

Fusion IV NVR Series

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 or 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).

The Fusion IV NVR is ideal for upgrading the head-end recording solution of existing systems or equally ideal when installing a new state-of-the-art IP surveillance network. 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 utilises 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 organisation'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 security, port security initiatives, telecommunications sites, and many other applications. When the need is for a network digital recording and management security solution, the solution 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 video 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 video 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 customised user accounts.
- Create remote back-up 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 x 1024 optimal display resolution
- 32-bit colour depth

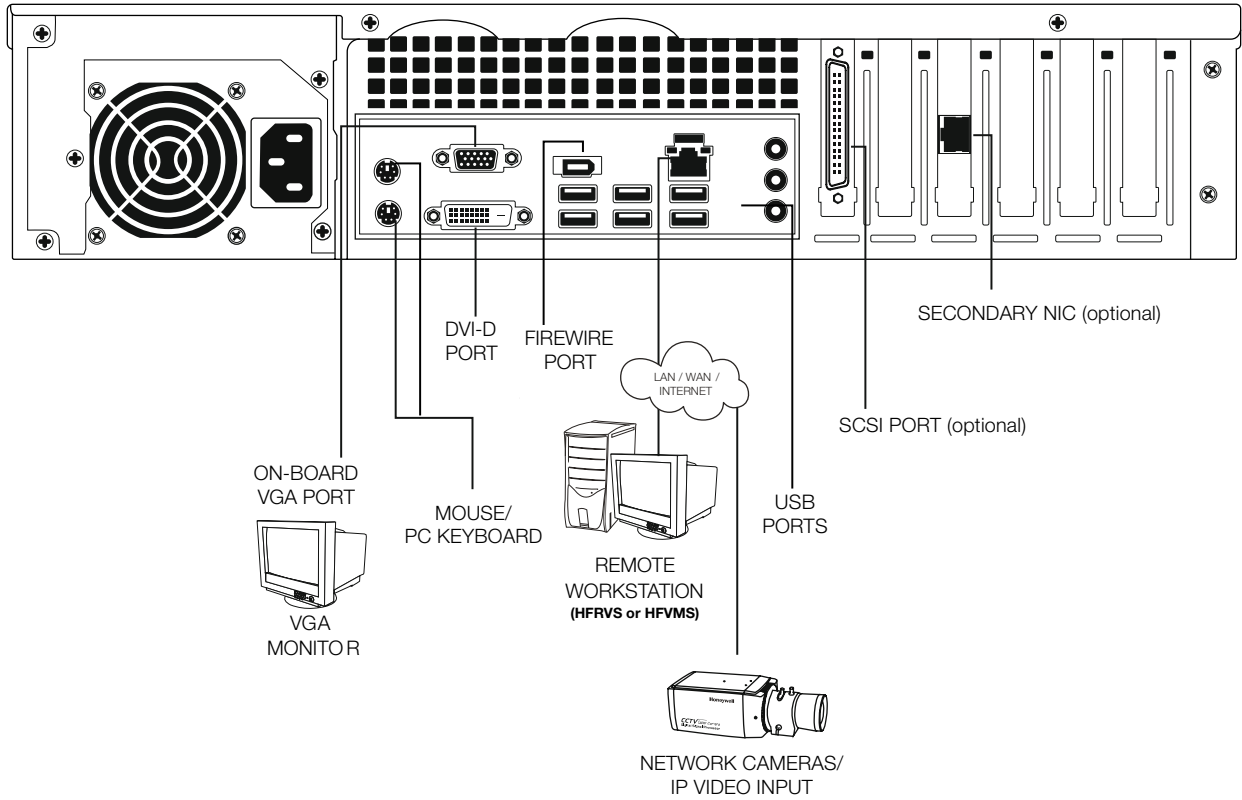
Recommended*:

- 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 x 1024 optimal display resolution
- 32-bit colour depth

