

NVR7812/7816



- Pre-loaded Milestone XProtect VMS for large scale and distributed surveillance operations
- Support up to 150 CH 3MP cameras with continuous recording
- Support up to 316 HDDs with high density 4U 60-bay expansion enclosures (max. capacity of up to 2.5 PB with 8TB HDD)

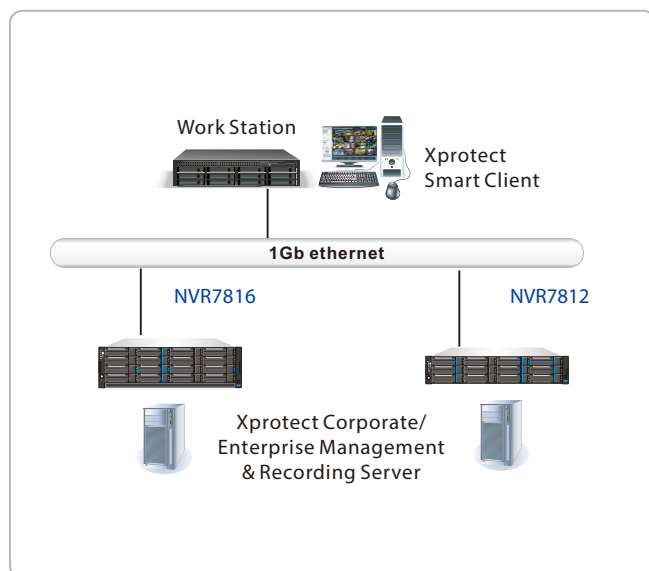
Enterprise Storage Server

- Server-storage hybrid design for best cost-performance ratio
- Cableless design with hot swappable redundant component for easy maintenance
- Built-in RAID function for data protection
- Built-in SAS expansion for JBODs with up to 316 HDDs
- Intuitive set-up page for hassle-free installation

Milestone VMS

- Xprotect® Corporate
Advanced surveillance solution in large-scale and high-security projects, such as city surveillance and airport
- XProtect® Enterprise
Medium to large surveillance solution for medium-large scale areas, such as train stations and power plants

Solution Topology



Performance Test

Xprotect Corporate 60 cameras Continuous Recording

Test Scenario 1 (NVR only)	NVR Model	Processors	Stream Profile (#of cameras, compression %)	Live Video Database Read Latency(milliseonds)	Individual Video Stream Size(Mbps)	Maximum Disk I/O (MBps)
Benchmark	NVR7812 NVR7816	i3-4330	60 camera, 30%	2	10.17	120.64
		E3-1225	60 camera, 30%	2	10.17	375.92
		E3-1275	60 camera, 30%	9	10.65	119.98
Maximum	NVR7812 NVR7816	i3-4330	110 camera, 60%	4	13.94	293.71
		E3-1225	145 camera, 60%	7	9.91	267.61
		E3-1275	150 camera, 60%	10	14.41	498.1

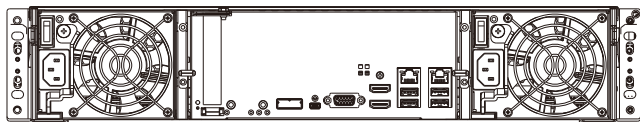
Xprotect Corporate - Video Motion Detection - RAID5 - Archiving

Test Scenario 2 (NVR +JBODs)	NVR Model	Processors	Stream Profile (#of cameras, compression %, Motion detection %)	Live Video Database Read Latency(milliseonds)	Individual Video Stream Size(Mbps)	Maximum Disk I/O (MBps)
Benchmark	NVR7812 NVR7816	i3-4330	30 camera, 30%, 30%	3	10.06	493.41
		E3-1225	30 camera, 30%, 30%	2	5.2	486.79
		E3-1275	30 camera, 30%, 30%	1	10.23	557.91
Maximum	NVR7812 NVR7816	i3-4330	70 camera, 60%, 30%	1	5.09	445.29
		E3-1225	110 camera, 60%, 30%	2	5.07	631.17
		E3-1275	140 camera, 60%, 30%	2	5.18	516.83

