

The new DIS 914 automated cartridge library system utilizes uncompressed 300 GB DIS media cartridges to provide industry leading storage capacity, performance, and scalability designed with the reliability and flexibility needed to meet the growing requirements for fast-access mass storage.



## DIS 914i

Data/Instrumentation/Telecommunications  
Automated Cartridge Library

### Features

The performance of the DIS 914 quad density library is unrivaled by any other library system on the market. The fast robotics mount operation of 10 seconds, combined with a search rate of 2700MB/second, provides a total average access time for any file within the library of less than 60 seconds. The data transfer rate is up to 20MB/second per drive, with one or two high-performance DIS drives per system. Each drive has its own 8-bit Parallel (DCRsi Compatible), Hot-Link Serial and Ultra-SCSI data ports, producing an aggregate transfer rate of up to 320Mbits/sec (40MB/sec) for the library. The cartridge design eliminates the need for a gripping mechanism, allowing the robotics to achieve unmatched performance and reliability.

A stand-alone DIS 914 library can hold 87 300 GB DIS tape cartridges, putting a total storage capacity of up to 26.1 terabytes per library online in less than 8 square feet of floor space. By using the cartridge partitioning feature in the DD-2 tape format, the library storage capacity can appear as over 93,600 200 MB logical volumes to the host server.

The system's scalability provides over 100 TB utilizing a single transfer rail with four DIS 914 cabinets. By stringing together multiple clusters almost unlimited capacity can be achieved. Additional drives can be added to dramatically increase I/O capability.

Ampex works with leading software companies to provide backup and recovery, archiving and HSM applications for the DIS 914 library.

**up to 26.1 terabyte capacity in only 8 square feet of floor space**

**One or two DIS drives, each with independent 8-bit (DCRsi compatible) parallel, Hot-Link Serial, and Ultra-SCSI ports**

**Aggregate sustained data rate up to 40MB/second**

**Robotic performance of 270 cartridge exchanges per hour**

**50 seconds average access time to any file**

**Fully automated archive, backup and recovery**

**Read compatible with ER90 "D2M" cartridges and with single and double density DST/DIS cartridges**

**Library Extension Units**

**Short transfer rail expands system up to 77.4 TB**

**Long transfer rail expands system up to 104.4 TB**

**Multiple cluster configurations create almost unlimited storage capacity**

**Performance / Capacity**

Transfer rate Up to 40MB/second sustained (two drives at 20MB/sec), 80MB/sec burst  
 Drive search speed 2700MB/second  
 Cartridge exchanges 270 per hour (one dismount and one mount)  
 Average access time 60 seconds

Storage capacity 1	Available Cabinet Type	Standalone System	Interconnected System
	No Drives	-----	27.0 TB 90 Cartridges
	One Drive	26.1 TB 87 Cartridges	23.4 TB 78 Cartridges
	Two Drives	17.1 TB 57 Cartridges	14.4 TB 48 Cartridges

Storage density 3.26TB/sq. ft. (26.1TB/8 sq. ft.)

**Interface** One Ultra-SCSI (16 bit fast differential)  
 Telecommunications / instrumentation port  
 includes 8-bit parallel data port and serial, ANSI X3T9.3 compliant port

**Tape Format** DD-2 19-mm quad density helical scan

**Error Rate** 1 in 1017 bits read

**Physical Characteristics**

Number of drives One or two high-performance DIS drives  
 I/O bins Two user import/export bins  
 Size 80"H x 29"W x 39.3"D (198.12 cm x 73.66 cm x 99.82 cm)  
 Weight 2 Single cabinet w/1 drive: 759 lbs. (344 kg)  
 Floor loading 125 lbs./sq. ft. (maximum including cassettes)

**Operating Environment**

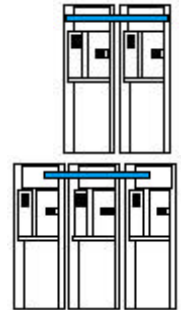
Temperature range 12-27° C  
 Humidity range 30-70%, non-condensing

**Power Requirements** 100-250 VAC, 50/60 Hz, Single Phase

**Power Consumption** (Peak Current with two drives and Transfer Unit)  
 100-120 VAC, 12A (4100 BTU/Hr Max)  
 200-250 VAC, 6A (4100 BTU/Hr Max)

**Device Drivers** Support for all major UNIX and Windows NT operating systems

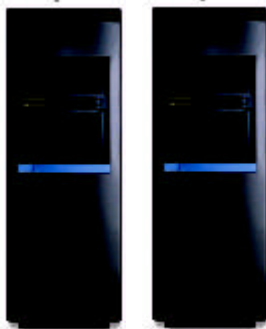
*Short transfer rail allows the addition of up to two extension cabinets and additional drives can be added to increase I/O capability*



*Long transfer rail allows the addition of up to three extension cabinets. Multiple clusters of libraries and extensions can be configured for almost unlimited capacity.*



DIS 914 Library      DIS 914 Library Extension Unit



1 All capacities without data compression  
 2 All weights without cartridges.  
 Add an additional 25 oz. (1.56 lbs.) per installed medium size cartridge.

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