

RAPID EYE™ MULTI-MEDIA v7

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16 CHANNEL DIGITAL VIDEO RECORDING (DVR) SYSTEM

The family of Rapid Eye™ Multi-Media DVRs is more versatile than ever. Three powerful hardware platforms are perfect for a diverse range of installations. The Rapid Eye Multi Media Series uses v7 software to expand beyond traditional time-lapse type recording to provide event-driven digital recording and remote streaming. The flagship Rapid Eye Multi-Media DSP v7 offers 16-channel real-time recording and live local viewing. The Rapid Eye Multi-Media v7 is a more economical 16-channel system perfect for a large number of remote installations that require remote management and event driven recording. The Rapid Eye Multi-Media LT v7 offers the same software features in a smaller, more economical configuration for four or nine cameras. Together, the Rapid Eye family offers seamless remote operation as well as unprecedented flexibility to meet virtually any needs.

Rapid Eye Multi-Media v7 offers all the power of the Rapid Eye family in a 16 channel configuration. Features of the system include superior time-lapse recording performance. Accelerated event-driven response recording with 64 user definable rules allows the user to pre-define events which require higher frame rates and resolution to minimize bandwidth and maximize storage capabilities. Network Address Translation (NAT) allows many units to share a single IP address, eliminating the need for dynamic IP addresses for each unit.

The Rapid Eye Multi-Media v7 offers easier navigation and control. Enhanced local and remote PTZ control allows movement of PTZ cameras with a simple click of the mouse. The hierarchical site tree facilitates user definable grouping and supports multiple levels of nesting within a site branch. Generating a clip remotely is faster and easier with the automatic inclusion of Rapid Eye Multi-Media Clip Player software on the evidence CD.

Market Opportunities

The Rapid Eye Multi-Media v7 uses video verification to integrate with existing physical security infrastructure. It works seamlessly with Honeywell's WIN-PAK® SE, WIN-PAK® PE, NetAXS™ and Pro-Watch® access control software platforms. For retail markets, its built-in data capture capability makes it extremely useful as a loss prevention analysis tool. Whether the market is commercial, industrial, municipal, financial, or retail, when the need is for remote video surveillance, the solution is Rapid Eye Multi-Media v7.

Features

Hardware

- 16 looping video inputs
- 60 ips global rates at 2 CIF resolution (NTSC/PAL)
- Storage capacity from 500, 1000, 2000, 3000, 4500 & 6250 camera days
- 4 shock mount field replaceable hard drive bays
- Optional CD-RW drive for local clip generation
- Dual audio channels (bi-directional and VoIP)
- 16 alarm inputs
- 8 control outputs
- 2 Serial ports
- VxWorks™ – secure, stable multi-tasking real-time OS

Software

- Resolutions: selectable per camera
 - Independently for live and recording
- Event-driven response recording
- Enhanced PTZ control and configuration
- Expanded POS capability up to 16 devices
- Hierarchical site tree – group by region, location, etc.
- Network Address Translation (NAT)
 - TCP/IP Port Forwarding
 - Multiple units share an IP address
- DHCP requires DHCP server and WINS/DNS services
- SNTP client automatically synchronizes to SNTP servers
- RapidSearch™ for video evidence by events, data, motion or alarm



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FEATURES

The system consists of three major components which include:

- **Digital Video Recorder (DVR)** and the **LocalView** interface
- **ADMIN Software**, the workstation/server-based administration tool capable of enterprise-wide site and user management
- **VIEW Software**, a feature-rich, workstation-based remote operator program

The combination of ADMIN and VIEW truly differentiates the Rapid Eye system from the competition.

LocalView

- Live display of a single camera, all 16 cameras or any camera combination
- PTZ control – Vector driven within a video stream or full featured via PTZ controller icon
- Interactive user controllable accelerated recording rates (Boost)
- Public Display mode provides a simple cost effective solution for public view monitoring
- Review recorded video, audio and data or create evidence clips using Clip Builder tab
- Review evidence clips using Clip Player tab
- Basic system and camera configurations can be defined using System tab
- Four levels of password protected user access and control

ADMIN Software

HRM7ADMIN

(single license included with DVR, can also be ordered separately)

- Capable of enterprise-wide site, user, tour and alarm station management
- Windows®-based administration software has a user friendly GUI to create the Rapid Eye database
- Can be hosted on a network server using common networked database protocols such as Access, SQL or MSDE
- Makes controlling and administering a multi-site, multi-user, enterprise wide system fast, easy and secure

