## Honeywell

# Rapid Eye<sup>™</sup> Multi-Media Version 6

Long-Term Digital Recording & Transmission System



More than a DVR, Rapid Eye<sup>™</sup> Multi-Media (REMM) provides a powerful, and intelligent digital storage management tool that combines video, audio, and data capabilities in a single remote unit. The system is designed to record, search and transmit your video, audio and data transactions—providing users with both live and post-event assessment options.

The system consists of three major components which include: the **Remote Unit (RU)**, featuring LocalView, the local user interface that provides on-site video, audio and data management capabilities and basic system and camera configuration; **ADMIN Software**, the workstation/server-based administration tool capable of enterprise-wide site and user management; **VIEW Software**, the feature-rich, workstation-based operator program. The powerful combination of ADMIN and VIEW truly differentiate the REMM system from the competition.

REMM can be seamlessly integrated with existing video equipment and incorporated into any TCP/IP and/or Dial-up network—making it one of the most cost-effective solutions for both new and existing video security systems.

#### New Features: Hardware

- High performance Intel P4 hardware platform
- Increased storage capacity Units rated from 500-6250 Camera Days
- Increased capture rates Units rated from 20-80 ips
- System Monitor Separate output Fault Relay
- Larger Power Supply 300W, auto sensing 100-240VAC and quieter fan operation
- Serial ports 2 DB9 RS-232 communication ports

#### ADMIN & VIEW Software

- Single workstation license for ADMIN & VIEW now included with every RU
- SNTP Client Automatically synchronize the Remote Unit to SNTP servers
- Advanced video motion detection with userdefinable exclusion zones per camera
- Improved dial-up transmission Using Video Quality setting 1, 2, 3 (QCIF like images)
- Record & Alarm Scheduling User definable, calendar driven scheduling

#### LocalView User Interface

- Redesigned GUI Optimized for VGA display
- Improved user level security Setup, Live and Live Cycle
- Audio communication from Remote Unit Talk, Listen & Record
- Data: Monitoring, Retrieval and Recording
- 8 Live Tabs (nameable) 15 Pre-defined grids – Data only windows
- Audio and Data capability added to LocalView Clip Builder and Clip Player **Traditional System Features:**
- Backward compatible with all previous generations of Rapid Eye Multi and Multi-Media RU's
- VxWorks<sup>™</sup> a secure, stable and multitasking real-time operating system (RU)
- Authenticated proprietary file format (REM) for integrity of evidence
- Administrator-definable user names and privileges, featuring encrypted password protection
- Live monitoring and surveillance of multiple remote locations simultaneously via LAN/WAN or Dial-up connections
- Multiple users can simultaneously access same site for live and/or recorded information
- RapidSearch<sup>™</sup> events by Motion, Time/Date making playback of recorded Video, Audio and Data quick and easy
- Extremely flexible communication options include LAN, WAN, Internet and PSTN
- Easy integration with existing or new CCTV
   equipment
- Serial port connection to ATM and POS devices

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## Rapid Eye<sup>™</sup> Multi-Media

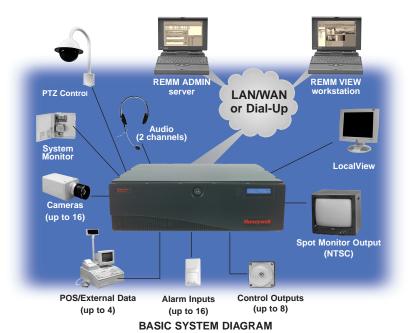
### Remote Unit & LocalView User Interface Information

#### Remote Unit

The RU is the heart of the REMM system and designed to satisfy the security industry's growing demand for an integrated video security tool. The RU was engineered from it's inception for durability and expandability to meet the stringent requirements of today's security environment.

