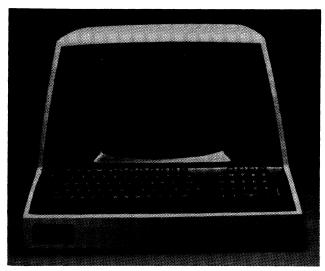# Soroc IQ Display Terminals

Soroc's IQ 135 is a smart display terminal featuring editing capabilities, protected fields, and up to 14 user-programmable functions. A 12-inch display screen and integral typewriter-style keyboard are standard.

A family of Teletype-compatible video display terminals offering a variety of features.

All models feature a 12-inch diagonal display screen with a 24-line by 80-character format. Other standard features include upper- and lower-case alphabetics, addressable cursor, full cursor controls, numeric pad, tabulation between protected fields, scrolling, and erase functions.

The IQ terminals are available for purchase only, with OEM quantity discounts provided. Prices range from $650 to $1,200.

MANAGEMENT SUMMARY

Soroc's IQ terminals are stand-alone video display units with a Lear Siegler-compatible code structure. The family consists of four basic models: the entry-level IQ 120, the top-of-the-line IQ 140, the IQ 135, a smart terminal positioned in between the two older models, and the newest model, the IQ 130. The IQ 130 is Soroc's response to the industry's wave of below-$700 ASCII terminal introductions.

All IQ terminals feature a 12-inch (diagonally measured) display screen with a 24-line by 80-character format. A typewriter-style keyboard is standard; the keyboard is attached on the IQ 130, IQ 120, and IQ 135, and detachable on the IQ 140. A numeric pad is included. Other standard IQ terminal features include: upper- and lower-case ASCII character generation; an addressable cursor with full cursor controls; protected fields; scrolling; an RS-232-C interface; and switch-selectable transmission rates up to 19,200 bps.

The IQ 120 features conversational mode (character-by-character) transmission. The terminal includes erase functions and an audible alarm. The 73-key keyboard includes auto repeat, alpha lock, and an 11-key numeric pad. Options available with the IQ 120 include block mode capability, a hard-copy printer interface, a 20mA current loop interface, and the IQ 120-C, which is the basic terminal equipped with a commercial keyboard (an adding machine-style numeric pad, and a large raised return key).

The IQ 140 provides additional editing and screen formatting features, including line and character insertion/deletion, phrase insertion, backtab and column tab functions, and highlighting functions. Block transmission ▷

CHARACTERISTICS

VENDOR: Soroc Technology Inc., 165 Freedom Avenue, Anaheim, California 92801. Telephone (714) 992-2860.

DATE OF ANNOUNCEMENT: IQ 120—November 1976; IQ 140—November 1978. IQ 135—December 1981; IQ 130—July 1981.

DATE OF FIRST DELIVERY: IQ 120—November 1976; IQ 140—December 1978; IQ 135—January 1981; IQ 130—August 1981.

NUMBER DELIVERED TO DATE: IQ 120—40,000; IQ 135—300; IQ 140—5,000.

SERVICED BY: Soroc factory service and third party.

MODELS

The Soroc IQ 120, IQ 130, and IQ 135 are stand-alone display terminals with attached keyboards. The IQ 140 is equipped with a detachable keyboard.

TRANSMISSION SPECIFICATIONS

Transmission is asynchronous in the half- or full-duplex mode at switch-select rates from 75 to 19,200 bits per second on the IQ 120 and from 110 to 19,200 bits per second in all other models. The 8-level, 10- or 11-unit ASCII code is used. Odd or even parity, marking, or spacing can be selected via strapping. The terminals are equipped with an RS-232-C modem interface and an RS-232-C printer interface. A 20mA current loop interface is optional.

DEVICE CONTROL

IQ 120: The IQ 120 operates in the Conversational or Protect modes. In the Conversational mode, transmission is performed on a character-by-character basis as each key is depressed. In the Protect mode, data entry formats are displayed in reduced intensity. When not in the Protect mode, displayed data is automatically scrolled. Block mode transmission is optional; a line or page can be transmitted when the IQ 120 is equipped with the option.

Cursor controls position the cursor left, right, up, down, or home. Carriage return and line feed also position the cursor, ▶

Soroc IQ Display Terminals

▷ is a standard feature. The detachable, 117-key keyboard includes 16 function keys. A polling option provides compatibility with the Lear Siegler ADM-2 and Burroughs polling disciplines.

