

BRIDGING THE GAP BETWEEN ANALOGUE, IP AND INTELLIGENT VIDEO

The Fusion III DVR Series expands beyond the analogue DVR role. It is a full featured hybrid digital recording system that bridges the gap between DVRs and NVRs. The system is designed to record, search and transmit up to a total of 32 channels of analogue and digital IP video sources, up to 16 channels of audio, and a single channel of data. Firmware release v3.6 adds many new enhancements that improve performance and make Fusion easier to operate and more effective.

Fusion III v3.6 introduces advanced IP camera integration, Smart Motion search, enhanced logging and Microsoft Active Directory integration. Because Fusion III v3.6 provides full in-depth integration of Honeywell IP cameras, operators can discover and add Honeywell IP cameras from a single interface. Additional features such as integrated camera-based motion detection for Honeywell's HCX Megapixel applications, and sensor and audio input management on EQUIPTM are supported in a dynamic new way.

Fusion III v3.6 also provides integration with Honeywell Automatic Number Plate Recognition (ANPR) and Honeywell intelligent video analytics; Active Alert®, Smart Impressions® or People Counter. These licensed analytics options automatically detect, analyse and classify the behaviour of people and vehicles in a scene; greatly increasing event detection accuracy while virtually eliminating false alarms. Instantaneous history of scene activity against user-selected parameters enable fast interactive searches on site and/or remotely.



The cost effectiveness and wide variety of analogue camera sources along with the very fast development of digital IP sources have made hybrid DVRs very desirable. Market acceptance of Fusion in educational, municipal and corporate campus environments, retail and hotels and resorts has been high, and further enhancements to ease of use and support of digital IP sources create unsurpassed value for the user.

Features

Hardware

- Analogue and IP recording up to a total of 32 channels
- Up to 16 channels digital IP
- · Available with 8, 16 or 32 looping video inputs
- Global recording rates from 100 to 400 at CIF resolution (PAL)
- Recording resolutions up to 720 x 480 (4CIF)
- Real time live video viewing on the local display
- License free substitution of unused analog channels to IP channels
- Internal storage capacity from 250 GB 4 TB
- External storage options from 1 TB to 48 TB
- 16 sensor inputs and 16 control outputs
- Optional multiplexed or switched spot outputs
- 16 channels of audio standard on select models
- 10/100 network standard with 1 Gbps option
- Keyboard control (HJZTPX) of camera selection and PTZ control
- Windows XP® Embedded operating system

Software

- User software included with each DVR
 Fusion III Server Software Local User Interface
 HFRVS Remote Software Connect to a single DVR
 HFVMS Remote Management Software Connect to multiple DVRs
- Microsoft Active Directory® Integration
- 4/16 CH network camera support standard (requires HF3HWUPGCPU)
- Free Dynamic DNS (during the warranty period of the DVR only)
- Smart Motion, preview and index searches
- Integrated camera discovery protocol
- Integrated ANPR option
- Integrated intelligent video analytics option
- Integrated POS/ATM with Honeywell's IDM software
- Access Control integration to Honeywell's Pro-Watch® and WIN-PAK®
- Powerful API available for third party software integration





FEATURES

The powerful combination of Fusion III Server, the feature rich HFRVS and HFVMS user software suites creates a hybrid digital video recording solution that distinguishes Fusion III DVR Series from the competition.

Fusion Server Software

(Included with every DVR)

- · Complete local configuration and administration
- High resolution rates Fusion is able to record up to 720 x 480 and has an image capture rate of up to 400 ips
- Instant access to information through advanced index searching capabilities and motion-based object search functionalities
- The Preview Search function gives users a quick overview of a 24-hour period. The search can be narrowed down from ten-minute increments to one-minute increments
- Option for POS integration
- · Option for up to two channels of integrated intelligent video analytics
- The Fusion III Server Software gives users the option of POS integration
- · Remote notification of alarm events and health check
- Multiple types of searching capabilities, including not only Preview Search, but also Smart Search and Index Search
- Supports 5 simultaneous remote connections via HFVMS and HFVRS

