

## Rapid Eye™ Multi-Media DSP v9

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### 16-CHANNEL REAL-TIME DIGITAL VIDEO RECORDER (DVR) SYSTEM

The family of Rapid Eye™ Multi-Media DVRs is more versatile than ever. Four powerful hardware platforms are perfect for a diverse range of installations. The flagship Rapid Eye Multi-Media DSP v9 offers 16-channel real-time recording and live local viewing. The newest addition is Rapid Eye™ Active Alert® combining intelligent video analytics with the Multi-Media DSP platform. The Rapid Eye Multi-Media v7 is a more economical 16-channel system that's ideal for remote applications with a large number of 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 DSP v9 features real-time recording and live local viewing. The system is designed to record, search and transmit video, audio, and data transactions while simultaneously providing users with both live and post event evaluation. Benefits of the system include a highly interactive, full local graphical user interface (LocalView) with vector driven pan/tilt/zoom mouse control. The Rapid Clip feature makes remote clip generation to a USB device or the internal DVD-RW fast and easy. By using a Linux operating system, Rapid Eye Multi-Media DSP v9 is extremely secure, stable and reliable with standard storage capacity from 250 GB to 1 TB, expandable up to 4 TB.

#### Market Opportunities

The Rapid Eye Multi-Media DSP v9 seamlessly integrates 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 includes remote video surveillance, the solution is Rapid Eye Multi-Media DSP v9.

#### Features

##### Hardware

- Real-time recording rates at CIF resolution: 480/400 global (NTSC/PAL)
- Up to 4CIF recording and/or viewing resolution
- Live viewing using LocalView
- DVD-RW drive for local clip generation
- 16 looping video inputs
- Dual audio channels (Bidirectional and VoIP)
- 16 alarm inputs, 8 control outputs, 8 serial ports
- 4 field replaceable/removable hard drive trays
- LINUX – secure, stable multi-tasking real-time OS
- 2 Front panel USB ports for quick easy access

##### Software

- Resolutions: selectable per camera – independently for live and recording
- Event-driven response recording
- 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
- IntelliBus™ protocol support



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### FEATURES

The system consists of three major components which include:

- **Digital Video Recorder (DVR)**, featuring DSP powered real-time recording at CIF resolution 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 combined with the DSP powered DVR truly differentiates the Rapid Eye system from the competition.

#### LocalView

- Real-time live video – display a single camera or all 16 cameras simultaneously
- PTZ control – Vector driven within a video stream or full featured via PTZ controller icon
- Interactive user controllable accelerated recording rates (Boost)
- Ability to switch the language on user logon to a preset language
- Public Display mode provides a simple cost-effective solution for public view monitoring
- Review recorded video, audio
- Easy creation of evidence clips using RapidClip tab to export to DVD, CD, and USB memory dongle
- Review evidence clips using Clip Player tab
- Basic system and camera configurations can be defined using System tab
- Multiple levels of password protected user access and control

#### ADMIN Software

- HRM9ADMIN  
(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

- HRM9VIEW  
(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)

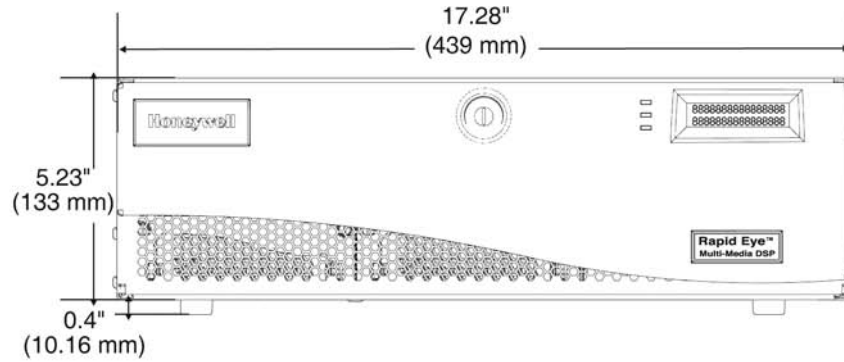
- IBM-compatible PC
- Windows® 2000 or any Windows® XP
- Pentium III class or better CPU (600 MHz)
- 128 MB RAM, 256 MB RAM or greater with XP
- 200 MB of free hard disk space, plus adequate storage for video clips
- CD-ROM (for software installation and upgrades)
- Video card(s) and monitor(s) that support XGA mode 1280 x 1024 or SVGA mode 800 x 600 (minimum)
- Mouse or other compatible pointing device