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

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SYSTEM DIAGRAM



Fusion IV NVR Series

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 | 1115V/230V Auto Sensing |
| Power Consumption | Up to 480 W |
| Mechanical | |
| Dimensions (l x w x h) | 686 mm x 483 mm x 89 mm |
| Weight | 20.8kg to 23.1kg |
| Construction | Housing: Steel Chassis |
| Finish | Housing: Black Matt Paint |

| Environmental | |
|--------------------------------------|--|
| Temperature | Operating: 5°C to 40°C |
| | Storage: -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 |

| Honeywell IP Cameras | |
|----------------------|-------------------------|
| HCS554IPX | HCX5DW2 |
| HCD554IPX | HCX13MW |
| HD3MDIPX | ACUIX™ IP |
| HD4DIPX | HNVE1 (Network Encoder) |
| HCX3W | |

| Specifications | | 32 Ch. | 16 Ch. | 8 Ch. |
|---|------------|----------------------------------|--------|-------|
| Cameras | | 32 | 16 | 8 |
| Frame Set-up - Individual (I) or Global (G) | | 1 | 1 | 1 |
| Resolution - Individual (I) or Global (G) | | 1 | 1 | 1 |
| Resolution | | Variable based on camera | | |
| IPS (up to) @ D1 Resolution | Base Model | 400 | 400 | 200 |
| IPS (up to) @ D1 Resolution | Plus Model | 800 | 400 | 200 |
| Audio (from supported cameras) | | 16 | 16 | 8 |
| Intensive Record | | Supported on HCX network cameras | | |
| USB 2.0 Ports | | 7 | 7 | 7 |

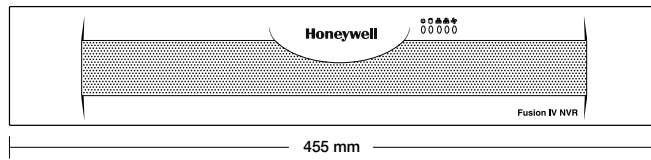
Other supported IP cameras

Go to the Fusion product web page for a comprehensive list of the wide range of IP cameras supported by Fusion IV.

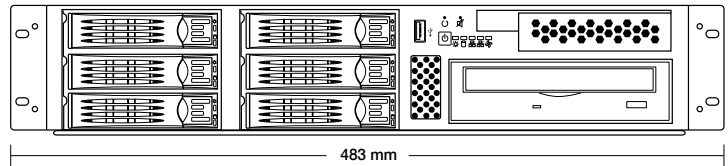
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SYSTEM DIMENSIONS

