EMR8000U

Professional Megapixel HW RAID NVR

- Optimized Hardware RAID for Megapixel Recording
- Support 8 Hot-Swappable Hard Drives
- High Availability and Easy Maintenance with Redundant Modules
- Built-in D-Sub/HDMI for VGA Local Display
- In-house Design and Production with 3 Years Warranty
- Surveon Megapixel Quality Assurance Lab Certificated
- Pre-load Certified VMS

HW RAID	Hot-Swappable HDD	Dual Core	Dual Stream	VGA Local Display	HDMI	Video Analytics	Dual LAN

Megapixel solutions are the key trend in video surveillance with the advanced benefit of 6-time better image clarity. However, high I/O, huge capacity, and stability of the overall system are major challenges for system integrators. Surveon's Certified Megapixel Recorders, allied with the most qualified partners in the industry, provide a high performance and reliable platform. Built-in with the HW RAID, the EMR8000U secures the multi-channel megapixel recording performance. The industrial grade design of 8 HDD, duo display, and 2 GLAN have made EMR8000U an absolute choice over the commercial PCs and the ideal solution for mission critical projects, such as hotel, school, bank and factory.

Performance Validation

| Model	Total Channels	Camera Resolution	Camera Compression	Camera Bit Rate	FPS	Smart Client View Mode	Validation*
EMR8008U	8	1080P	H.264	6Mbps	25	Medium	PASS
EMR8016U	16	1080P	H.264	6Mbps	25	Medium	PASS
EMR8032U	32	1080P	H.264	6Mbps	25	Medium	PASS
EMR8040U	40	1.3M	H.264	6Mbps	25	Medium	PASS
EMR8048U	48	1.3M	H.264	6Mbps	25	Medium	PASS

*Remarks:
- Tested with Milestone XProtect® Enterprise.
- RAID 5 rebuild and degrade mode will decrease the recording performance depending on the number of channels.

Recording Days

Number of Channels	2M Cameras*	Max Recording Days (12 hrs/day)	Max Recording Days (24 hrs/day)
48	1920 x 1080	13	7
32	1920 x 1080	19	10
25	1920 x 1080	25	12
16	1920 x 1080	39	20

* Base on 25 FPS @ 6 Mbps - Tested with Milestone XProtect® Enterprise.

EMR Hardware RAID Management

- **High Reliability RAID Protection** -the VMS and record data can protect with RAID to provide the maximum reliability for the 24/7 application.
- **Event Notification** - the EMR RAID system will record Administrator activity or RAID related errors to the Web GUI's Event Log. This feature allows the administrator to track and diagnose storage related problems. The Web GUI can also be configured to send event log data via e-Mail.
- **Maintenance Tasks** – the Web GUI allows the administrator to schedule regular maintenance sessions. Routine RAID Maintenance is essential to data security.
- **Rebuild Priority** – this feature allows the administrator to control and streamline system resources during a RAID recovery procedure.
- **Storage Health Inspector (SHI)** - the Storage Health Inspector section provides real-time device related information including temperature readings, bad sector counts, and access to SMART data.

Surveon
Complete Megapixel Solutions
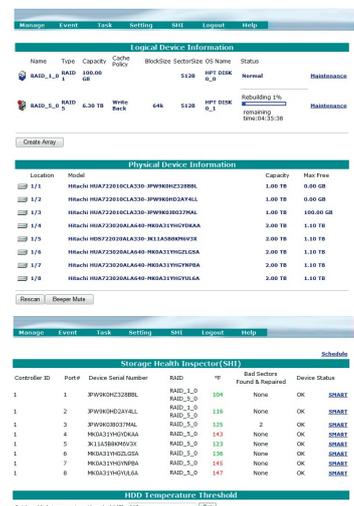
EMR8000U

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Part Names and Functions

Front View
EMR8000U Series
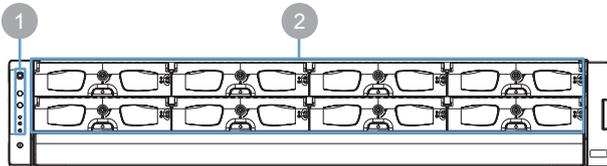
1 LED Indicators   2 Hard Drive Slots

