

SMR5016

16 CH Megapixel H/W RAID NVR



- 16 CH Smart Megapixel Video Recorder
- Built In Intel ICH9R Hardware RAID
- 5 x Hot Swappable Hard Disk
- Real Time VI Detection
- Low Power Consumption
- In House Design & Production
- Local Display
- 3 Year Warranty



Network Video Recorder

VMS Specifications

Live View	• Real-time network camera discovery • Versatile views of various screen divisions • HTML and image overlays • Multiple views supported • View patrolling for single or multiple views • Real time video/event alarm display • Instant playback • Video clip bookmarking	Remote Management	Full functional operation & management via standalone VMS Client
eMAP	• Drag-n-drop camera manipulation • Directional camera display • Hierarchical map structure • Real time event alert • Instant live video of camera • Multiple maps supported	3rd Party IPCAM	ACTi, AXIS, SONY, VIVOTEK, Arecont Vision, HIKVISION, IQinVision, MOBOTIX, Panasonic, Asoni, AVTECH, D-Link, SAMSUNG
PTZ	• Pan, tilt, zoom operations (dependent of camera) • Built-in, floating PTZ control panel • Preset position (dependent of camera) • Scheduled or continuous camera patrolling • Event-driven camera patrolling	General & Misc	• Video codec: H.264, MPEG4, MJPEG • Image enhancement • Video privacy mask • Digital zoom in, zoom out • Log viewer • Windows lockup • Client auto login • Digital I/O management • Automatic storage recycling • Client-server architecture • Guaranteed performance of long period recording • Configurable video retention period • Digital watermark proofing* • Language supported: English, French, German, Portuguese, Spanish, Simple Chinese, Traditional Chinese
Investigation	• Search by date, time, camera • Search by pre-defined recent time • Search by VI event combinations • Search over multiple days • Search over multiple cameras • Video clip bookmarking and commenting • Search via built-in VI analyzer • Customizable bookmark • Intuitive, video thumbnail search results • Cue-in, cue-out and repeat • Quick playback by video thumbnail • 1/8, 1/4, 1/2, 1x, 2x, 4x, 8x play, pause, stop • AVI-formatted video clip export		
Instant Playback	• Supported in video alarm, event alarm, view functions • Pre-defined playback durations • Video clip bookmarking		
Video Intelligence	• General motion detection • Missing object detection • Foreign object detection • Intrusion detection • Forbidden area detection • Tampering detection • Virtual fence* • Object counting*		

* Available in VMS 2.4.5

Performance Table

Encoding	Res.	FPS	Bit Rate	Max Channels (*)	Total Bit Rate (M)	Real Time VI (**)	Local Live View
H.264	D1	30	1	16	16	2	Yes
H.264	1.3M	15	2	16	12	2	Yes
H.264	1.3M	25	4	16	64	2	Yes
H.264	2M	20	6	16	96	2	Yes
H.264	3M	15	6	16	96	2	Yes

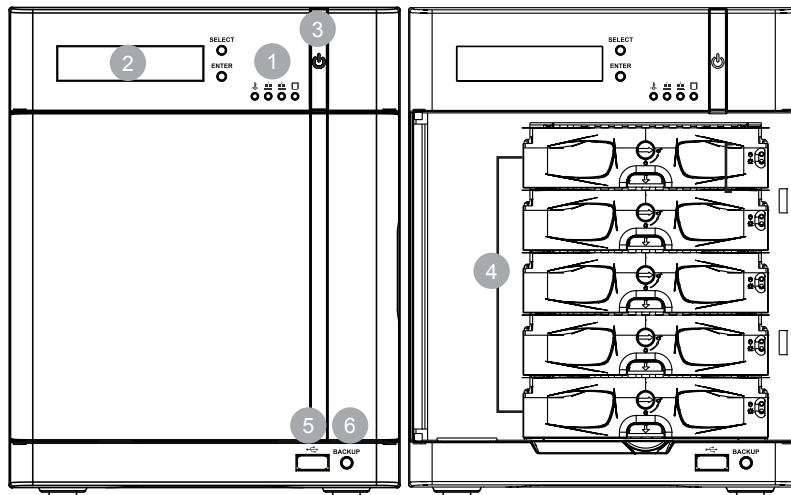
* IP Camera must support dual stream

** VI = missing object, forbidden area, intrusion detection

	SMR 5000 Series	Traditional PC NVR
Disk Drives	5 (hot-swappable)	Traditional PC NVR
RAID	HW/RAID	Usually 2 (internal)
Megapixel Channels	20	Usually < 10
Dimension	225(H) x 175(W) x 245(D) mm	436(H) x 200(W) x 478(D) mm
In-house vs. COTS	100% In-house	COTS

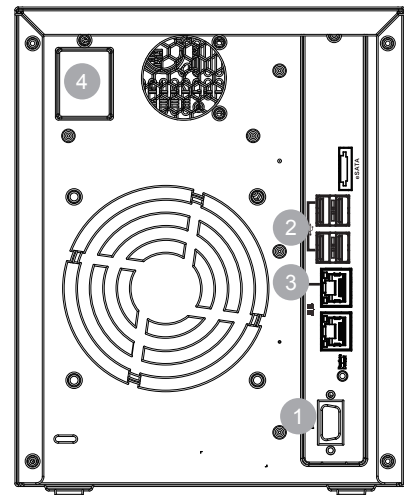
Part Names and Functions

Front View



- 1 LED Indicators
- 2 LCD Display
- 3 Power Switch
- 4 Hot Swappable HD Tray
- 5 USB
- 6 Video Back UP Button

Rear View



- 1 VGA
- 2 4 x USB
- 3 Ethernet
- 4 Power Input

Hardware Specifications

System Processor	Intel® ATOM525 Dual Core @ 1.8GHz
System Memory	DDR3 2GB
Chipset	Intel® ICH9R
DOM	4GB
Storage	3.5" SATA HDDs x5; HDD hot swappable
I/O Interface	- VGA: 1x D-Sub - RJ-45: 1x Gigabit Ethernet - USB: 4x USB2.0 - E-SATA: x1
H/W RAID	RAID 0, 1, 5
Electrical	- Input voltage: 100V~240V, 3.5A - Frequency: 47Hz~63Hz - Power consumption (in operation): 43W
Operating Environment	- In operating - Humidity: 5% to 80% (non-condensing) - Temperature: 5° to 40°C
LCD Panel	Yes
LED Indicator	Yes
Dimensions	225(H) x 175(W) x 245(D) mm
Weight	5.1 Kg / 6.5 Kg
Certificate	BSMI, CB, FCC / CE Class A, UL60959/ IEC 60950, CCC for power only, GOST

Ordering Information

Part Number	Description
SMR2006	6 CH, 30+ days recording w/ RAID 1
SMR2010	10 CH, 20+ days recording w/ RAID 1
SMR2016	16 CH, 10+ days recording w/ RAID 1
SMR5012	12 CH, 40+ days recording w/ RAID 5
SMR5016	16 CH, 30+ days recording w/ RAID 5
SMR5020	20 CH, 20+ days recording w/ RAID 5

* Recording at bit rate = 3-4Mbps, 12 hours per day

Optional Accessories

Part Number	Description
IH72A1A2322G0	Hitachi desktop SATA II, 2TB, 7200RPM