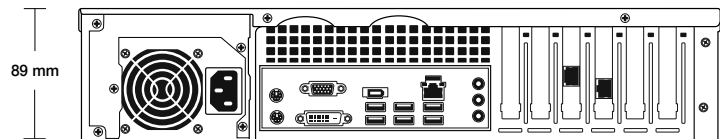
Front Bezel



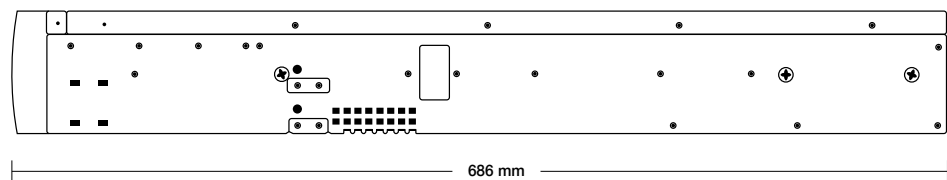
Front View



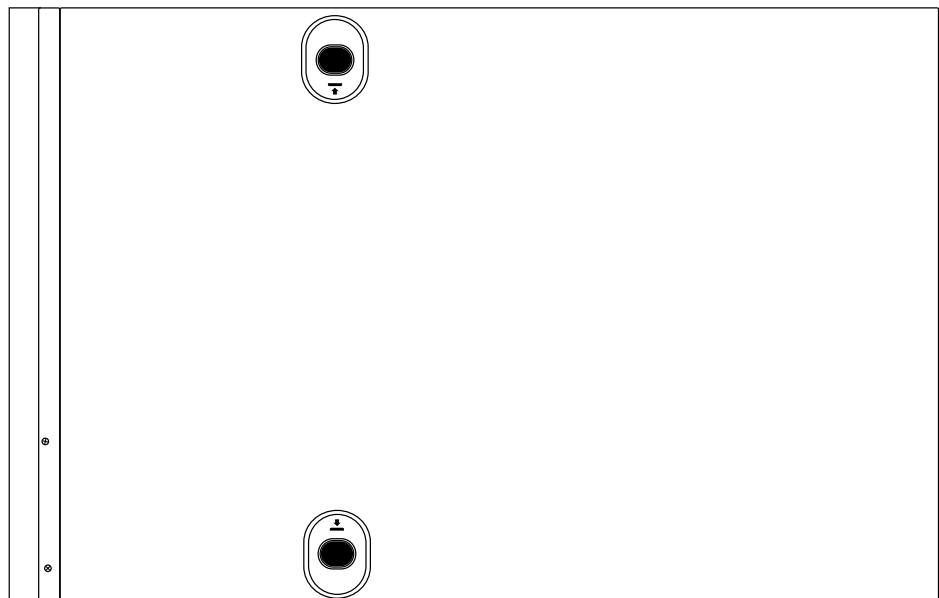
Back View



Side View



Top View



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ACCESSORIES

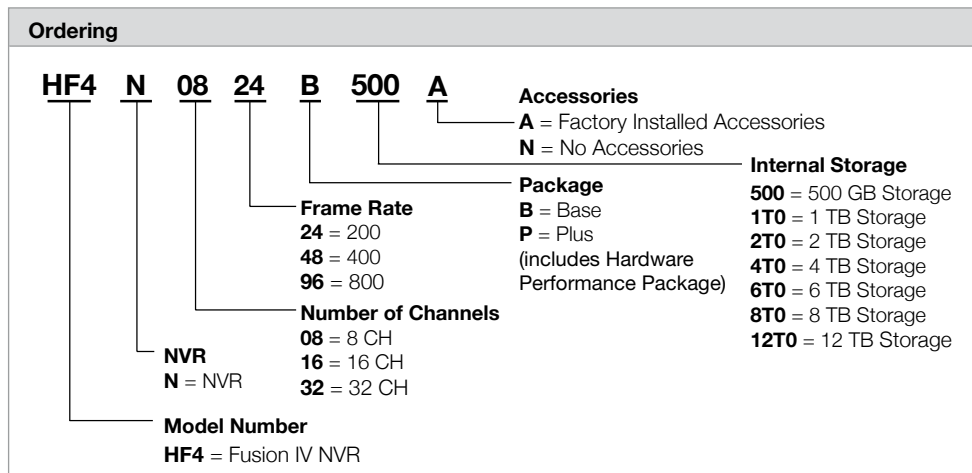
| Factory Installed Accessories | |
|---|--|
| HF4HWUPGCPU | Fusion IV Hardware Performance Package (Includes Quad Core CPU & 1GB Memory Upgrade) |
| HF4R5 | Fusion IV Internal RAID5 Configuration (Must have 3 drives) |
| HF4GBNIC | Gigabit Network Interface – adds 2nd Ethernet Port to Fusion IV |
| HFDVR4VOU | 4 CH Analogue TV Output Card for all Fusion IV DVR models |
| HF4VOU | 4 CH Multiplexed Analogue TV Output Card for all Fusion IV DVR models |
| HFDVR16AUDIO | 16 CH Audio Input Card for all Fusion IV DVR models |
| HAABF ^{1 2} | Video Analytics Active Alert® Base Package |
| HAASF ^{1 2} | Video Analytics Active Alert® Standard Package |
| HAAPF ^{1 2} | Video Analytics Active Alert® Premium Package |
| HASIF ^{1 2} | Video Analytics Smart Impressions |
| HAACF ^{1 2} | Video Analytics People Counter |
| HFANPRAPP1 ^{1 2} | 1 CH of Fusion ANPR Engine and Application Software (ANPR Review and Database) |
| HFANPRAPP2 ^{1 2} | 2 CH of Fusion ANPR Engine and Application Software (ANPR Review and Database) |
| HFANPRAPP3 ^{1 2} | 3 CH of Fusion ANPR Engine and Application Software (ANPR Review and Database) |
| External Storage Accessories | |
| HE520RA4 | 4 BAY Raid 5 - 1RU SCSI U320 Rackmount 500GB SATA II Hard Drives. 2.0 TB Total Capacity |
| HE530RA4 | 4 BAY Raid 5 - 1RU SCSI U320 Rackmount 750GB SATA II Hard Drives. 3.0 TB Total Capacity |
| HE540RA4 | 4 BAY Raid 5 - 1RU SCSI U320 Rackmount 1TB SATA II Hard Drives. 4.0 TB Total Capacity |
| HE560RA8 | 8 BAY Raid 5 - 2RU SCSI U320 Rackmount 750GB SATA II Hard Drives. 6.0 TB Total Capacity |
