

Rainbow



A PERSONAL PRODUCTIVITY TOOL
FOR TODAY'S BUSY PROFESSIONAL



digital™

Rainbow and Rainbow 100+

Look over a Rainbow.TM You may find your pot of gold.

Just when the clouds of confusion were threatening to obscure your search for the perfect computer, a Rainbow has appeared on the horizon.

Rainbow. The only desktop computer you can buy with this list of features, *all standard*: Dual processors—Z80™ and 8088™—that run both 8-bit *and* 16-bit software without instructions from you. Two 400-Kbyte diskettes in one drive, for more than twice the standard removable storage of most comparable systems. 128 Kbytes main memory, expandable to an impressive 896 Kbytes, giving you access to powerful application programs like 1-2-3™ from Lotus™, Concurrent CP/M® and more.

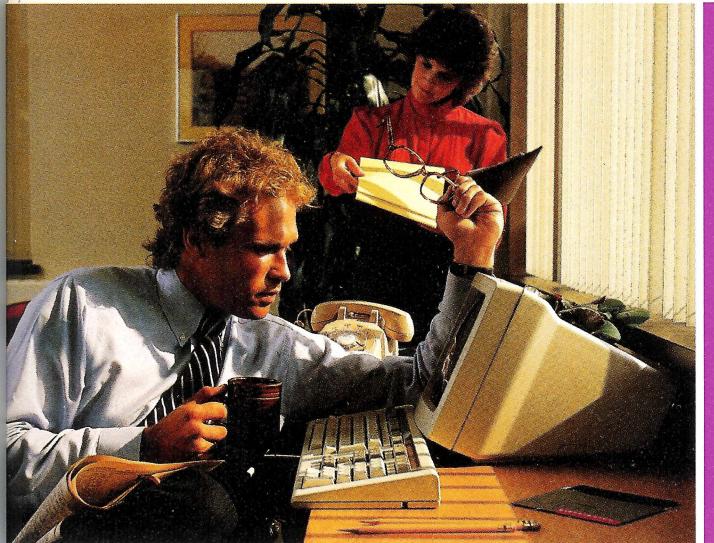
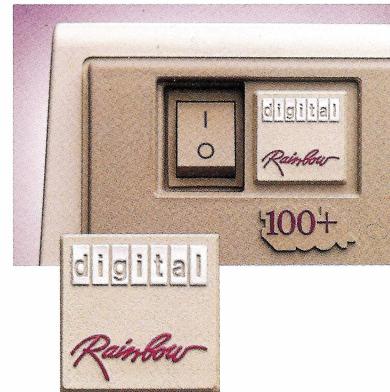
Plus 132-character display width for unobstructed viewing of wide documents. High-resolution graphics and text, on monochrome *and* color monitors. And built-in "terminal emulation," allowing Rainbow to act as a terminal to other computers, large and small, without extra expense or additional software.

Rainbow 100+. To the features of a standard Rainbow, add an internal 10-Mbyte hard disk, for faster data access and nearly 5,000 typewritten pages of storage capacity.

Rainbow computers are supported by Digital's exclusive Investment Protection Plan, including one year of *free* on-site service. Toll-free hotline support for hardware and operating systems. And easy-to-use computer-based instruction to help you learn the basics, fast.

In addition, since Rainbow runs both the popular CP/M-86/80® *and* MS™-DOS operating systems without additional hardware, you have access to more than 1,000 software packages from the very start.

Before you make your computer decision, take the time to look over a Rainbow. It'll help you see more clearly.



*"Rainbow is the current best choice
for a personal computer to be used for
business or other serious purposes."*

Harcopy Magazine



Form With Function

Rainbow's unique style is equaled only by its unique performance.

The Video Display

The first thing you'll notice about Rainbow's display monitor is its distinctive profile. Not your typical, square "TV box," but a sleek, sophisticated frame to view your business through. As one computer authority put it, "a marvel of miniaturization."

Taking little more room on your desk than your folded morning newspaper, the Rainbow monochrome display is available in your choice of black and white, green or amber screens. Reverse video is standard with each, allowing you to view dark characters on a light screen if you prefer.

In addition to the standard 80-character display mode, you can easily change the screen display width to 132 characters to see wider-than-normal documents, like 12-month budgets, in their entirety. With Rainbow, you get the "big picture," in one picture.

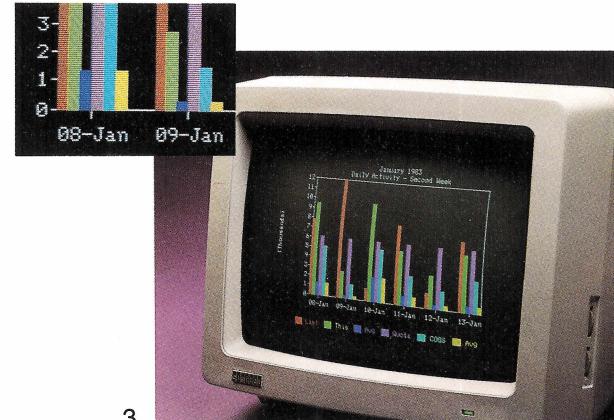
Your eyes won't suffer, even after long hours of budget-building or other computing. Monitors are tilt-adjustable to suit your height and viewing position. And resolution is high, with the same

clear characters on monochrome or color screens, whether it's text, figures or graphics.