HFRVS Remote View Software

(Included with every DVR)

- · Looks and functions in a similar manner as the Fusion Server Software
- Remotely connect to a single Fusion
- Remotely search and export video from Access and export recorded video the Fusion DVR
- Control PTZ cameras that are connected to the Fusion DVR
- Microsoft Windows© 2000 and XP© and Vista compatible
- Remotely set up cameras, schedules, sensors, audio and network functions via the HFVRS Remote Software

HFVMS Video Management Software

- · Complete remote configuration and administration
- Remotely monitor video, audio and
- · Create multiple customised user accounts
- Create custom live camera views
- Picture included with e-mail alert
- Connect to multiple Fusion DVRs all at one time
- Full screen pop-up on alarm
- Maps feature allows importing of .dxf, .jpg, .wmf and other formats
- · Control cameras with advanced PTZ features
- POS Search Capabilities
- Live audio
- TCP/IP based

HFRVS and HFVMS Central Station Software (Minimum Workstation Requirements)

- Pentium IV 2.0 GHz+ (or Equivalent)
- 256 MB System Memory
- DirectX 8 or Higher
- AGP 128 MB Video Card
- Internet or LAN Connection
- TCP/IP Installed
- Microsoft Windows@ 2000 or XP@ Compatible System
- 1280 x 1024 Optimal Display Resolution
- 16 Bit Colour Depth

Microsoft, Windows 2000, Windows 2000 Server, XP Pro SP2, Vista Home, and Vista Premium are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

Performance characteristics with EQUIP™ and ACUIX™ IP cameras

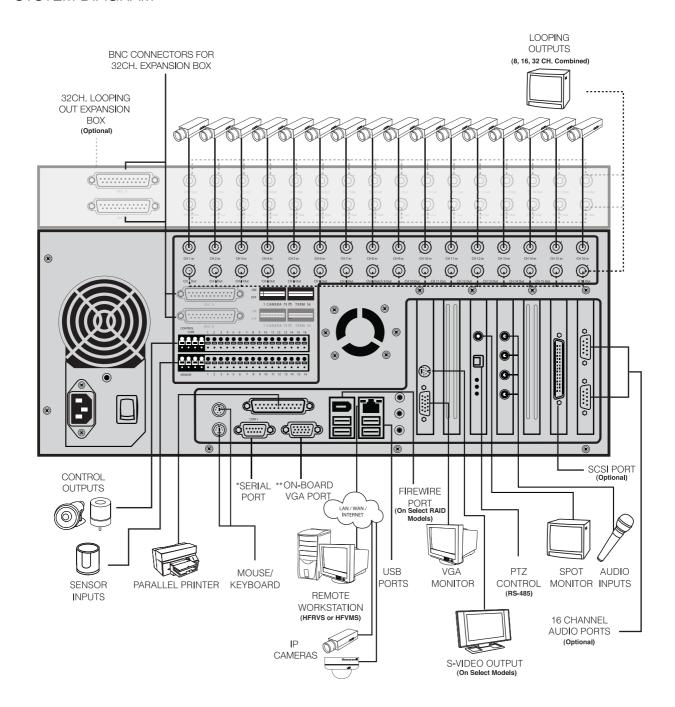
Fusion integration with EQUIP and ACUIX IP cameras currently has the following performance characteristics (with Fusion factory hardware performance upgrade – part # HF3HWUPGCPU):

- Up to 100 PAL IPS total for all connected Honeywell IP cameras @ CIF resolution
- Up to 50 PAL IPS total for all connected Honeywell IP cameras @ 2CIF resolution
- Up to 25 PAL IPS total for all connected Honeywell IP cameras @ 4CIF resolution

Note: The total number of IPS for analogue and IP cameras combined should not exceed the IPS rating on the unit.