| HE580RA8 | 8 BAY Raid 5 - 2RU SCSI U320 Rackmount 1TB SATA II Hard Drives. 8.0 TB Total Capacity |
| HE590RA12 | 12 BAY Raid 5 - 2RU SCSI U320 Rackmount 750GB SATA II Hard Drives. 9.0 TB Total Capacity |
| HE5120RA16 | 16 BAY Raid 5 - 3RU SCSI U320 Rackmount 750GB SATA II Hard Drives. 12.0 TB Total Capacity |
| HE5160RA16 | 16 BAY Raid 5 - 3RU SCSI U320 Rackmount 1TB SATA II Hard Drives. 16.0 TB Total Capacity |
| ASC39160 | SCSI adapter card for controlling Raid 5 U320 systems. To be used with Fusion IV DVRs |
| Field Installed Accessories | |
| HF4HWUPGCPUF | Fusion IV Hardware Performance Package (Includes Quad Core CPU & 1GB Memory Upgrade) |
| HF4RMKT | Rack Mounting Rails for Fusion IV NVR models |
| HF4HD2T0 | Fusion IV 2 TB Upgrade Kit (Includes Fusion IV Drive Tray) |
| HF4HD1T0 | Fusion IV 1 TB Upgrade Kit (Includes Fusion IV Drive Tray) |
| HF4HD500 | Fusion IV 500 GB Upgrade Kit (Includes Fusion IV Drive Tray) |
| Software Part Numbers | |
| HFRVS | Fusion Remote View Software |
| HFVMS | Fusion Video Management Software |
| HFVMSR | Fusion to Rapid Eye™ Remote Software |
| IP and POS Data Software Licenses | |
| HFLICNVR1 | 1 CH Fusion IP/ Network Video License (Add up to 4 CH of Network Video to Fusion IV Systems) |
| HFLICNVR4 | 4 CH Fusion IP/ Network Video License (Add 4 CH of Network Video to Fusion IV Systems) |
| HFLICNVR8 ² | 8 CH Fusion IP/ Network Video License (Add 8 CH of Network Video to Fusion IV Systems) |
| HFLICNVR16 ² | 16 CH Fusion IP/ Network Video License (Add 16 CH of Network Video to Fusion IV Systems) |
| HFLICDATA | 1 CH Fusion 4 Alarm Panel for POS Data License |
| Other Recommended Accessories | |
| HJZTPX | HJZTPX PTZ camera and DVR controller |
| <p>1 Up to 4 channels of any combination of Video Analytic packages or up to 6 ANPR channels. Video Analytics and ANPR options are available with 200 IPS and 400 IPS real time Fusion IV configurations only.</p> <p>2 Requires HF4HWUPGCPU.</p> | |

