

FortesNVR Enterprise+ and Enterprise Series

36 to 128 Channels, Rack Mountable with Hot Swappable HDD Bays



Infinique offers a wide range of video management solutions for IP based video surveillance that are extremely easy to install, use and maintain. The hardware is optimized for video surveillance by consolidating disparate components into a single chassis which is energy efficient and greatly improves the total cost of ownership. The application software has an open architecture that comply to Onvif and industry standard protocols, making it future proof and providing peace of mind for your investment. From small to very large installations, Infinique's IP based video recorders are an ideal solution for today's high demanding video surveillance needs.

Maximum Performance

Infinique's FortesNVR Professional Series is designed with server class hardware and is preloaded with Linux operating system and video management software. The performance is boosted by Dual Core 1.8GHz or Higher Processor and high capacity RAM to meet the demands of high security video surveillance with HD video recording and playback operations. The NVR supports recording and playback video streams ranging from 36, 64, 100 and 128 channels, which can be easily scaled to support additional channels by automatic bridging of multiple FortesNVRs.

FortesNVR functions as a stand-alone NVR and boasts a total throughput of 2 x 500 Mbps of network bandwidth. However the total number of cameras supported depends on the desired frame rate, the number of simultaneous client connections, streams played back, and the available bandwidth.

Reliability

FortesNVRs high reliability is achieved by Linux® operating system and FortesVMS hosted on SSD system drive, as this provides high read-write speeds with no moving parts. It also ensures increased uptime and system response time, compared to systems which have the OS installed on conventional hard disk drives. Enterprise NVRs comes in 3U and 4U sizes with 16 and 24 hot swappable HDD drives. The storage can also be expanded with external storage through iSCSI, SAN and eSATA.

PRODUCT FEATURES

- Appliance NVR with Dual core 1.8GHz Processor, designed for enterprise video surveillance
- Stable Linux OS and X-Windows with 3D GUI by OpenGL.
- Supports 36, 64, 100, 128 Channels with recording resolution of up to 4K 8MP
- Simultaneous real time live view, recording, remote access and playback of 100 Channels in D1 is supported
- Storage Capacity 16 / 24 hot swappable HDD bays can be further expanded using SAN device
- Open architecture ensures support for a large number of ONVIF Compliant IP cameras
- Scalable solution offered by automatic bridging of multiple NVRs, to support additional IP Cameras
- Virtualization of multiple NVRs as a single logical unit is achieved through CMS, which enables centralized monitoring and management up to 4000+ channels from a single location
- Network Health and Event Monitoring
- Supports ONVIF and RTSP video protocols
- Energy efficient, has a very low power consumption
- Easy to install, comes with standard rack mountable chassis.

FortesVMS (Video Management Software)

FortesVMS brings in the stability and reliability which is essential for a video surveillance system. FortesVMS is an advanced video management system to cater any surveillance application needs. The Linux®-based operating system used utilizes an XFS file system for maintaining the video files and has automated defragmentation routines to keep the database from becoming fragmented. XFS has been widely proved to be a superior and stable file format for the data intensive video surveillance recording applications than the Windows® based recorders which come with their standard NTFS file system.

FortesMonitor - Centralized Monitoring

Advanced feature rich FortesMonitor provides centralized monitoring, control and management of multiple servers installed at different locations. A single instance of FortesMonitor installed on a high performance PC can support up to 4000+ cameras. In a single live monitor window up to 32x32 or 1024 live channels from multiple servers can be monitored, and multiple such windows can be managed simultaneously. This easy to use software, helps security professionals manage and interact with high definition video in the most efficient way.

