

PLACE
STAMP
HERE

Attn: Product Group 8510/a

terak
CORPORATION

14405 No. Scottsdale Rd.
Scottsdale, Arizona 85260

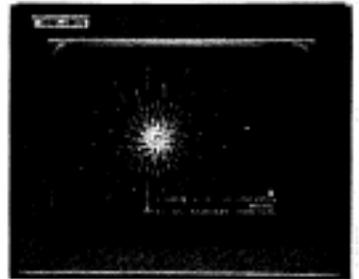
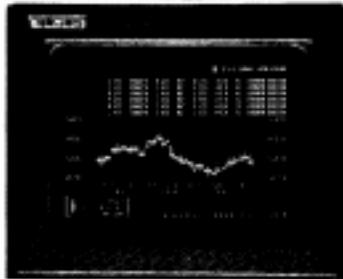
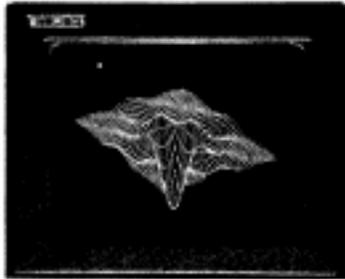
LITTHO IN USA

51-0001-001/978/CC/10M/TS&F

TERAK, 8510/a and 8512 are ® trade-marks of TERAK CORPORATION, Scottsdale, Arizona.

terak
CORPORATION

Actual photos of the graphics/text combinations attainable with the 8510/a



terak
CORPORATION

14405 North Scottsdale Rd.
Scottsdale, Arizona 85260

TERAK 8510/a GRAPHICS COMPUTER SYSTEM



- Fully programmable 16-bit LSI Processor
- Floppy disk storage
- 1920 Character Text Display
- Raster scan graphics
- 12" CRT display
- Full ASCII keyboard
- For educators, scientists, mathematicians & businessmen

The 8510/a is not a building-block add-on, not an intelligent terminal, but a complete *graphics* system with more versatility, more features than any other comparably priced system on the market. This system brings together those features most desired by educators and professionals who seek a total resource in a stand-alone environment.

The 8510/a is a product specifically designed with the user in mind. From the single switch on/off-auto bootstrap function to the composite video output for remote monitor use . . . the 8510/a provides simplicity for the first-time user and versatility for the professional.

Finally, the 8510/a Graphics Computer System represents capability, versatility, portability and product quality resulting in higher price/performance and lower overall life-cost than any system in its class.

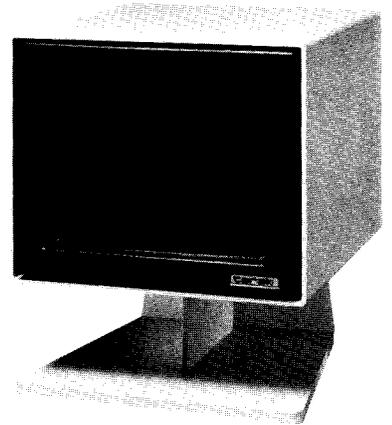
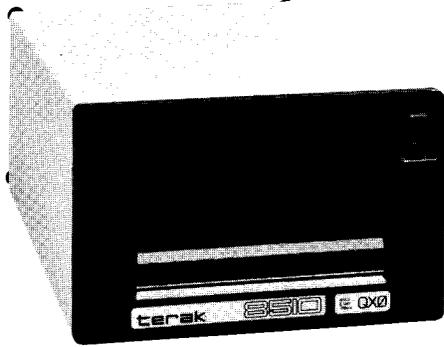
The TERAK 8510/a . . . feature for feature, a truly outstanding system. A sound investment decision.

SYSTEM FEATURES

- 28K word memory (16-bit)
- 320 dot wide x 240 dot high medium resolution graphics display
- Square dot matrix display with equal horizontal and vertical dot spacing
- 24 x 80 character display with 25 x 80 character storage
- 8 dot wide x 10-dot high adjacent character blocks can accommodate 5 x 7 characters with lower case descenders, 7 x 9 characters, math symbols and special graphics characters
- 192 character code set, full 8-bit bytes
- Read/write character generator; supports foreign languages, APL, primitive graphics. Any 8 x 10 dot pattern can be displayed for any of the 192 character codes
- Main memory graphics display buffer, refreshed directly from any contiguous segment of main memory

- Text and graphics displays are independently controlled, including three horizontal blanking zones in each mode of display
- Characters and graphics can be displayed simultaneously since dot matrices overlap yet are visually distinct
- Continuous motion panning of text display
- Text page buffer independent of main memory is randomly addressable, read and write
- Dedicated system keyboard/display interface leaves serial interface free for other uses
- Keyboard and display function as system console or can be alternately switched to function as peripheral device using serial interface to connect alternate system console
- Real time clock synchronized with start of vertical retrace
- Supports four (4) languages: BASIC, FORTRAN IV, APL, PASCAL

MAJOR COMPONENTS



PROCESSOR

The processor is a completely self-contained disk based computer system incorporating the DEC LSI-11 microcomputer, hardware multiply, divide and floating point arithmetic. Also included are floppy disk drive, a disk controller which handles up to four drives, single serial interface, 28K words of 16-bit MOS RAM, video control circuitry and integral power supply.

The 8510/a features word and byte processing, eight general purpose registers, hardware and software interrupts, real time clock, parallel I/O data bus and power failure/auto-restart logic. The entire package occupies less than one cubic foot and weighs approximately 40 pounds

PROCESSOR FEATURES:

- 16-bit word LSI processor design
- 56K Bytes MOS read/write memory
- Single floppy disk drive (IBM 3740 format)
- Disk controller (up to four drives - daisy chain)
- Power monitor - power fail/restart
- Serial interface: RS-232-C & 20ma C.L.
- Video control circuitry
- Separate keyboard input/video output connectors
- Auxiliary composite video output connector

DISPLAY UNIT

The 8510/a's display unit is a 12-inch black & white monitor mounted in a free-standing pedestal base style

cabinet which places the horizontal center line of the display at a comfortable viewing height. The display is mounted at a zero degree angle to reduce glare and eye fatigue. Contained in the display unit are the monitor, power supply and a 2-inch speaker for use with the programmable frequency/amplitude audio alarm (bell) feature.

DISPLAY FEATURES:

- 12" diagonal viewing surface
- Free standing cabinet—above normal desk/table surfaces
- Power on/off under control of system processor
- P4 phosphor - refreshed 60 times per second
- Bonded, etched faceplate
- Lightweight construction, extremely portable

KEYBOARD

The keyboard is a 71-key grouping providing the full 128 character ASCII set plus a cursor control group and numeric keypad. IBM typewriter-style layout with sculptured keytops is featured for rapid data entry and text editing. Cable connected to processor for flexibility in positioning with respect to the display unit.

KEYBOARD FEATURES:

- Full 128 character ASCII set
- Numeric keypad
- Cursor Controls
- Additional function codes under "control" and "shift/control" modes for added system flexibility
- Sculptured keyboard
- Free-standing design, rugged metal cabinet

I'd like more information on:

- 8510/a Complete Specifications Additional Peripherals & Interfaces Price and Delivery Information
 8512 Add-On Floppy Disk Drive System TERA'S Entire Product Line Other (specify) _____

Name _____

Firm/Institution _____

Address _____

City _____ State _____ Zip _____

Telephone (_____) _____

System application: _____