

16 to 64 Channels, Rack Mountable 2U Chassis 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 System Series is designed with high quality 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 NVRs support recording and playback video streams ranging from 9 to 64 channels and 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 545~660 Mbps of recording and 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.

PRODUCT FEATURES

- Video recording solution with Intel® XEON™ Processor and Server hardware that is optimized for Fortes video management software
- Stable Linux OS and VMS on SSD drive with high read-write speeds and no moving parts for increased system response time and reliability
- Each server supports 16, 25, 36 and 64 channels and is scalable by automatic bridging of multiple NVRs to support additional IP Cameras
- Virtualization of multiple servers as a single logical unit is achieved through CMS, which enables centralized monitoring and management up to 4000+ channels from a single location
- Supports ONVIF and RTSP video protocols; ensures use for large number of such complaint IP cameras
- Network Health and Event Monitoring
- 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 has all the functionality of 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.

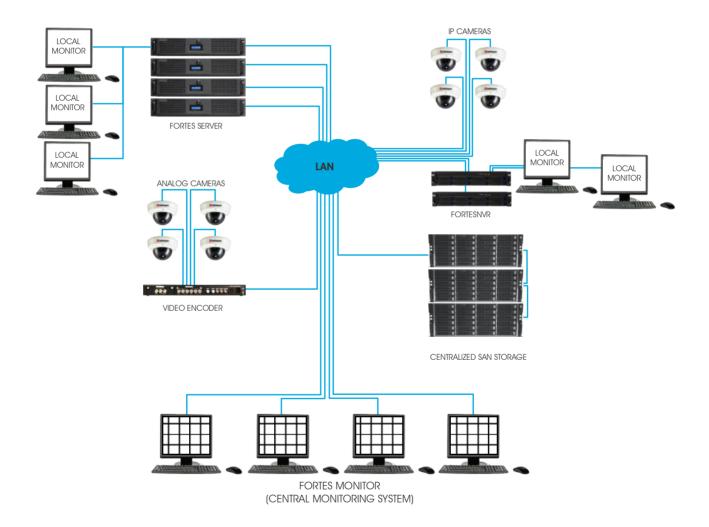
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Open Architecture

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 is integrated for easy commissioning of IP video surveillance. This open 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 SDK. All these features put together make FortesNVR Server a truly open architecture platform that can address your security needs.

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 4GB to 16GB based on the NVR model		
User Interface	Fortes VMS (GUI direct from NVR)		
Camera Channels	16, 25, 36, 64 Channels		
Storage	4x Hot Swappable Bays for SAS/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 1 000Base-T		
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	1920 x 1200 DVI, HDMI, VGA		
Video Outputs	1x VGA, 1x HDMI Ports		
Video Standards	NTSC 60 Hz, PAL 75 Hz		
Video Decoding	MJPEG, MPEG4, H.264 and H.265		
Audio Codec	G.711		
Two way Audio	Yes, if supported by camera		
Audio Port	1x Audio In, 1x Audio Out		
FUNCTIONS SUPPOR	RTED		
Recording	Continuous, Scheduled and Event		
Security	HTTPS, SRTP, IP Filtering		
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	Dual Display: Clone or Expand		
Miscellaneous	Free DDNS, Built-in NTP Server, HDD Health Monitoring using SMART		