Speaking of graphics, an optional, snap-in graphics module equips Rainbow with both monochrome *and* color graphic capabilities (optional color monitor necessary for color graphics).

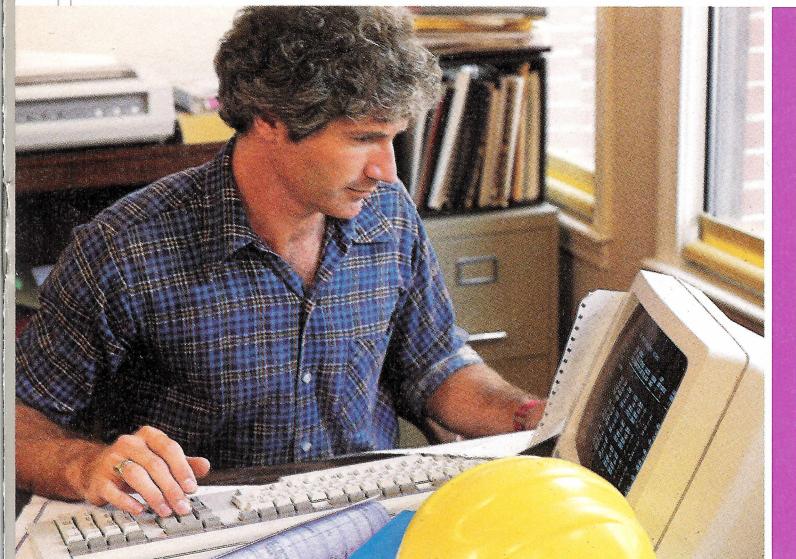
Memory-mapped video brings individual characters and entire pages of data to the screen the instant a key is pressed. So you won't have to wait to see results.

To prevent screen "burnout," Rainbow monitors will even erase themselves if left unattended for more than 30 minutes. You recall the work you left simply by pressing a key.



3

In addition to amber (large photo, right), Rainbow's standard monochrome display is also available in black and white (1) or green (2) screens, each with reverse video. An optional color monitor (3) provides brilliant, high-resolution colors. All monitors are fully adjustable to suit your viewing position (4). 132-character display width appears in photo #1.



The Keyboard

If there's one word to describe Rainbow's keyboard, it's *sensible*. Spend just 15 minutes using one and you'll see why.

Rainbow's 105 keys are arranged to make your job easier—and faster. With a familiar main typing keyboard. Separate numeric and editing keypads, with no overlap of key functions. And conveniently placed special function keys like HELP and DO. (Press HELP and get just that—helpful answers to your questions when running most software.)

All editing and most function keys are labeled in plain English (FIND, SELECT, INSERT), not computerese. So you won't have to memorize rows of "code."

And if you've ever tried to do serious work using the stiff, unresponsive keys found on some computer keyboards, you'll be pleasantly surprised. Rainbow's keys combine just the right amounts of give and take, to help you save time while avoiding errors. And the keyboard is so

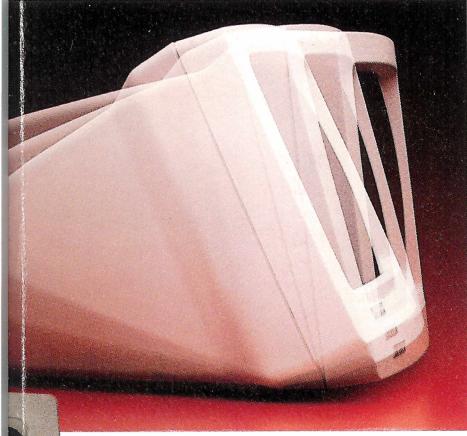


quiet, we've even built in an audible keyclick to let you know when you've hit a key. (The keyclick sound can be set to the volume you prefer, or turned off altogether.)

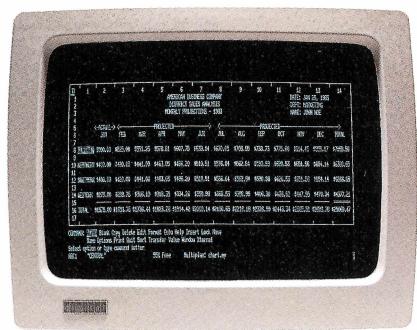
A six-foot coiled cord connects Rainbow's lightweight keyboard to the video display, letting you place the keyboard in the position most comfortable for you. And since the Rainbow keyboard contains its own microprocessor, keyboard-to-screen response is exceptionally fast.



