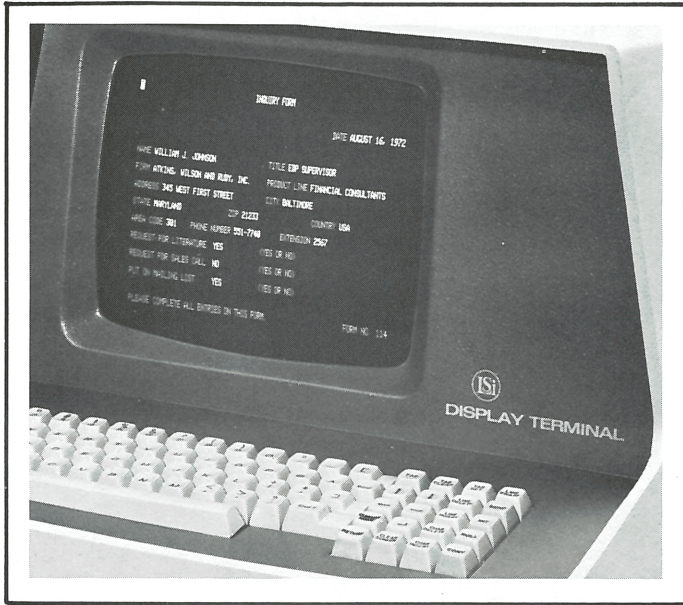




**interactive
display terminal
7700A**



7700A



7700A FEATURES

- Self-contained, remote keyboard, and rack mounted versions.
- Non-glare screen.
- Complete protect mode capability allows use of fixed and variable data areas simultaneously.
- Cursor position can be read and addressed via Computer Command.
- 2000 character display.
- Full cursor control with wrap around in all four directions.
- Blink capability for all characters.
- Cursor blinks when transmission error is detected.
- Complete off-line text editing capability.
- Variable-length messages may begin anywhere on display screen.
- Roll (scroll) mode.
- Printer and/or cassette accessories available.
- Variety of interface configurations available
- Complete computer control over all I/O operations
- Teletype compatible
- 60 Hz refresh rate
- 126 kbps serial interface
- 15,750 characters per second parallel interface

THE 7700A INTERACTIVE DISPLAY TERMINAL

Lear Siegler, Inc. introduces its newest member of the 7700 Series Display Terminals. This interactive terminal is equipped with keyboard, control logic, character generator, refresh memory and interface. With the availability of numerous interfaces, the 7700A is easily adaptable to a wide range of applications.

A 12-inch diagonal CRT with a non-glare screen displays 2000 characters (80 characters/line, 25 lines). Characters are formed within a 5 x 7 dot matrix and generated by a standard TV scan technique. A 60 Hz refresh rate (synchronized with input power frequency) allows use of brighter and clearer P31 phosphor. As a result, precise, flicker-free characters are presented to the operator. A 50 Hz version for use in overseas locations is available as an option.

Because of its flexibility, the 7700A can operate with equal ease in office, warehouse, or other environments.

CONFIGURATIONS

In addition to the self-contained terminal, shown on cover, the 7700A is also available in two other configurations (see above) for universal application. 1) Self-contained with a remote keyboard 2) Rack-mounted control logic and power supply with remote keyboard and monitor.

SOLID STATE KEYBOARD

The LSI 7700A Display Terminal incorporates a keyboard consisting of a standard typewriter configuration plus 16 cursor and edit control keys, and 6 transmission and mode control keys. Alternate action mode control keys provide immediate visual indication of the operating mode. The keyboard incorporates two-key roll over. Repeat is accomplished by simply holding the key down. The keyboard is completely solid state, assuring high reliability and trouble-free operation. A 10 key numeric pad is available as an option.

EDITING

The 7700A offers comprehensive editing features to greatly reduce software handling problems. Text editing capabilities include:

- Character insert
- Character delete
- Character replace
- Clear screen
- Line insert
- Line delete
- Line erase
- Split screen



CURSOR CONTROLS

All Cursor Controls (except tab functions) may either be initiated by the operator or the computer. The cursor will wrap-around in all four directions. The Cursor Controls include:

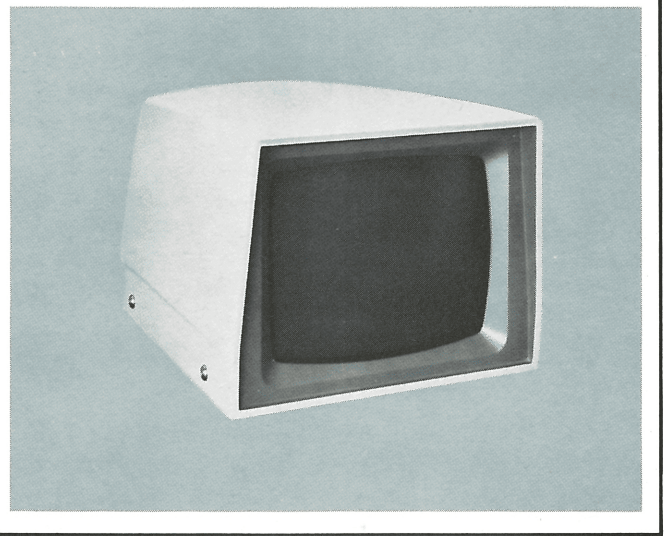
- Advance
- Backspace
- Up
- Down
- Skip
- Home
- Return
- Return with line feed
- Read cursor address
- Locate by address

In addition, multiple tabs can be set or cleared anywhere on a line with the same flexibility available in a standard typewriter.