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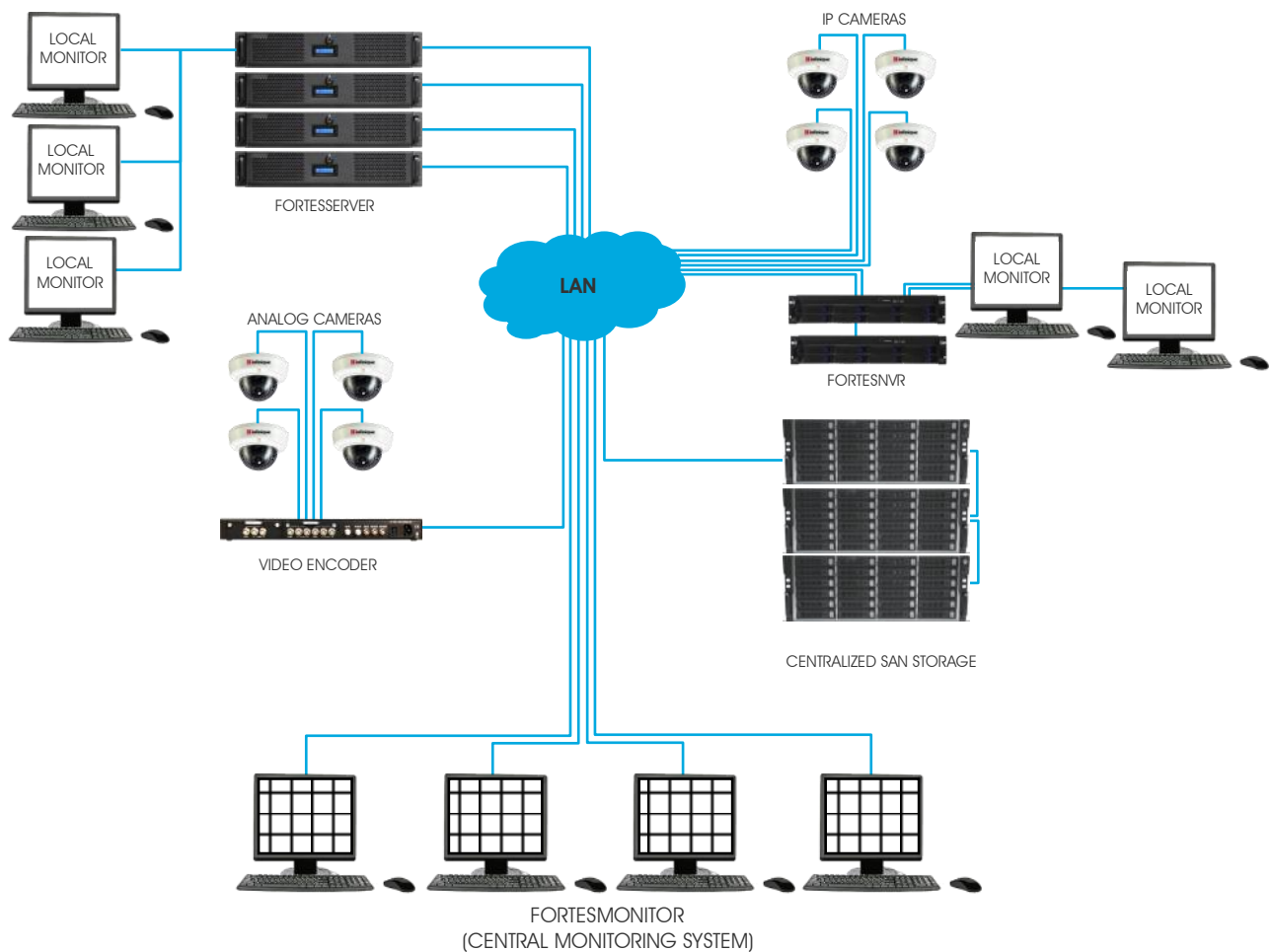
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Open Architecture

FortesNVR is ONVIF compliant and provides a true open architecture that ensures support for a large number of IP cameras and encoders from various manufacturers. The system is also compatible with different video compression formats such as H.264 and H.265. It is built using industry open standard hardware and operating system which has been integrated for easy commissioning of IP video surveillance. This optimized integrated solution offered by Infinique provides peace

of mind and removes the compatibility risks and unavailability of prompt support associated with solutions where VMS software and the hardware are sourced from different vendors. Third party system integration such as access control and building management systems are supported through a comprehensive SDK. All these features combined, makes FortesNVR a truly open architecture platform.

Conceptual Overview



NOTE. The above network configuration is a conceptual overview only and is not intended to show a detailed network topology. The actual network requirements for your installation will differ based on the configuration, requiring changes or perhaps additional network equipment. Please contact Infinique representative to discuss your specific requirements.

