

CD22/14 DUAL DISK STORAGE SYSTEM

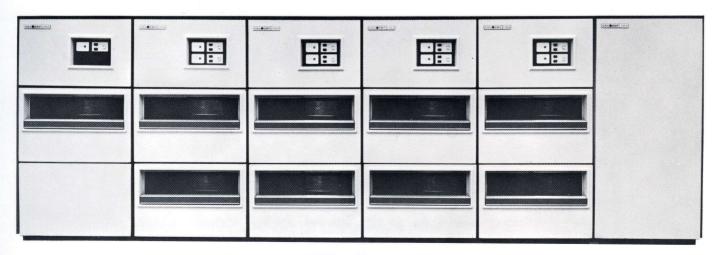
The CD22/14 Dual Disk Storage System is a low cost, high capacity plug-for-plug replacement for the IBM Model 2314-1 (nine-spindle), 2314-A Series (one to nine spindles) or the 2314B/2319B (three, six or nine spindle) Direct Access Storage Facility.

The system is comprised of two major components. The first is a highly reliable Dual Disk Drive—the CalComp CD22—and the other is the high performance CalComp CD14 Controller.

A CD22 Dual Disk Drive is composed of two spindles, each capable of storing up to 29,176,000 eight-bit bytes per 2316-type disk pack, for a total of 233,408,000 eight-bit bytes per nine-spindle system. Average access time is 35 milliseconds. The single-spindle version is the CD22S and is used to configure a system with an odd number of disk drives.

Operational with one or more CD22 Dual Disk Drives, the CD14 Controller can provide up to 233 million bytes of on-line storage (eight-spindles) and has provision for a spare spindle. Data transfer rate is 312,000 bytes per second. Special features of the CD14 permit servicing of the system without interfering with system operation. A dual-channel switch feature permits a CD14 Controller to operate between any two IBM Selector channels (either two channels on the same computer or channels on different computers).

The CD22/14 System is functionally interchangeable and program-compatible with the corresponding IBM system. The data format is variable, and is controlled by the CD14's internal microprogram with the record length specified by the computer.



THE CD22/14 DUAL DISK STORAGE SYSTEM

CD22/14 DUAL DISK STORAGE SYSTEM SPECIFICATIONS

TRANSFER RATE

312,000 bytes per second

ROTATIONAL SPEED

2400 rpm (25 milliseconds per revolution)

ACCESS TIME

Track-to-track 12 milliseconds Average 35 milliseconds Maximum 65 milliseconds

START/STOP TIMES

Start-up time 22 seconds Stop time 12 seconds

COMPATIBILITY

IBM 2314-1, 2314-A Series or 2314B/2319B Direct Access Storage Facility IBM 2316 Disk Pack or equivalent CalComp CD12 Disk Drive IBM System 360/30 (and above) and System 370

POWER REQUIREMENTS

208 v or 230 v ac $(\pm 10\%)$ 3-phase; 60, ± 0.5 , Hz $(50\pm 0.5$ Hz available); **CD14:** Run Current 2.2 amps rms; **CD22:** Run Current (per drive) 4.3 amps rms per drawer; Start Current (per drive)—20 amps rms, 7 sec. **CD225:** Run Current 4.3 amps rms; Start Current 20 amps rms, 7 sec.

OPERATING ENVIRONMENT

Temperature: 60 to 90 degrees F. Maximum rate of change 15° per hour. Relative Humidity: 10 to 80%. Rate of change shall not cause condensation.

HEAT DISSIPATION

CD22: 4600 BTU/hr (two spindles)
CD22S: 2300 BTU/hr (single spindle)
CD14: 1250 BTU/hr

DIMENSIONS:

CD22 and CD22S:

32-in. wide; 33-in. deep, 60.5-in. high. Floor space required—7.33 sq. ft. (with side panels)

CD14:

30-in. wide; 34-in. deep, 60.5-in. high. Floor space required—6.67 sq. ft. (with side panels)

Total floor space for controller and nine-spindle system: 43.32 sq. ft. (cabinets bolted together with no panels between)

SHIPPING WEIGHT

CD14 — 525 lb. shipping; 425 lb. operating. CD22 — 950 lb. shipping; 850 lb. operating. CD22S—610 lb. shipping; 510 lb. operating.



CALIFORNIA COMPUTER PRODUCTS. INC. 2411 West La Palma Anaheim, California 92801 Tel. (714) 821-2011 TWX 910-591-1154