The new rugged chassis offers a sleek, modular design suited for desktop or rack-mount installations. It fits perfectly into a standard 19" EIA rack and can be fitted with the optional slide rack-mount kit (HRMSLIDE) that makes servicing your installation simple. The removable front panel features a key lock, concealing four fieldreplaceable/expandable hard drive bays; the optional CD-RW drive for creating evidence clips of your security data locally at the RU site; and red power button for front panel power control. The detachable rear BNC panel allows servicing of the unit without the removal or disruption of your coaxial cable leads. The RU is equipped with two independent 2-way audio channels that offer users the ability to monitor and record synchronized audio streams. Data handling capabilities enable the RU to connect with a growing list of POS devices such as cash registers and ATMs for monitoring, recording and retrieval of critical business data. All physical connections are made directly to the RU, including 16 cameras, 16 alarm input devices, eight auxiliary control outputs, two serial ports for control of most industry standard PTZ domes, and connection to POS and ATM devices. Using our multi-port protocol interface translator (AVBPIT4POS) up to four POS or ATM devices can be connected to a single serial port on the RU.

The REMM RU is offered in 48 standard configurations, making it



one of the most versatile products in the industry. This versatility focuses on real issues confronting users of digital recording products today including, length of time for storage of video, video capture rate (ips), and the option to record incident clips to a CD-RW at the RU site. Our intuitive RU model number allows you to configure the right unit for every application. (See ordering information on back.)

#### LocalView

LocalView. the local user interface. enables the user to define basic system and camera configurations, view live and recorded video, audio, and data at the RU site. LocalView features three levels of password protected security. Using only a VGA monitor (not supplied), and a PS2 mouse (supplied), the user can configure system and network settings such as: unit name, time zone, date, IP address, network mask and gateway. Camera configurations include: live video window, settings box for manual and AGC controls, selected camera box for name and type (camera) designation, and a recording box for rate (capture) and quality settings. Video management capabilities include: eight live video tabs that are individually

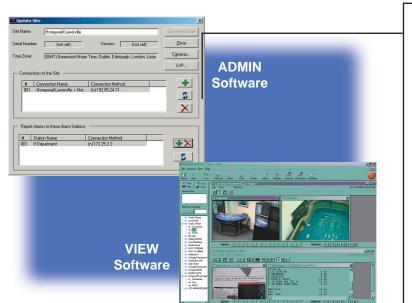
configurable by selecting from one of 15 pre-defined camera grids. The grids range from a single camera to a 4x4 matrix, allowing a multiplexed view of all 16 cameras in a single panel. The live video tabs can be made to cycle through automatically, creating a userdefinable "live tour" of all cameras attached to the RU.

Recorded video, audio and data can also be reviewed and played back in its own video tab called clip builder. Clip builder can be arranged in any of the 15 predefined grids allowing up to 16 video streams to be displayed. Clip builder also provides a utility to create a video clip using start and stop times. A user can store the clip to the RU's hard drive or directly to a CD-RW if the unit is equipped with the optional CD-RW drive. The clip player tab provides a utility to review a pre-recorded clip from the RU's hard drive, or from a previously-recorded CD, loaded in the CD-RW drive. Both clip builder and clip player provide mouseselectable, VCR-like controls, such as, play, pause, fast forward and rewind.

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## ADMIN & VIEW Software



#### ADMIN Software (ARM6ADMIN)

ADMIN Software, REMM's system administration tool, is capable of enterprise-wide site, user, tour and alarm station management. This Windows-based administration software provides a userfriendly GUI for creating REMM's database. The database can be as small as a single site with a sole user, based on a single computer. using Microsoft Access as the default database. ADMIN can also be hosted on a network server using any of these common networked database protocols including, Access, SQL or MSDE, serving thousands of users and sites. ADMIN makes controlling and administering a multi-site, multi-user, enterprise-wide system fast, easy and secure.

#### VIEW Software (ARM6VIEW)

VIEW Software is the featurerich, Windows-based operator software that provides a userfriendly GUI for complete operation and configuration of one or many different RUs simultaneously. Observe and

monitor live or recorded video. audio and data from any RU listed in your site tab. Connect to multiple sites simultaneously using multiple connection methods from the same or multiple workstations and connect to the same RU site using multiple connection methods. LAN/WAN networks and dial-up connections are supported with a standard TCP/IP protocol. Dial-up connections can be made using PSTN or ISDN with appropriate hardware. Control multiple PTZ cameras, monitor two independent 2-way audio channels, monitor up to four streams of POS or ATM generated data, configure 16 alarm input devices, and control eight auxiliary outputs-all from within a single session of VIEW. Define event and alarm conditions including motion detection on a per-camera basis, search for events, logs and data strings and review the associated video, audio and data instantly using the RapidSearch™ feature in VIEW.

