

# SMR8300

16-64 CH Megapixel RAID NVR



- Support 16/24/32/48/64 CH 1080P Recording
- Support 8-bay Hot-swappable SATA Hard Disk
- Support RAID 1, 5, 6 for Data Protection
- Built-in Real-Time Video Intelligence Detection
- Built-in Dual Display
- Support Surveon Control Center (CMS)
- In-House Design & Production
- 3-Year Warranty

Network Video Recorder

## Software Specifications

Live View	<ul style="list-style-type: none"> <li>• Real-time network camera discovery</li> <li>• Versatile views of various screen divisions</li> <li>• Multiple views supported</li> <li>• View patrolling for single or multiple views</li> <li>• Real time video/event alarm monitoring</li> <li>• Support 3 installation modes and 5 different fisheye dewarp display modes</li> <li>• Support live audio</li> </ul>	Recording Policy	<ul style="list-style-type: none"> <li>• Supports up to 96 channels megapixel recording (depends on product)</li> <li>• Continuous recording</li> <li>• Event-driven recording along with rules</li> <li>• Scheduled recording on daily or weekday basis</li> <li>• Post alarm recording 1-300 seconds</li> <li>• Pre-alarm recording 1-300 seconds</li> <li>• Support individual schedule recording</li> </ul>
eMAP	<ul style="list-style-type: none"> <li>• Drag-n-drop camera manipulation</li> <li>• Hierarchical and multiple layer map structure</li> <li>• Real time event alert</li> <li>• Instant live video of camera</li> </ul>	Rule Manager	<ul style="list-style-type: none"> <li>• Conditional recording/alert/notification</li> <li>• Email, FTP, SMS, popup window, PTZ, VI Panel, Relay output notifications</li> <li>• Sound, alarm, round-the-clock alerts</li> <li>• Support email template</li> </ul>
PTZ	<ul style="list-style-type: none"> <li>• Pan, tilt, and zoom operations (depends on camera)</li> <li>• Built-in PTZ control panel</li> <li>• Preset position (depends on camera)</li> <li>• Event-driven camera patrolling</li> <li>• Support OnScreen PTZ</li> </ul>	Remote Management	<ul style="list-style-type: none"> <li>• Remote operation &amp; management via VMS Client</li> <li>• Remote management and control via SCC &amp; SCC Client</li> </ul>
I/O	<ul style="list-style-type: none"> <li>• Digital I/O management</li> <li>• Support Ethernet Digital I/O Controller</li> </ul>	Remote Client	<ul style="list-style-type: none"> <li>• Web Client • iPhone client • Android Client</li> </ul>
Multiple Displays	<ul style="list-style-type: none"> <li>• Support dual monitors</li> <li>• Supports live view, playback, eMap functions (depends on product)</li> <li>• Direct display to secondary monitor(s)</li> </ul>	3rd Party IPCAM	<ul style="list-style-type: none"> <li>• Support ONVIF Profile S &amp; ONVIF Scan</li> <li>• ACTi, Arecont Vision, Axis, Dahua, Dynacolor, Hikvision, IQinvision, Mobotix, Panasonic, and more</li> </ul>
Investigation	<ul style="list-style-type: none"> <li>• Search by date, time, and camera</li> <li>• Search by VI event combinations</li> <li>• Search over multiple days</li> <li>• Search over multiple cameras</li> <li>• Different colored recording indicator on calendar</li> <li>• Search via built-in VI analyzer</li> <li>• Intuitive, video thumbnail search results</li> <li>• Cue-in, cue-out and loop playback</li> <li>• Quick playback by video thumbnails</li> <li>• 1/8, 1/4, 1/2, 1x, 2x, 4x, 8x play, pause, stop</li> <li>• AVI-formatted video clip export</li> <li>• Up to 16 channel synchronized playback (depends on product)</li> <li>• Support 3 installation modes and 5 different fisheye dewarp playback display modes</li> </ul>	Storage Expansion	<ul style="list-style-type: none"> <li>• Built-in RAID storage management</li> <li>• Recording to iSCSI/NAS</li> <li>• Backup to iSCSI/NAS</li> </ul>
Video Intelligence	<ul style="list-style-type: none"> <li>• General motion detection</li> <li>• Camera motion detection</li> <li>• Missing object detection</li> <li>• Foreign object detection</li> <li>• Intrusion detection</li> <li>• Tampering detection</li> <li>• Forbidden area detection</li> <li>• Virtual fence</li> <li>• Go in/out detection (configure on remote client)</li> <li>• Tailgating detection (configure on remote client)</li> <li>• Object counting (configure on remote client)</li> </ul>	General & Misc.	<ul style="list-style-type: none"> <li>• Video privacy mask</li> <li>• Digital zoom in, zoom out</li> <li>• Log viewer, log export mechanism</li> <li>• C client auto login</li> <li>• Automatic storage recycling</li> <li>• Client-server architecture</li> <li>• Customized authority account management</li> <li>• Digital watermark proofing</li> <li>• Support DDNS function</li> <li>• Support time synchronization with NTP server</li> <li>• Provide System and VI setup Help assistance</li> <li>• Support Customized Event management and log mechanism</li> <li>• Auto port mapping for internet connection</li> <li>• Support batch setting IPCAM parameters</li> <li>• Support Health Check function</li> <li>• Support standby recording (Failover)</li> <li>• Support offline recording with Surveon cameras</li> </ul>
		Language	<ul style="list-style-type: none"> <li>• Support multiple language on VMS including English, Czech, Dutch, French, German, Italian, Japanese, Korean, Persian, Polski, Portuguese, Russian, Slovak, Spanish, Turkish, Simplified Chinese, Traditional Chinese</li> </ul>

