

Fusion IV NVR Series

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The Fusion IV NVR Series is ideal for video surveillance systems requiring a scalable recording and video management platform for an end-to-end digital system. A single Fusion IV NVR supports simultaneous recording, searching and system management for up to 32 IP and megapixel cameras, 16 channels of audio and a POS text data interface. Multiple NVRs can be combined to support a large-scale system deployment for systems requiring recording and management of hundreds of cameras. Central control of Fusion NVR systems and systems operating a mix of NVRs and DVRs is provided by multi-site Fusion Video Management Software (FVMS).

In addition to new system roll-out to realize the benefits of operating a state-of-the-art IP surveillance network, Fusion IV is ideal for upgrading the head-end recording solution of existing systems. This is because Fusion IV supports multiple compression formats, including MJPEG, MPEG4, and H.264, as well as a wide variety of IP camera drivers.

The Fusion IV hardware utilizes powerful processor and memory technology allowing support of multiple simultaneous operations such as point-of-sale text recording and video analytics. With standard dual video ports, end users can view live multiplex video and search at the same time. System expansion of recording and management resources has never been easier—by connecting additional Fusion IV NVRs to the local area network.

The front panel provides easy access to the DVD-RW drive, one USB v2.0 port, and six field-replaceable hard drives. This provides system engineers a fast, convenient method to expand NVR storage capacity in the field.



Market Opportunities

The continual growth of IP networks across the globe has led to convergence of many organization's building security system needs and their IT system security facilities. This has resulted in a strong demand for all-IP end-to-end security system deployment. Fusion IV NVR provides the scalability and operational power to address the needs of a wide variety of applications including government/homeland security, port security initiatives, telecommunications sites, and many other applications. When the need is for a network digital recording and management security solution, the answer is the Fusion IV NVR.

Features:

Hardware

- IP recording up to 32 channels
- Megapixel camera support
- VGA and DVI-D ports for local video viewing
- Internal storage capacity from 500 GB to 12 TB
- External storage options from 5 TB to 32 TB
- Up to 16 audio channels (with supported IP cameras)
- PTZ control (with supported IP cameras)
- DVD-RW and 7 USB 2.0 ports
- 10/100/1000 gigabit network standard
- Keyboard control of camera selection and PTZ control
- Windows® XP embedded operating system

Software

- User software included with each NVR:
 - Fusion Server Software** - Local user interface
 - HFRVS Remote Software** - Connect to a single NVR
 - HFVMS Remote Management Software** - Connect to multiple NVRs
- Dynamic DNS support
- Microsoft® Active Directory integration
- Smart Motion, Preview and Index Searches
- Integrated camera discovery protocol
- Integrated POS/ATM/access control with Pro-Watch®, WIN-PAK® and IDM
- Powerful API available for third party software integration
- Analytics support, up to 4 channels

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FEATURES

The Fusion IV system consists of three major components which are included with each unit:

- **Server Unit:** 8, 16 or 32 channel models with megapixel recording and the powerful Fusion Server Software
- **HFRVS, Fusion Remote View Software:** allows remote connections to a single Fusion NVR
- **HFVMS, Fusion Video Management Software:** allows remote operation, configuration and management of multiple Fusion NVRs

The powerful combination of Fusion Server and the feature-rich HFRVS and HFVMS user software suites create an end-to-end digital recording and management solution that make Fusion IV NVR the market leader in new systems technology.

Fusion Server Software

(included with every NVR)

- Complete local configuration and administration.
- High resolution rates - Fusion is able to record resolutions as high as 5 megapixel.
- Multiple types of searching capabilities including Preview Search, Smart Motion Search and Index Search.
- 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.
- The Fusion Server Software gives users the option of POS integration.
- Remote notification of alarm events and health check.
- Supports five simultaneous connections via HFVMS and HFRVS.