The IQ 135 was introduced to fit in between the IQ 120 and IQ 140 models. The IQ 135 has all of the features of the IQ 120, plus increased function flexibility through the implementation of programmable transmission and print delimiters, programmable keyboard repeat rate and character blink rate, programmable lead-in code, and adjustable right-hand margin. Up to 14 function keys are available for programming by the operator. Block mode transmission and editing features are also included. A graphics option is available, which includes line drawing capabilities and 11 special graphics characters.

The newest Soroc unit, the IQ 130, is the company's response to the ADDS Viewpoint, Hazeltine Esprit, and other ASCII terminals in the $600 to $700 range. The IQ 130 offers many of the features which were incorporated into the IQ 135, including conversational/block mode transmission, editing, video attributes, and programmable functions.

Soroc offers substantial OEM quantity discounts on all IQ terminals.

Datapro was unable to contact a sufficient number of Soroc IQ terminal users; therefore, no User Reaction appears in this report.□

▶ and a tab function moves the cursor between unprotected fields in the Protect mode. Cursor addressability is a standard feature.

Erase functions erase data from the cursor to the end of a line or field or from the cursor to the end of memory; clear the screen; or erase all unprotected fields in the Protect mode.

An audible alarm sounds in response to a received Bell code. A local print function is optional. The printer speed is selected via strapping.

IQ 130 & IQ 135: Both models provide three standard modes of operation: Conversational, Protect, and Block modes. In Conversational mode, transmission is performed on a character-by-character basis as data is keyed. In Protect mode, data entry formats are displayed in reduced intensity. In Block mode, formatted text is transmitted by line, page, or message.

Cursor controls move the cursor left, right, up, down, or home. Formatted tab (forward and backward), typewriter tab (forward and backward), and new-line functions also position the cursor. Absolute cursor addressing is a standard feature. The cursor can be enabled or disabled from the keyboard.

Edit commands include character insert/delete, line insert/delete, clear all, clear foreground, and clear to end of line/page (to spaces or nulls).

Video attributes include blink, underline, and reverse (in any combination).

IQ 140: The IQ 140 provides three standard modes of operation: Conversational, Protect, and Block modes.

Cursor controls move the cursor left, right, up, down, or home. Backtab, tab, new line, and carriage return functions also position the cursor. Absolute cursor addressing is a standard feature.

Edit functions include character and line insertion and deletion, phrase insertion, and type-over. The Clear function clears the entire screen or clears data from the cursor to the end of a page, line, or field with space or null. Screen formatting features includes Write All mode; Tab, Column Tab, and Backtab; and dual intensity, blinking, blanking, underlining, and reverse video.

The Polling Address and Enable Option provides compatibility with the Lear Siegler ADM 2 or Burroughs polling disciplines.

COMPONENTS

CRT DISPLAY UNIT: A 12-inch (diagonal measurement) CRT with a viewing area 6.5 inches high by 8.4 inches wide. The screen displays a total of 1920 characters arranged in 24 lines of 80 characters each. The IQ 130, IQ 135, and IQ 140 provide a 25th line for status and mode display. On the IQ 120, the character set features 96 displayable symbols including upper and lower case alphabetics, numerics, and specials. The IQ 130, IQ 135, and IQ 140 feature 128 displayable ASCII symbols. Each character is formed via a 5-by-7 (IQ 120) or 5-by-9 (IQ 130, IQ 135, and IQ 140) dot matrix with two-dot spacing between characters and double spacing between lines.

Data is displayed in white. The cursor is displayed as a block. The IQ 140 also provides cursor underlining and blinking.
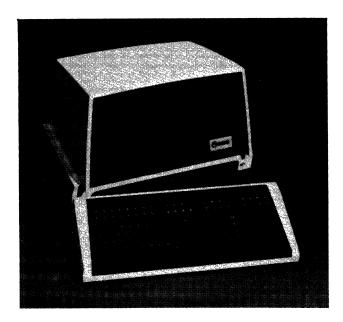
IQ 120 KEYBOARD: A 73-key typewriter-style integral keyboard, including a 15-key numeric and cursor control keypad to the right of the main keygroup, and a column of 4 function keys to the left. The keyboard generates any of 128 ASCII character codes.

IQ 130 KEYBOARD: A 77-key typewriter-style integral keyboard, including a numeric/cursor control pad. Up to 14 user-programmable functions are available. The keyboard generates any of 128 ASCII character codes. A 15-character line drawing set is optional.