FUNCTION COMMANDS

A variety of computer controlled function commands allow greater programming flexibility. These include:

- **Transmit enable/disable** permits the computer to control 7700A batch or block transmission.
- **Read cursor position**, allows the 7700A to transmit the cursor position to the computer.
- **Load cursor position**, permits the computer to position the cursor to any absolute location.
- **Keyboard enable/disable** removes the keyboard from operator control.
- **Display on/off** only affects the visible display, not the contents of the memory.
- **Screen protect set/reset** protects any or all characters on the screen.
- **Split screen set/reset** allows the left half of the screen to be protected with a single command.



INTERFACE

With the LSI 7700A, the user may elect a serial current loop or parallel interface.

Serial

The standard serial interface is EIA-RS232C compatible, and includes the ability to communicate in an asynchronous mode with ATT 103 or 202 modems, or their equivalents. Either 10 or 11 bit characters at rates of 110, 300, 1200 1800 or 2400 baud. Optional configurations permit data transfer rates asynchronous or synchronous to 126,000 bits per second. This permits a wide variety of acoustic couplers and other types of modems to be used.

Current Loop

A 20 or 60 milliamp, 2 or 4 wire, current loop interface for direct teletype replacement is also available.

Parallel

The standard parallel interface transfers data up to 15,750 characters per second.

TRANSMISSION

Batch or Block Modes—

Two operator/computer controlled modes are incorporated. The Partial Transmit Mode permits transfer of all data between the cursor and an end-of-message character (inserted from the keyboard or the computer) when "SEND" is initiated. The Block Mode permits transfer of all data from the cursor to the end of the screen when the "SEND" key is depressed. Transmission may be initiated from the keyboard or the computer.

Space Suppression—

Only text is transmitted. Unused portions (blank spaces) to the end of a line or to the end of an unprotected field are not transmitted. This feature is automatic and requires no special character or codes to be inserted into the 7700A memory.

Conversation Modes—

Two operator controlled conversation modes are incorporated. In the Half Duplex Mode each character is immediately transmitted and simultaneously displayed on the screen as it is typed. In the Full Duplex Mode each character is trans-

mitted as it is typed, but is not displayed unless it is retransmitted ("echoplexed") back to the 7700A by the computer.

Protected Mode—

This mode is used in conjunction with any of the other modes. It permits use of fixed and variable data fields. The Protected Mode gives the operator access to only unprotected areas of the screen. All data in protected areas is fixed and not transmitted. Most editing and all cursor functions may be used. Protected and unprotected characters on the screen are displayed with adjustable dual intensity.

ADDITIONAL FUNCTIONS

The 7700A has several functions which do not fall under the previous categories and add to its utility and ease of operation. These include:

- Programmable character blink
- Programmable audio tone
- Programmable cursor blink
- Accepts lower case ASCII alpha characters
- Incoming data may be interrupted from the keyboard; in serial transmission either the ASCII ENQ code or a 220 millisecond BREAK code may be transmitted.
- Roll Mode — data may be rolled (scrolled) on the screen.

DISPLAY

CRT size: 12-inch diagonal television monitor.
Characters displayed: 2,000
Format: 80 characters per line with 25 lines
Refresh rate: 60 times per second
Scan method: standard television raster
Character generation: 5 x 7 dot matrix
Character set: 64 characters
Character code: ASCII
Cursor: non-destructive reverse image square
Cursor control functions: Space, tab, return, return with line feed, home advance, backspace, up, down, and skip.
Editing capability: Character replace, erase to end of line, clear screen, roll (scroll), split screen, insert and delete (line and character).

MEMORY

Type: MOS shift register
Capacity: 2,000 characters

KEYBOARD

Standard typewriter keys plus cursor control keys, editing keys and transmission and mode control keys. Keyboard lock-out (except interrupt) under computer control. Input transmission can be interrupted (INT) from keyboard. End-of-line audio signal.

INTERFACE

A variety of interface selections are available including printer and cassette.

INPUT/OUTPUT

Asynchronous: ATT 103, 202 type data sets or acoustic couplers with baud rates of 110, 300, 1200, 1800, 2400 RS232C or current loop interface signals. Other baud rates are available as an option.

Asynchronous/Synchronous (optional): to 9,600 baud

Serial: Bit rates up to 126,000 bits per second

Parallel: 8 data lines (7 data plus optional parity bit) plus control lines. Transmission rates up to 15,750 8-bit bytes per second.

Transmit Capability: Half and full duplex

Transmit Mode: Transmit message, transmit memory, conversational, protected.

Space suppression: Only text is transmitted; unused portions (spaces) to the end of the line or to the end of an unprotected field are not transmitted.

Polling: Multi-drop operation (optional)

SIZE... 14" high x 18" wide x 23" long

WEIGHT... 60 pounds

POWER REQUIREMENTS... 120 VAC, 60 Hz, 175W
240 VAC, 50 Hz (optional)

SALES AND SERVICE

LSI is a proven display manufacturer with more than a decade of CRT display experience.

LSI has sales offices and/or manufacturer representatives in every principal city. These offices are staffed by sales personnel specially selected for their experience and performance in the computer peripheral market. They stand ready to assist you with selecting the proper peripherals to most economically satisfy your requirements.

Service on LSI equipment is performed by highly trained and experienced service personnel. The reliable LSI Display Terminal requires minimal service; however, if a problem does arise, service is just a phone call away.

For the nearest LSI Sales Representative, contact our sales department at the address below.

For further information contact:

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