HFRVS Remote View Software

(included with every NVR)

- Looks and functions in the same manner as the Fusion Server Software.
- Remotely connect to a single Fusion NVR.
- Remotely search and export video from the Fusion NVR.
- Control PTZ cameras connected to the Fusion NVR.
- Microsoft Windows XP® and Vista® compatible.
- Remotely set up cameras, schedules, sensors, audio, and network functions via the HFRVS Remote Software.

HFVMS Video Management Software

(single workstation license included with every NVR - can also be ordered separately.)

- Complete local configuration and administration.
- Remotely monitor video, audio and alarms.
- Access and export recorded video.
- Create infinite customized user accounts.
- Create remote backup schedules.
- Create custom live camera views.
- Configure Fusion NVRs remotely.
- Perform remote NVR software upgrades.
- Connect to multiple Fusion NVRs all at one time.
- Microsoft Windows XP® and Vista® compatible.
- Maps feature allows importing of .dxf, .jpg, .wmf and other formats.
- Control cameras with advanced PTZ features.
- Point-of-sale search capabilities.
- Live audio.
- TCP based.

HFRVS and HFVMS Software (Workstation Requirements)

Minimum:

- Intel Core 2 Duo 2.8 Ghz (or equivalent)
- 1 GB system memory
- DirectX 9 or higher
- 256 MB+ Nvidia or ATI video card
- 256k network connection
- TCP/IP installed
- Microsoft Windows® XP, or Vista
- 1280 × 1024 optimal display resolution
- 32-bit color depth

Recommended*:

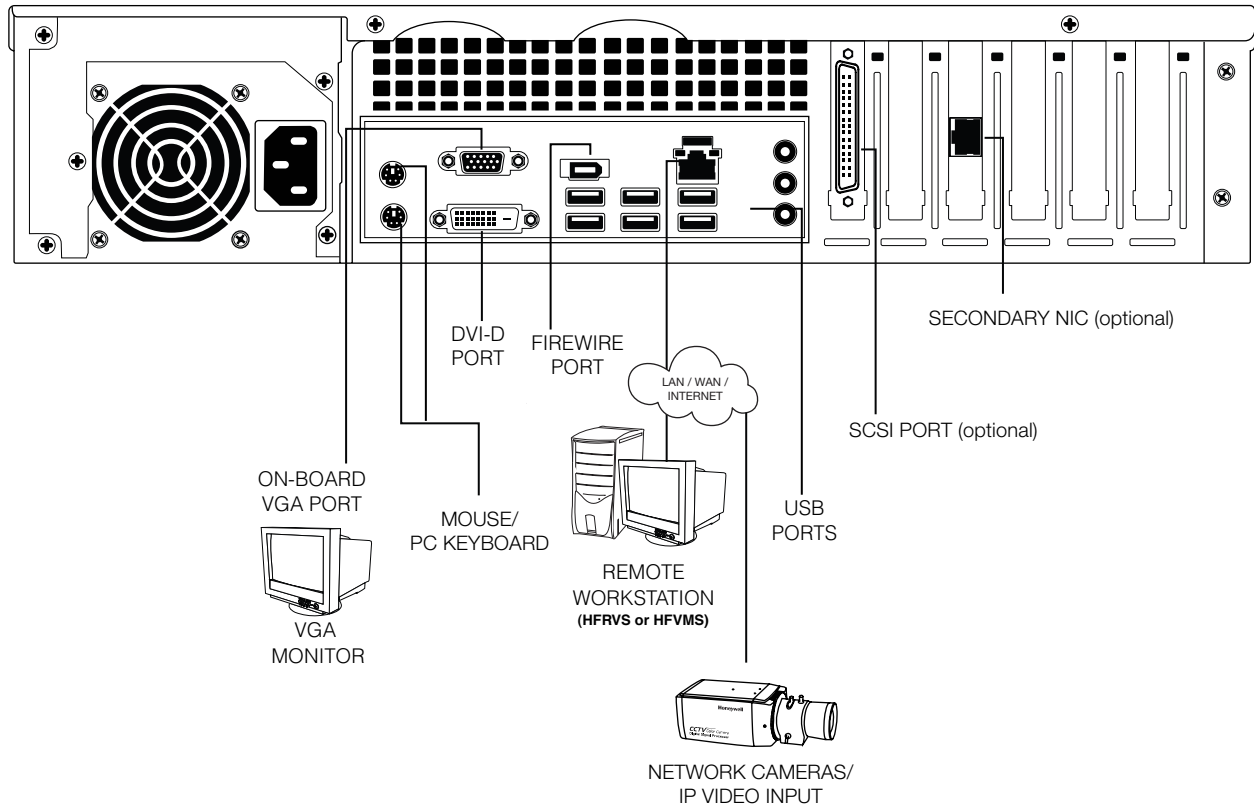
- Intel Core 2 Quad - Q8200 (or equivalent)
- 2 GB system memory
- DirectX 9 or higher
- Nvidia 8600 video card (or equivalent)
- 256k network connection
- TCP/IP installed
- Microsoft Windows® XP, or Vista
- 1280 × 1024 optimal display resolution
- 32-bit color depth

