22 × 18), and Tampering Alarm Input N/A Relay Output N/A Playback & Backup Sync Playback 1/4/9 Search Mode Time/Date, 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, Backup Selection,	Resolution	1920×1080, 1280×1024, 1280×720	
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Compression H.265+/H.264+ Resolution 6MP/5MP/4MP/3MP/1080P/720P/D1&etc. Record Rate 40Mbps Bit Rate 16Kbps ~ 20Mbps Per Channel Record Mode Manual, Schedule (Regular/Continuous), MD, Stop Record Interval 1–120 min (default: 60 min), Pre-record: 1–30 sec, Post-record: 10–300 sec Video Detection & Alarm Trigger Events Recording, PTZ, Tour, Video Push, Snapshot, and Screen Tips Video Detection Motion Detection, MD Zones: 396 (22 × 18), and Tampering Alarm Input N/A Relay Output N/A Playback & Backup Sync Playback 1/4/9 Search Mode Time/Date, 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, Backup Selection,	OSD	·	
Resolution 6MP/5MP/4MP/3MP/1080P/720P/D1&etc. Record Rate 40Mbps Bit Rate 16Kbps - 20Mbps Per Channel Record Mode Manual, Schedule (Regular/Continuous), MD, Stop Record Interval 1-120 min (default: 60 min), Pre-record: 1-30 sec, Post-record: 10-300 sec Video Detection & Alarm Recording, PTZ, Tour, Video Push, Snapshot, and Screen Tips Video Detection Motion Detection, MD Zones: 396 (22 x 18), and Tampering Alarm Input N/A Playback & Backup Sync Playback 1/4/9 Search Mode Time/Date, 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, Backup Selection,	Recording		
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Bit Rate 16Kbps ~ 20Mbps Per Channel Record Mode Manual, Schedule (Regular/Continuous), MD, Stop Record Interval 1~120 min (default: 60 min), Pre-record: 1~30 sec, Post-record: 10~300 sec Video Detection & Alarm Trigger Events Recording, PTZ, Tour, Video Push, Snapshot, and Screen Tips Video Detection Motion Detection, MD Zones: 396 (22 × 18), and Tampering Alarm Input N/A Relay Output N/A Playback & Backup Sync Playback 1/4/9 Search Mode Time/Date, 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, Backup Selection,	Resolution	6MP/5MP/4MP/3MP/1080P/720P/D1&etc.	
Record Mode Manual, Schedule (Regular/Continuous), MD, Stop Record Interval 1–120 min (default: 60 min), Pre-record: 1–30 sec, Post-record: 10–300 sec Video Detection & Alarm Trigger Events Recording, PTZ, Tour, Video Push, Snapshot, and Screen Tips Video Detection Motion Detection, MD Zones: 396 (22 × 18), and Tampering Alarm Input N/A Relay Output N/A Playback & Backup Sync Playback 1/4/9 Search Mode Time/Date, 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, Backup Selection,	Record Rate	40Mbps	
Record Interval 1–120 min (default: 60 min), Pre-record: 1–30 sec, Post-record: 10–300 sec Video Detection & Alarm Recording, PTZ, Tour, Video Push, Snapshot, and Screen Tips Video Detection Motion Detection, MD Zones: 396 (22 × 18), and Tampering Alarm Input N/A Relay Output N/A Playback & Backup Sync Playback 1/4/9 Search Mode Time/Date, 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, Backup Selection,	Bit Rate	16Kbps ~ 20Mbps Per Channel	
Video Detection & Alarm Trigger Events Recording, PTZ, Tour, Video Push, Snapshot, and Screen Tips Video Detection Motion Detection, MD Zones: 396 (22 × 18), and Tampering Alarm Input N/A Relay Output N/A Playback & Backup Sync Playback 1/4/9 Search Mode Time/Date, 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, Backup Selection,	Record Mode	Manual, Schedule (Regular/Continuous), MD, Stop	
Trigger Events Recording, PTZ, Tour, Video Push, Snapshot, and Screen Tips Video Detection Motion Detection, MD Zones: 396 (22 × 18), and Tampering Alarm Input N/A Relay Output N/A Playback & Backup Sync Playback 1/4/9 Search Mode Time/Date, 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, Backup Selection,	Record Interval		
and Screen Tips Video Detection Motion Detection, MD Zones: 396 (22 × 18), and Tampering Alarm Input N/A Relay Output N/A Playback & Backup Sync Playback 1/4/9 Search Mode Time/Date, 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, Backup Selection,	Video Detection & Alarm		
and Tampering Alarm Input N/A Relay Output N/A Playback & Backup Sync Playback 1/4/9 Search Mode Time/Date, 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, Backup Selection,	Trigger Events		
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Playback & Backup Sync Playback 1/4/9 Search Mode Time/Date, 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, Backup Selection,	Alarm Input	N/A	
Sync Playback 1/4/9 Search Mode Time/Date, 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, Backup Selection,	Relay Output	N/A	
Search Mode Time/Date, 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, Backup Selection,	Playback & Backup		
Playback Function Play, Pause, Stop, Rewind, Fast Play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Backup Selection,	Sync Playback	1/4/9	
Next File, Previous File, Next Camera, Previous Camera, Full Screen, Backup Selection,	Search Mode	· · · · · · · · · · · · · · · · · · ·	
	Playback Function	Next File, Previous File, Next Camera, Previous Camera, Full Screen, Backup Selection,	

USB Device/Network

Third-Party Support	
Third-Party Support	Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolour, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, and more
Network	
Interface	1 RJ-45 port (10/100Mbps)
Ethernet Port	8 ports (IEEE802.3af/at)
PoE	HTTP/HTTPS, TCP/IP, IPv4/IPv6, RTSP, UDP, NTP,
Network Function	DHCP, DNS, IP Filter, IP Search (Support Dahua IP camera, DVR, NVS and etc.), P2P
Optical Fiber Interface	N/A
Max. User Access	128 users
Smart Phone	iPhone, iPad, Android
Interoperability	ONVIF, SDK, CGI Conformant
Storage	
Internal HDD	1 SATA III Port, up to 4TB capacity for each HDD
HDD Mode	Single
eSATA	N/A
Auxiliary Interface	
USB	2 ports (2 Rear USB2.0)
RS232	N/A
RS485	N/A
Electrical	
Power Supply	Single, DC48V/2A
Power Consumption	NVR: <4.29W (without HDD) PoE: Max 25.5w for single port, 72w in total
Environmental	
Operating Conditions	-10°C ~ +45°C (+14°F ~ +113°F), 86 ~ 106kpa
Storage Conditions	-20°C ~ +70°C (-4°F ~ +158°F), 0 ~ 90% RH
Construction	
Dimensions (W×D×H)	Cooper 1U, 260mm × 227mm × 47.6mm (10.24" × 8.94" × 1.87")
Net Weight	2kg (4.41 lb)(without HDD)
Gross Weight	2.5kg (5.51 lb)(without HDD)





Backup Mode