VIEW Software

HRM7VIEW

(single license included with DVR, can also be ordered separately)

- Feature rich, Windows®-based operator software has a user friendly GUI for complete remote operations and configuration of one or many different DVRs simultaneously
- Observe and monitor live or recorded video, audio and data from any DVR listed in the Site tab. Connect to multiple sites simultaneously using multiple methods from the same or multiple workstations
- Connect to the same DVR site using multiple connection methods
- Supports LAN/WAN networks and dial-up connections with TCP/IP protocol
- Control multiple PTZ cameras, monitor two independent 2-way audio channels, monitor up to 16 streams of POS, ATM and/or Alarm panel generated data, configure 16 alarm inputs and control eight auxiliary outputs – all from within a single VIEW session

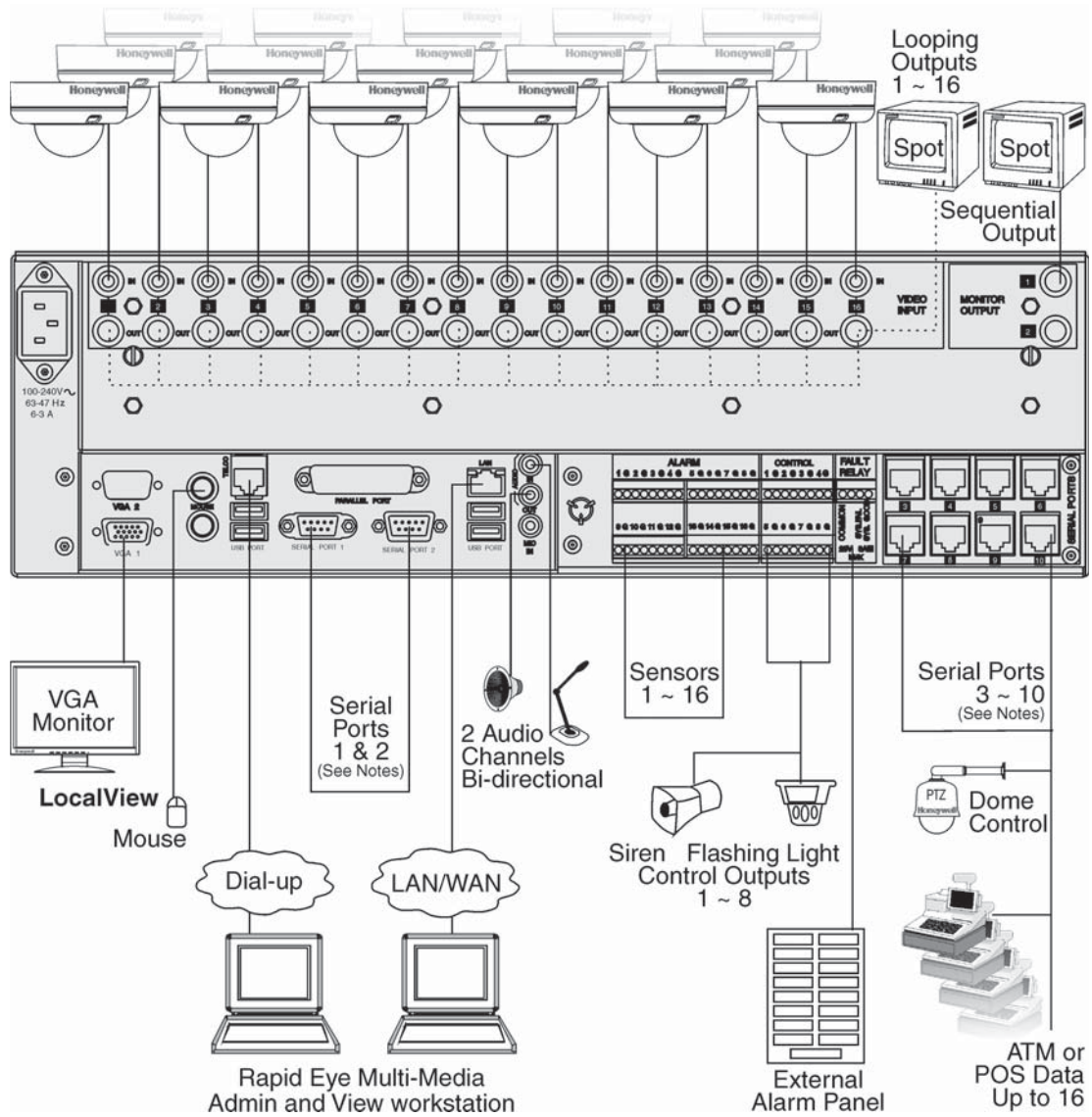
ADMIN and VIEW Workstation Requirements (Minimum requirements)

