Time Capsule™

HDX Series
Digital Video Recorders

HDX-SAU Stand Alone Unit
Digital Video Recorder

Key Features

- Independent Stand Alone Design
- Wall mount steel case/ with lockable hinged cover
- On-Board Embedded Operating System
- Instant Power on Recording
- Hard Drive Preservation System
- VLSI Hardware Based Wavelet Compression
- User Programmable Image Quality, input adaptive for maximum storage efficiency
- Tri Level Storage Duration Short / Medium / Long
- Compatible with QSI Video Controllers and Transaction Interfaces
- Remote Access
  Ethernet 10/100 RJ45 Network Interface
  RS232 Direct Connect/ External Modem Interface

Surveillance Applications

Financial
Bank Branch & ATM Sites
(w/Transaction Interface Options)

Retail
Point of Sale / Slip & Fall
(w/POS Interface Options)

Commercial
(w/Card Access Interface Options)

80 - 500 Gigabyte HD Capacity

The **HDX-SAU Time Capsule** is a stand-alone digital video recorder. The design incorporates an embedded CPU system, integrated hard drive controllers and a dedicated VLSI, Hardware based Wavelet compression/ decompression processor. Totally independent and self reliant, the HDX-SAU Time Capsule is ready for immediate recording once power is applied. A major advantage over PC based systems dependent on huge, slow booting operating systems.

Recording and **Archiving:**
The HDX-SAU Time Capsule is capable of recording full field images at speeds ranging from 20 fields per second, down to time-lapse and event based capture rates. The system employs a triple layer archiving scheme, enabling images to be group classified and then stored for specified duration periods. ***For example:*** group one could be setup to capture all cameras at a rate of five pictures per second with a short-term duration of two weeks. While groups two and three are setup for event captures associated with alarm inputs, motioned cameras or transaction events at ATM machines, Bank Branch tellers or Point of Sale check points. In the event mode the user may specify a number of images to capture with each event. This total may also include a specified number of captures that occurred just prior to the event, as well as independent archiving durations for the group two and three classes.

Retrieval Power:
The HDX-SAU Time Capsule provides both local and remote image retrieval and playback based on Time/ Date, camera number and alarm entries. Systems incorporating QSI transaction tracer modules, provide enhanced searches based on transaction numbers from ATM and teller line systems as well as Point of Sale receipt information and card numbers from retail and commercial applications.

Hard Drive Preservation:
Unlike other manufacturers of digital recorders, where the hard drives must spin 24-7. The Time Capsule employs a unique internal, hard drive wear and tear protection system. The results of the protection system reduces the normal access period of the hard drive by a factor of 4000 to 1. In simple terms the hard drives are kept in a sleep mode for the vast majority of any given time period. The results are obvious, reduced access equals longer hard drive life.

Time Management Resources:
Extended storage duration and reduced hard drive size may be obtained by implementing smart time management resources. Incorporated into the operating system is a 24-7 by 8 sequence controller. This feature enables the inclusion and exclusion of selected cameras as well as increasing and decreasing of record rates at selected times of the day and week.

Remote Access Software:
The Time Capsule Manager provides remote programming and access to stored images on the HDX Digital Recorders. The software application runs under Windows 98/2000, XP and NT platforms. Remote Access software is included with the HDX series.

Digital Video Management
Time Capsule
and Retrieval Software

QSI systems, inc.
Find us at **www.qsisystems.com**
603-893-7707 fax 603-893-7714