## Video Features:

- 16 BNC composite video looping inputs with auto termination
- RU available with capture rates of 20, 40, 60 or 80 ips, shared between recording and live transmission
- Individual camera configuration including name, camera type, manual or AGC control of video image, recording rate in ips and image quality
- Advanced video motion detection with userdefinable exclusion zones per camera
- Auto detection and changeover of camera type from color to monochrome in low light situations (when using color/monochrome changeover cameras)
- LocalView the local user interface provides on-site live monitoring, review of recorded video, audio & data, local clip generation and record clip to a CD-RW on RU equipped with CD-RW drive
- User-configurable composite monitor sequential switching output

### Audio Features:

- Two independent channels synchronized with the video and data streams
- Bi-directional audio The VIEW operator can talk and/or listen on each channel independently, directly to the remote site(s)
- Monitor, record and record-to-clip with associated video and data streams locally and remotely

### Data Features:

- Monitor and record critical business data from ATM and POS devices
- Review and search recorded data using our data search engine; review associated video stream
- Support for up to four separate data sources, with each data stream displayed as an individual window within the VIEW environment (additional hardware required)



Rapid Eye Multi Media Front Panel

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# Rapid Eye<sup>™</sup> Multi-Media

## Specifications

#### **Remote Unit Hardware Capacity**

	Max per
Connections	Remote Unit
Cameras	16
Inputs (alarms)	16
Outputs (control)	8
Audio	2

#### RapidEye VIEW Software Capacity

	Max per
Sessions	Remote Unit
Live video sessions (all users)	32 streams
Video retrieval sessions (all users)	32 streams
Users viewing live video	10 sessions
(and activating outputs)	
Users retrieving video	10 sessions
Users accessing alarms	10 sessions
Users accessing events	10 sessions
Users accessing Maintenance	1 session

#### ADMIN and VIEW Workstation Requirements

- (Minimum recommendations)
- IBM-compatible PC
- Microsoft Windows 98, NT, ME, 2000 or XP
- Pentium II or Pentium III class CPU (min. 600MHz recommended)
- 128MB RAM
- 200MB 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 supports SVGA mode (800x600 pixels) or better (XGA 1024x768 preferred)
- Mouse or other Windows compatible pointing device
- For dial-up connections \* Honeywell Video Systems approved V.90/V.92 modem or ISDN modem
- For LAN connections Windows compatible 10/100 Fast Ethernet Network Interface Card (NIC) configured for TCP/IP protocol

#### **Remote Unit Specifications**

- Video Standards:
  - NTSC/EIA or PAL/CCIR
  - Individual AGC profile and configuration settings for each camera
- Video Format:
  - 320 x 192 native resolution REM proprietary format
  - 24-bit true color (over 16 million colors)
- Record and Transmission Format: modified H.261/263 (DCT) w/proprietary dual threshold processing yielding high quality vs. bit rate
- Record Mode: continuous circular buffer (FIFO)
- System Record Capacity: 500, 750, 1000, 2000, 3000, 4500 or 6250 camera days (based on model)
- System Update Rate: (maximum)
  - 20, 40, 60, or 80 ips (based on model)
  - Individual camera selectable from 1/4 to 30 ips