IQ 135 KEYBOARD: A 93-key typewriter-style integral keyboard, including a numeric/cursor control pad and 4 function keys, with up to 14 functions available. All keys feature auto repeat. The keyboard generates any of 128 ASCII character codes. An 11-character line drawing set is optional.

IQ 140 KEYBOARD: A detachable, typewriter-style keyboard equipped with 55 character and control keys, an 8-key cursor control key cluster, a 14-key numeric pad, 16 special funciton keys, an 8-key Clear and Edit cluster, an 8-key Mode Control and Video Field cluster, and an 8-key Message Control and Print cluster. The keyboard generates any of 128 ASCII character code. Automatic repeat is provided at 15 characters per second.

PRICING

The Soroc terminals are available for purchase only. OEM discounts are provided. The terminals are covered under a 90-day warranty and Soroc provides factory service on a three-day turnaround basis.

	Purchase Price
IQ 130	$ 650
IQ 120	779
IQ 135	799
IQ 140	1,200■

Soroc IQ 120 and IQ 140 Display Terminals

The IQ 140 offers editing, screen formatting, and highlighting features. Located at the front of the unit behind the detachable keyboard are switches that control such functions as communications interfaces, half- or full-duplex transmission, and the Polling option.

Teletype-compatible keyboard/display terminals designed for conversational and data entry applications.

Standard features include a 1920-character display, cursor addressability, cursor controls, format protection, basic editing, and switch-selectable data rates of 75 or 110 to 19,200 bps. The IQ 140 also provides more extensive editing and screen formatting capabilities.

The terminals are available for purchase only. The IQ 120 and IQ 140 cost $995 and $1,495, respectively, in single unit quantities. OEM discounts are provided.

MANAGEMENT SUMMARY

Soroc's IQ 120 and IQ 140 are stand-alone keyboard/display terminals featuring a Lear Siegler-compatible code structure. The basic terminals serve both conversational and data entry applications. Scrolling is standard when operating in the conversational mode. Data entry is supported by format protection.

Salient features of the IQ 120 and IQ 140 include: a 1920-character screen, upper and lower case alphabetics, an addressable cursor, full cursor controls, a numeric pad, tabulation between protected fields, scrolling, format protection, erase functions, and switch-selectable transmission rates from 75 to 19,200 bps (IQ 120) or 110 to 19,200 bps (IQ 140). An option package that features block transmission and local printing is available for the IQ 120.

The IQ 140 provides additional editing and screen formatting features, including line and character insertion/deletion, phrase insertion, backtab and column tab functions, and highlighting functions. Block transmission is a standard feature. A polling option provides compatibility with the Lear Siegler ADM-2 and Burroughs polling disciplines.

USER REACTION

Datapro obtained ratings from six users on a total of 42 Soroc IQ 120 and IQ 140 terminals. Their responses are summarized below. ▷

CHARACTERISTICS

VENDOR: Soroc Technology Inc., 165 Freedom Avenue, Anaheim, California 92801. Telephone (714) 992-2860.

DATE OF ANNOUNCEMENT: IQ 120—November 1976; IQ 140—November 1978.

DATE OF FIRST DELIVERY: IQ 120—November 1976; IQ 140—December 1978.

NUMBER DELIVERED TO DATE: 16,000 (both models).

SERVICED BY: Soroc factory service and third party.

MODELS

The Soroc IQ 120 is a stand-alone display terminal with attached keyboard. The IQ 140 is equipped with a detachable keyboard.

TRANSMISSION SPECIFICATIONS

Transmission is asynchronous in the half- or full-duplex mode at switch-selectable rates from 75 to 19,200 bits/second on the IQ 120 and from 110 to 19,200 bits/second on the IQ 140. The 8-level, 10- or 11-unit ASCII code is used. Odd or even parity, marking, or spacing can be selected via strapping. The terminals are equipped with an RS-232C modem interface and an RS-232C printer interface. A 20 mA current loop interface is optional.

DEVICE CONTROL

IQ 120: The IQ 120 operates in the Conversational or Protect modes. In the Conversational mode, transmission is performed on a character-by-character basis as each key is depressed. In the Protect mode, data entry formats are displayed in reduced intensity. When not in the Protect mode, displayed data is automatically scrolled. Block mode transmission is optional; a line or page can be transmitted when the IQ 120 is equipped with the option.