- IBM-compatible PC
- Windows® 98, NT, ME, 2000 or XP
- Pentium III class or better CPU (600 MHz)
- 128 MB RAM, 256 MB RAM or greater with XP
- 200 MB of free hard disk space, plus adequate storage for video clips
- CD-ROM (for software installation and upgrades)
- Video card(s) and monitor(s) that support XGA mode 1280 x 1024 (recommended minimum)
- Mouse or other compatible pointing device

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SYSTEM DIAGRAM



SYSTEM DIAGRAM NOTES

Serial Port 1:

DB9 (M) RS-232 only; used for data capture, external modem or PTZ control with an additional code conversion device.

Serial Port 2:

DB9 (M) RS-232 only; HyperTerminal connection, external modem or PTZ control with an additional code conversion device

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SPECIFICATIONS

Rapid Eye VIEW Software	
Site connections per PC	64 sites
Video streams per PC	1024 streams
Sessions Maximum per DVR	Live Video (all users) 32 streams
Users Viewing Live Video (and activating outputs)	10 sessions
Users Retrieving Video	10 sessions
Users Accessing Events	10 sessions
Users Accessing Alarms	10 sessions
Users Accessing Maintenance	1 session
DVR Unit	
Video Standard	NTSC/EIA or PAL/CCIR
Video Format	160 x 120, 320 x 240, 640 x 240, 640 x 480, 704 x 480 (NTSC) 192 x 144, 384 x 288, 704 x 288, 704 x 576 (PAL)
Colors	24-bit true color
Recording and Transmission Compression Algorithm	Modified H.261/263 (REM proprietary)
Record Mode	(FIFO) Continuous buffer
Recording Capacity	500 – 6250 Camera Days
Recording Rate (ips)	60 @ 2CIF global
Video Quality Settings	6 – 10 (low – high)
Video Motion Detection	Configurable to sense mass and motion multiple within regions of interest
Video Motion Search	Configurable post event motion search within multiple regions of interest
POS/ATM or Alarm Data	16 – Streams (max) with NETPIT
Event Recording and Reporting	Session, System, Inputs, Outputs, Video, Motion and POS/ATM data
Mass Storage Power Off “Cold Swap”	4 – Field-upgradeable hard drive
Removable Media Power Off “Cold Swap”	1 – Field upgradeable CD/RW bay
Front Panel Control and Display Module (Lockable Front Panel)	Power Switch, 3 – Status LEDs 2 x 16 Status LCD
SNTP Client	Synchronize DVR to SMTP servers
DHCP Enabled	Network support for DHCP, WINS or DNS name servers
TCP/IP Port Forwarding	Multiple DVRs share same IP address
PTZ Dome Control	
Local	Mouse control only
Remote	Mouse control and configuration
Protocols Support	7 major protocols, Over 50 using Bossware (requires additional hardware)