* Minimum requirements for H.264 solutions and highly recommended for megapixel image rendering.

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SYSTEM DIAGRAM



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SPECIFICATIONS

Fusion IV Unit	
Remote Sessions	Maximum of 5 simultaneous
Web Sessions	Maximum of 50
Video Standard	Variable, based on camera
Image Compression	User selectable per camera (H.264, MPEG, MJPEG)
Internal Storage Media	500 GB to 12 TB
Video Inputs	
IP	MPEG-4/MJPEG/H.264
Video Outputs	
SVGA	15 pin D-type port for a PC monitor connection (standard and wide screen monitor support)
DVI-D	24 pin port for a digital video display
Electrical	
Input Voltage	115 - 230 VAC, 50 - 60 Hz 10/7A
Operating Voltage	115V/230V Auto Sensing
Power Consumption	Up to 480 W
Mechanical	
Dimensions (l x w x h)	27.0" x 19.0" x 3.5" 686 mm x 483 mm x 89 mm
Weight	46 lbs (20.8kg) to 51 lbs (23.1kg)
Construction	Housing: Steel Chassis
Finish	Housing: Black Matte Paint

Honeywell IP Cameras			
HCS554IP	HD4DIP	HD6i +VIP	HXC13MW
HCS554IPX	HD3MDIP	HXC3W	ACUUX IP
HCD554IP	HD3MDIPX	HXC5DW2	HNVE1
HCD554IPX	HD4DIPX		

Other supported IP cameras

See document 800-04807 located on the Fusion product web page for a comprehensive list of the wide range of IP cameras supported by Fusion IV.

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% to 90% non-condensing
Regulatory	
Emissions	EN 55022: 2006 Class B EN 61000-3-2:2006 EN 61000-3-3:1995+A1:2001+A2:2005
Immunity	EN 55024:1998+A1:2001+A2:2003 (Class B)
Safety U.S. and Canada International	UL, cUL listed; EN 60950-1:2001 IEC 60950-1:2005
Backup Archive	
On Board Device	DVD-RW, USB
Network	LAN, WAN
Base System	
Includes	HFRVS & HFVMS Software, Keyboard, Mouse, Rack Mounts, DVD-RW, Network Connectivity, Web Access, USB Port, Keyboard and Mouse PS2 Ports.

