

***The quad density DST® 314 tape drive is the building block of Ampex's newest 19-mm mass storage product family. Breakthrough performance in data transfer rates and cartridge capacities make DST products the benchmark in mass data storage.***



## DST 314

Quad Tape Drive

The Ampex quad density DST 314 tape drive is the industry's largest capacity, highest performing, commercially available data tape drive. The smart DD-2 tape format enables volume tape partitioning and fast search speeds and allows cartridges to be loaded and unloaded at multiple locations along the tape, eliminating lengthy rewind and reducing access time to data. The Ampex DST 314 drive is perfect for a variety of applications including data acquisition, unattended backup and restore, disaster recovery, storing video and images, and data interchange. The DST tape system's virtual disk performance allows users to expand storage capacity, enjoy performance that rivals disk drives and realize the cost efficiencies associated with tape systems.

Available in both table top and rack mount configurations, the DST 314 drive can dramatically reduce the number of cartridges required for mass data storage, thereby saving on media costs, while simplifying handling, human intervention and cataloguing. The large storage capacities provided by DST drives also eliminate the need for data compression, and when coupled with high speed data transfer rates, eliminate the need to stream data to multiple tape drives which utilize lower capacity cartridges to achieve performance. As a result, DST storage products provide users with unsurpassed data access and improved data reliability.

Ampex works with leading software companies to provide backup and recovery, archiving and HSM applications for the DST 314 tape drive.

- *DD-2 19-mm helical scan tape format*
- *Reads and writes to 100GB, 300GB or 660GB cartridges*
- *Read-compatible with ER90 "D2C" cartridges and with single density and double density DST/DIS cartridges*
- *Sustained transfer rate of 20MB/sec per drive*
- *Dual-ported Ultra-SCSI interface*
- *2.7GB/sec search speed - 300 in/sec*
- *Smart DD-2 format with multiple system zones*
- *Volume tape partitioning*
- *Three levels of Reed-Solomon error correction*
- *Read-after-write verification and automatic rewrite*

DST®

Ampex Data Systems

# DST 314 Specifications

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## Performance

Transfer rate	20MB/second sustained
Search speed	2.7GB/second
Load to ready	10 seconds

## Cartridge Capacity<sup>1</sup>

Small	100GB
Medium	300GB
Large	660GB

## Interface

Dual-ported Ultra-SCSI (16 bit differential)

## Tape Format

DD-2 19-mm quad density helical scan tape format

## Error Rate

1 in 10<sup>17</sup> bits read

## Physical Characteristics

Size	12.2"H x 17.7"W x 28.4"D (30.9 cm x 44.9 cm x 72.1 cm)
Weight	140 lbs. (63.5 kg)
Configuration	Rack mount or table top

## Operating Environment

Temperature range	10–30°C
Humidity range	30–70%, non-condensing
Altitude	7500 feet

## Power Requirements

90–240VAC (15 amp)  
50/60 Hz single phase  
Average power consumption 400 W

## Device Drivers

Supports all major UNIX and NT platforms



<sup>1</sup>All capacities without data compression  
Specifications subject to change without notice or obligation



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