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SYSTEM	
Processor	Intel® XEON™ Dual Core 1.8GHz
Operating System	Linux and X-Windows with OpenGL
OS Device	4GB mSATA or DiskOnModule
Memory	DDR3 SDRAM 16GB
User Interface	Fortes VMS (GUI direct from NVR)
Camera Channels	36, 64, 100, 128 Channels
Hot Swappable HDD	16 / 24 SATA HDDs
USB Interface	6x Ports - 2 Front and 4 Rear
PTZ Controller	USB Serial Port
Alarm Ports	8x Digital Inputs, 8x Digital Outputs
Ethernet Interface	Gigabit Ethernet Ports 1000Base-T
RAID	RAID5 / RAID6 Controller Card
Cameras Supported	Infinique, ONVIF Compliant Cameras and Native Integration for major camera brands
CLIENT MODULES	
FortesMonitor	Centralized Management and Monitoring
FortesMobile	Smart Phone App to watch live video
Web Client	Control and Watch Live from remote PC
VNC/SSH Client	NVR Remote Setup and Configuration
VIDEO AND AUDIO	
Video System	NVidia 1GB Low Profile
Maximum Resolution	4K 8MP
Video Outputs	1x VGA, 1x HDMI Ports
Video Standards	NTSC 60 Hz, PAL 75 Hz
Video Decoding	H.265, H.264, MJPEG, MPEG4
Audio Codec	G.711
Two way Audio	Yes, if supported by camera
Audio Port	1x Audio In, 1x Audio Out
FUNCTIONS SUPPORTED	
Recording	Continuous, Scheduled and Event
Network Protocol	IPv4, HTTP, HTTPS, TCP/IP, Unicast/Multicast, UDP, RTP, RTSP, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, SRTP, IEEE802.1X, IP Filtering
Screen Display	Single-channel, Multi-channel, Sequence supported. 1, 4, 9, 16, 32, 64, 100, 128 display supported
Events	Motion Detection, Sensor, Alarm, Video Loss, Video Recovery, Disk Failure, RAID Status Change
Event Handlers	Warning Message, Popup, Border Blink, Alarm, PTZ Link, Recording
Video Backup	AVI, JPG, BMP File Format
Digital Zoom	Up to 10X
Display	Triple Display: Clone or Expand, Sequence (Spot)
Miscellaneous	Free DDNS, Built-in NTP Server, HDD Health Monitoring using SMART

MECHANICAL	
Form Factor	Industrial Grade 3U / 4U Rack Mount Chassis
Construction	Steel Cabinet with Metallic Black Finishing
ELECTRICAL	
Power Input	100-240VAC, 50/60hz, Auto Switching
Power Supply	Internal
Power Consumption	Max 4.74A @ DC 19V
ENVIRONMENTAL	
Operating Temperature (C)	10 to 35 (50° to 95°F)
Storage Temperature (C)	-40 to 70° (-40° to 158°F)
Operating Humidity	8% to 90% RH, non-condensing
Non-Operating Humidity	5% to 95%, non-condensing
Operating Altitude (m)	-16 to 3048 (-50ft to 10,000ft)
Note: The server room temperature can be affected by air conditioning system, floor layout, rack configuration, etc. The NVR air intake temperature, can be significantly higher than the room temperature. To prevent system and hard drive failure, make sure the air intake temperature of the Server is always within the operating temperature range.	
ACCESSORIES SUPPLIED	
Rack Mount Kit	Brackets, rails and connecting hardware
Power Cord	Based on country; 3 prong molded connector, 1.8 m (6 ft) Cord Length
USB Mouse	1 nos
Documentation	CMS Software CD, NVR Manual.
FORTESMONITOR CLIENT PC REQUIREMENTS	
Web Browser	Microsoft® Internet Explorer® 6.x or later
Processor	2nd Generation Intel® Core™ i7 3.4 GHz or higher
Memory	4 GB DDR3 or higher
Video Card	PCI Express, DirectX 9.0c compliant with 128 MB RAM (Intel® GMA 900, NVIDIA® 6600, ATI X1300 or higher)
Network Interface	100 Mbps (minimum) 1 Gbps (recommended)
Graphics Card	512MB or more dedicated memory
STANDARDS COMPLIANCE	
Emissions	FCC Part 15 Subpart B Class B EN 55022:2010 IC ICES-003 Class B
Immunity	EN 55024:2010
Safety	UL 609501, EU: 2001/95/EC GPSD