SYSTEM DIAGRAM



SYSTEM DIAGRAM NOTES

* Serial Port 1:

DB9 (M) RS-232 only; used for data input, Point of Sale or PTZ control with an additional code conversion device

** On-Board VGA Port:

Used only with 16 Channel 100 PPS Real Time (No VGA Card Used with listed models)



SPECIFICATIONS

Fusion Specifications (400 ips)		400 - 32 Ch.	400 - 16 Ch.
Analogue Inputs		32	16
Looping Outputs			16
Sensors			16
Control Outputs			16
Display - Live(L) or Recorded(R)			L
Frame Setup - Individual(I) or Global(G)			I
Resolution - Individual(I) or Global(G)			I
Resolution - 720x576 (720) or 640x576 (640)			720
Resolution - 720x288 (576) or 640x288 (640)			720
Resolution - 360x288 (360) or 320x288 (320)			360
Audio - Line In			16
Spot Monitor - Multi-Screen Controllable(M)/Switched(S)			М
Intensive Record - Selectable(S) or Max(M)		S	S
USB 2.0 Ports		6	6
Fusion Specifications (200 ips)	200 - 32 Ch.	200 - 16 Ch.	200 - 8 Ch.
	200	200	200
Analogue Inputs	32	16	8
Looping Outputs	32	16	8
Sensors	16	16	8
Control Outputs	16	16	8
Display - Live(L) or Recorded(R)	L	L	L
Frame Setup - Individual(I) or Global(G)		I	I
Resolution - Individual(I) or Global(G)	1	1	I
Resolution - 720x576 (720) or 640x576 (640) 720		720	720
Resolution - 720x288 (576) or 640x288 (640) 720		720	720
Resolution - 360x288 (360) or 320x288 (320)	360	360	360
Audio - Line In	8	4	4
Spot Monitor - Multi-Screen Controllable(M)/Switched(S)	М	М	М
Intensive Record - Selectable(S) or Max(M)	S	S	S
USB 2.0 Ports	6	6	6
Fusion Specifications (100R ips)			100R - 16 Ch.
Analogue Inputs			16
Looping Outputs			16
Sensors			16
Control Outputs			16
Display - Live(L) or Recorded(R)			L
Frame Setup - Individual(I) or Global(G)			1
Resolution - Individual(I) or Global(G)			G
Resolution - 720x576 (720) or 640x576 (640)			720
Resolution - 720x288 (576) or 640x288 (640)			720
Resolution - 360x288 (360) or 320x288 (320)			360
Audio - Line In			4
Spot Monitor - Multi-Screen Controllable(M)/Switched(S)			М
Intensive Record - Selectable(S) or Max(M)			М
USB 2.0 Ports			6

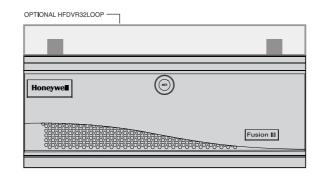
Fusion III Server		
Remote Sessions	Maximum of 5	
Video Standard	PAL: 720 x 576 max.	
Image Compression	Proprietary	
3~4 Kbytes Per Frame	(360 x 240)	
Record/Viewing	Up to 400 ips	
Internal Storage Media	250 GB to 4 TB	
Video Inputs		
Composite	Analogue input: BNC 1.0 - Vp-p @ 75 Ohms	
IP	MPEG-4/MJPEG stream from network	
Video Outputs		
Composite	RCA connector 1.0 - Vp-p @ 75 Ohms	
SVGA	15 pin D-type port for a PC monitor connection	
Electrical		
Input Voltage	115 - 230 VAC, 50 - 60 Hz 10/7A	
Operating Voltage	115V/230V Auto sensing	
Power Consumption	465 W	
Mechanical		
Dimensions	180 mm x 440 mm x 552 mm	
Weight	Unit: 64 lbs (29kg) Shipping: 64 (29kg) lb to 84 lb (38kg)	
Construction	Housing: Steel Chassis	
Finish	Housing: 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, Subpart B. Class A. EN55022 + A1:1995 and A2:1997 EN61000-3-3 EN61000-3-2	
Immunity	EN 55024:1998 + A1:2001 and A2:2003.	
Safety U.S. and Canada International	UL, cUL Listed; UL 60950-1:2003; IEC/EN 60950-1:2001 CB report and certificate	
Recording Archive		
On Board Devices	DVD-RW	
Base System		
Includes	HFRVS and HFVMS Software, Keyboard, Mouse, Rack Mounts and DVD-RW, Audio In, Network Connectivity, Printer Port, USB Ports, Keyboard and Mouse PS2 Ports, RS485/232 Ports	

