

Anderson Jacobson AJ 510 Video Display Terminal



The AJ 510, pictured with the AJ 1255 medium speed modem, has recently been enhanced to improve system performance and flexibility.

MANAGEMENT SUMMARY

The AJ 510 is Anderson Jacobson's sole entry on the CRT market. Designed for interactive timesharing and order entry applications, the terminal provides a full set of editing and formatting functions. The microprocessor-controlled unit features a 1920-character screen capacity, a typewriter-style keyboard with numeric pad, and RS-232-C communications and printer interfaces. It is capable of half- or full-duplex transmission at switch-selectable rates from 110 to 9600 bps.

Anderson Jacobson introduced the AJ 510 in December 1978; it was conceived as the first of a family of CRTs. However, instead of adding new models the company has elected to improve the AJ 510, announcing some 20 enhancements earlier this year.

These improvements, which are designed to speed and simplify remote/central operations, include terminal status indicators, on-line and character set power up, cursor key transmission, and a new tab feature. Other additions are: specified character repeat; form feed recognition; line editing enhancements; printer port support; page data protection; display timeout & refresh; and programmable page & field delimiters. APL capabilities are enhanced by APL overstrike control, added synonym valid overstrikes, and an APL edit key.

Also offered as a new option to the AJ 510 is IBM compatible 2741 communications in EBCD or CORRESPONDENCE modes, permitting access of 2741 applications through an ASCII display terminal.

Other salient characteristics of the terminal include: automatic scrolling and line wraparound; character, line, or page transmission; addressable/readable cursor; 24 displayable status indicators; and 6 diagnostic self-tests.

Anderson Jacobson, Inc. is a well-known manufacturer of teleprinters, modems, and other data communications equipment, grossing over \$50 million in sales last year.

Anderson Jacobson's CRT terminal.

Features include full editing/formatting functions, a 15-inch monitor with a 1920-character screen capacity, a typewriter-style keyboard with numeric pad and cursor/tab control cluster, a 128 ASCII character set plus a 41-character line drawing set, and an RS-232-C serial printer interface. Options include an APL character set and IBM 2741 compatibility.

The AJ 510 is priced at \$2,195 and is also available on month-to-month rental or 12-, 24-, or 36-month leasing plans. A 36-month lease costs \$100 per month including maintenance. Quantity discounts are available.

CHARACTERISTICS

VENDOR: Anderson Jacobson, Inc., 521 Charcot Avenue, San Jose, CA 95131. Telephone (408) 263-8520.

DATE OF ANNOUNCEMENT: December 1978.

DATE OF FIRST DELIVERY: January 1979.

NUMBER DELIVERED TO DATE: Information not available.

SERVICED BY: Anderson Jacobson.

CONFIGURATION

The AJ 510 is an integral keyboard/display terminal designed for interactive timesharing and data entry applications. The terminal is controlled by a Z-80 microprocessor. An RS-232-C printer interface is provided for attachment of an Anderson Jacobson or customer-supplied RO Serial printer, line printer, or teleprinter.

TRANSMISSION SPECIFICATIONS

Transmission is serial asynchronous half- or full-duplex at switch-selectable speeds of 110, 300, 400, 600, 1200, 2400, 4800, or 9600 bps. An RS-232-C or CCITT interface is provided for attachment to the communications line. Odd or even parity or a space or mark condition can be switch-selected. Switch-selection is also provided to allow a choice of Carriage Return (CR), End-of-Transmission (EOT), or End-of-Text (ETX) as the line turn character when operating with a 202-type modem. On-line and character set power-up permits the operator to preselect on-line/off-line transmission in ASCII character mode or on-line operation in APL mode.

DEVICE CONTROL

Transmission is performed character-by-character, by the line, or by the page as selected by the operator. Data may be keyed into the display memory in on- or off-line mode.

Cursor controls move the cursor up, down, right, left, or home. Carriage return with or without automatic line feed can be operator-selected; a separate line feed control is also

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▷ Datapro was unable to obtain a list of users of the AJ 510 from the manufacturer. For this reason, no User Reaction appears in this report. □

▶ provided. Forward and backward tab controls are also provided for cursor movement. The cursor is both addressable and readable by the host computer. Cursor key transmission permits local or remote control over transmission of cursor key depressions in character mode.

When a line is filled with data, the line wraparound function automatically moves the cursor to the beginning of the next line, and a + sign is placed at the end of the full line to indicate a continuation of data on the next line. When the bottom line of the display is filled, an automatic scrolling function moves all lines up by one; the top line of the data is then lost.

The Format Mode allows the operator to create and operate on a formatted display. A 41-character line drawing set is provided for drawing forms (it can also be used to display bar charts, graphs, and other graphics). The length of each data entry field can be specified; fields can also be designated as protected or numeric only and visually highlighted via any combination of underlining, reverse video, blinking, or low intensity video attributes. Cursor movement can be automatic or manually controlled. Partial page transmission permits unprotected data only to be transmitted.

