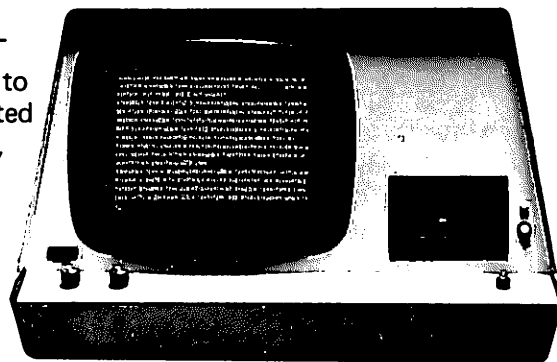Wang's Model 2216/2217 Combined CRT Executive Display/Single Tape Cassette Drive is a compact desktop unit housing both a CRT (Cathode Ray Tube) and a cassette drive. The peripherals operate independently via separate controller boards which plug into I/O slots in any System 2200 central processing unit.

The Model 2216 CRT Executive Display and the Model 2217 Single Tape Cassette Drive are available as separate desktop units; however, upon comparison, the Model 2216/2217 unit requires less space and includes every operational feature at less cost than separate units. With a keyboard and a CRT, Wang users can write, review, modify, and correct programs with relative ease. With a cassette drive, users can store programs and data on magnetic tape cassettes — a convenient, low-cost bulk storage medium.

The 8 by 10.5 inch (20.3 by 26.7 cm) screen can display up to 16 lines of information with up to 64 characters per line. Controls on the lower left side of the Model 2216/2217 unit adjust the screen brightness and contrast manually, if needed. The CRT cursor (a symbol indicating the space where the next character will be displayed) can be manipulated under program control using seven available cursor positioning codes to produce specially formatted displays. Since the display speed is approximately 65 microseconds per characters, the 1,024-character screen can be filled almost instantly.

Valuable information for programmers and operators is displayed automatically by many System 2200 operations. During program text entry, characters or BASIC language keywords instantly appear after each keystroke. Also, after a carriage return keystroke indicates the end of a text line, the syntax is checked, and a coded message appears if an error is found. When programs are run, any literal string message included in an INPUT statement (to identify requested data) is displayed, and a question mark appears when the system is awaiting data; each received character is displayed instantly. Any PRINT, HEXPRINT, MAT PRINT and PRINTUSING statements send output to the CRT unless a printer or another device is selected for the operations. In response to LIST commands, all or part of the program currently in memory is displayed. For debugging operations, TRACE or HALT/STEP procedures display useful diagnostic information.

MODEL 2216/2217 CRT DISPLAY/CASSETTE DRIVE

DATA SHEET

The cassette drive is visible through the door on the right side of the Model 2216/2217 unit. Near the door are two manual controls — a Door Release for cassette mounting/dismounting and Rewind to initiate high-speed rewinding. Programs and data can be recorded on, and read from, cassettes using BASIC language statements designed for such purposes. Automatic formatting of information in 256-byte blocks, called physical records, is a feature of the System 2200. Each record is recorded twice to ensure the integrity of the information. Upon execution, a SAVE command automatically formats a "program file" consisting of a header record, as many program records as needed, and a trailer record.

Approximately 76,800 bytes of non-redundant information can be stored on a 150-foot cassette, i.e., approximately 300 dually-recorded 256-byte records. An unlimited number of tape cassettes can be used to store program and data files.

MODEL 2216/2217 SPECIFICATIONS

Unit Size

Width	21½ in. (54.6 cm)
Height	14 in. (35.6 cm)
Depth	16 in. (40.6 cm)

Cabling

Two 8-ft (2.44 m) cables with connectors to CPU controller boards.

8-ft (2.44 m) cable to power source

Weight

36 lb (14.4 kg)

Power Requirements

115 VAC or 230 VAC ± 10%

50 or 60 Hz ± 1 Hz

125 Watts

Fuses:

1.5A @ 115V; 1A @ 230V

Operating Environment

50°F to 90°F (10°C to 32°C)

Relative Humidity 40% to 60%, non-condensing

MODEL 2216 CATHODE RAY TUBE

Display Size

Width	10½ in. (26.7 cm)
Height	8 in. (20.3 cm)

Capacity

16 lines, 64 characters/line — 1,024 characters

Character Size

Width	0.12 in. (0.30 cm)
Height	0.20 in. (0.51 cm)

MODEL 2217 SINGLE TAPE CASSETTE DRIVE

Stop/Start Time

.09/.05 sec

Recording and Search Speed

7.5 in./sec (19 cm/sec)

Rewind Speed (approx)

7.5 ft/sec (2.3 m/sec)

Transfer Rate

326 bytes/sec (including dual-recording and inter-record gaps)

Cassette Capacity

Approximately 300 automatically-formatted, dually-recorded 256-byte physical records per 150-ft tape cassette (that is, approximately 76,800 bytes).

Cassette Part Numbers

75-ft (22.8 m) Cassette (Part Number 174-1250)

150-ft (45.7 m) Cassette (Part Number 174-1251)

Accessories

2 Blank Cassettes (Part Number 174-1251)

12 Cleaning Pads (Part Number 660-0130)

Standard Warranty Applies

ORDERING SPECIFICATIONS

A desktop unit housing a CRT and a tape cassette drive operated by separate controller boards which plug into any System 2200 CPU. The CRT must have a 10.5 by 8 inch screen on which up to 16 lines with up to 64 characters per line can be displayed. The cassette drive must be capable of controlling a 150-foot magnetic tape cassette under program control, including recording/reading up to 300 automatically-formatted, dually-recorded 256-byte blocks per cassette. Use of the Tape Drive must not require pre-formatting of tapes.

Wang Laboratories reserves the right to change specifications without prior notice.

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