^{*}Note: Frame Rate \div # of inputs = max frame rate per camera

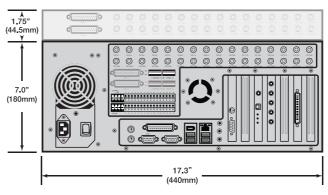


SYSTEM DIMENSIONS

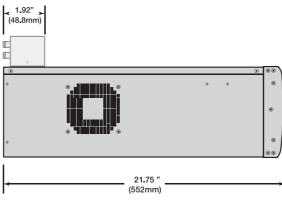
Front View



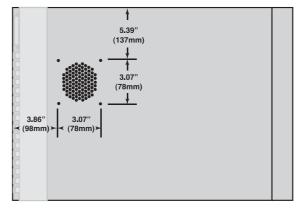
Back View



Side View



Top View Keep Clear (CPU EXHAUST FAN)



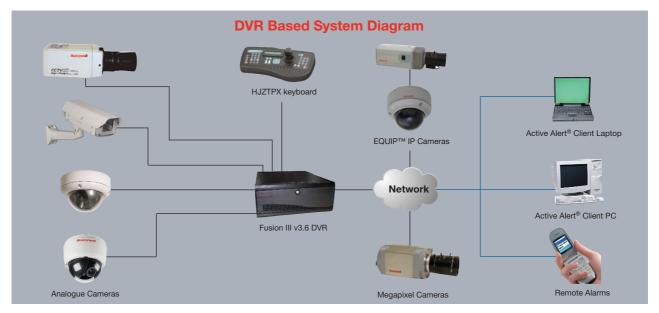


ACCESSORIES

Factory Installe	d Accessories (denoted with suffix A)
HF3HWUPGCPU	Fusion III Hardware Performance Package Dual Core CPU & 512 MB Memory
HF3MEM512	512 MB Memory Upgrade
HF3R5	Fusion III Internal RAID5 Configuration
HFDVRR1	Internal RAID-1 Controller
HFDVRSCSI	SCSI Interface Card
HF3GBNIC	Gigabit Ethernet Upgrade MB Port
HFDVRGBNIC	Gigabit Network Interface, Adds 2nd Ethernet Port
HFDVR4VOUT	4 CH Analogue TV Output Card
HF34VOUTM	4 CH Multiplexed Analogue TV Output Card
HFDVR16AUDIO	16 CH Audio Input Card
HAABF 12	Video Analytics Active Alert Base Package
HAASF 12	Video Analytics Active Alert Standard Package
HAAPF 12	Video Analytics Active Alert Premium Package
HASIF 12	Video Analytics Smart Impressions
HAACF 12	Video Analytics People Counter
HF3ANPRENG1 12	1CH of Fusion ANPR/ LPR Engine
HF3ANPRENG2 12	2CH of Fusion ANPR/ LPR Engine
HF3ANPRENG3 12	3CH of Fusion ANPR/ LPR Engine
HF3ANPRAPP1 12	1CH of Fusion ANPR Engine and Application Software (ANPR Review and Database)
HF3ANPRAPP2 12	2CH of Fusion ANPR Engine and Application Software (ANPR Review and Database)
HF3ANPRAPP3 1 2	3CH of Fusion ANPR Engine and Application Software (ANPR Review and Database)
Software Part N	umbers
HFRVS	Single Workstation Fusion Remote View Software
HFVMS	Single Workstation Fusion Video Management Software
HFVMSR	Single Workstation Fusion to Rapid Eye™ Remote Software
HF3LICDATA	1 CH Fusion Alarm Panel or POS Data License

Up to 2 channels of ONE ONLY Video Analytics package OR 3 ANPR channels. All analytics and ANPR packages require Factory Performance Upgrade option. Video Analytics and ANPR options are available with 200 IPS and 400 IPS real time Fusion III v3 6 configurations only.