- Video Quality Settings: 12-1
  - 12 = highest quality, shortest record duration
- 1 = lowest quality, longest record duration
- Video Motion Detection and Search:
  - User-configurable to sense mass and motion intensity within multiple regions-of-interest
  - User-configurable post event video motion search within multiple regions-of-interest
- POS/ATM and Event/Alarm Action Filters:
- Initiate action and/or report upon specific serial data or event transactions
- Post-event search of a specific recorded data stream qualifier
- Record and Remote Reporting of Events:
  - Session request
  - Session rejection
  - Session disconnect
  - Run-time failure
  - Self restart
- Reboot
- Synchronize time
- System configuration
- Security modification
- System file modification
- Clear storage
- Input sensor activation/deactivation
- Output sensor activation/deactivation
- Video loss/restore
- Video motion detection
- POS/ATM data
- Mass Storage: [4] field-upgradeable hard drive bays
  - All drives mounted on field serviceable carrier sleds
  - Convenient upgrading and servicing of local storage
  - Power-Off, "cold swap" operation
- Removable Media: [1] field upgradeable CD/RW Bay
  - Supports optional CD/RW drive for event back up and archiving
  - 2nd aux. device bay reserved for future expansion
- Front Panel Control and Display Module: (secured behind lockable front panel)
  - Power Switch (low voltage control)
  - System Ready LED
  - Alarm State LED
  - HD Activity LED
  - 2x16 alphanumeric system status LCD display indicating operational status and system health monitoring
- SNTP Client: "Simple Network Time Protocol"
  - Synchronize all devices on the network to a SNTP server

Continued On Next Page

Note: \* Honeywell Video Systems approved PC moderns at time of this printing include: Zoom Model 2920 internal PCI modern, Zoom Model 3049L external serial modern and Zoom Model 3075 PCMCIA modern. Contact Honeywell Video Systems representative for latest approved models @ 1-800-.769-CCTV.

# Rapid Eye<sup>™</sup> Multi-Media

## Specifications Continued

#### **Rear Panel Connections**

- Video Inputs: [16] composite 1Vp-p
  - Looping BNC w/ 75 Ohm auto-termination
  - Removable rear connector panel for convenient servicing
- Video Outputs: [2] composite 1Vp-p

   Monitor 1: NTSC/PAL spot or sequential realtime switcher
  - Monitor 2: NTSC/PAL color bar test pattern
- Audio Inputs: [2] line level
- Line inputs via 3.5mm stereo mini jack
- Mic-in: reserved for future use
- Audio Outputs: [2] Line Level
- Line outputs via 3.5mm stereo mini jack
- Alarm/Control Inputs: [16]
  - TTL level, dry contact or EOL (end-of-line) resistor sensing
  - Software configured as NC, NO or 2K EOL
  - Removable 3.5mm terminal block plugs
- General Purpose Control Outputs: [8] 5V TTL – Removable 3.5mm terminal block plugs
- 50mA max @ 5V each output
  Fault Relay: DPDT Form C Relay 28V, 3A
  - Monitors internal watchdog circuitry
- Serial Ports: [2] RS-232
- COM1: DB9 (M) External modem, PTZ control or POS/ATM (cables provided)
- COM2: DB9 (M) PTZ control or hyper terminal configuration (cable & adapters provided)
- Modem/Telco: [1] V.90 multi-protocol modem

   19.2Kbps to 33.6Kbps on typical North American dial-up connection (No internal modem on 80 IPS units)
  - Standard RJ11 handset cable interface (cable provided)
- Networking: [1] 10/100 baseT fast ethernet
   Standard RJ45 supporting CAT5 cable plug
- Desktop Monitor: [2] VGA
  - Supports LocalView UI through standard analog desktop monitor (640x480 support required)
  - Supports remote analog composite monitor through VGA–NTSC/PAL converter
  - Port 2 reserved for future use duplicates port 1 by default
- PS2 Mouse: [1] 6pin MiniDIN
- Supports LocalView UI functions (PS2 mouse provided)
- PS2 Keyboard: [1] 6pin MiniDIN – Not required for operation
- Printer Port: reserved for future use
- USB Ports: [4] reserved for future use
- AC Power: [1] 100 240VAC 50/60Hz input
   Modular IEC-320 connector (regional power cord provided)

#### PTZ Dome Control

- Honeywell Video Systems RapidDome and Orbiter
   Domes
- Honeywell Video Systems Domes KD6 Series using VCL or Pelco P or D code

#### Also compatible with other manufacturers including:

- Javelin 308 Series
- Kalatel
- Pelco P&D codes
- Sensormatic RS422

#### Electrical

- Power Requirements:
  - 100 240VAC, 63-47Hz, 6-3A
  - Auto Sensing 100V/240V operation