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ORDERING INFORMATION	
PART NUMBER	DESCRIPTION
INR36-108F16E-3	Infinique FortesNVR Enterprise Series, 36Ch Real-time Display and Recording, 2 x 500Mbps Network Bandwidth, Recording @1080fps in Full HD, HD, D1, H.264, H.265, 16 x Hot Swappable HDD Slots, Dual LAN, 3U Rack Mountable, HDD not included, No Camera Licensing Fee
INR64-192H16E-3	Infinique FortesNVR Enterprise Series, 64Ch Real-time Display and Recording, 2 x 500Mbps Network Bandwidth, Recording @1080fps in Full HD, @1920fps in HD, D1, H.264, H.265, 16 x Hot Swappable HDD Slots, Dual LAN, 3U Rack Mountable, HDD not included, No Camera Licensing Fee
INR64-192H16E-3R	Infinique FortesNVR Enterprise Series, 64Ch Real-time Display and Recording, 2 x 500Mbps Network Bandwidth, Recording @1080fps in Full HD, @1920fps in HD, D1, H.264, H.265, 16 x Hot Swappable HDD Slots, Dual LAN, RAID5/RAID6, Dual Power, 3U Rack Mountable, HDD not included, No Camera Licensing Fee
INR64-192H16E-3N	Infinique FortesNVR Enterprise Series, 64Ch Real-time Display and Recording, 2 x 500Mbps Network Bandwidth, Recording @1080fps in Full HD, @1920fps in HD, D1, H.264, H.265, 16 x Hot Swappable HDD Slots, Dual LAN, SAN Support, Dual Power, 3U Rack Mountable, HDD not included, No Camera Licensing Fee
INR100-300D16E-3	Infinique FortesNVR Enterprise Series, 100Ch Real-time Display and Recording, 2 x 500Mbps Network Bandwidth, Recording @1920fps in Full HD, @3840fps in HD, D1, H.264, H.265, 16 x Hot Swappable HDD Slots, Dual LAN, 3U Rack Mountable, HDD not included, No Camera Licensing Fee
INR100-300D16E-3R	Infinique FortesNVR Enterprise Series, 100Ch Real-time Display and Recording, 2 x 500Mbps Network Bandwidth, Recording @1920fps in Full HD, @3840fps in HD, D1, H.264, H.265, 16 x Hot Swappable HDD Slots, Dual LAN, RAID5/RAID6, Dual Power, 3U Rack Mountable, HDD not included, No Camera Licensing Fee
INR100-300D16E-3N	Infinique FortesNVR Enterprise Series, 100Ch Real-time Display and Recording, 2 x 500Mbps Network Bandwidth, Recording @1920fps in Full HD, @3840fps in HD, D1, H.264, H.265, 16 x Hot Swappable HDD Slots, Dual LAN, SAN Support, Dual Power, 3U Rack Mountable, HDD not included, No Camera Licensing Fee
INR128-384D16E-3	Infinique FortesNVR Enterprise Series, 128Ch Real-time Display and Recording, 2 x 500Mbps Network Bandwidth, Recording @1920fps in Full HD, @3840fps in HD, D1, H.264, H.265, 16 x Hot Swappable HDD Slots, Dual LAN, 3U Rack Mountable, HDD not included, No Camera Licensing Fee
INR128-384D16E-3R	Infinique FortesNVR Enterprise Series, 128Ch Real-time Display and Recording, 2 x 500Mbps Network Bandwidth, Recording @1920fps in Full HD, @3840fps in HD, D1, H.264, H.265, 16 x Hot Swappable HDD Slots, Dual LAN, RAID5/RAID6, Dual Power, 3U Rack Mountable, HDD not included, No Camera Licensing Fee
INR128-384D16E-3N	Infinique FortesNVR Enterprise Series, 128Ch Real-time Display and Recording, 2 x 500Mbps Network Bandwidth, Recording @1920fps in Full HD, @3840fps in HD, D1, H.264, H.265, 16 x Hot Swappable HDD Slots, Dual LAN, SAN Support, Dual Power, 3U Rack Mountable, HDD not included, No Camera Licensing Fee
INR64-192H24E-4	Infinique FortesNVR Enterprise+ Series, 64Ch Real-time Display and Recording, 2 x 500Mbps Network Bandwidth, Recording @1080fps in Full HD, @1920fps in HD, @3000fps in D1, H.264, H.265, 24 x Hot Swappable HDD Slots, 4U Rack Mountable, HDD not included, No Camera Licensing Fee