Editing functions include character and line insertion and deletion. Erasure can be performed to the end of a line or page or, in Format Mode, to the end of a protected field or an unprotected line. Some editing and erasure operations may be inhibited in Format Mode. All data, or unprotected data only, can be cleared.

A local print function permits the operator to determine which data is to be sent to the attached printer. Forms designs using the AJ line drawing set may not be able to be reproduced on the printer; certain AJ printers, such as the Model 860, feature a graphics mode with a symbol set similar to that of the AJ 510. IBM compatible 2741 communications is available as an option.

Keyboard-initiated self-test diagnostics provides 6 tests for analysis of terminal malfunction.

COMPONENTS

KEYBOARD: A 94-key typewriter-style keyboard, including an 11-key numeric pad and a 9-key cursor/tab cluster. All keys (except certain control keys) provide auto repeat and n-key rollover. A 128-character ASCII set is standard; an APL character set with overstrike capability is optional. The tab feature provides pre-set tabs every 8 spaces.

DISPLAY: A 15-inch monitor with a screen capacity of 24 lines of 80 characters. Characters are formed by a 7-by-10 dot matrix in a 9-by-12 dot field, and displayed in green on a dark background. A knob on the back of the monitor can vary the display intensity. Characters can be visually highlighted via any combination of underlining, reverse video, blinking, or low intensity video attributes. All 128 ASCII characters can be displayed; an APL character set is optional. A graphics set of 41 symbols permits display of forms, bar graphs, and other graphics on the screen. The cursor is a non-destructive blinking underline. A vertical column of single-character symbols, located in the 82nd display position, displays 24 mode of operation and communication configuration indicators.

PRICING

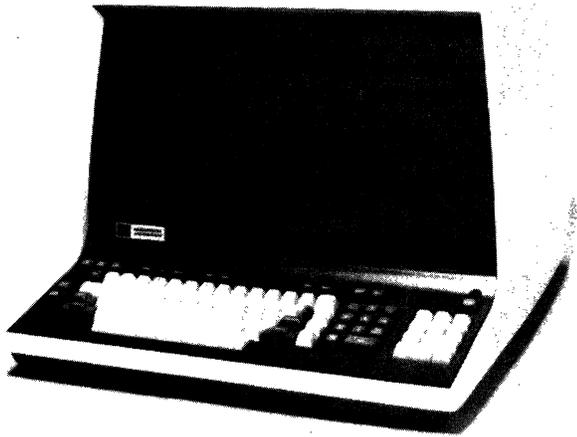
The AJ 510 is available for purchase, on month-to-month rental, or on a 12-, 24-, or 36-month lease. Maintenance is included in rental and lease plans; a separate maintenance contract is available for purchased units and costs \$22 per month for terminals located within a 25-mile radius of an AJ service center. Preparation/transportation/installation (TPI) charges are \$75 for the first terminal and \$55 for each additional unit installed at the same site for sites located within 25 miles of an AJ service center. Additional maintenance and TPI charges apply for sites located beyond the 25-mile radius.

Monthly Rental*

	<u>Month-to-Month</u>	<u>12-Month</u>	<u>24-Month</u>	<u>36-Month</u>	<u>Purchase Price</u>
AJ510					
1-4 Units	\$118	\$110	\$105	\$100	\$2,195
5-9 Units	118	108	103	98	2,095
10-24 Units	118	105	100	95	1,995
25+ Units	118	101	96	91	1,895
APL Option	Monthly rental for APL option is an additional \$12 per month for all lease terms and quantities				
1-4 Units					200
5-9 Units					190
10-24 Units					160
25+ Units					130

*Including maintenance. ■

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Anderson Jacobson's first CRT terminal.

Features include full editing/formatting functions, a 15-inch monitor with a 1920-character screen capacity, a typewriter-style keyboard with numeric pad and cursor/tab control cluster, a 128 ASCII character set plus a 41-character line drawing set, and an RS232C serial printer interface. The only option is an APL character set with overstrike capabilities.

The AJ 510 is priced at \$1,995 and is also available on month-to-month rental or 12-, 24-, or 36-month leasing plans. A 36-month lease costs \$79 per month including maintenance. Quantity discounts are available.

MANAGEMENT SUMMARY

The AJ 510 is the first in a new family of Anderson Jacobson CRT terminals. Designed for interactive timesharing and order entry applications, the terminal features a full set of editing and formatting functions. Forms design capabilities are enhanced by the provision of an extensive 41-character line drawing set, which contains single- or double-line intersections, corners, and other graphics. These symbols can also be used to design, display, and transmit bar charts, graphs, and other line forms using data pretabulated manually or by the host.

Other salient characteristics of the terminal include:

- Z-80 microprocessor control
- 1920-character screen capacity
- Typewriter-style keyboard with numeric pad and cursor/tab control cluster
- Asynchronous half- or full-duplex transmission
- Transmission speeds up to 9600 bps
- RS-232C communications and printer interfaces
- Character, line, or page transmission
- Automatic scrolling and line wraparound
- Addressable/readable cursor
- 24 displayable status indicators
- 6 diagnostic self-tests

CHARACTERISTICS

VENDOR: Anderson Jacobson, Inc., 521 Charcot Avenue, San Jose, CA 95131. Telephone (408) 263-8520.

