HYPERDRIVE
H700

milestone
XProtect®
inside

HYPERDRIVE
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milestone integrated surveillance backend infrastructure

HYPERDRIVE H700

A network video recorder offering redundancy and performance designed for Milestone XProtect®.

Hyperdrive H700 is a high-end network video recorder featuring unique data protection technology with a RAID-6 engine optimized for the Milestone XProtect® I/O profile and a virtual machine engine distributing hardware resources (Processor, Memory, Network Adapters). H700 offers real-time replication for complete redundancy of Milestone XProtect® services. With no compromises on performance Hyperdrive H700 is validated under Milestone XProtect® for a recording bandwidth of 800Mbps for 200 cameras. Hyperdrive H700 is an ideal solution for any site requiring complete redundancy without compromising on performance.

Fault tolerance

Hyperdrive H700 relies on the use of virtual machines and offers the possibility of replicating in real time all the data of the XProtect® management server virtual machine to another backup server.

This real-time replication is performed via a dedicated network connection between the two machines. In the event of unavailability of the active instance of the management server, the switch is automatically performed on the secondary server.

High Performance

The performance of Hyperdrive H700 is validated on a RAID-6 architecture. Compared to RAID-5, in RAID-6 data consistency is recorded using two parities, only one parity in RAID-5. The RAID-6 is an additional security allowing the simultaneous loss of two hard drives, also decreasing the risk of data corruption following a power failure for example.

With 12 hard drives in RAID-6, Hyperdrive H700 delivers a performance of 800 Mbps recording bandwidth.

Turn-key Solution

Hyperdrive is a member of the Milestone "system builder" program, which means that Hyperdrive H700 comes pre-installed and pre-configured with Milestone XProtect®. Only Milestone licensing, network configuration, and Milestone configuration tasks are the responsibility of the system integrator.

Thanks to the architecture based on virtual machines, it is possible to restore a previous configuration or the factory configuration without delay.

General Specifications

Maximum number of cameras
550 x 720p @1,5Mbit/s

Form factor
2U Rack-mount
Rail kit included

Dimension (D x W x H)
336 x 76 x 40 mm

Warranty
3 years

Serveur Specifications

Processor
Intel® Xeon® E-2136 4.5 Ghz

Passmark value
15763

Memory
32GB (2 x 16GB) shared between virtual machines

Operating System
Windows 2016 Edition standard

Storage Specifications

Recording bandwidth
864 Mbit/s in RAID-6

Raw storage capacity
24/48/72/96/120/144/168 TB

Number of hard-drives
Array of 12 x hard-drives hot-swappable.

Level of data protection
RAID-6

Storage for Operating Systems
2 x 240 GB SSD in mirror (RAID-1)

Network Interfaces

Ethernet Network
4 x 1GbE RJ45

Remote Management
IPMI 1 x dedicated 1GbE RJ45

Display
1 x VGA

USB
4 x connectors at the rear

Power Supply

AC Input
100 - 240V, 50 / 60Hz

Maximum Output Power
1200W

Redundancy
PSU are hot-swappable

Certification
Titanium

Operating Environment

Operating Temperature Range
5°C - 35°C

Operating Relative Humidity Range
8% - 90% (non-condensing)

Regulatory

Power Supply Safety / EMC
BSMI, CCC, CE/EMC, FCC class A, UL/CB, UL/CUL, RoHS

Available Part Numbers

Part Number	Description	Part Number	Description
HYPDRV-H700	H700 system, bare-bone, no hard-drives	**HYPDRV-H700-96TB**	H700 system ready to run with 12 x hard-drives / 8TB 7200 RPMs
HYPDRV-H700-24TB	H700 system ready to run with 12 x hard-drives / 2TB 7200 RPMs	**HYPDRV-H700-120TB**	H700 system ready to run with 12 x hard-drives / 10TB 7200 RPMs
HYPDRV-H700-48TB	H700 system ready to run with 12 x hard-drives / 4TB 7200 RPMs	**HYPDRV-H700-144TB**	H700 system ready to run with 12 x hard-drives / 12TB 7200 RPMs
HYPDRV-H700-72TB	H700 system ready to run with 12 x hard-drives / 6TB 7200 RPMs	**HYPDRV-H700-168TB**	H700 system ready to run with 12 x hard-drives / 14TB 7200 RPMs

www.hyper-drive.co.za