4



2



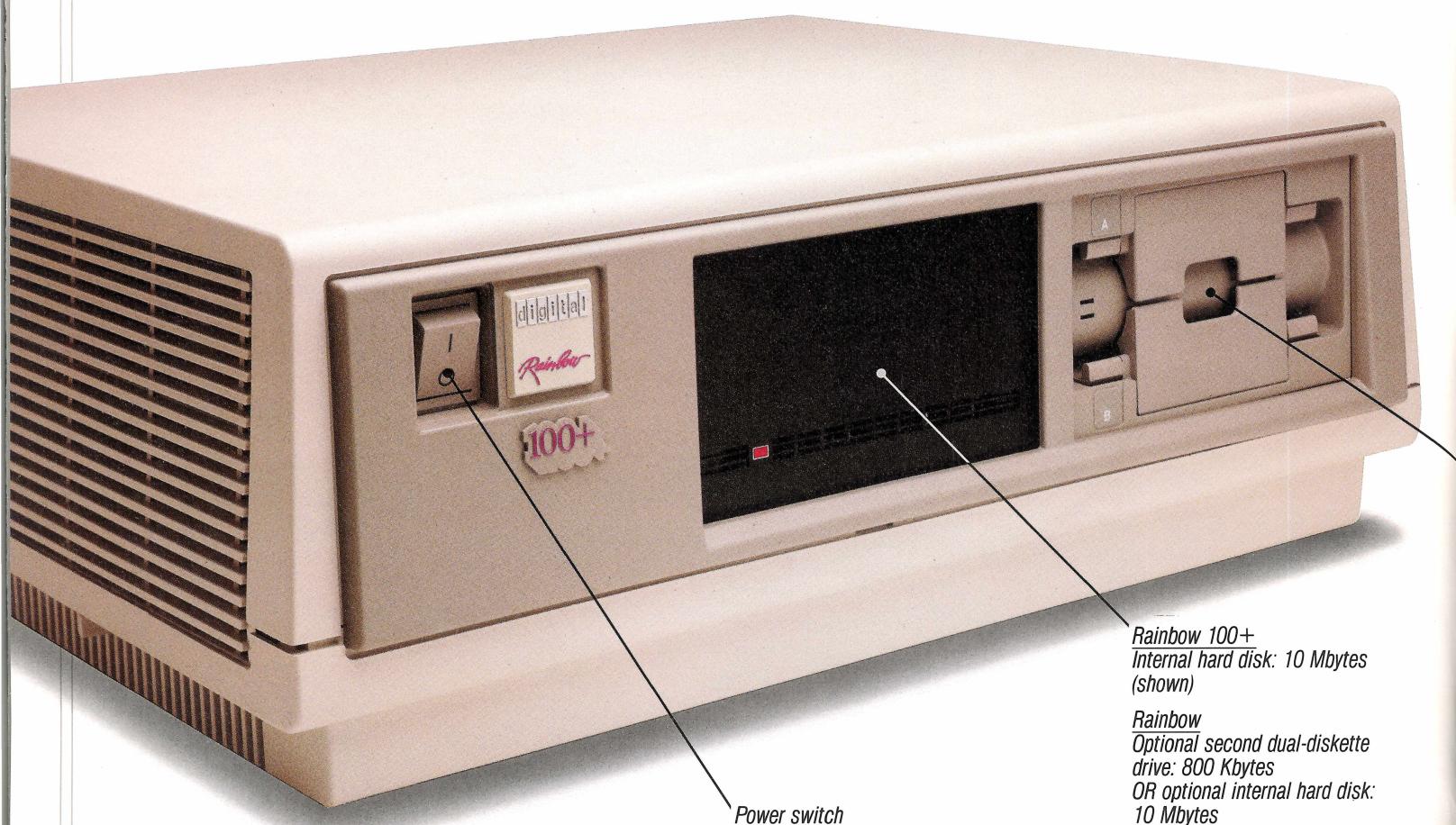
1



"...the keyboard is as near perfect as I have seen."

David H. Ahl
Creative Computing

Rainbow's System Unit



Rainbow 100+
Internal hard disk: 10 Mbytes
(shown)

Rainbow
Optional second dual-diskette
drive: 800 Kbytes
OR optional internal hard disk:
10 Mbytes

Everything you need— in one neat package.

Cluttering your office with computer "add-ons" isn't our idea of making your life easier. That's why Rainbow's system unit already contains—or has the capacity for—all the major features you'll ever need in a desktop computer. In one "neat package."

Some examples:

- Dual microprocessors—an 8-bit Z80 and 16-bit 8088—give you the best of both worlds. You can run 8-bit *and* 16-bit software from a wide range of suppliers. And, since they share internal system functions as well, Rainbow's co-processors give you increased computing speed, too.

■ Rainbow runs the two most popular operating systems on the market today—CP/M® and MS-DOS—with additional hardware, giving you access to more software than comparable systems with just one standard operating system. And you can run other major operating systems, including Concurrent CP/M (available from Digital Research, Inc.) and the p-System™ (available from Softech Microsystems, Inc.).

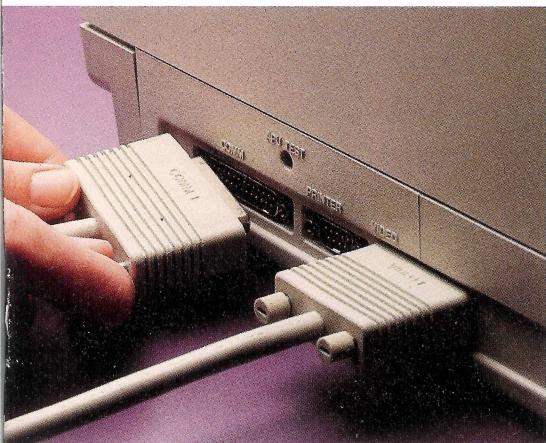
■ Rainbow's CP/M-86/80 operating system is customized to accommodate 8-bit and 16-bit software, interchangeably. Built-in "softsense" detects whether you have loaded an 8- or 16-bit program and automatically selects the correct processor to run it. So you don't have to waste time changing system diskettes.



