

**DIGIAC**

**3080**

**DIGITAL COMPUTER**



**DIGITAL ELECTRONICS, INC. • 2200 SHAMES DRIVE • WESTBURY, L.I., NEW YORK**

*The DIGIAC 3080 is a complete self contained full scale digital computer, designed for training, and manufactured by Digital Electronics Inc. It is one of a number of sophisticated teaching devices in the DIGIAC line. Its function is to train students at all levels in the programming, maintenance, use, and operation of digital computers in business and science.*

*The DIGIAC 3080 was NOT designed for business and later modified for the educational field as are many machines which have been installed in educational institutions. The DIGIAC 3080 is completely NEW. Its features are NEW and PROVEN. It is a SOLID STATE machine—with printed circuit cards (NO VACUUM TUBES). It runs cool, requires no special expensive cooling system or air conditioning. It requires less maintenance and servicing than any machine on the educational market today. It is manufactured under rigid control with "military quality" workmanship throughout.*

## DIGIAC 3080 GENERAL PURPOSE DIGITAL COMPUTER

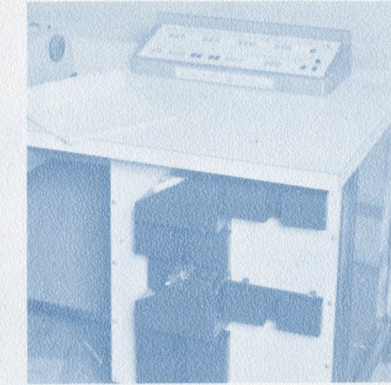
*The DIGIAC 3080 is mobile and self contained. It may be moved from one area to another—just plug it into any AC wall socket (NO SPECIAL WIRING IS REQUIRED). The input-output equipments are identical to those found in industry. Features permit rapid learning and high student retention of subject matter covered. (1) IBM Selectric Input-Output typewriter; (2) Royal McBee punched paper tape reader and paper tape punch; (3) the manual control panel permits addressing and display of various registers; (4) the computer is engineered to permit stepping—instruction by instruction; (5) the memory size permits modern, FORTRAN programming that can be taught with ease and simplicity; (6) no computer on the market today is priced so low, or is as economical to operate.*

*The DIGIAC 3080 computer can be used in the further investigation of digital circuits, digital logic, digital computer organization, programming and operation. It can be used to solve problems in mathematics, physics, and everyday business. The DIGIAC 3080 is one of a complete DIGIAC line of digital computer teaching and learning devices that can be used as an end in itself or with other modular units. Investigate the full line of DIGIAC teaching and learning devices. Write for details about DIGITAL ELECTRONICS INC., equipment, printed texts, written courses, proven curricula, personalized guidance and a personal presentation. Compare the DIGIAC 3080 with computers many times the price.*

IBM Selectric typewriter for Input/Output computer communication. 15 characters per second Octal or Alpha format output.



The DIGIAC general purpose digital computer was designed specifically for educational training and incorporates the most modern maintenance free electronic techniques.



Functional, decor-smart metal desk console is completely self contained with finger tip access to all component units.



**FEATURES:** The DIGIAC 3080 Demonstrates ALL aspects of essential computer education—including:

PROGRAMMING and CODING (FORTRAN & machine language)  
SYSTEMS DESIGN  
LOGIC DESIGN  
CIRCUIT DESIGN  
COMPUTER OPERATION & USE  
MAINTENANCE and SERVICING

The DIGIAC 3080 covers the following training areas:  
TECHNICAL TRAINING  
MATHEMATICS INSTRUCTION  
BUSINESS TRAINING  
SCIENCE INSTRUCTION

in the following applications:  
BUSINESS APPLICATIONS  
MANAGEMENT CONTROLS  
ACCOUNTING RECORDS  
STATISTICAL ANALYSIS  
SCIENTIFIC RESEARCH  
ENGINEERING SOLUTIONS  
MATHEMATICS  
PROCESS CONTROL  
INSTRUMENTATION  
... and others in all professions.

The DIGIAC 3080 is engineered as a teaching device for training in:  
JUNIOR HIGH SCHOOLS  
HIGH SCHOOLS  
TECHNICAL TRADE SCHOOLS  
VOCATIONAL SCHOOLS  
BUSINESS SCHOOLS  
MILITARY INSTALLATIONS  
ENGINEERING DEPARTMENTS  
PHYSICS DEPARTMENTS  
MATHEMATICS DEPARTMENTS  
... and many more

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# 3080 FEATURES AND SPECIFICATIONS

## TYPE:

General Purpose; Digital; Transistorized; Binary; Serial.