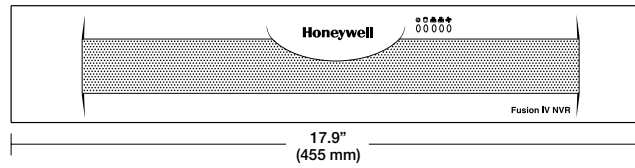
Specifications	32 Ch.	16 Ch.	8 Ch.
Cameras	32	16	8
Frame Setup - Individual (I) or Global (G)			
Resolution - Individual (I) or Global (G)			
Resolution	Variable based on camera		
IPS (up to) @ D1 Resolution	Base Model	480	480
IPS (up to) @ D1 Resolution	Plus Model	960	480
Audio (from supported cameras)	16	16	8
Intensive Record	Supported on HCX network cameras		
USB 2.0 Ports	7	7	7

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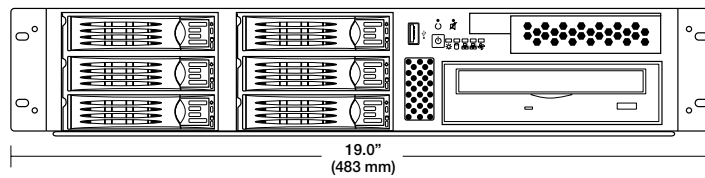
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SYSTEM DIMENSIONS