MECHANICAL					
Form Factor	Industrial Grade 2U Rack Mount Chassis				
Construction	Steel Cabinet with Metallic Black Finishing				
Dimensions (mm)	430(w) x 44(h) x 480(d)				
Weight (kg)	6.53 (14.4 lb)				
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%, non-condensing				
Non-Operating Humidity	5% to 95%, non-condensing				
Operating Altitude	-16m to 3048m (-50ft to 10,000ft)				
failure, make sure the air operating temperature range ACCESSORIES SUPPLIE					
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	m (6 ft) Cord Length				
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Documentation					
Documentation	1 nos				
Documentation	1 nos CMS Software CD, NVR Manual.				
Documentation FORTESMONITOR CLIE	1 nos CMS Software CD, NVR Manual. ENT PC REQUIREMENTS				
Documentation FORTESMONITOR CLIE Web Browser	1 nos CMS Software CD, NVR Manual. ENT PC REQUIREMENTS Microsoft® Internet Explorer® 6.x or later				
Documentation FORTESMONITOR CLIE Web Browser Processor	1 nos CMS Software CD, NVR Manual. ENT PC REQUIREMENTS Microsoft® Internet Explorer® 6.x or later 2nd Generation Intel® Core™ i7 3.4 GHz or higher				
Documentation FORTESMONITOR CLIE Web Browser Processor Memory	1 nos CMS Software CD, NVR Manual. ENT PC REQUIREMENTS Microsoft® Internet Explorer® 6.x or later 2nd Generation Intel® Core™ i7 3.4 GHz or higher 4 GB DDR3 or higher PCI Express, DirectX 9.0c compliant with 128 MB RAM				
Documentation FORTESMONITOR CLIE Web Browser Processor Memory Video Card	1 nos CMS Software CD, NVR Manual. ENT PC REQUIREMENTS Microsoft® Internet Explorer® 6.x or later 2nd Generation Intel® Core™ i7 3.4 GHz or higher 4 GB DDR3 or higher PCI Express, DirectX 9.0c compliant with 128 MB RAM (Intel® GMA 900, NVIDIA® 6600, ATI X1300 or higher)				
Documentation FORTESMONITOR CLIE Web Browser Processor Memory Video Card Network Interface	1 nos CMS Software CD, NVR Manual. ENT PC REQUIREMENTS Microsoft® Internet Explorer® 6.x or later 2nd Generation Intel® Core™ i7 3.4 GHz or higher 4 GB DDR3 or higher PCI Express, DirectX 9.0c compliant with 128 MB RAM (Intel® GMA 900, NVIDIA® 6600, ATI X1300 or higher) 100 Mbps (minimum) 1 Gbps (recommended) 512MB or more dedicated memory				
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MODELS COMPARISON CHART						
Part Number	Description	Network Bandwidth	Live, Playback and Record Frame Rate			
INR16-48F4E-2 System 16 Channel NVR		1 x 500 Mbps	Full HD, HD, D1 @480fps			
INR25-108F4E-2 System 25 Channel NVR		1 x 500 Mbps	Full HD, HD, D1 @1080fps			
INR36-108F4E-2 System 36 Channel NVR		2 x 500 Mbps	Full HD, HD, D1 @1080fps			
INR64-192H4E-2 System 64 Channel NVR		2 x 500 Mbps	Full HD, HD @1080fps, D1 @1920fps			
ORDERING INFORMATION						
PART NUMBER	DESCRIPTION					
INR16-48F4E-2	Infinique FortesNVR System Series, Full HD 16Ch Realtime Display and Recording, 500Mbps Network Bandwidth, 80Mbps Record Bandwidth, Recording @480fps in Full HD, HD, D1, H.264, 4 Hot Swappable HDD Slots, 2U Rack Mountable, Hard Drive not included					
INR25-108F4E-2	Infinique FortesNVR System Series, 25Ch Realtime Display and Recording, 500Mbps Network Bandwidth, 125Mbps Record Bandwidth, Recording @750fps in Full HD, HD, D1, H.264, 4 Hot Swappable HDD Slots, 2U Rack Mountable, Hard Drive not included					
INR36-108F4E-2	Infinique FortesNVR System Series, 36Ch Realtime Display and Recording, 500Mbps Network Bandwidth, 500Mbps Record Bandwidth, Recording @1080fps in Full HD, HD, D1, H.264, H.265, 4 Hot Swappable HDD Slots, 2U Rack Mountable, Hard Drive not included					
INR64-192H4E-2	Infinique FortesNVR System Series, 64Ch Reattime Display and Recording, 500Mbps Network Bandwidth, 500Mbps Record Bandwidth, Recording @1080fps in Full HD, 1920fps in D1, H.264, H.265, 4 HDD Slots, 2U Rack Mountable, Hard Drive not included					
ICMS08	FortesMonitor License for 128 Cameras and 8 NVR's (Free of cost)					
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					
INR-DIO-4I-4O	Infinique FortesNVR Series, Digital IO Module, 4 Input Ports, 4 Output Ports					



Infinique 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.