\* All specifications are subject to change without notice.  
 \* All brand names and registered trademarks are the property of their respective owners.

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## Performance Validation

Model	RAID Type	Stream1 Resolution	Stream1 FPS	Stream1 Bit Rate	Stream2 Resolution	Stream2 FPS	Stream2 Bit Rate	Recording Channels	Local Live View Channels	Remote Live View Channels	VI Channels
SMR8300A	RAID 6	1920x1080	30	4mbps	320x240	30	512kbps	64	N/A	128 (64x2)	9
SMR8300A	RAID 6	1920x1080	30	4mbps	320x240	15	512kbps	64	N/A	128 (64x2)	14
SMR8300A	RAID 6	1920x1080	15	4mbps	320x240	15	512kbps	64	1+8 *	128 (64x2)	N/A
SMR8300A	RAID 5	1920x1080	30	4mbps	320x240	30	512kbps	64	(6x6) + (6x6) **	N/A	N/A
SMR8300A	RAID 5	1920x1080	30	4mbps	320x240	30	512kbps	64	(2x2) + (2x2) ***	N/A	N/A
SMR8300E	RAID 6	1920x1080	30	4mbps	320x240	30	512kbps	32	N/A	64 (32x2)	16
SMR8300E	RAID 6	1920x1080	30	4mbps	320x240	30	512kbps	32	N/A	128 (32x4)	14
SMR8300E	RAID 6	1920x1080	30	4mbps	320x240	15	512kbps	32	N/A	320 (32x10)	N/A
SMR8300E	RAID 6	1920x1080	15	4mbps	320x240	15	512kbps	32	1+8 *	N/A	12
SMR8300E	RAID 6	1920x1080	15	4mbps	320x240	15	512kbps	32	1+8 *	128 (32x4)	6
SMR8300E	RAID 6	1920x1080	15	4mbps	320x240	15	512kbps	32	1+8 *	192 (32x6)	N/A
SMR8300E	RAID 5	1920x1080	30	4mbps	320x240	30	512kbps	32	6x6	N/A	0
SMR8300E	RAID 5	1920x1080	30	4mbps	320x240	15	512kbps	32	2x2	N/A	0
SMR8300E	RAID 5	1920x1080	15	4mbps	320x240	15	512kbps	32	(6x6) + (2+8) ****	N/A	0
SMR8300E	RAID 5	1920x1080	15	4mbps	320x240	15	512kbps	32	(2x2) + (2+8) *****	N/A	0
SMR8300E	RAID 5	1920x1080	30	4mbps	320x240	15	512kbps	16	(2x2) + (2+8) *****	N/A	0
NVR5316E1	RAID 6	1920x1080	30	4mbps	320x240	30	512kbps	32	6x6 **	N/A	0
NVR5316E1	RAID 6	1920x1080	15	4mbps	320x240	15	512kbps	32	2x2 ***	N/A	0
NVR5316E1	RAID 6	1920x1080	30	4mbps	320x240	30	512kbps	32	6x6 **	N/A	0
NVR5316E1	RAID 6	1920x1080	15	4mbps	320x240	15	512kbps	32	2x2 ***	N/A	0

