



Reliable IP video surveillance storage in a compact, silent, package

COLDSTORE Compact's sequential recording system is ideal for low-power surveillance storage and greatly increases hard disk reliability.

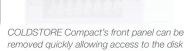
- Network-attached sequential storage system
- Designed specifically for IP video surveillance storage
- Incorporates LAID and SFS for long disk life & reliability
- Up to 40TB in eight x 2.5" disk bays (SSD compatible)
- Exceptionally low power consumption only 16 watts
- No data loss on disk failure and no rebuilds required
- Compact, wall-mountable, attractive aluminium chassis



COLDSTORE Compact is a unique sequential surveillance storage array with a small footprint and low power

Compact delivers Veracity's award-winning COLDSTORE™ technology in a much smaller, even lower-power package. A long useful life with extended disk reliability makes COLDSTORE Compact ideal for multiple unattended sites, especially when combined with TRINITY™.





drives which are easy to insert and remove.

Reliability assured

Our Linear Array of Idle Disks (L.A.I.DTM) technology combined with unique Sequential disk Filing System (S.F.STM) produces a powerfully simple system which can provide generous storage capacity at low cost. Whilst simple in concept, this delivers a highly reliable storage system which dramatically extends disk lifetime even when using the lowest cost disks available.

Low power, low cost

COLDSTORE Compact uses only one-tenth of the power of comparable systems, is resilient to disk failure, requires no disk rebuild process and reduces running costs. It provides an easy way to instantly extract and transport critical evidential video data. Disks are used sequentially, with all of

the disks not in use being switched off, saving power and thus greatly reducing temperature, vibration and wear – the three primary disk killers. The system uses a unique mirrored overlapping-pair writing pattern to provide full data redundancy during the critical writing process. This delivers the redundancy of RAID1 on write, but unlike RAID1, does not require double the number of disks.

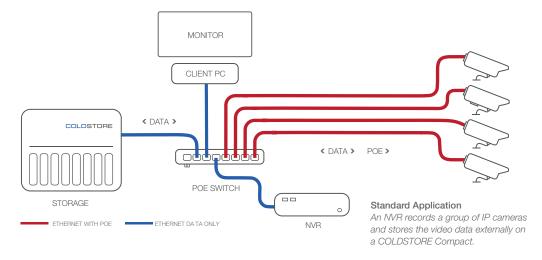
Extended Disk Lifetimes

Within the disk, the sequential disk filing system eliminates vibration from the read/write head and lowers operating temperature. Within the array, the use of sequential overlapping mirrored writing pairs requires only two active disks at any one time with the others switched off. This greatly reduces wear

and further reduces array vibration and operating temperature. Thus every disk is off, on average, for 75% of the time. Disks automatically switch on for playback, but typically playback from non-writing disks is infrequent and hardly affects the average duty cycle.

Purpose-Designed System

COLDSTORE Compact is built around a custom designed single-board system with low-power CPU and integrated direct SATA connections. Even a fully populated 40TB array will only use 16 watts. The low power system extends the electronic component lifetime, which, combined with the extended disk lifetimes results in a very low overall total cost of ownership.





Low power, silent operation and high capacity make COLDSTORE Compact an ideal system for TRINITY™ ■ direct-to-storage surveillance

Configuration and Management

COLDSTORE Compact is very simple to configure, manage and monitor through Veracity's universal site configuration tool, SITESCAPE. This Windows application allows automatic device discovery, configuration of settings, analysis of disks and a basic level of diagnostics.

Simple Disk Management

COLDSTORE Compact can use any make, model and capacity of 2.5" SATA disk drives including any mix of drives. Disks may be added "on the fly" and will automatically be incorporated into the array. The physical location of specific time spans can be identified through SITESCAPE and disks may be extracted at any time. The disk status LEDs above each disk slot indicate writing, selection, fault and removal

readiness. These simple features, along with the user-friendliness of SITESCAPE, allow Compact and the disks to be easily managed by system integrators and end-users alike.