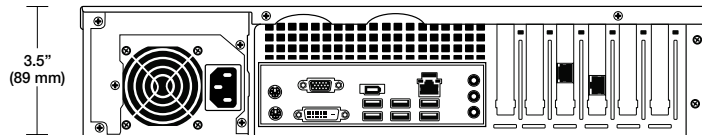
Front Bezel



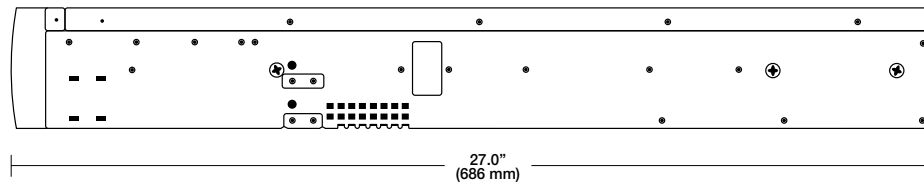
Front View



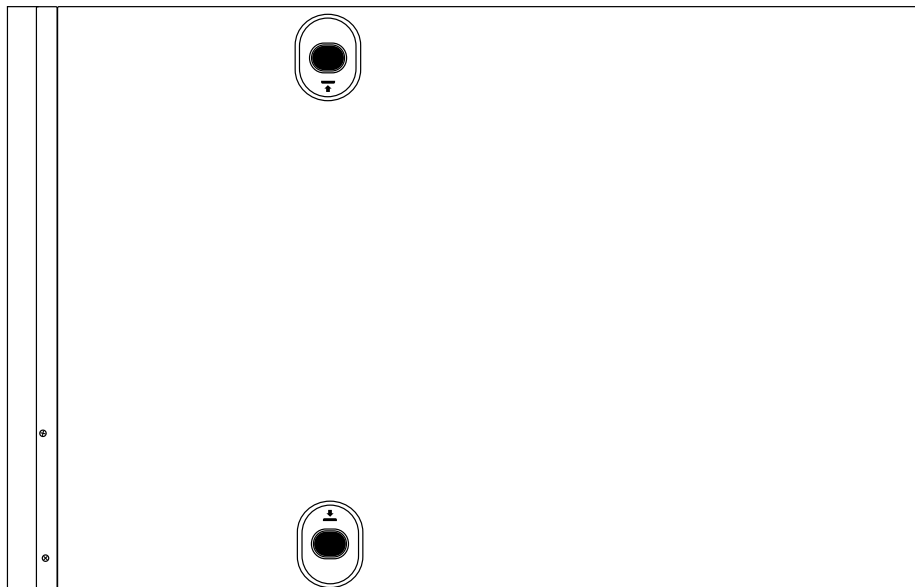
Back View



Side View



Top View



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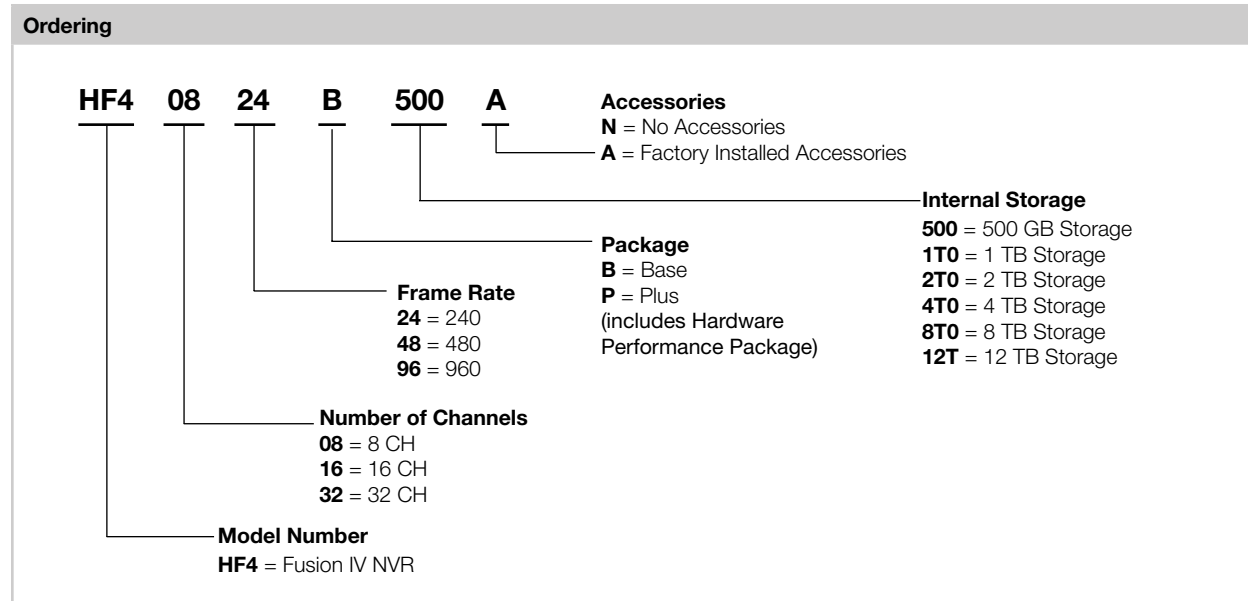
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ACCESSORIES AND ORDERING

Field Installed Accessories	
HF4HWUPGCPUF	Fusion IV Hardware Performance Package CPU & Memory Field Upgrade
HF4HD2T0	Fusion IV 2 TB Upgrade Kit
HF4HD1T0	Fusion IV 1 TB Upgrade Kit
HF4HD500	Fusion IV 500 MB Upgrade Kit
Software Part Numbers	
HFRVS	Fusion Remote View Software
HFVMS	Fusion Video Management Software
HFVMSR	Fusion to Rapid Eye Remote Software
HFLICDATA	1 CH Fusion for POS Data License
NVR Software Licenses	
HFLICNVR1	Adds 1 CH of NVR to Fusion IV
HFLICNVR4	Adds 4 CH of NVR to Fusion IV
HFLICNVR8	Adds 8 CH of NVR to Fusion IV
HFLICNVR16	Adds 16 CH of NVR to Fusion IV

Factory Installed Accessories	
HFDVREXT8T	External Storage 8 TB – includes SCSI adapter
HFDVREXR5T	External RAID 5 TB – requires separate SCSI adapter
HFDVREXR8T	External RAID 8 TB – requires separate SCSI adapter
HFDVREXR16T	External RAID 16 TB – requires separate SCSI adapter
HFDVRSCSI	SCSI interface card
HF4R5	Internal RAID 5 (3-HDD minimum requirement)
HF4HWUPGCPU	Fusion IV Hardware Performance Package, CPU & Memory upgrade
HFDVRGBNIC	Gigabit Ethernet additional port

Other Recommended Accessories	
HJZTP	PTZ camera and DVR controller
HF4RMKT	Rack mounting rails



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

Honeywell Security Group

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