S-C 4060 PLOTTER PRINTER

Converts computer output into precise scientific and engineering graphics and alphanumerics; records output on film or optional paper

Designed to user requirements, the S-C 4060 is today's most powerful and versatile computer recording system. Working on-line with new generation computers or multiple tape transports, the S-C 4060 translates digital codes into alphanumerics at computer speeds.

Also produces ultra-high resolution plotting of points, vectors, curves, Boolean diagrams, global maps, PERT charts, and even frames for animated films. Records data automatically on 16mm or 35 mm microfilm on-line or produces optional paper copy.

S-C 4060 CHARACTERISTICS

GENERAL CHARACTERISTICS:

Compatible With: Third generation computers such as Spectra 70, IBM 360, GE-635, etc.

Operation: Accepts input from variety of sources, generates alphanumerics or line graphics and produces microfilm or optional on-line hardcopy.

Speed: 90,000 characters or more per second.

Plot Format: 4096 × 3072 equal increment addressable units variable under program control.

Input: Accepts and processes 7 or 9 track tape data, on-line computer data, accepts input from paper tape or cards.

Input Density: Up to 800 bytes per inch from tape.

Output: 16mm or 35mm microfilm, optional on-line hardcopy.

Logic: Integrated circuits, functional boards.

Circuitry: Solid state.

CHARACTER & GRAPHICS GENERATION:

CRT Tube: 7″ high resolution CHARACTRON® character generating tube with 96 character matrix plus optional stroke character generator.

Character Set: ASCII, Standard Binary, Extended Binary. Offers upper and lower case letters, 10 numerics and 34 special symbols programmable in four different sizes and two orientations to produce images of highest quality and variety.

Plotting: Generates plots over a 4096 × 3072 equal increment, addressable point raster.

Spot Sizes: 2, 4, 8 and 16 addressable points.

Plot Modes: Plot random mode requires 40 microseconds. Plot sequential (change of 80 raster positions maximum) requires 10 microseconds.

Line Generation: Four weights. Minimum line weight equals two addressable points. Solid or dashed lines. Maximum line length at minimum weight requires less than one millisecond.

Forms Overlay: Superimposes forms on generated image under program control.

Forms Resolution: Line weights as small as .010 inch may be resolved when form is reproduced in 8½″ × 11″ format.

Standard Features:
Programmable input control, line generation, plotting
Standard forms projector
Rotatable tube mount
Horizontal and vertical tabbing
ASR-33 teletype printer

Camera:
600 ft. magazines provide 16mm or 35mm microfilm recording on either perforated or non-perforated film.

Options:
On-line film processor
On-line hardcopy printer
Film coding
Stroke generator
Additional core memory
Card reader
Cameras

PRODUCT CONTROL UNIT:

Type: Parallel, binary, solid state, integrated circuits, internally stored program.

Addressing: Single address with indexing and indirect addressing.

Word Length: Sixteen bits.

Machine Code: Two's complement.

Memory: Coincident-current ferrite core. 8192 word modules, expandable to 32,768 words. 1.7 microsecond cycle time.

Speed: Add and subtract, 3.4 microsecond. Multiply, 9.5 microsecond. Divide, 17.9 microsecond.

Input/Output Lines: For transfer between peripheral equipment and 4060 Product Control Unit: single word, single word with priority interrupt; direct multiplexed channel (DMC).

Interrupt: Single standard interrupt line. Optional priority interrupts available in multiples of 8 up to 256 lines.

Software: Graphical and mathematical software routines supplied.

Operating Temperature: 60° to 80°F

Weight: Approximately 1800 pounds

Relative Humidity: 40% to 70%

Dimensions:
Display Head — 84″ long, 70″ high, 32″ wide
Control Unit — 66″ long, 30″ high, 32″ wide

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