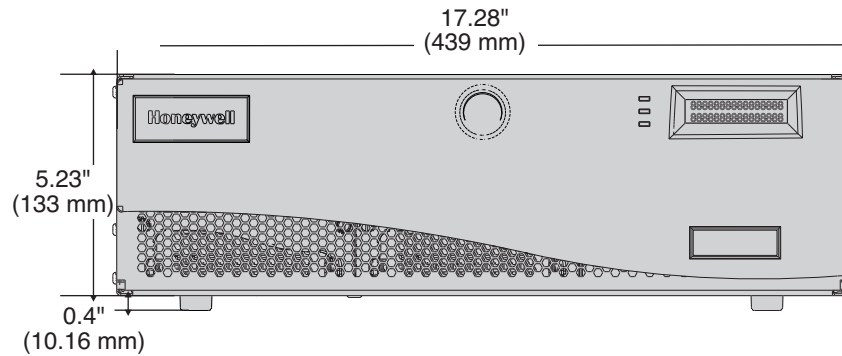
Rear Panel Connections	
Video Input	16 – Looping, BNC 1.0 – Vp-p @ 75 Ohms
Video Output	1 – Spot or switcher, BNC 1.0 – Vp-p @ 75 Ohms
Audio Input/Output	2 – Line level, 3.5 mm jack
Alarm/Control Inputs General Purpose	16 – TTL level dry contacts User configurable NO, NC, EOL 3.5 mm terminal block
Control Outputs	8 – 5V TTL @ 50 mA max 5V each output 3.5 mm terminal block
Fault Relay	DPDT Form C relay 28V, 3 A
Serial Ports	2 – RS232 DB9 (M)
Modem/Telco	V.90 multi-protocol Standard RJ-11 Interface
Networking	10/100 base T Ethernet, Standard RJ-45 Interface
Dual VGA Outputs	800 x 600 monitor LocalView Interface
AC Power	100-240 VAC 50/60 Hz IEC-320 connector Regional power cord included
Electrical	
Input Voltage	115 – 240 VAC, 60 – 50 Hz
Operating Voltage	115V/230V Auto sensing
Power Consumption	350 W (maximum)
Mechanical	
Dimensions (W x H x D)	17.3" x 5.23" (3U) x 18.8" 440 mm x 133 mm x 478 mm
Weight	Unit: 43 lb (19.5 kg) Shipping: 55 lb (25 kg)
Construction	Housing: Steel chassis Finish: Black matte paint
Environmental	
Temperature	Operating: 40°F to 105°F (5°C to 40°C) Storage: 14°F to 150°F (-10°C to 65°C)
Relative Humidity	Operating: 0%-90%, non-condensing
Regulatory	
Emissions	FCC: Part 15, Class B CE: EN 61000-6-3:2001 CE: EN 61000-3-2:2000
Immunity	CE: EN 50130-4:1995 +A1:1998
Safety U.S. and Canada International	UL, cUL Listed UL 60950-1:2003 IEC/EN 60950-1:2001

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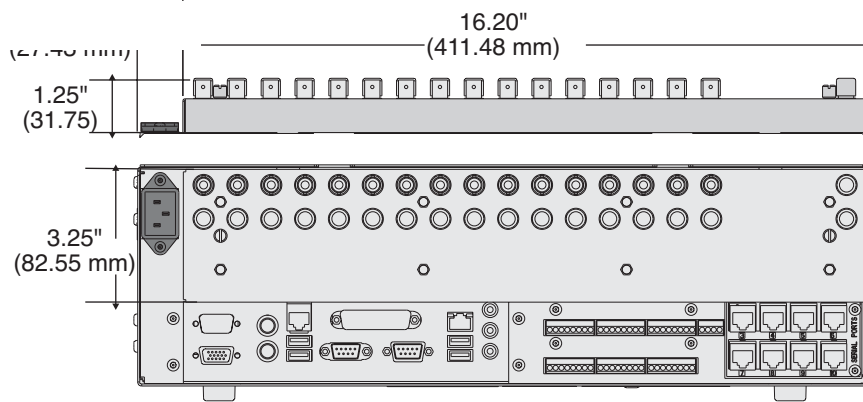
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SYSTEM DIMENSIONS