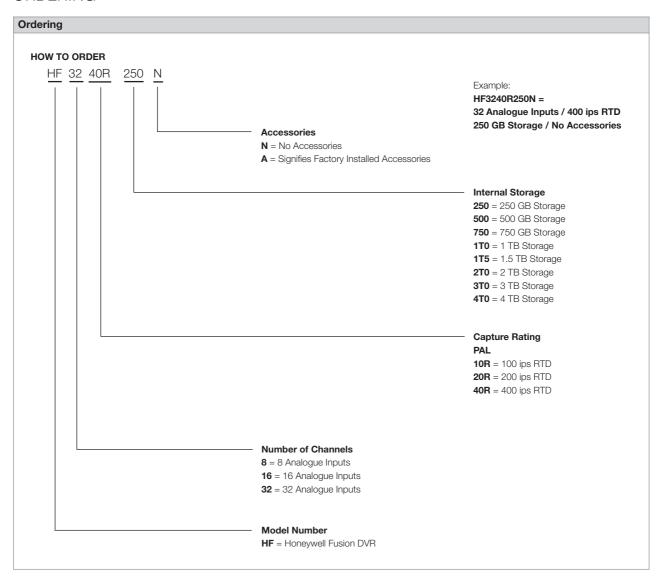
External Storag	e Accessories	
HE520RA4	4BAY Raid 5 - 1RU SCSI U320 Rackmount 500GB SATA II Hard Drives. 2.0TB Total Capacity	
HE530RA4	4BAY Raid 5 - 1RU SCSI U320 Rackmount 750GB SATA II Hard Drives. 3.0TB Total Capacity	
HE540RA4	4BAY Raid 5 - 1RU SCSI U320 Rackmount 1TB SATA II Hard Drives. 4.0TB Total Capacity	
HE560RA8	8BAY Raid 5 - 2RU SCSI U320 Rackmount 750GB SATA II Hard Drives. 6.0TB Total Capacity	
HE580RA8	8BAY Raid 5 - 2RU SCSI U320 Rackmount 1TB SATA II Hard Drives. 8.0TB Total Capacity	
HE590RA12	12BAY Raid 5 - 2RU SCSI U320 Rackmount 750GE SATA II Hard Drives. 9.0TB Total Capacity	
HE5120RA16	16BAY Raid 5 - 3RU SCSI U320 Rackmount 750GE SATA II Hard Drives. 12.0TB Total Capacity	
HE5160RA16	16BAY Raid 5 - 3RU SCSI U320 Rackmount 1TB SATA II Hard Drives. 16.0TB Total Capacity	
ASC39160	SCSI adapter card for controlling Raid 5 U320 systems. To be used with Fusion III DVRs	
Field Installed	Accessories	
HF3WUPGCPUF	Fusion III Hardware Performance Package Dual Core CPU & 512 MB Memory (Field Upgrade) - requires DVR Serial#	
HFDVR32LOOP	32 Analogue Input Looping Expansion Box	
HF3HD250	Fusion III 250 GB Upgrade Kit	
HF3HD500	Fusion III 500 GB Upgrade Kit	
HF3HD1T0	Fusion III 1 TB Upgrade Kit	
NVR Software I	icenses	
HF3LICNVR1	Adds 1CH of Digital IP Inputs to Fusion III	
HF3LICNVR4 ²	Adds 4CH of Digital IP Inputs to Fusion III	
HF3LICNVR8 ²	Adds 8CH of Digital IP Inputs to Fusion III	
HF3LICNVR16 ²	Adds 16CH of Digital IP Inputs to Fusion III	
Keyboard		
HJZTPX	Fusion DVR Keyboard - Controls ACUIX, HD6 and Orbiter domes.	



Fusion III v3.6 configurations only
Requires HF3HWUPGCPU



ORDERING



*RTD = Realtime Display

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

For additional information,

please visit www.honeywell.com/security/uk

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