Two 400-Kbyte diskettes in one drive (800 Kbytes total)

- Two 400-Kbyte diskettes (800 Kbytes total) in one drive provide more than twice the standard removable storage of most comparable computers—roughly 400 typewritten pages.
- Add an optional second dual-diskette drive, *in the same system box*, and double your storage capacity. OR, add a 10-Mbyte internal hard disk instead, and increase your storage to as much as 5,000 typewritten pages.
- Plug-in ports on the back of Rainbow's system unit provide convenient communications and printer connections, without the need for costly "system expansion" devices. The communications port is your link to other personal computers, mainframes and outside databases, using Rainbow's built-in terminal emulation and either standard telephone lines or direct connection.

Don't clutter your desk with "add-ons" to get the computing power you need. Rainbow's system unit already contains convenient communications and printer connections (1), plus room for snap-in option modules. Two diskettes in one drive give you more standard removable storage than most comparable systems (2). And for neat, under-desk storage, there's Digital's widely acclaimed vertical system unit stand (3).



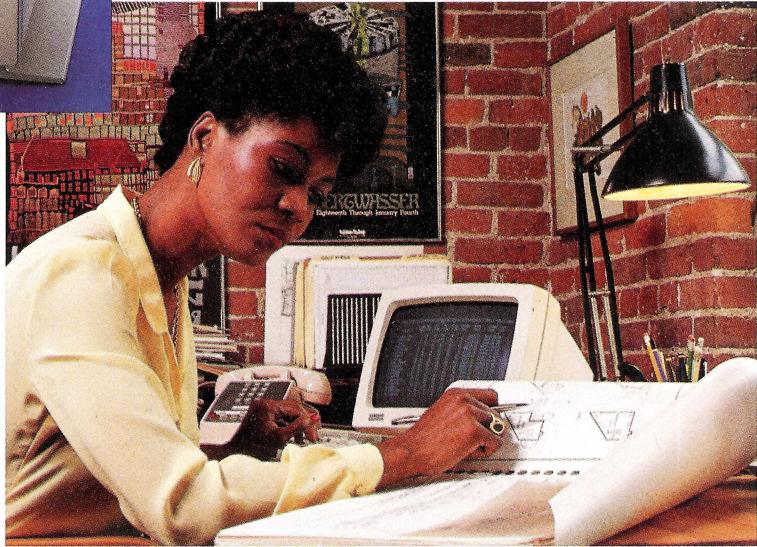
1



3



2



"...it's one of the neatest electronic packaging jobs we've seen in this business."

Tom Fox
Interface Age

In addition, Rainbow 100+ gives you:

- An internal 10-Mbyte hard disk for faster, quieter access to the equivalent of 5,000 pages of stored data, *plus* the convenience of Rainbow's standard 800-Kbyte diskette drive for easy data back-up and transfer.

Whichever Rainbow you choose, you get a *complete* computer system, in one very neat package.

And that's not all. Rainbow can even help make your working space neater, with Digital's award-winning system unit stand (optional) for vertical, under-the-desk system unit storage.

Rainbow Gives You More...

More ways to increase your office productivity.

More Operating Systems

Rainbow runs all major personal computer operating systems.

Rainbow's exclusive CP/M-86/80 operating system gives you access to an ever-growing supply of industry-standard CP/M software. Its unique "softsense" capability enables you to run 8- or 16-bit applications without changing system diskettes. And CP/M-86/80 includes extensive file maintenance features, the powerful Rainbow Editor for complete text editing capabilities, plus "Learn Rainbow," an on-screen tutor.

Rainbow's versatile MS-DOS operating system gives you access to an additional broad base of proven software, including that originally written for IBM and other systems. MS-DOS also provides file storage, error-handling functions, time-saving and editing capabilities customized to take advantage of Rainbow's function keys.

Concurrent CP/M lets you run up to four programs simultaneously, switching from one to the other in seconds, without changing diskettes or losing your place. For example, in the midst of a word processing document, you can quickly switch to an accounting spreadsheet to check figures. Then, when you want to return to your document, simply press a key and wind up exactly where you left off.

The p-System, a powerful operating system for programmers, allows applications written on one personal computer to be used on another without recompilation.

Rainbow's color monitor adds sparkle to your business graphics, letting you display as many as 16 colors at once, from a palette of up to 4,096 brilliant shades. Used for text, it gives you the same high resolution as our monochrome monitor, with green characters on a black screen.

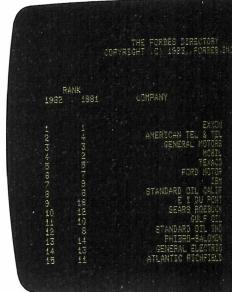
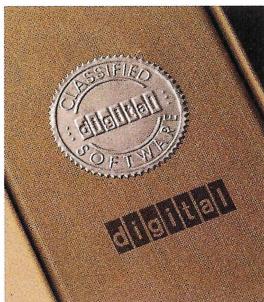
More Than 1,000 Software Choices

Rainbow runs more than 1,000 software packages, including the most popular business and professional applications written by today's leading software suppliers.

To make your software selection easier, just look for the distinctive silver Digital Classified Software (DCS) seal. It means that Digital software experts have evaluated a particular program in accordance with the DCS Quality Standard for documentation, installation and operation on Digital hardware and operating systems.