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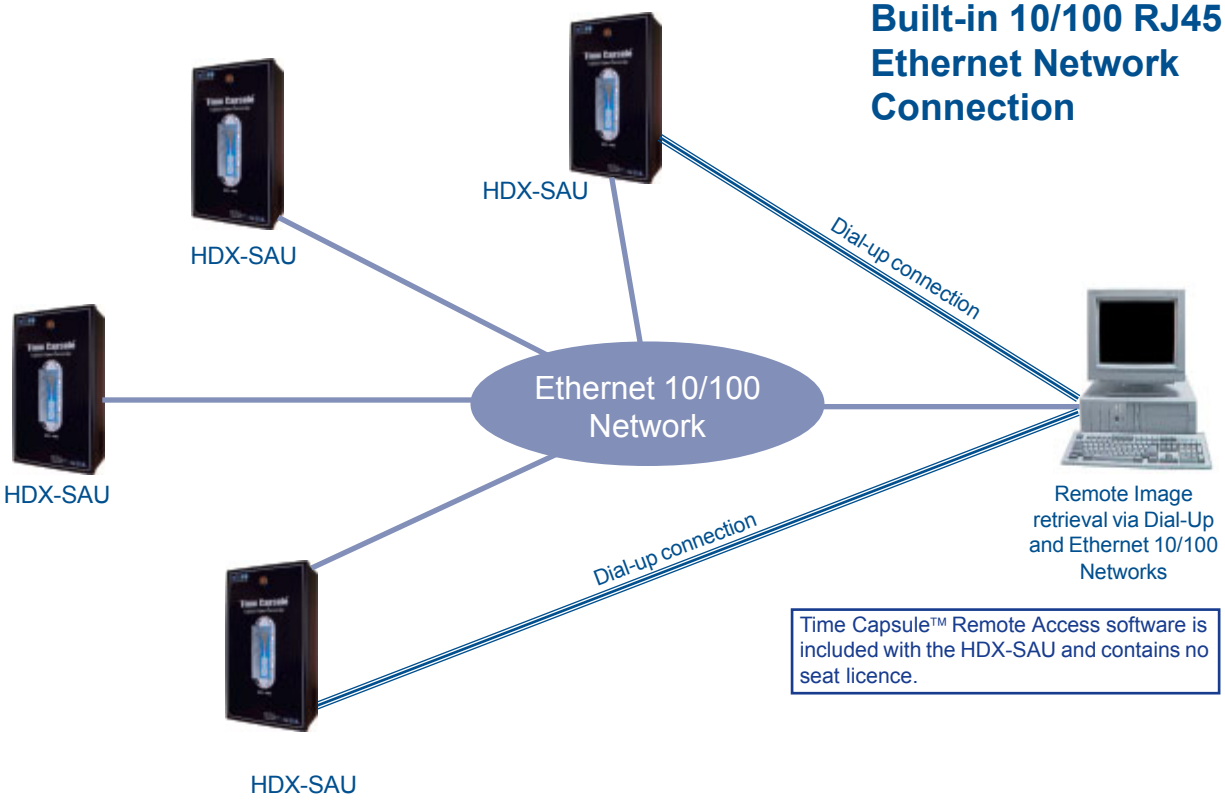
HDX-SAU Specifications v2.50

Built-in 10/100 RJ45 Ethernet Network Connection



Time Capsule™ Remote Access software is included with the HDX-SAU and contains no seat licence.

Video Inputs:
Four BNC female connectors
1Vpp nominal composite video, NTSC RS170/ 170A
75 ohm terminated.
Monitor Output:
BNC, 1Vpp nominal composite video into a 75 ohm load.
Mouse Port/ Mouse Type:
DB9 male, Microsoft and PC compatible
External Modem / Direct Serial Port:
DB9 male, RS232 Serial @ 115kb max.
Internal Ethernet 10/100 :
RJ45 Network Interface
Video Controller Port:
DB9 female, RS232 Serial
Direct connect to QSI Video Controllers
1600TC, 1700TC, 1900TC, 1950TC & 8200TC
Transaction Interface Port:
3 pin female quick release terminal blocks
Direct connect to QSI Transaction Modules
4200, 4200EXB,4200NCR, 3200POS
Programmable Alarm Input/Output ports:
8 female quick release terminal blocks
programmable for NO or NC
Record Switch Pulse Output:
2 pin female quick release terminal block
Programmable polarity

Image Capture & Playback Display Size:
Full Field @ 20 pictures per second max.
720 pixels per line
Sampling Rate 27 MHz
Broadcast Quality 4:2:2
Compression Type:
Wavelet, w/ programmable compression ratios
per video input.
Storage Media:
Standard IDE Drives, Four @ 120 Gig for a
combined storage of 500 Gigabytes.
Time/Date Generator:
ISO 8601 display/Automatic Daylight Savings adjust
System Program:
Flash Eprom based for remote updating of new features
and system updates
Frequency Response: Video Amplifiers
+/- 0.5db to 8 MHz, 10% to 90% APL
Power:
AC input 85-264VAC 47-63 Hz. Auto Detection
Switch mode supply UL1950, CSA950, EN60950, CE Mark.
Size / weight:
8.375" W x 5.125"D x 15.125"H
Enclosed metal case. 9.5 lbs (excluding hard drives)
IDE drive weight 1lb,1oz ea. typ. (4 drive capacity)
Operating Temperature: 32 to 122 F (0 to 50 C)

QSI systems, inc.
Find us at **www.qsisystems.com**
603-893-7707 fax 603-893-7714

Designed, Manufactured and Assembled in the U.S.A.