## Rapid Eye™ Multi-Media DSP v9

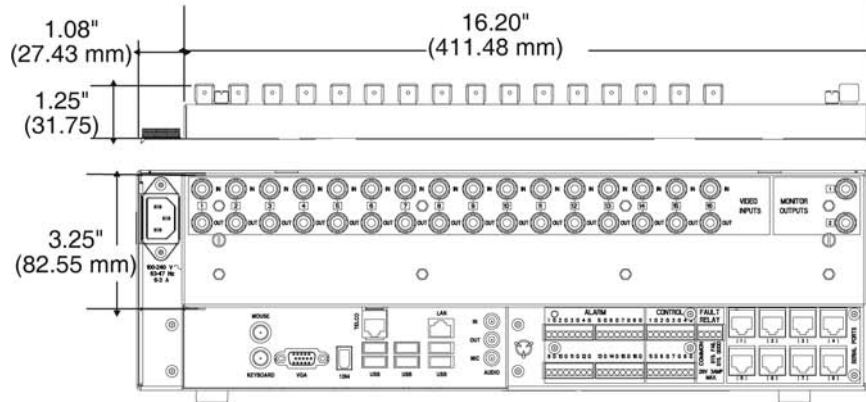
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### SYSTEM DIMENSIONS

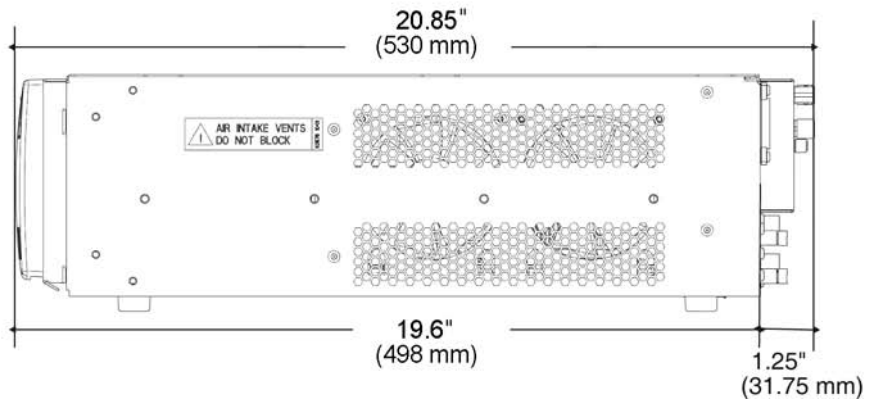
Front View



Back View



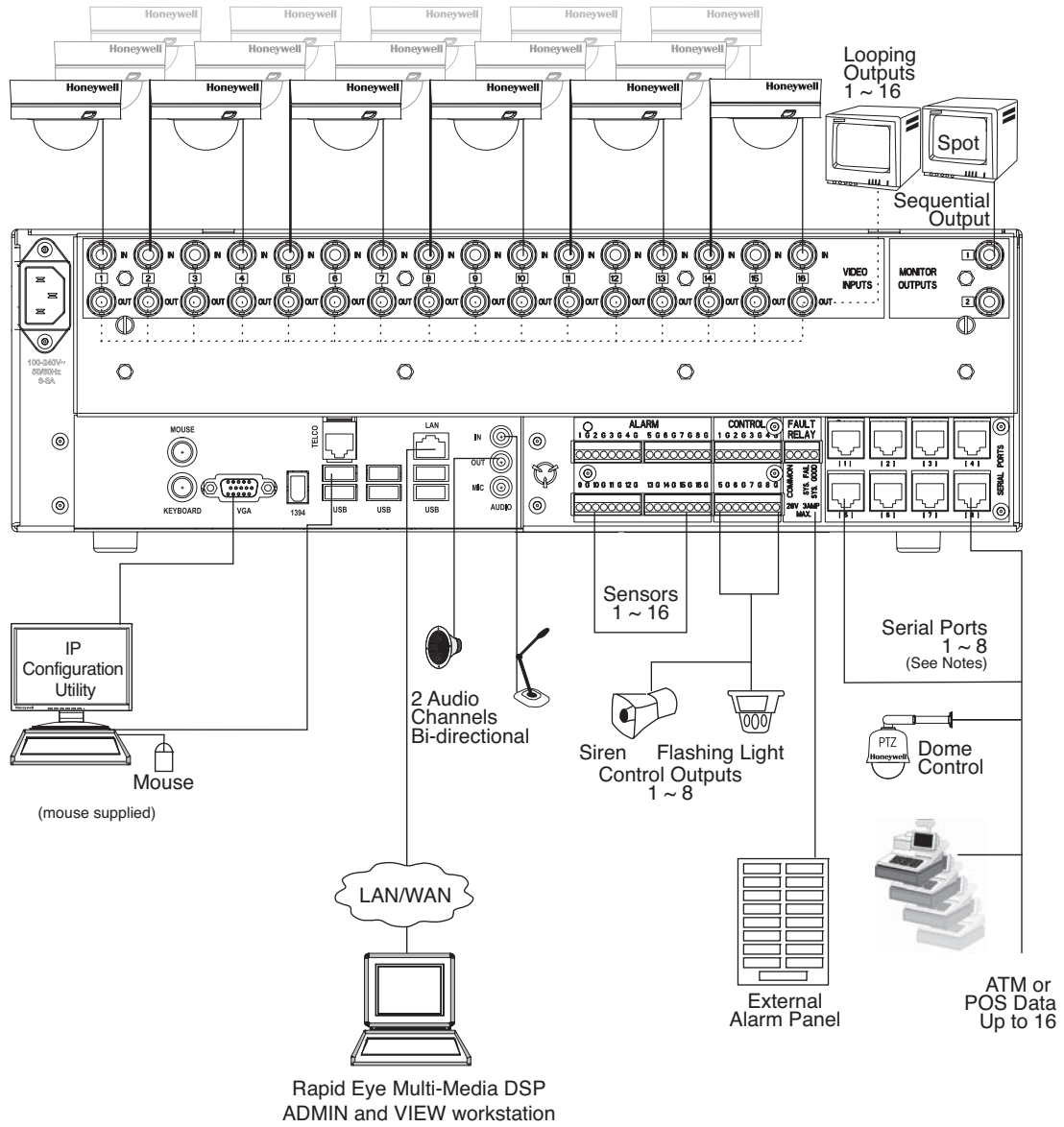
Side View



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### SYSTEM DIAGRAM



### SYSTEM DIAGRAM NOTES

Serial Ports 1-8:

RJ-45 RS232/RS-422/RS-485 individually user-configurable; used for data input, external modem or PTZ control

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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	250 GB – 1 TB Std., expandable up to 4 TB
Recording Rate	480/400 CIF global (NTSC/PAL)
Video Quality Settings	6 – 10 (low – high)
Video Motion Detection	Configurable to sense mass and motion multiple within regions of interest
	Configurable post-event motion
POS/ATM or Alarm Data	16 – Streams (max)
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 bays
Removable Media	Optional DVD-RW
Front Panel Control and Display Module (Lockable Front Panel)	Power Switch, 3 – Status LEDs 2 x 16 Status LCD
SNTP Client	Synchronize DVR to SNTP servers
DHCP Enabled	Network support for DHCP, WINS or DNS name servers
