EonServ 5000 Series with Milestone VMS

milestone
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Solution
Partner

- Infortrend EonServ 5012/5016 NVR with 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)
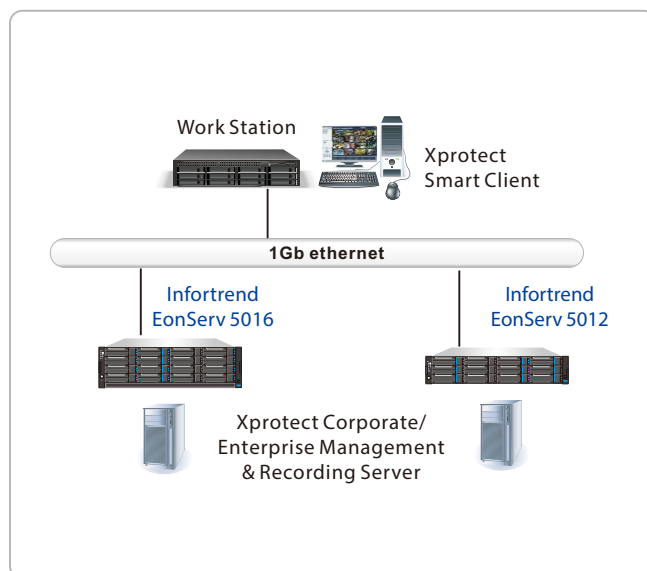
Infortrend EonServ 5000 Series Enterprise Storage Server

- 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

Work Station

Xprotect Smart Client

1Gb ethernet

Infortrend EonServ 5016

Infortrend EonServ 5012

Xprotect Corporate/ Enterprise Management & Recording Server

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(millisceonds)	Individual Video Stream Size(Mbps)	Maximum Disk I/O (MBps)
Benchmark	EonServ 5012 EonServ 5016	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	EonServ 5012 EonServ 5016	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

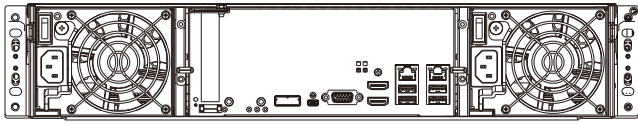### Xprotect Corporate - Video Motion Detection - RAID5 - Archiving

Test Scenario 2 (NVR +JBODs)	NVR Model	Processors	Stream Profile (#of cameras, compression %, Motion detection %)	Live Video Database Read Latency(millisceonds)	Individual Video Stream Size(Mbps)	Maximum Disk I/O (MBps)
Benchmark	EonServ 5012 EonServ 5016	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	EonServ 5012 EonServ 5016	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

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EonServ 5000 Series with Milestone VMS

EonServ 5000 Series Rear-view

EV 5012

EV 5016

Front panel LEDs:

Service LED: Off ⚪ Service
Power LED: Green 🟢 ⚙
Cooling fan LED:Green 🟢 ♣
Thermal LED:Green 🟢
System LED:Green 🟢 !
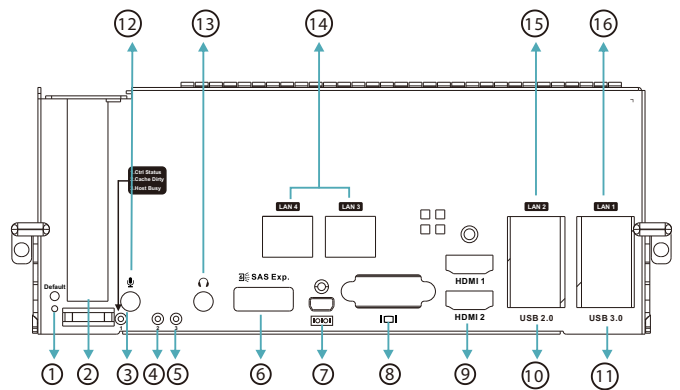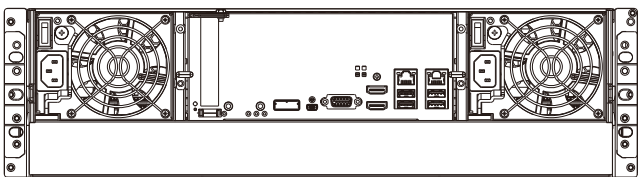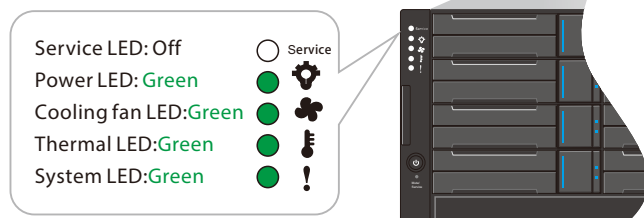
1	Reset to default button and LED	9	HDMI port
2	PCI_E expansion slot	10	USB 2.0 port
3	Controller status LED	11	USB 3.0 port
4	Catche Dirty LED	12	3.5mm microphone jack
5	Host Busy LED	13	3.5mm headphone jack
6	6Gb/s SAS expansion port	14	1 Gb/s Ethernet(optional)
7	mini USB COM port	15	1 Gb/s Ethernet(Wake in LAN)
8	D-Sub VGA port	16	1 Gb/s Ethernet

Specification

Form factor	2U 12-bay/3U 16-bay
Controller architecture	Single controller
System drive	Support two 2.5" SATA HDD (optional) ▪ Install two SATA HDDs with RAID1
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
DIMM slot	DDR3 slot x 4
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
Rear I/O ports	▪ RJ-45 Gigabit Ethernet x 2 (default) ▪ Up to 4 x GbE ports (optional) ▪ 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
Service port	Service port x 1 (mini USB connector - RS 232 interface)
PCI-E Gen3 slot	PCI-E 3.0 x 8 slot x 1
Drive interface	6Gb/s SAS
JBOD expansion	6Gb/s SAS wide port x 1

Disk support	▪ 3.5" 7,200 RPM NL-SAS HDD ▪ 3.5" 7,200 RPM SATA HDD
Max. disk support number	
EonServ 5012	312 disks (1 x EonServ 5012 + 5 x 4U 60-bay JBOD) 180 disks (1 x EonServ 5012 + 14 x 2U 12-bay JBOD)
EonServ 5016	316 disk (1 x EonServ 5016 + 5 x 4U 60-bay JBOD) 240 disk (1 x EonServ 5016+ 14 x 3U 16-bay JBOD)
Compatible Operating System	
	▪ Windows 7 Professioal SP1, 64-bit ▪ Windows Server 2012, 64-bit
Installation	OS can be installed in backend 2.5" SATA system drive
RAID Functionality	RAID 0, 1, 5, 6, 10, 50, 60
PSU	Dual Redundant PSU (460 watts)
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

* All design and specification declared are subject to change without notice in advance.
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