DATE OF ANNOUNCEMENT: December 1978.

DATE OF FIRST DELIVERY: January 1979.

NUMBER DELIVERED TO DATE: Information not available.

SERVICED BY: Anderson Jacobson.

CONFIGURATION

The AJ 510 is an integral keyboard/display terminal designed for interactive timesharing and data entry applications. The terminal is controlled by a Z-80 microprocessor. An RS-232C printer interface is provided for attachment of an Anderson Jacobson or customer-supplied RO Serial printer, line printer, or teleprinter.

TRANSMISSION SPECIFICATIONS

Transmission is serial asynchronous half- or full-duplex at switch-selectable speeds of 110, 300, 400, 600, 1200, 2400, 4800, or 9600 bps. An RS-232C or CCITT interface is provided for attachment to the communications line. Odd or even parity or a space or mark condition can be switch-selected. Switch-selection is also provided to allow a choice of Carriage Return (CR), End-of-Transmission (EOT), or End-of-Text (ETX) as the line turn character when operating with a 202-type modem.

DEVICE CONTROL

Transmission is performed character-by-character, by the line, or by the page as selected by the operator. Data may be keyed into the display memory in on- or off-line mode.

Cursor controls move the cursor up, down, right, left, or home. Carriage return with or without automatic line feed can be operator-selected; a separate line feed control is also provided. Forward and backward tab controls are also provided for cursor movement. The cursor is both addressable and readable by the host computer.

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➤ Established in 1967, Anderson Jacobson is a well-known and highly respected manufacturer of teprinters and other data communications equipment. □

➤ When a line is filled with data, the line wraparound function automatically moves the cursor to the beginning of the next line, and a + sign is placed at the end of the full line to indicate a continuation of data on the next line. When the bottom line of the display is filled, an automatic scrolling function moves all lines up by one; the top line of the data is then lost.

The Format Mode allows the operator to create and operate on a formatted display. A 41-character line drawing set is provided for drawing forms (it can also be used to display bar charts, graphs, and other graphics). The length of each data entry field can be specified; fields can also be designated as protected or numeric only and visually highlighted via any combination of underlining, reverse video, blinking, or low intensity video attributes. Cursor movement can be automatic or manually controlled. Partial page transmission permits unprotected data only to be transmitted.

Editing functions include character and line insertion and deletion. Erasure can be performed to the end of a line or page or, in Format Mode, to the end of a protected field or an unprotected line. Some editing and erasure operations may be inhibited in Format Mode. All data, or unprotected data only, can be cleared.

A local print function permits the operator to determine which data is to be sent to the attached printer. Forms designs using the AJ line drawing set may not be able to be reproduced on the printer; although certain AJ printers, such as the Model 860, feature a graphics mode with a symbol set similar to the 510's, complete compatibility is not currently available.

Keyboard-initiated self-test diagnostics provides 6 tests for analysis of terminal malfunction.

COMPONENTS

KEYBOARD: A 94-key typewriter-style keyboard, including an 11-key numeric pad and a 9-key cursor/tab cluster. All keys (except certain control keys) provide auto repeat and n-key rollover. A 128-character ASCII set is standard; an APL character set with overstrike capability is optional.

DISPLAY: A 15-inch monitor with a screen capacity of 24 lines of 80 characters. Characters are formed by a 7-by-10 dot matrix in a 9-by-12 dot field, and displayed in green on a dark background. A knob on the back of the monitor can vary the display intensity. Characters can be visually highlighted via any combination of underlining, reverse video, blinking, or low intensity video attributes. All 128 ASCII characters can be displayed; an APL character set is optional. A graphics set of 41 symbols permits display of forms, bar graphs, and other graphics on the screen. The cursor is a non-destructive blinking underline. A vertical column of single-character symbols, located in the 82nd display position, displays 24 mode of operation and communication configuration indicators.

PRICING

The AJ 510 is available for purchase, on month-to-month rental, or on a 12-, 24-, or 36-month lease. Maintenance is included in rental and lease plans; a separate maintenance contract is available for purchased units and costs \$22 per month for terminals located within a 25-mile radius of an AJ service center. Preparation/transportation/installation (TPI) charges are \$75 for the first terminal and \$55 for each additional unit installed at the same site for sites located within 25 miles of an AJ service center. Additional maintenance and TPI charges apply for sites located beyond the 25-mile radius.

	Monthly Rental*				Purchase Price
	Month-to-Month	12-Month	24-Month	36-Month	
AJ510					
1-4 Units	\$95	\$87	\$83	\$79	\$1,995
5-9 Units	95	85	81	77	1,895
10-24 Units	95	83	79	75	1,795
25+ Units	95	81	77	73	1,715
APL Option	Monthly rental for APL option is an additional \$10 per month for all lease terms and quantities				
1-4 Units					200
5-9 Units					190
10-24 Units					160
25+ Units					130

*Including maintenance. ■