LASER™ 50

EDUCATIONAL COMPUTER

The exciting little LCD-screen portable
with everything built in except a high price

THE AFFORDABLE PORTABLE!

IT'S EASY TO TAKE!

No computer has ever been such personal. You can take it with you anywhere. And you don't have to worry about power outlets or expensive special power packs. The LASER 50 operates on plain flashlight batteries.

So now, with the LASER 50, you can have computer-power where you could never have it before.

THE INCREDIBLE LCD SCREEN MAKES IT ALL POSSIBLE

The tiny 15cm X 28cm size of the computer is made possible by the sophisticated new dot-matrix LCD, developed by VIDEO TECH. It can display 16 characters in 1 line. More than enough for programming and retrieving data.

IT WEIGHTS LESS THAN 1 KG

It's smaller than a library book and more lightweight than a quart of milk. So it will fit in any kind of bookbag or backpack easily.
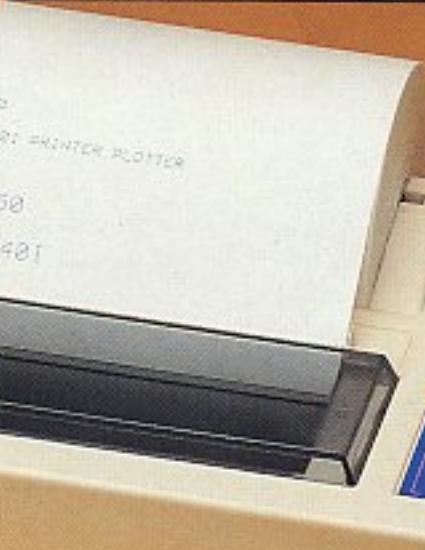
SMALL SIZE......BIG POWER

Don't be deceived by the small size of the LASER 50. It has more power than many of the clumsy old fashioned computers which are 10 times it's size and weight.

COMPLETE ASCII KEYBOARD

With 46 (full-travel) keys, each of which has multi-functions, you can do virtually anything with the LASER 50 that you could do with big clumsy computers costing ten or twenty times as much.

BUILT-IN CASSETTE INTERFACE

You can use any standard cassette recorder or DR 23/33 data cassette recorder specially designed for LASER computers to store programs and data. Just plug it into the built-in interface on the LASER 50 and you're ready to go.

EXPANDABLE

The LASER 50 can accommodate up to 16K Bytes of RAM/ROM cartridge for more sophisticated applications.

COMPUTER .... CALCULATOR

The built-in scientific calculator functions and calculator mode enable you to use the LASER 50 as a powerful scientific calculator.
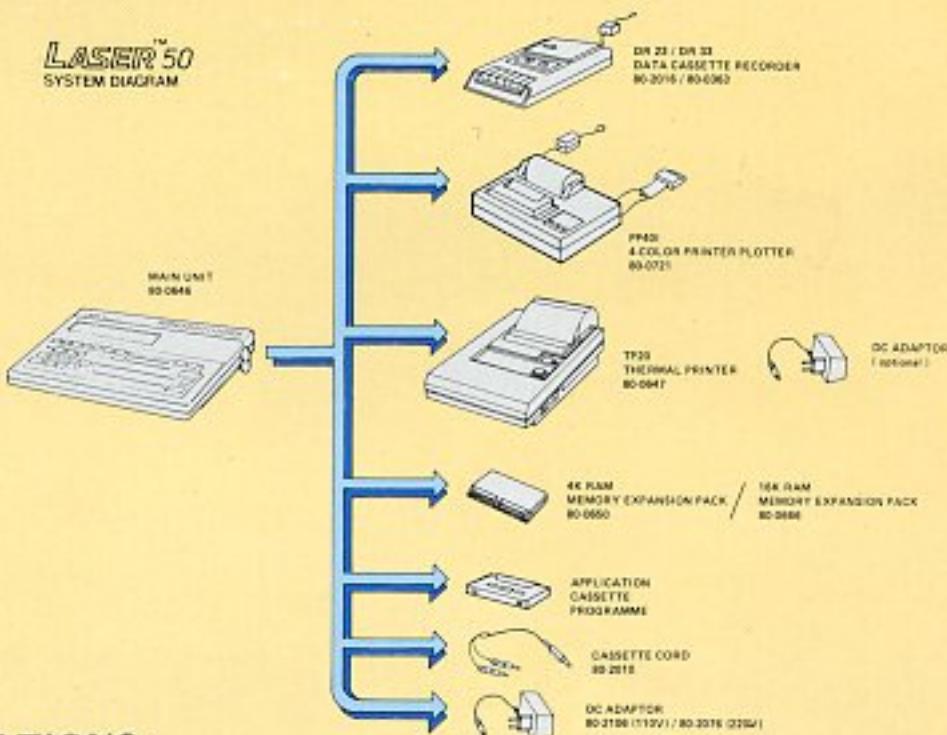
HARD COPY