TCP/IP Port Forwarding	Multiple DVRs share same IP Address
USB 2.0 Ports	6 total (2 in front panel; 4 in rear panel)
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 or 12V level compatible User configurable NO, NC, EOL 3.5 mm terminal block
Control Outputs	8 – TTL or 12V open collector TTL @ +15 mA /-100 mA 12V @ -100 mA current sink 3.5 mm terminal block
Fault Relay	DPDT Form C relay 28 V, 3 A
Serial Ports	8 - RJ45
Modem/Telco	V.90 multi-protocol Standard RJ-11 Interface
Networking	10/100 base T Ethernet, Standard RJ-45 Interface
VGA Output	1024 x 768 monitor LocalView Interface
AC Power	100-240 VAC 50/60 Hz IEC-320 connector Regional power cord included
Electrical	
Input Voltage	100 – 240 VAC, 60/50 Hz
Operating Voltage	120V/240V Auto sensing
Power Consumption	350 W (maximum)
Mechanical	
Dimensions (W x H x D)	17.28" x 5.23" (3U) x 20.85" (440 mm x 133 mm x 530 mm)
	Unit: 43 lb (19.5 kg) Shipping: 51 lb (23 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 61000-3-2:2006
Immunity	CE: EN 50130-4:1995 +A1:1998
Safety U.S. and Canada International	ETL Listed UL 60950-1:2003 IEC 60950-1:2001 CB report and certificate CAN/CSA C22.2 No. 60950-1-7