Cursor controls position the cursor left, right, up, down, or home. Carriage return and line feed also position the cursor, and a tab function moves the cursor between unprotected fields in the Protect mode. Cursor addressability is a standard feature. ▶

Soroc IQ 120 and IQ 140 Display Terminals

▷

	Excellent	Good	Fair	Poor	WA*
Overall performance	3	3	0	0	3.5
Ease of operation	3	3	0	0	3.5
Display clarity	2	3	1	0	3.2
Keyboard feel and usability	2	4	0	0	3.3
Hardware reliability	1	4	1	0	3.0
Maintenance service	0	1	2	1	2.0
Technical support	0	0	1	2	1.3

*Weighted Average on a scale of 4.0 for Excellent.

Two users perform their own maintenance and three declined to rate technical support, thus accounting for the lower number of responses for those categories.

Five of the six respondents cited the price of the terminals as the key advantage. Also mentioned favorably were the features available and the simplicity of the terminals. However, two users thought that Soroc's quality control should be improved.□

▶ Erase functions erase data from the cursor to the end of a line or field or from the cursor to the end of memory; clear the screen; or erase all unprotected fields in the Protect mode.

An audible alarm sounds in response to a received Bell code. A local print function is optional. The printer speed is selected via strapping.

IQ 140: The IQ 140 provides three standard modes of operation: Conversational, Protect, and Block modes. The Conversational and Protect modes operate in the manner described above for the IQ 120. In Block mode, formatted text is transmitted by line, page, or message.

Cursor controls move the cursor left, right, up, down, or home. Backtab, tab, new line, and carriage return functions also position the cursor. Absolute cursor addressing is a standard feature.

Edit functions include character and line insertion and deletion, phrase insertion, and type-over. The Clear function clears the entire screen or clears data from the cursor to the end of a page, line, or field with space or null. Screen formatting features includes Write All mode; Tab, Column Tab, and Backtab; and dual intensity, blinking, blanking, underlining, and reverse video.

The Polling Address and Enable Option provides compatibility with the Lear Siegler ADM-2 or Burroughs polling disciplines.

COMPONENTS

CRT DISPLAY UNIT: A 12-inch (diagonal measurement) CRT with a viewing area 6.5 inches high by 8.4 inches wide. The screen displays a total of 1920 characters arranged in 24 lines of 80 characters each. The IQ 140 provides a 25th line for status and mode display. On the IQ 120, the character set features 96 displayable symbols including upper and lower case alphabetics, numerics, and specials. The IQ 140 features 128 displayable ASCII symbols. Each character is formed via a 5-by-7 (IQ 120) or 5-by-9 (IQ 140) dot matrix with two-dot spacing between characters and double spacing between lines.

Data is displayed in white. The cursor is displayed as a block. The IQ 140 also provides cursor underlining and blinking.

IQ 120 KEYBOARD: A 54-key typewriter-style integral keyboard. The keyboard also features a 15-key numeric and cursor control keypad to the right of the main keygroup, and a column of 4 function keys to the left. Key functions include Return, Rub-Out, Escape, Break, Clear, Home, Tab, Alpha lock (upper case only), Shift, Control Shift, and Space. The keyboard generates any of 128 ASCII character codes.

IQ 140 KEYBOARD: A detachable, typewriter-style keyboard equipped with 55 character and control keys, an 8-key cursor control key cluster, a 14-key numeric pad, 16 special function keys, an 8-key Clear and Edit cluster, an 8-key Mode Control and Video Field cluster, and an 8-key Message Control and Print cluster. The keyboard generates any of 128 ASCII character codes. Automatic repeat is provided at 15 characters per second.
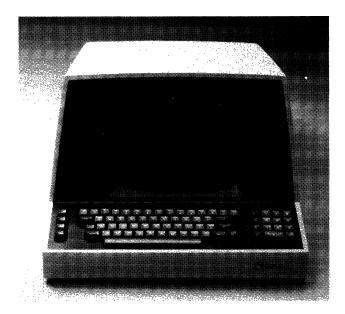
PRICING

The Soroc terminals are available for purchase only. OEM discounts are provided. The terminals are covered under a 90-day warranty and Soroc provides factory service on a three-day turnaround basis.

		OEM Purchase Prices			
	End User Prices	5-14 Units	15-49 Units	50-99 Units	100-249 Units
IQ 120 Terminal	$995	$800	$800	$750	$720
Option Package (includes Line/Page Block Send and Screen Print features)	100	80	80	75	72
IQ 140 Terminal	1,495	1,450	1,400	1,350	1,250
Polling Option	300	300	300	300	300■

Soroc IQ 120 Display Terminal

A low-cost Teletype-compatible CRT keyboard/display terminal.