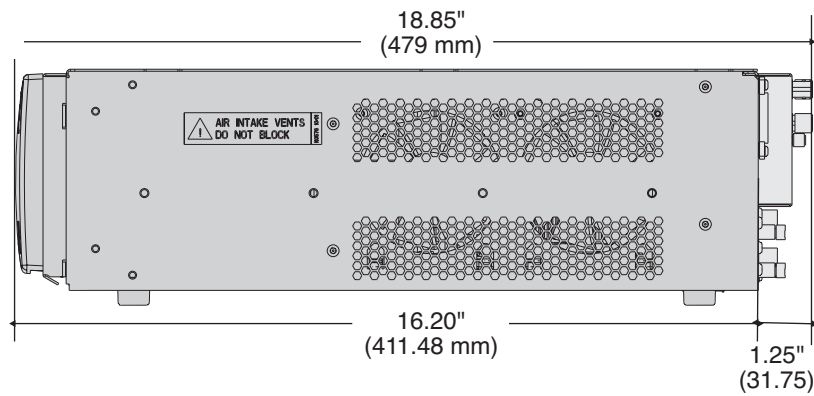
Front View



Back View



Side View



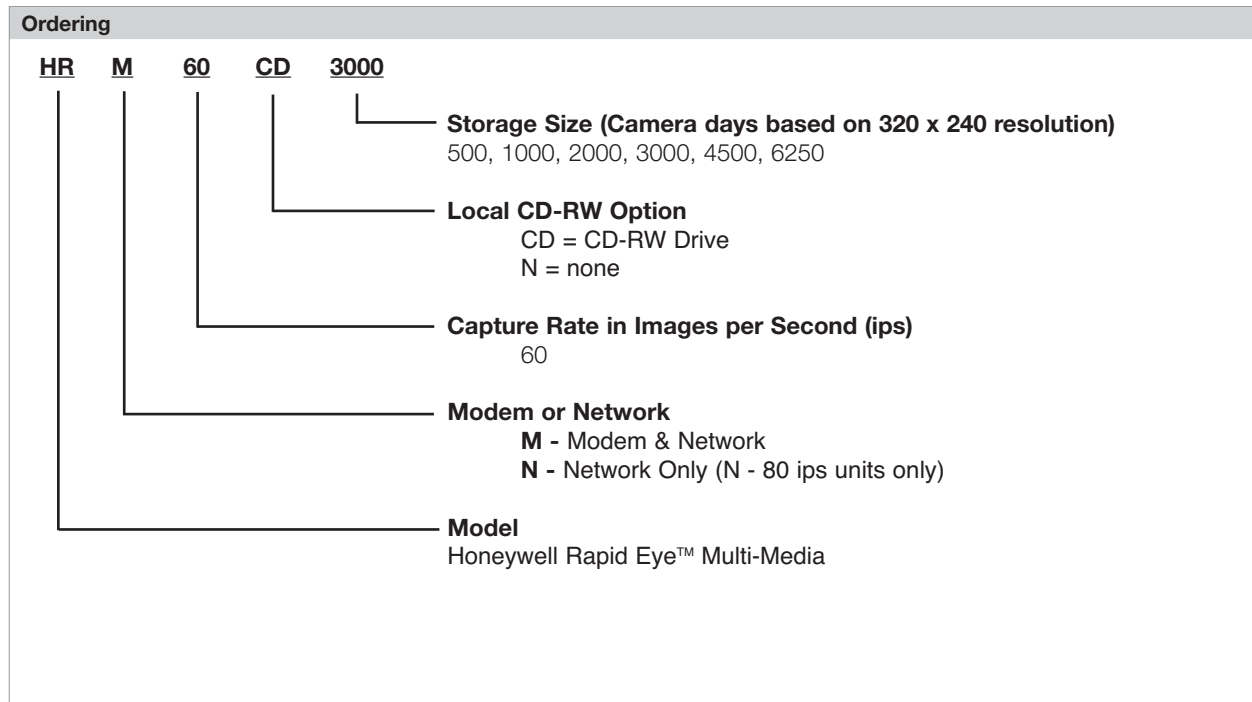
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ACCESSORIES AND ORDERING

Rapid Eye Accessories	
HRMCDRW	REMM CD-RW drive kit
HRM7HD250P	v7 system/program hard drive REMM DSP/250 GB or REMM/1250 camera days
HRM7HD500P	v7 system/program hard drive REMM DSP/500 GB or REMM/2500 camera days
HRM7HD250	Expansion hard drive REMM DSP/250 GB or REMM/1250 camera days
HRM7HD500	Expansion hard drive REMM DSP/500 GB or REMM/2500 camera days
HRPSARE2EARS	Rackmount ears for REMM or REMM DSP
HRMSLIDE	Rackmount slide kit for EMM or REMM DSP
HRPSLOCK	Lock for front lid
HVBNETPITPOS	TCP/IP to RS232 PIT for POS data capture
HVBPIT4POS	Four port RS232 PIT for POS data capture
HVBPIT44-US	RS422 dome PIT, Bossware

Recommended Accessories	
HCSP1	Surge protector, video/24 VAC
HDSP1	Surge protector, data/video/24 VAC
AAC232/485	Code converter RS232 to RS485
HDCCD8TP	Code distribution unit 8 port twisted pair RS232 to RS485
Software Part Numbers	
HRM7ADMIN	ADMIN and VIEW software and manuals
HRM7VIEW	VIEW remote software and manuals
HRM7CLIP	Clip player software
HRM7LICRU1	REMM recorder v7 upgrade, 1 DVR license
HRM7LICRU5	REMM recorder v7 upgrade, 5 DVR licenses
HRM7LICRU10	REMM recorder v7 upgrade, 10 DVR licenses
HRM7LICRU25	REMM recorder v7 upgrade, 25 DVR licenses
HRM7LICRU50	REMM recorder v7 upgrade, 50 DVR licenses
HRM7LICRU100	REMM recorder v7 upgrade, 100 DVR licenses



NOTE: Honeywell reserves the right, without notification, to make changes in product design or specifications.

Honeywell Security

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