# Rapid Eye™ Multi-Media DSP v9

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## ACCESSORIES AND ORDERING

Software	
HRM9ADMIN (included)	ADMIN & VIEW software CD & user manuals
HRM9VIEW	VIEW software CD & user manuals
HRM9CLIP	Rapid Eye Clip Player for Windows Software CD
HRM9UPADMIN	Upgrade ADMIN & VIEW Software CD and User Manuals
HFVMSR	Fusion Video Management Software for Rapid Eye integration
Recommended Accessories	
HVBPIT44-US	RS422 dome protocol interface translator, Bossware
HVBPIT4POS	Four to one serial protocol interface translator, POS or alarm panel data
HASMPIT	SmartPIT™, POS/ECR or ATM text inserter and PTZ protocol translator, compatible with NTSC or PAL video formats
HCSP1	Surge protector, video/24 VAC
HDSP1	Surge protector, data/video/24 VAC
HD8CD8TP	Code distribution unit 8 port twisted pair RS232 to RS485
HRPSARE2EARS	Rackmount ears
HRMSLIDE	Rackmount slide kit
HRPSLOCK	Lock for front lid
AAC232/485	Code converter RS232 to RS485
HJC5000	PTZ Controller/UltraKey Lite Keyboard

Expansion Hard Drives and Spare Hard Drives	
<i>Hard drive only (blank) in frame for 16 ch Rapid Eye DSP v9 and Rapid Eye Active Alert v9. Not usable/interchangeable with Rapid Eye Multi-Media and Rapid Eye DSP V8 units.</i>	
HREHD250G	Hard drive expansion Rapid Eye DSP/Active Alert v9, SATA, 250 GB, in frame
HREHD500G	Hard drive expansion Rapid Eye DSP/Active Alert v9, SATA, 500 GB, in frame
HREHD1T0	Hard drive expansion Rapid Eye DSP/Active Alert v9, SATA, 1 TB, in frame
<i>Hard drive only (blank) in packaging for 16 ch Rapid Eye DSP v9 and Rapid Eye Active Alert v9. Not usable/interchangeable with Rapid Eye Multi-Media and Rapid Eye DSP V8 units</i>	
HREHD250G-N	Hard drive only, 3.5", Rapid Eye DSP/Active Alert v9, SATA, 250 GB, no frame
HREHD500G-N	Hard drive only, 3.5", Rapid Eye DSP/Active Alert v9, SATA, 500 GB, no frame
HREHD1T0-N	Hard drive only, 3.5", Rapid Eye DSP/Active Alert v9, SATA, 1 TB, no frame
<i>Hard drive (system pre-installed) in frame for REMM DSP v9 ONLY! Not useable/interchangeable with Rapid Eye Active Alert, Rapid Eye MultiMedia v7 and Rapid Eye DSP v8 units</i>	
HREHD250GP9	Hard drive v9 program REMM DSP v9, SATA, 250 GB, in frame
HREHD500GP9	Hard drive v9 program REMM DSP v9, SATA, 500 GB, in frame
HREHD1T0P9	Hard drive v9 program REMM DSP v9, SATA, 1 TB, in frame

Ordering	
<b>HRE 16 R 48 D 1T0</b>	
<b>Model</b> Honeywell Rapid Eye™	<b>Storage Size</b> 250 250 GB 500 500 GB 1T0 1 TB
<b>#Channels</b> 16	<b>Media Options</b> D DVD-RW N No DVD-RW
<b>Features</b> R Real time	<b>Record Rate@Resolution</b> 48 NTSC 480 IPS @ CIF 40 PAL 400 IPS @ CIF

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

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