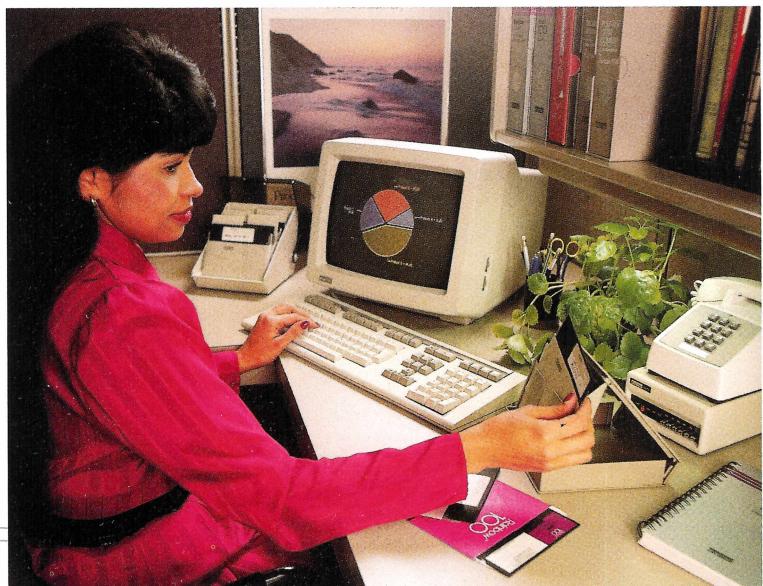
Programs bearing our "seal of approval" carry a full year of support directly from

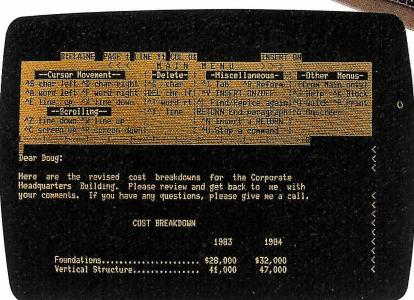
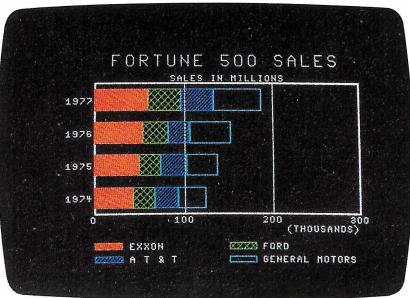
Digital, as outlined in our exclusive Investment Protection Plan. A range of post-warranty service support is also available from Digital for products earning the DCS seal.



"I find it hard to imagine that anyone would fail to be impressed with both the speed and the flexibility of this product."

Baron's Microcomputing Reports





More Time-Saving Applications

Whatever the job, Rainbow runs powerful application software to help you do it better—and faster—than ever before. From accounting to tax planning, forecasting future growth to accessing up-to-the-minute stock quotes. And much more.

Accounting. Rainbow can help you with all your bookkeeping chores...accounts payable and receivable, payroll, inventory control, general ledger. Close to 200 programs are available.

Word processing. Rainbow's comfortable keyboard, anti-glare screen and easy-to-use function keys make word and list processing a snap. Choose from WordStar®, Select™, Electric Blackboard™, SAMNA WORD™ II and other top programs.

Planning and analysis. Create sales forecasts, adjust budgets and ask "what if" questions about the future of your business with popular planning software like Multiplan™ and TK!Solver™.

Graphics. Rainbow's graphics option equips both the 100 and 100+ with high-

resolution, bit-mapped monochrome and color graphics capabilities. So, unlike some desktop systems, you don't have to invest in a color monitor just to produce graphics (color monitor necessary for color graphics only).

Software to paint the perfect picture of your business includes, among others, 1-2-3 from Lotus, GraphPlan™ and Rainbow REGIS.

Communications. Rainbow can bring a world of information to your desk. Built-in terminal emulation lets you share the resources of other Digital computers, without additional software. A standard communications port allows you direct access, via standard telephone lines and a modem, to outside databases like Dow Jones Connector™ and The Source (a service of Source Telecomputing Corporation). And, if you do add optional communications software, such as polyCOM™ or Phonelink™, you can even communicate with other manufacturers' computers, large and small.

Exercise Your Options



With two dual-diskette drives, Rainbow can store the equivalent of more than 800 typewritten pages of data at once, in a convenient, removable form.

Color your own Rainbow system to meet your special needs.

Computer needs vary from person to person, business to business. That's why we made Rainbow so flexible.

Without adding stacks of hardware "boxes" to your system, you can create the perfect Rainbow for *your* needs. And your own two hands and a few minutes of time are all the tools you'll need.

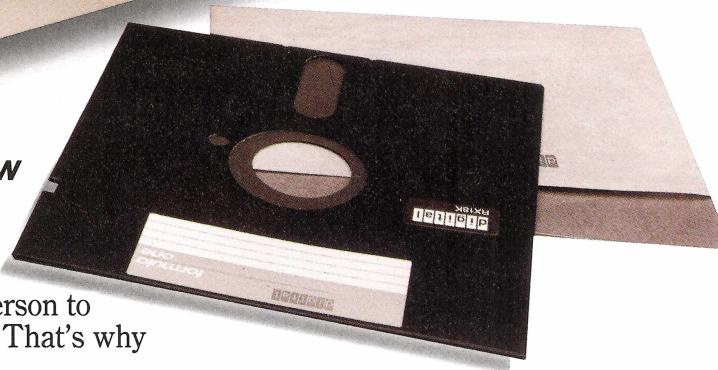
Second Dual-Diskette Drive

Expand your standard Rainbow's on-line storage capacity as your business—and records—grow with the quick, easy addition of a second dual-diskette drive (800 Kbytes).