\* 1x Stream1 + 8x Stream2

\*\* 36x2 Stream2

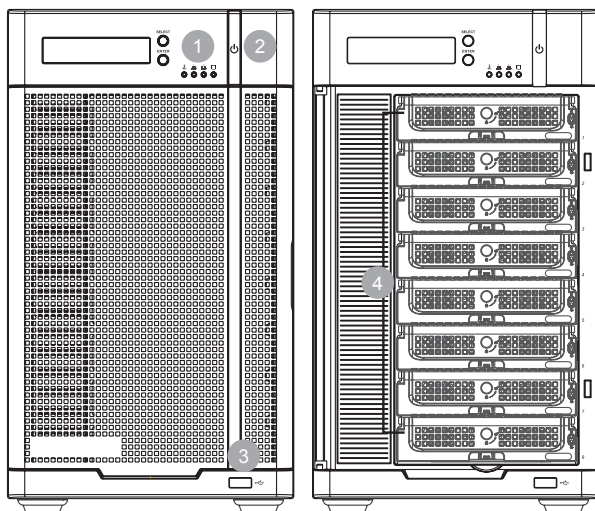
\*\*\* 4x2 Stream1

\*\*\*\* 2x Stream1 + 44x Stream2

\*\*\*\*\* 6x Stream1 + 8x Stream2

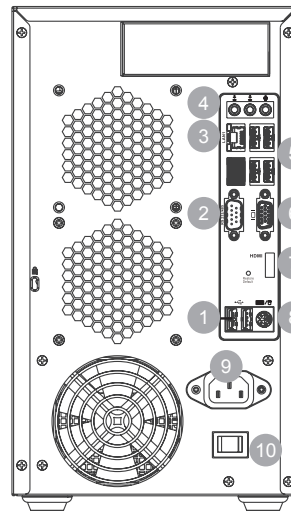
## Functions

Front View



- ① LED Indicators
- ② Power Switch
- ③ USB
- ④ Hot Swappable HD Tray

Rear View



- ① 2 x USB
- ② COM
- ③ 2 x GLAN Ethernet
- ④ Audio
- ⑤ 4 x USB
- ⑥ VGA
- ⑦ HDMI
- ⑧ PS/2KB
- ⑨ Power, AC Outlet
- ⑩ Power Switch

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Network Video Recorder

## Hardware Specifications

System Processor	SMR8300E: Intel® Core i3 Dual Core 3.3GHz SMR8300A: Intel® Core i7 Quad Core 3.4GHz
System Memory	DDR3 4GB (up to 16GB)
Operating System	Linux Embedded System
Storage	3.5" SATA HDDs x8; HDD hot swappable with LED status indicator
I/O Interface	• VGAX1; HDMIx1 • RJ-45: 2x Gigabit Ethernet • USB: 6x USB2.0 • COM: x1
RAID	Non RAID, 1, 5, 6
Electrical	• Input voltage: 100V~240V, 3.5A • Power Supply: 430W
Operating Environment	• Humidity: 5% to 80% (non-condensing) • Temperature: 5° to 40°C
LCD Panel	Yes
LED Indicator	Yes (Fan, Temperature, Power, HDD)
Dimensions	310(H) x 175(W) x 380(D) mm
Weight	8.9 Kg (w/o Hard Disk)
Certificate	CB, FCC / CE Class B, UL60959/ IEC 60950
Warranty	3 years