INR64-192H24E-4R	Infinique FortesNVR Enterprise+ Series, 64Ch Real-time Display and Recording, 2 x 500Mbps Network Bandwidth, Recording @1080fps in Full HD, @1920fps in HD, @3000fps in D1, H.264, H.265, 24 x Hot Swappable HDD Slots, RAID5/RAID6, Dual Power, 4U Rack Mountable, HDD not included, No Camera Licensing Fee
INR64-192H24E-4N	Infinique FortesNVR Enterprise+ Series, 64Ch Real-time Display and Recording, 2 x 500Mbps Network Bandwidth, Recording @1080fps in Full HD, @1920fps in HD, @3000fps in D1, H.264, H.265, 24 x Hot Swappable HDD Slots, SAN Support, Dual Power, 4U Rack Mountable, HDD not included, No Camera Licensing Fee
INR100-300D24E-4	Infinique FortesNVR Enterprise+ Series, 100Ch Real-time Display and Recording, 2 x 500Mbps Network Bandwidth, Recording @1080fps in Full HD, @1920fps in HD, @3000fps in D1, H.264, H.265, 24 x Hot Swappable HDD Slots, 4U Rack Mountable, HDD not included, No Camera Licensing Fee
INR100-300D24E-4R	Infinique FortesNVR Enterprise+ Series, 100Ch Real-time Display and Recording, 2 x 500Mbps Network Bandwidth, Recording @1080fps in Full HD, @1920fps in HD, @3000fps in D1, H.264, H.265, 24 x Hot Swappable HDD Slots, RAID5/RAID6, Dual Power, 4U Rack Mountable, HDD not included, No Camera Licensing Fee
INR100-300D24E-4N	Infinique FortesNVR Enterprise+ Series, 100Ch Real-time Display and Recording, 2 x 500Mbps Network Bandwidth, Recording @1080fps in Full HD, @1920fps in HD, @3000fps in D1, H.264, H.265, 24 x Hot Swappable HDD Slots, SAN Support, Dual Power, 4U Rack Mountable, HDD not included, No Camera Licensing Fee
INR128-384D24E-4	Infinique FortesNVR Enterprise+ Series, 128Ch Realtime Display and Recording, 500Mbps x 2 Network Bandwidth, Recording @1920fps in Full HD, @3840fps in HD, H.264, H.265, 24 x Hot Swappable HDD Slots, 2 x RJ45 Gigabit Ethernet LAN Ports, 4U Rack Mountable, HDD not included, No Camera Licensing Fee
INR128-384D24E-4R	Infinique FortesNVR Enterprise+ Series, 128Ch Realtime Display and Recording, 500Mbps x 2 Network Bandwidth, Recording @1920fps in Full HD, @3840fps in HD, H.264, H.265, 24 x Hot Swappable HDD Slots, 2 x RJ45 Gigabit Ethernet LAN Ports, RAID5/RAID6, Dual Power, 4U Rack Mountable, HDD not included, No Camera Licensing Fee
INR128-384D24E-4N	Infinique FortesNVR Enterprise+ Series, 128Ch Realtime Display and Recording, 500Mbps x 2 Network Bandwidth, Recording @1920fps in Full HD, @3840fps in HD, H.264, H.265, 24 x Hot Swappable HDD Slots, 2 x RJ45 Gigabit Ethernet LAN Ports, SAN Support, Dual Power, 4U Rack Mountable, HDD not included, No Camera Licensing Fee
ICMS08	FortesMonitor License for 128 Cameras and 8 NVR's
ICMS16	FortesMonitor License for 256 Cameras and 16 NVR's
ICMS64	FortesMonitor License for 1024 Cameras and 64 NVR's
ICMS128	FortesMonitor License for 1024 Cameras and 128 NVR's
ICMS256	FortesMonitor License for 4096 Cameras and 256 NVR's
FortesVMS	Infinique FortesVMS, Enterprise Class Video Management Software, Pre-installed on FortesServer and FortesNVR, Centralized SAN Storage Support Using iSCSI or Fiber Channel, Failover Mechanism, Scalable with Automatic Bridging of Multiple Servers, ONVIF Compliant, No Camera Licensing Fee
INR-DIO-4I-4O	Infinique FortesNVR Series, Digital IO Module, 4 Input Ports, 4 Output Ports



Infinique, a Canadian company is a manufacturer of high performing end-to-end solutions in copper, fiber and video surveillance systems. For more information visit our website at www.infinique.com or email us at sales@infinique.com.