Standard features include conversational or formatted operation, scrolling, cursor addressability, upper and lower case alphabetics, and switch-selectable speeds from 75 to 19,200 bps. An option provides block transmission and local printing.

Purchase prices range from $995 to $1,095 in unit quantities; quantity discounts are provided. Available for purchase only.

MANAGEMENT SUMMARY

Soroc Technology Inc. was spun off from Lear Siegler and formed as a separate company in mid-1975. Prior to the introduction of its initial product, the IQ 120 display terminal, Soroc performed contract engineering for vendors and claims credit for the Beehive B-100 terminal.

The Soroc IQ 120 is a stand-alone, Teletype-compatible, "glass teleprinter" that features a Lear Siegler-compatible code structure. The basic terminal serves both conversational and data entry applications. Scrolling is standard when operating in the conversational mode. Data entry is supported by format protection. Salient features of the IQ 120 include:

● A 1920-character screen.

● Upper and lower case alphabetics.

● An addressable cursor.

● Full cursor controls.

● A numeric pad.

● Tabulation between protected fields.

● Scrolling.

● Format protection.

● Erase functions.

● Switch-selectable transmission rates from 75 to 19,200 bps. ▷

CHARACTERISTICS

VENDOR: Soroc Technology Inc., 3074 E. Miraloma Avenue, Anaheim, California 92806. Telephone (714) 630-2232.

DATE OF ANNOUNCEMENT: November 1976.

DATE OF FIRST DELIVERY: November 1976.

NUMBER DELIVERED TO DATE: 3000.

SERVICED BY: Soroc factory service and third party.

MODELS

The Soroc IQ 120 is a stand-alone display terminal with attached keyboard.

TRANSMISSION SPECIFICATIONS

Transmission is asynchronous in the half- or full-duplex mode at switch-selectable rates from 75 to 19,200 bits/second. The 8-level, 10- or 11-unit ASCII code is used. Odd or even parity, marking, or spacing can be selected via strapping. The terminal is equipped with an RS-232C modem interface and an RS-232C printer interface.

DEVICE CONTROL

The IQ 120 operates in the Conversational or Protect modes. In the Conversational mode, transmission is performed on a character-by-character basis as each key is depressed. In the Protect mode, data entry formats are displayed in reduced intensity. When not in the Protect mode, displayed data is automatically scrolled. Block mode transmission is optional; a line or page can be transmitted when the IQ 120 is equipped with the option.

Cursor controls position the cursor left, right, up, down, or home. Carriage return and line feed also position the cursor, and a tab function moves the cursor between unprotected fields in the Protect mode. Cursor addressability is a standard feature.

Erase functions erase data from the cursor to the end of a line or field or from the cursor to the end of memory; clear the screen; or erase all unprotected fields in the Protect mode.

An audible alarm sounds in response to a received Bell code. ▶

Soroc IQ 120 Display Terminal

▷ An option package features block transmission and local printing.

Soroc's market is equally divided between OEM's and large end-user retail stores. It is currently producing 500 units per month. Service is factory direct or provided via a third party. □

▶ A local print function is optional. The printer speed is selected via strapping.

COMPONENTS

CRT DISPLAY UNIT: A 12-inch (diagonal measurement) CRT with a viewing area 6.5 inches high by 8.4 inches wide. The screen displays a total of 1920 characters arranged in 24 lines of 80 characters each. The character set features 95 displayable symbols including upper and lower case alpha-betics, numerics, and specials. Each character is formed via a 5-by-7 dot matrix with two-dot spacing between characters and double spacing between lines.

Data is displayed in white. The cursor is displayed as a block.

KEYBOARD: A 54-key typewriter-style integral keyboard. The keyboard also features a 15-key numeric and cursor control keypad to the right of the main keygroup, and a column of 4 function keys to the left. Key functions include Return, Rub-Out, Escape, Break, Clear, Home, Tab, Alpha lock (upper case only), Shift, Control Shift, and Space. The keyboard generates any of 128 ASCII character codes.

PRICING

The Soroc IQ 120 terminal is available for purchase only. OEM discounts are provided. The terminal is covered under a 90-day warranty and Soroc provides factory service on a three-day turnaround basis.

	1-4 Units	5-49 Units	50-99 Units	100-249 Units	
IQ 120 Terminal	$995	$800	$750	$720	
Option Package (includes Line/Page Block Send and Screen Print (features)	100	80	75	72	■