## Ordering Information

Model Name	Description
SMR8300E-16	16CH, 8 Bay Megapixel RAID NVR
SMR8300E-24	24CH, 8 Bay Megapixel RAID NVR
SMR8300E-32	32CH, 8 Bay Megapixel RAID NVR
SMR8300A-16	16CH, 8 Bay Megapixel RAID NVR, Core i7 CPU
SMR8300A-24	24CH, 8 Bay Megapixel RAID NVR, Core i7 CPU
SMR8300A-32	32CH, 8 Bay Megapixel RAID NVR, Core i7 CPU
SMR8300A-48	48CH, 8 Bay Megapixel RAID NVR, Core i7 CPU
SMR8300A-64	64CH, 8 Bay Megapixel RAID NVR, Core i7 CPU
ZCD10H-0010	SCC with 10 Host License
ZCD20H-0010	SCC with 20 Host License
ZCDULT-0010	SCC with Unlimited Host License

## SurveOne Specifications

### Browser-Based System Status Monitoring

System Monitoring	<ul style="list-style-type: none"> <li>NVR/camera system status overview</li> <li>NVR device/network/storage real-time status monitoring</li> <li>Camera real-time status monitoring</li> </ul>
Configurations	<ul style="list-style-type: none"> <li>Easy NVR/camera configuration copy</li> <li>Easy NVR/camera configuration backup/restore</li> </ul>
Event Log	<ul style="list-style-type: none"> <li>NVR/camera real-time event log information</li> <li>Critical error/error/warning multi-level event classifications</li> </ul>

## Optional Accessories

Part Number	Description
ZJOYSTICK-0050	CH Products, IP Desktop USB Joystick. 3 axes joysticks for P/T control, 12 HID buttons, USB 1.1 HID compliant, Easy to use and operate
ZETHIOBOX-0030	Ethernet I/O Box, Ethernet Digital I/O Controller, Digital Input x6, Digital Output x3 (for VMS 2.4.8)
ZPOE08-0030	8 Port 10/100Mbps 120W PoE Switch
ZPOE26-0030	24 Port 10/100Mbps + 2 Port GBE Combo (UTP/SFP) 380W PoE Switch
H72A1XA3XXX-0030	Hitachi, Enterprise, 2TB SATA HDD, 6Gb/s
H72A2XA2XXX-0030	Hitachi, Enterprise, 3TB SATA HDD, 6Gb/s
H72A3XA3XX1-0030	Hitachi, Enterprise, 4TB SATA HDD, 6Gb/ss
HSLT72A3200-00301	Toshiba, Desktop, 2TB Surveillance SATA HDD, 6Gb/s
HSLT72A3300-00301	Toshiba, Desktop, 3TB Surveillance SATA HDD, 6Gb/s
HSLT72A3400-00301	Toshiba, Desktop, 4TB Surveillance SATA HDD, 6Gb/s

\* Hard disk drives (HDD) are purchased separately. When selecting HDDs, HDD manufacturers always urge users to choose enterprise/surveillance grade drives for 24/7 surveillance operations to ensure system stability. The surveillance hard drives on our Approved Vendor List (AVL) are engineered to work continuously, withstand high-temperature fluctuations and equipment vibrations found in any typical surveillance application. To reduce errors occurred on your RAID data and the chance of the recording performance being affected, it is highly recommended to use HDDs listed on our Approved Vendor List (AVL) to ensure reliability. Find the AVL on our web page: <http://www.surveon.com/support/hardware.asp>



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