Rear View
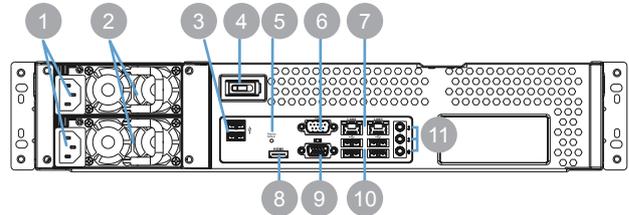
1 Power Socket	5 Restore Button	9 VGA Port
2 Power Supply	6 COM Port	10 USB Port x4
3 USB Port x2	7 Ethernet Ports x2	11 Audio Port
4 Power Switch	8 HDMI Port	

Hardware Specifications

|	
System Processor	Intel® Core i3 Processor @ 3.10 GHz
System Memory	DDR3 4GB
Chipset	Intel® Q67 Express Chipset-Embedded
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
H/W RAID	RAID 0, 1, 5, JBOD
Electrical	• Input Voltage: 100~240VAC, 3.5A • Frequency: 47~63Hz • Power Consumption (in operation): 430W
Operating Environment	In operating • Humidity: 5% to 80% (non-condensing) • Temperature: 5º to 40ºC
LCD Panel	Yes
LED Indicator	Yes (Fan, Temperature, Power, HDD)
Dimensions	88.15(H) x 445(W)x 651.15(D) mm
Weight	8.9 Kg (w/o Hard Disk)
Certificate	BSMI, CB, FCC / CE Class B, UL60959/ IEC 60950, CCC for power only, GOST

Ordering Information

Barebone	
Part Number	**Description**
EMR800UA1	EMR8000U HW RAID NVR Platform
O.S. Pack & XProtect Installation Kit	
Part Number	**Description**
EMR8000UA2A-0035	8 Bay Megapixel HW RAID NVR , Duo LAN, VGA with Dual Display (D-Sub/HDMI), Pre-load Milestone VMS w/o License, w/ Windows 7 Professional
EMR8000UA2C-0035	8 Bay Megapixel HW RAID NVR , Duo LAN, VGA with Dual Display (D-Sub/HDMI), Pre-load Milestone VMS w/o License, w/ Windows 7 Ultimate, Multi Language
Milestone XProtect License*	
Part Number	**Description**
XLIC0XXXBYYY**	Milestone XProtect® Server License*** with Milestone XProtect® Camera License
XLIC0XXXCYYY**	Additional Milestone XProtect® Camera License

* For Greater China Only
**XXX= Milestone XProtect Products (XProtect® Essential / Express / Professional / Enterprise / Corporate)
   YYY= Number of Camera Channels
***Milestone XProtect® Essential /Express Server Base License, Preload with 2 Camera License

Optional Accessories

Part Number	Description
H72A0HA2321-0030	Hitachi, Enterprise, 1TB SATA HDD, 3Gb/s
H72A1HA2321-0030	Hitachi, Enterprise, 2TB SATA HDD, 3Gb/s
H72A1XA3XXX-0030	Hitachi, Enterprise, 2TB SATA HDD, 6Gb/s
H72A2XA2XXX-0030	Hitachi, Enterprise, 3TB SATA HDD, 6Gb/s
H72A1XA3XXDX-0030	Hitachi, Desktop, 2TB SATA HDD, 6Gb/s
H72A2XA3XXDX-0030	Hitachi, Desktop, 3TB SATA HDD, 6Gb/s

EMR8000U Series Part Numbers

Number of Camera Channels*

EMR	80	32	P

EMR Series
90: Enterprise Rack Mount NVR
80: 8 Bay Desktop NVR
50: 5 Bay Desktop NVR
20: 2 Bay Desktop NVR

Milestone XProtect Products
S: XProtect® Essential
X: XProtect® Express
P: XProtect® Professional
E: XProtect® Enterprise
C: XProtect® Corporate

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