## WORD:

Numeric or Alphanumeric  
25 Binary Bits (sign and 8 Octal Digits)

Instructions—Single Address

## INPUT/OUTPUT:

IBM Selectric Input-Output  
Typewriter (Standard)  
15 Characters per second  
Octal or Alpha format

Paper Tape Input and Output  
(Standard)

50 Characters per sec., Punch  
or Read

Full Alphanumeric Format

Punched Card Input and/or Output  
(Optional)

20 Characters per second

Full Alphanumeric Format

## MEMORY:

Magnetic Drum: 3400 RPM

Pulse Rate: 196 Kc

Data Channels 8 or 32 (1024 to  
4096 words)

Timing Channels: 2

Accumulator Channel: 2 words long

## CONTROL MEMORY:

Auxiliary Electronic Storage

Buffer Storage

Auxiliary Counters & Registers

## OPERATING SPEED:

Add/Subtract: 1½ milliseconds

Multiply: 8 milliseconds

Divide: 8 milliseconds

Average Access Time: 9 milliseconds

## MANUAL CONTROL PANEL:

Single Instruction Stepping

Direct Entry of Data

Direct Display of Data

Direct Instruction Entry

## INSTRUCTION LIST:

Over 100 Operation Instructions

Add Conditional Jump

Subtract Unconditional Jump

Multiply Shift Left N places

Divide Shift Right N places

Store Logical Multiply

etc.

## PHYSICAL:

Dimensions (desk) 59" long x 31"  
wide x 30" high

Weight: 325 pounds

Casters Available (optional at  
extra cost)

## PERIPHERAL EQUIPMENT (DIGIAC 3080)

Digiac 3084 80 column card reader  
and/or punch

Digiac 3081 Magnetic tape unit



## OTHER DIGIAC TEACHING DEVICES

Digiac 50 Transistor circuit Training device

Digiac 3010 Digital logic training device

Digiac 3050 Semi automatic computer teaching device for organization Programming and maintenance training

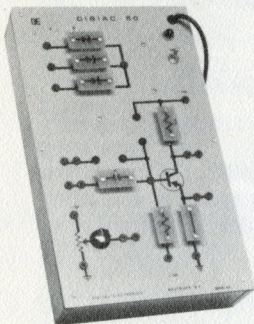
Digiac 4030 Computer programming trainer



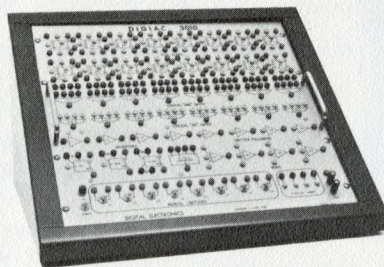
**WRITE TODAY** for the descriptive booklet "The Second Industrial Revolution" which explains DIGITAL ELECTRONICS INC. complete Digital Computer Education Training Package which includes information on written courses, proven curricula and professional guidance. No obligation, of course.

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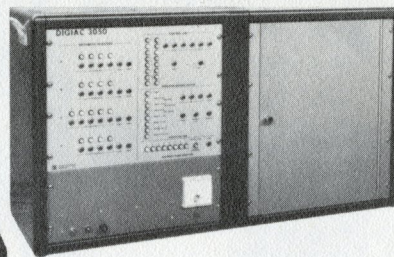
## INFORMATION ON OTHER DIGITAL ELECTRONICS EQUIPMENT AVAILABLE UPON REQUEST.



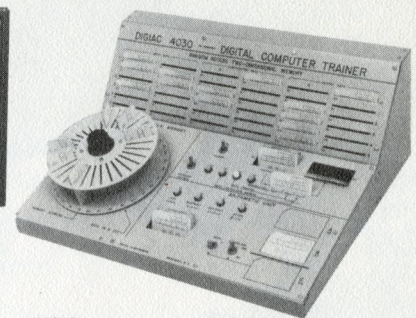
DIGIAC  
50



DIGIAC  
3010



DIGIAC  
3050



DIGIAC  
4030

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