#### Mechanical

- Desktop or rack mount configurable:
  - Removable rack ears
  - EIA 19" rack mount slide kit available as an option
  - All critical components secured behind lockable front panel
- Dimensions:
  - 5.23" (3RU) H x 17.3" W x 18.8" D
  - (133mm H x 440mm W x 478mm D)
- 17.4" (442mm) unit depth without removable front panel
- Weight: (model dependent)
  - Unit weight: 32lbs 42lbs (14.5kg 19kg)
  - Shipping weight: 38lbs 48lbs (17.5kg 22kg)

#### Environmental

- Operating Temperature:
  - Non-condensing, 40° to 104° F (5° to 40°C)

## Regulatory

#### Emissions

- FCC: Part15, Class B
- CE: EN50081-1, (Class B)
- CE: EN61000-3-2 (Harmonics)
- Immunity
  - CE: EN50130-4 (w/use of UPS)
- Safety
  - UL-Listed for U.S. and Canada:
  - UL 1950, CAN/CSA-C22.2 No. 60950-00
  - CE: EN60950



Rapid Eye Multi Media Rear Panel

## Rapid Eye<sup>™</sup> Multi-Media Version 6

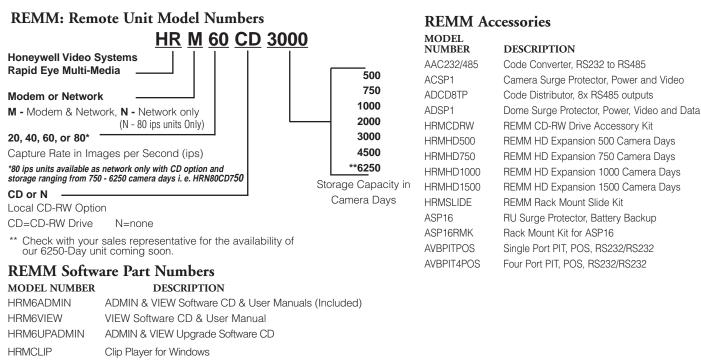
Capacity & Ordering Information

		TOTAL NUMBER OF IN									IMAGES PER SECOND (examples)									
		1	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	72	80
	500	500	125	62	42	31	25	21	18	16	14	12	11	10	10	9	8	-	-	-
~	750	750	187	94	62	47	37	31	27	23	21	19	17	16	14	13	12	11	10	9
Capacity nera Days)	1000	1000	250	125	83	62	50	42	36	31	28	25	23	21	19	18	17	15	13	12
a D	2000	2000	500	250	167	125	100	83	71	62	56	50	45	42	38	36	33	31	27	25
ner	3000	3000	750	375	250	187	150	125	107	94	83	75	68	62	58	54	50	46	41	37
RU (Can	4500	4500	1025	562	375	281	225	187	160	140	125	112	102	93	86	80	75	70	62	56
	6250	6250	1562	781	520	390	312	260	223	195	173	156	142	130	120	111	104	97	86	78
	Typical Number of Days of Recorded Video																			

Estimating the number of days a Rapid Eye Multi-Media Remote Unit will record: (See web site for storage estimator.)

- Based on your application need, determine each camera's desired update rate (in images per second). Sum total of all cameras' ips cannot exceed RU ratings.
- If all cameras are set for the same update rate, simply multiply the update rate times the total number of cameras, (e.g., 2 cameras x 8 ips = 16 total ips).
- If all cameras are not set for the same update rate, add each camera's update rate (in images per second) together (e.g., 6 ips for camera one + 10 ips for camera two = 16 ips total).
- Locate your total images per second in the chart above. The column underneath helps you select the appropriate RU for your application's record duration requirements.
- The above table shows typical durations that assume: a quality setting of 7 and no audio or data recording; securely mounted cameras with wide angle lenses; up to two non-auto-panning domes (pre-set operation recommended).
- Record duration, or the quantity of images that can be recorded on RU hard drives, can vary from half to two times the typical results shown in the chart above.

### **ORDERING:**



Specifications are subject to change without notice.

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1.800.796.CCTV	44.1928.754000	61.2.8837.9300	1.305.805.8188					

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