In addition to the mirrored overlappingpair mode, Compact can also operate in full mirrored pair mode if desired.

Integration

Veracity works closely with many Video Management System (VMS) suppliers worldwide to ensure that their VMS systems are compatible with COLDSTORE Compact. Please visit the Veracity website for the latest VMS compatibility and status information.

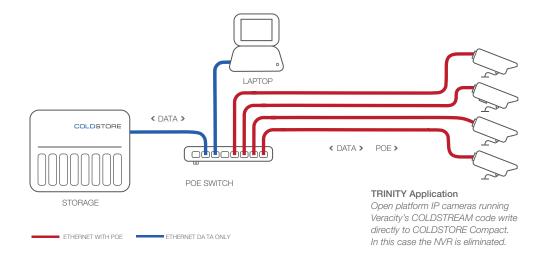
Veracity also provides a comprehensive SDK for VMS manufacturers who wish to develop support for COLDSTORE.

Embedded NVR System Option

COLDSTORE Compact includes a new embedded NVR option. This provides continuous recording of all RTSP and ONVIF Profile S compatible IP cameras. The NVR can co-exist (on the same COLDSTORE) with Veracity's direct-to-storage TRINITY system which uses COLDSTREAM software on open platform IP cameras to write directly to COLDSTORE.

The COLDSTORE NVR can use Veracity's VIEWPOINT, a simple player application for Windows. It is also fully compatible with the high-end, integrated security system VIEWSCAPE, a Command and Control platform for larger control rooms.

Alternatively, third-party client applications can use Veracity's SDK or ONVIF Profile G to support the COLDSTORE NVR system directly.



TECHNICAL SPECIFICATION



GENERAL

Storage array type

Interface

Data throughput

Network attached sequential array running L.A.I.D.™ with S.F.S.™

disk filing system

Gigabit Ethernet

400Mbit/sec (unlimited scalability with multiple COLDSTORE Compact units)

SYSTEM

O.S.

System integration

VMS Compatibility

Configuration & management

Embedded Linux Direct from 3rd party VMS application (SDK available)

Over LAN via Veracity SITESCAPE™ or SDK

See website for latest information on all supported VMS systems Directly compatible with Veracity's TRINITY™ system architecture

CAPACITY

Drive bays

Maximum capacity (with 5TB disks)

8 x 2.5" SATA (disk trays included).

Raw – 40TB, Effective – 35TB. (Mirrored overlapping pair mode)

(28TB is sufficient for 32 HD cameras for 31 days at 2.5 Mbps per camera)

POWER

Power supply 12V DC, 3A external PSU

110-240V AC Input (Auto sensing) Power supply rating

Power consumption 16 watts

TIME SYNCHRONISATION

Time synchronization

via NTP (recommended).

PHYSICAL/ENVIRONMENTAL

Dimensions W 225mm H 188mm D 150mm (W 8.85" H 7.40" D 5.90")

Weight 3.9kg [8.6lbs] (without disks)

Wall mounting VESA-compatible wall mount points on 75mm centres with M4 holes

Operating temperature 5°C to 50°C [41°F to 122°F]

Low speed fan - near silent operation Cooling

Relative humidity Up to 85%, non-condensing

Compliance CE, FCC, RoHS

PRODUCT CODES

CSTORE8-C-UK CSTORE8-C-EU CSTORE8-C-US CSTREAM-KEY

COLDSTORE Compact 8-bay, 2.5" disk system with PSU, cable for UK COLDSTORE Compact 8-bay, 2.5" disk system with PSU, cable for EU COLDSTORE Compact 8-bay, 2.5" disk system with PSU, cable for US

COLDSTREAM embedded NVR channel key



COLDSTORE is also available in a 3U rack mount format with 15 x 3.5" drive bays offering up to 240TB storage capacity - using only 60W.

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