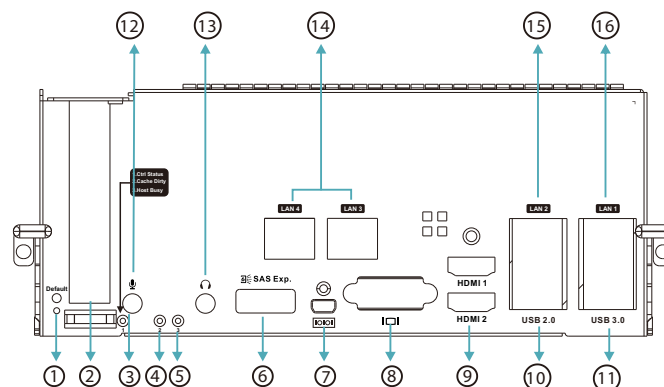
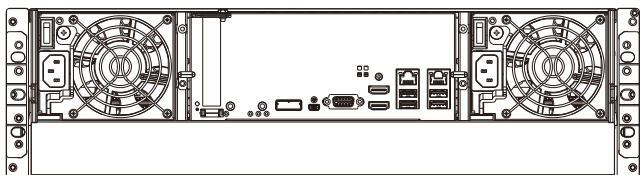
NVR7812/7816

NVR7800 Series Rear-view

NVR7812

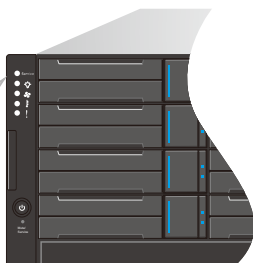
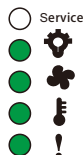


NVR7816



Front panel LEDs:

Service LED: Off
 Power LED: Green
 Cooling fan LED: Green
 Thermal LED: Green
 System LED: Green



1	Reset to default button and LED	9	HDMI port
2	PCI_E expansion slot	10	USB 2.0 port
3	Controller status LED	11	USB 3.0 port
4	Cache Dirty LED	12	3.5mm microphone jack
5	Host Busy LED	13	3.5mm headphone jack
6	6Gb/s SAS expansion port	14	1 Gb/s Ethernet(optional)
7	mini USB COM port	15	1 Gb/s Ethernet(Wake in LAN)
8	D-Sub VGA port	16	1 Gb/s Ethernet

Specification

Form factor	2U 12-bay/3U 16-bay	Disk support	3.5" 7,200 RPM NL-SAS HDD 3.5" 7,200 RPM SATA HDD
Controller architecture	Single controller	Max. disk support number	
System drive	Support two 2.5" SATA HDD Install two SATA HDDs with RAID1	NVR7812	312 disks (1 x NVR7812 + 5 x 4U 60-bay JBOD)
CPU	Default - Intel Core i3-4330, dual-core 3.5G Upgradables - Intel Xeon E3-1225, quad-core 3.2G - Intel Xeon E3-1275, quad-core 3.5G	NVR7816	180 disks (1 x NVR7812 + 14 x 2U 12-bay JBOD)
DIMM slot	DDR3 slot x 4		316 disk (1 x NVR7816 + 5 x 4U 60-bay JBOD)
Memory capacity	Default: 8GB(2 x 4GB) with non-ECC Upgradable to 8GB(2 x 4GB) with ECC 16GB(2 x 8GB) with ECC or non ECC 32GB(4 x 8GB) with ECC or non ECC		240 disk (1 x NVR7816 + 14 x 3U 16-bay JBOD)
Rear I/O ports	- Gigabit Ethernet x 4 - USB 2.0 x 2 - USB 3.0 x 2 - VGA x 1 - HDMI x 2 - Mic. in port x 1 - Speaker out port x 1	Compatible Operating System	- Windows 7 Professional SP1, 64-bit - Windows Server 2012, 64-bit - Windows 7 Ultimate, 64-bit
Service port	Service port x 1 (mini USB connector - RS 232 interface)	Installation	OS can be installed in backend 2.5" SATA system drive
PCI-E Gen3 slot	PCI-E 3.0 x 8 slot x 1	RAID Functionality	RAID 0, 1, 5, 6, 10, 50, 60
Drive interface	6Gb/s SAS	PSU	Dual Redundant PSU (460 watts)
JBOD expansion	6Gb/s SAS wide port x 1	Enclosure Dimension	2U 19-inch rackmount with chassis ears: (H)88.00mm x (W)447.40mm x (L)524.41mm 3U 19-inch rackmount with chassis ears: (H)130.00mm x (W)447.40mm x 524.20mm