It's as simple as depressing two levers to remove the system unit cover, and sliding the second drive into place. No special tools are required, and the entire operation takes just five minutes.

...Or Internal Hard Disk

For still greater storage capacity, an internal 10-Mbyte hard disk can be added to your Rainbow instead of the second diskette drive. *Hard disk standard with Rainbow 100+*.



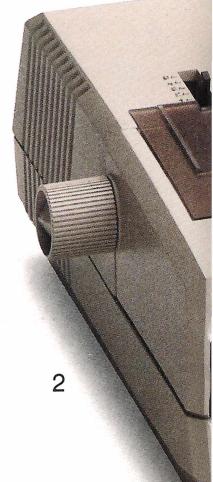
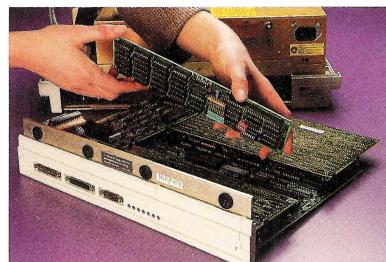
Snap-In Option Modules

To truly get the most out of your Rainbow, you may have to add some options. But not more hardware.

The fact is, adding graphics and increased memory to your system is as easy as snapping option modules into dedicated option slots right on Rainbow's main system board (which you access simply by opening a "drawer" in the back of the system unit).

Equip your Rainbow or Rainbow 100+ with graphics capabilities in seconds with a single, snap-in graphics module.

Or, increase Rainbow's memory from its standard 128 Kbytes to a maximum 896 Kbytes with incremental memory expansion modules.





Printers and accessories—compatibility from a convenient source.

Rainbow Printers

Three fast, flexible Digital printers are available for use with your Rainbow.

The LA50™ Personal Printer is an economical, compact dot-matrix printer with graphics capability and a maximum print speed of 100 characters per second (cps).

The LA100™ Letterprinter 100 is our top-of-the-line dot-matrix printer with three print modes plus high-quality graphics.

The LQP02™ Letter-Quality Printer is a versatile daisywheel printer, ideal for word processing applications.

Accessories Complete the Picture

Also available from Digital for your Rainbow system are a wide range of fully compatible computer and printer accessories, from blank software diskettes, to hardware upgrade kits, to a full line of printer papers and forms. Even custom-designed furniture and equipment stands, including our vertical system unit stand for unobtrusive, under-desk storage.



Compatible Digital printers to complement your Rainbow include the LA100 Letterprinter 100 (1), LQP02 letter-quality printer (2) and compact LA50 personal printer (3).



Service and Support



"There is not much doubt that the Rainbow will become one of the leaders in its class... excellent documentation, training and support..."

Ian Stobie
Practical Computing



Personal service for your personal productivity tool.

A computer as comprehensive as the Rainbow deserves a comprehensive service plan. And we've given it one.

A Full One-Year Warranty

Digital's exclusive *Investment Protection Plan* is the most extensive service and warranty package ever offered to personal computer buyers from a major computer manufacturer.

The Plan, included *at no extra cost* with the purchase of a Rainbow, gives you:

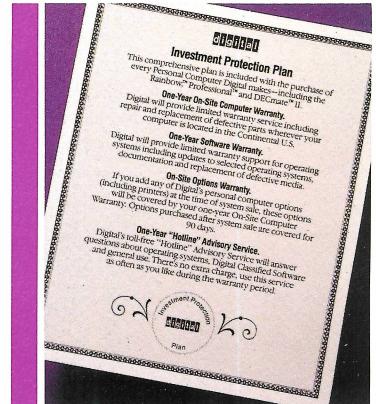
- **One-Year On-Site Computer Warranty**—
Digital will provide limited warranty service for your computer, including parts and labor, wherever you are located in the continental United States, Hawaii or metropolitan areas of Alaska.
- **One-Year Software Warranty**—
We will provide one year of telephone advisory support for Digital Classified Software, as well as updates to selected operating systems, documentation and replacement of defective media.

■ **On-Site Options Warranty**—
If any Rainbow options, including printers, are purchased with your computer system, they'll be covered for the duration of the one-year On-Site Computer Warranty. Hardware options purchased at a later date are covered for 90 days, with additional coverage available.

■ **One-Year "Hotline" Advisory Service**—
We will answer your questions about operating systems, Digital Classified Software and general use. There's no extra charge; the toll-free hotline number can be used as often as you wish during the warranty period.

Continuing Support

Digital, working in conjunction with Authorized Digital Dealers nationwide, continues to offer support for both your hardware and Digital Classified Software as long as you own your Digital computer system. When warranty expires, you can protect your system with a range of service plans.





Post-Warranty Services

On-site service is available on a contractual or per-call basis. You need only call your nearest Digital service location and a Rainbow service specialist will be dispatched to your home or office.