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ORDERING

| Part Number | Channels | Frame Rate @ 4 CIF | Performance Processor | Storage | Image Compression |
|----------------------|----------|--------------------|-----------------------|---------|----------------------|
| HF4N3296P12T0A | 32 | 800 | Yes | 12 TB | MPEG-4, MJPEG, H.264 |
| HF4N3296P8T0A | 32 | 800 | Yes | 8 TB | MPEG-4, MJPEG, H.264 |
| HF4N3296P6T0A | 32 | 800 | Yes | 6 TB | MPEG-4, MJPEG, H.264 |
| HF4N3296P4T0A | 32 | 800 | Yes | 4 TB | MPEG-4, MJPEG, H.264 |
| HF4N3296P2T0A | 32 | 800 | Yes | 2 TB | MPEG-4, MJPEG, H.264 |
| HF4N3296P1T0A | 32 | 800 | Yes | 1 TB | MPEG-4, MJPEG, H.264 |
| HF4N3296P500(N or A) | 32 | 800 | Yes | 500 GB | MPEG-4, MJPEG, H.264 |
| HF4N3248B12T0A | 32 | 400 | | 12 TB | MPEG-4, MJPEG, H.264 |
| HF4N3248B8T0A | 32 | 400 | | 8 TB | MPEG-4, MJPEG, H.264 |
| HF4N3248B6T0A | 32 | 400 | | 6 TB | MPEG-4, MJPEG, H.264 |
| HF4N3248B4T0A | 32 | 400 | | 4 TB | MPEG-4, MJPEG, H.264 |
| HF4N3248B2T0A | 32 | 400 | | 2 TB | MPEG-4, MJPEG, H.264 |
| HF4N3248B1T0A | 32 | 400 | | 1 TB | MPEG-4, MJPEG, H.264 |
| HF4N3248B500(N or A) | 32 | 400 | | 500 GB | MPEG-4, MJPEG, H.264 |
| HF4N1648P12T0A | 16 | 400 | Yes | 12 TB | MPEG-4, MJPEG, H.264 |
| HF4N1648P8T0A | 16 | 400 | Yes | 8 TB | MPEG-4, MJPEG, H.264 |
| HF4N1648P6T0A | 16 | 400 | Yes | 6 TB | MPEG-4, MJPEG, H.264 |
| HF4N1648P4T0A | 16 | 400 | Yes | 4 TB | MPEG-4, MJPEG, H.264 |
| HF4N1648P2T0A | 16 | 400 | Yes | 2 TB | MPEG-4, MJPEG, H.264 |
| HF4N1648P1T0A | 16 | 400 | Yes | 1 TB | MPEG-4, MJPEG, H.264 |
| HF4N1648P500(N or A) | 16 | 400 | Yes | 500 GB | MPEG-4, MJPEG, H.264 |
| HF4N1648B12T0A | 16 | 400 | | 12 TB | MPEG-4, MJPEG, H.264 |
| HF4N1648B8T0A | 16 | 400 | | 8 TB | MPEG-4, MJPEG, H.264 |
| HF4N1648B6T0A | 16 | 400 | | 6 TB | MPEG-4, MJPEG, H.264 |
| HF4N1648B4T0A | 16 | 400 | | 4 TB | MPEG-4, MJPEG, H.264 |
| HF4N1648B2T0A | 16 | 400 | | 2 TB | MPEG-4, MJPEG, H.264 |
| HF4N1648B1T0A | 16 | 400 | | 1 TB | MPEG-4, MJPEG, H.264 |
| HF4N1648B500(N or A) | 16 | 400 | | 500 GB | MPEG-4, MJPEG, H.264 |
| HF4N0824B12T0A | 8 | 200 | | 12 TB | MPEG-4, MJPEG, H.264 |
| HF4N0824B8T0A | 8 | 200 | | 8 TB | MPEG-4, MJPEG, H.264 |
| HF4N0824B6T0A | 8 | 200 | | 6 TB | MPEG-4, MJPEG, H.264 |
| HF4N0824B4T0A | 8 | 200 | | 4 TB | MPEG-4, MJPEG, H.264 |
| HF4N0824B2T0A | 8 | 200 | | 2 TB | MPEG-4, MJPEG, H.264 |
| HF4N0824B1T0A | 8 | 200 | | 1 TB | MPEG-4, MJPEG, H.264 |
| HF4N0824B500(N or A) | 8 | 200 | | 500 GB | MPEG-4, MJPEG, H.264 |

Note: The letter "N" at the end of the part number signifies no factory installed accessories. The letter "A" at the end of the part number signifies factory installed accessories. Factory installed accessories MUST be ordered at the same time as the DVR.



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

Honeywell Security Group

Honeywell Systems Group
Aston Fields Road
Whitehouse Industrial Estate
Runcorn
Cheshire
WA7 3DL
Tel: 08448 000 235
www.honeywell.com

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