The LASER 50 also supports its exclusive 24-column thermal printer, or even 4-color printer plotter for text and graphic print-out.

LASER™ 50
SYSTEM DIAGRAM

MAIN UNIT
80-0846

DR 23 / DR 33
DATA CASSETTE RECORDER
80-2016 / 80-6060

PP40
4 COLOR PRINTER PLOTTER
80-0721

TP20
THERMAL PRINTER
80-0847

DC ADAPTOR
(optional)

4K RAM
MEMORY EXPANSION PACK
80-0650 / 16K RAM
MEMORY EXPANSION PACK
80-0686

APPLICATION
CASSETTE
PROGRAMME

CASSETTE CORD
80-2010

DC ADAPTOR
80-2106 (110V) / 80-2016 (220V)

SPECIFICATIONS :

Fundamental calculation functions:
Negative numbers, power calculations, parenthetical addition, subtraction, multiplication and division (with priority sequence judgement function).

Built-in function:
Trigonometric functions (angular units-degree/radian),logarithmic/exponential functions, square, conversion to integer, absolute value, random number, Pi, sign.

Commands:
INPUT, PRINT, INPUT # , PRINT # , GOTO, FOR-NEXT, IF-THEN, GOSUB, RETURN, STOP, CONT, END, DIM, READ, DATA, RESTORE, RUN, LIST, SAVE, LOAD, VERIFY, REM, LPRINT, LLIST, NEW, SOUND.

Relational functions:
Greater than, less than, equal to.

Logical functions:
NOT, AND, OR.

String functions:
LEN (X$), CHR$ (X), ASC (X$).

Calculation range:
$\pm 10^{-99}$ to $\pm 9.9999999 \times 10^{99}$
8 significant digits for mantissa, 2 digits for exponent.

Program language:
BASIC.

Program capacity:
Maximum 10 programs (P0 through P9).

Memory:
2192 Bytes internal RAM
8K X 12 Bits internal ROM
(memory expandable to 16K Bytes)

Display system and contents:
16 position of 5 X 7 dot matrix Symbols of operation conditions such as BUSY, STOP, EXT, MEM, PTR, DEG, RAD, CALC, COMP, P0-P9, MODE, PROG.

Display element:
LCD

Keyboard:
Full size full-stroke keyboard (50 keys)

power supply:
UM3 X 4

Power consumption:
Average 22mW

Battery life:
Approximately 200 hours for manganese battery (continuous operation, main unit only)

Miscellaneous:
Built-in parallel printer interface
Built-in cassette interface
Built-in buzzer
Auto power-off
Auto LCD contrast adjustment

Accessories:
Manual

Size & Weight :
Unit weight : 800 g
Gift Box dimensions : 94 X 322 X 200 mm
Main Unit dimensions : 39 X 27 X 162 mm
Carton dimensions : 322 X 470 X 400 mm
(10 pieces)

JAN/86

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