Carry-in service provides you with the same quality repairs and maintenance you'd receive with on-site service, at a reduced price. Just bring the equipment you want serviced to one of the close to 200 Digital Servicenters throughout the country. *Many Authorized Digital Dealers also perform carry-in service.*

Handy DECmailer™ service allows Rainbow owners who prefer to do their own hardware maintenance to return faulty modules to Digital by mail. DECmailer charges are on a per-repair basis. We'll repair or replace any module we receive within five business days.

Training

Every Rainbow comes with clear, complete installation and training manuals. And, to make your orientation even easier, "Learn Rainbow," a self-paced, computer-based tutor standard with each system, will lead you through each of Rainbow's major functions—so you can learn by doing.

Rainbow's built-in, computer-based tutor, "Learn Rainbow," will have you up and running in no time.

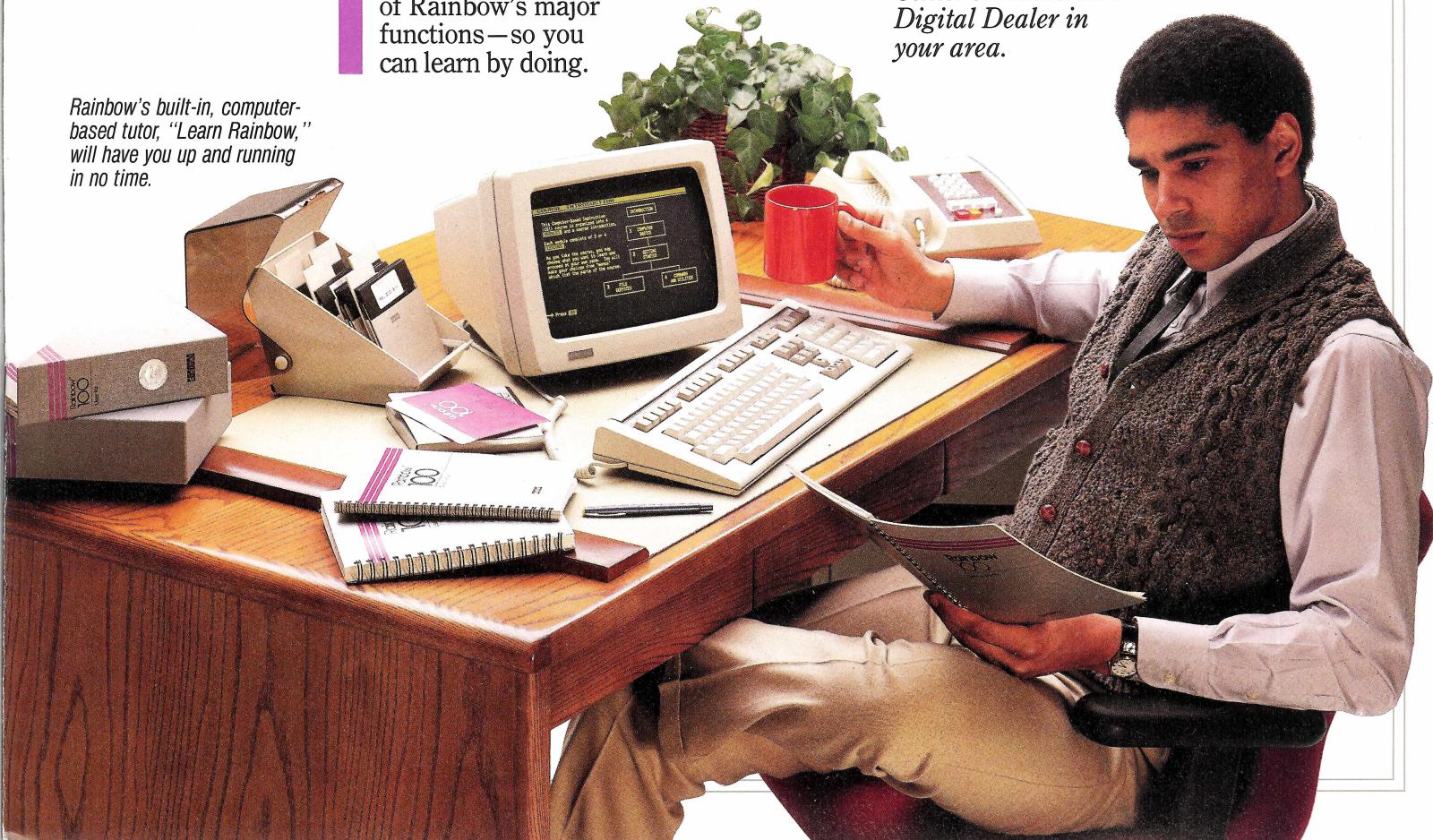
In addition to self-paced learning, we also offer more than 300 classroom and laboratory courses covering hardware, software and other computer-related subjects in 26 training facilities worldwide. *Most Authorized Digital Dealers also conduct training courses.*

Digital even has its own computer society, DECUS (Digital Equipment Computer Users' Society). DECUS sponsors regular local and regional meetings and symposia, giving you the chance to meet other Rainbow users to exchange ideas and information. DECUS also maintains a library of more than 1,500 software packages written and submitted by DECUS members for the use of other members.

And Staying Power

If you want your computer to be built and serviced by a company that will stand by you for the long run, you've come to the right place. Digital is the second largest computer manufacturer in the world today. We'll be there when you need us.

To look over a Rainbow in person, including a free demonstration, contact your Digital Sales Office, or visit the Digital Business Center or Authorized Digital Dealer in your area.



Specifications

LOOK OVER THE DETAILS

Rainbow Features

SYSTEM UNIT

Dual 8-bit Z80/16-bit 8088 microprocessors
128 Kbytes main memory, expandable
to 896 Kbytes
Dual-diskette drive: 2 × 400 Kbytes
Serial RS232/423 printer port
Async/sync RS232/423 communications
port
Power-up self-test diagnostics
Terminal emulation
Dimensions—

Height: 6.5 in. (16.5 cm)
Width: 19.0 in. (48.3 cm)
Depth: 14.3 in. (36.3 cm)
Max. Weight: 35.0 lbs. (16.6 kg)

SYSTEM EXPANSION AND OPTIONS

Second dual-diskette drive:
2 × 400 Kbytes (not available on
Rainbow 100+)
Internal hard disk: 10 Mbytes (standard
on Rainbow 100+)
Two dedicated option slots
Memory expansion option(s)
Graphics option
Color monitor
LA50, LA100, LQP02 printers
System unit stand for vertical
floor mounting

DISPLAY MONITORS

80- or 132-character display width
High-resolution, 7 × 9 dot matrix
Bit-mapped graphics capability
60 image-per-second refresh rate
Anti-glare filter
Adjustable tilt and swivel
RS170-compatible

MONOCHROME

12-inch (diagonal) screen
Monochrome composite; choice of white,
green or amber display on black, with
reverse video

Dimensions—

Height: 11.5 in. (29.2 cm)
Width: 13.75 in. (34.9 cm)
Depth: 12.25 in. (31.1 cm)
Weight: 14.0 lbs. (6.4 kg)

(With Graphics Option)

800 × 240 pixels

COLOR

13-inch (diagonal) screen

RGB color

Dimensions—

Height: 12.8 in. (31.9 cm)
Width: 14.5 in. (36.3 cm)
Depth: 17.0 in. (43.2 cm)
Weight: 36.6 lbs. (16.6 kg)

(With Graphics Option)

High-resolution mode:
800 × 240 pixels, 4 selectable colors
Medium-resolution mode:
384 × 240 pixels, 16 selectable colors
Palette: 1024 colors (Rainbow 100)
4096 colors (Rainbow 100+)

KEYBOARD

Low profile, detached
105 matte-textured, non-slip keys
Separate editing and numeric keypads
Adjustable keyclick and bell tone
Power-up self-test diagnostics

Dimensions—

Max. Height: 2.0 in. (5.08 cm)
Width: 21.0 in. (53.3 cm)
Depth: 6.75 in. (17.1 cm)
Weight: 4.5 lbs. (2.0 kg)

Printer Features

LA50 PERSONAL PRINTER

Dot matrix
100 cps draft quality
50 cps memo quality
Full bit-mapped graphics
40- to 132-character printing width
Variable pitch and line spacing
250 printable characters including line
drawing and international characters

Dimensions—

Height: 5.6 in. (14.2 cm)
Width: 16.0 in. (40.0 cm)
Depth: 11.8 in. (29.5 cm)
Weight: 18.7 lbs. (8.5 kg)

LA100 LETTERPRINTER 100

Dot matrix
240 cps draft quality
80 cps optional memo quality
30 cps letter quality
Full bit-mapped graphics
66- to 217-character printing width
Courier 10, multinational and line
drawing characters
Multiple fonts and customized character
sets available

Dimensions—

Height: 7.0 in. (17.8 cm)
Width: 22.0 in. (55.9 cm)
Depth: 15.5 in. (39.4 cm)
Weight: 25.0 lbs. (11.3 kg)

LQP02 LETTER-QUALITY PRINTER

Daisywheel
32 cps letter quality
Maximum printing width:
132 characters (10 char/in.)
158 characters (12 char/in.)
Variable line spacing
Multiple fonts and character sets available

Dimensions—

Height: 7.0 in. (17.8 cm)
Width: 25.0 in. (63.5 cm)
Depth: 16.0 in. (40.6 cm)
Weight: 48.0 lbs. (21.8 kg)

PRINTED IN U.S.A. EA 30334-59 23 3/84 200 Copyright© 1984 DIGITAL EQUIPMENT CORPORATION All Rights Reserved

Rainbow, LA50, LA100, LQP02, DECmailer and the Digital logo are trademarks of Digital Equipment Corporation. Z80 is a trademark of Zilog, Inc.
8088 is a trademark of Intel Corporation. CP/M, CP/M-86/80 and Concurrent CP/M are registered trademarks of Digital Research, Inc. 1-2-3 and Lotus
are trademarks of Lotus Development Corporation. MS and Multiplan are trademarks of Microsoft Corporation. p-System is a trademark of Softech
Microsystems, Inc. WordStar is a registered trademark of MicroPro International Corporation. Select is a trademark of Select Information Systems. Electric
Blackboard is a trademark of Santa Cruz Software. SAMNA WORD is a trademark of SAMNA Corporation. TK!Solver is a trademark of Software
Arts, Inc. GraphPlan is a trademark of Chang Labs, Inc. Dow Jones Connector is a trademark of Dow Jones & Co., Inc. poly-COM is a trademark of Polygon
Associates, Inc. Phonelink is a trademark of Virtual Microsystems, Inc. The information in this document is subject to change without notice.
Digital Equipment Corporation assumes no responsibility for errors that may appear in this document.