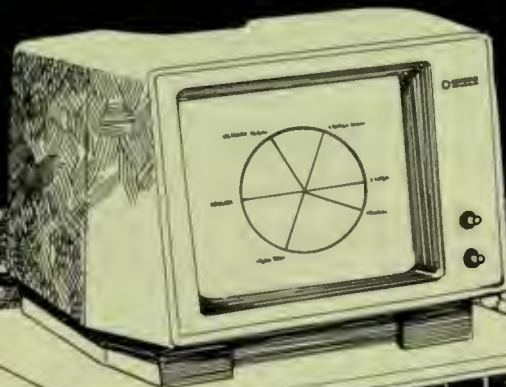




corona
data systems, inc.

SUPER-RESOLUTION GRAPHICS




\$3.00

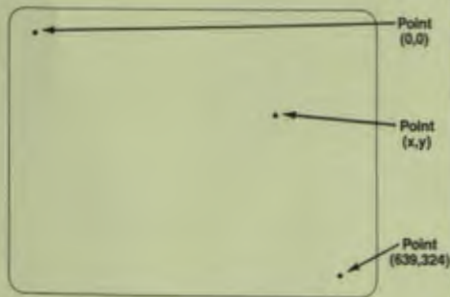
FOREWORD

Welcome to the world of **corona** graphics. We call the hallmark of this computer "Super Resolution" because of its crisp, clear display, and we assure you will enjoy working with it. You can start programming basic graphics images immediately by following the simple instructions in this tutorial. By using the codes provided, you will see a variety of ways these full-screen graphics can be used.

As you follow the coding in this manual, your **corona** PC will reproduce on the screen those images we have created for you. Then, with a little practice, you will be able to use this capability to create your own graphic images. Note that the graphics are accessed through the **GW**BASIC and that this manual assumes you have some knowledge of the BASIC programming language.

You will be pleased to note that Super Resolution, **corona**'s standard, monochromatic display, has 640 by 325 points available to give you complete graphics capability. To explain how your graphics are made, assume that your screen is divided into a series of minute dots like this: ; these dots are called screen points. Screen points are numbered from left to right and from top to bottom. Each screen point can be identified by its location (which is made up of its ordinate and abscissa location -- called its coordinates). Therefore, the upper left corner of the screen is point (0,0); the lower right corner is point (639, 324).

Coordinates are used in instruction statements to program the computer as to where you want to draw on the screen. The form used to describe coordinates is (x,y), where x is the horizontal position and y is the vertical position. Note that this description is the **absolute** location of the point on the screen and has nothing to do with the last point referenced.



TO BEGIN...

Make a copy of your GWBASIC diskette, and be sure to use only the copy. With your **corona** computer on and the A> prompt displayed, type:

GWBASIC

Now, you must instruct your computer to reserve some data area for a graphics screen. How you reserve this space will depend on the size of the memory in your system.

- If you have a system with 128K of memory, type:

```
10 CLEAR, 19000 : KEY OFF
20 SCREEN 105
30 SCREEN ,,3,3
35 CLS
RUN
```

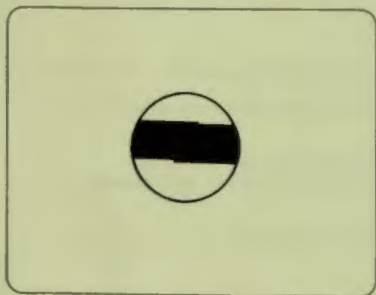
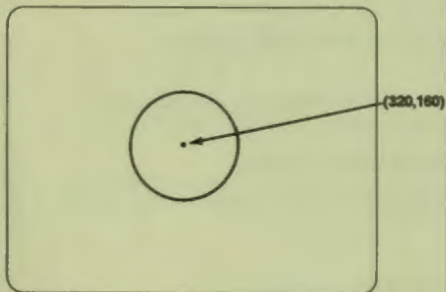
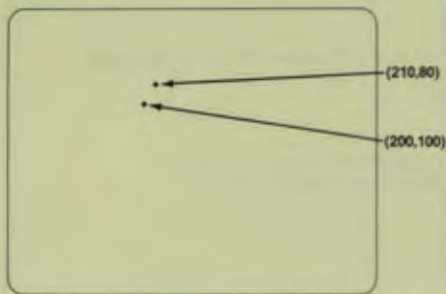
This simple instruction set can be described as follows:

- Line 20 tells GWBASIC to use Super Resolution and enables you to use both alphanumerics and graphics concurrently.
 - Line 30 sets up the visible screen to be the same as the drawing screen and places the screen in the only memory area available for this size system (at 3 x 32K = 96K).
 - Line 35 clears both the alphanumeric and graphic screen in memory.
 - "RUN" causes your instructions to be executed.
- If you have a system with more than 128K of memory, type:

```
10 KEY OFF
20 SCREEN 105
30 SCREEN ,,5,5
35 CLS
RUN
```

No CLEAR command is needed. These codes have instructed your computer as follows:

- Line 20 tells GWBASIC to use the Super Resolution feature, and allows you to use both graphics and text concurrently.
- Line 30 sets the visible screen to be the same as the drawing screen and places the screen in memory. Memory area 5 was chosen because that is the first one available after the BASIC data area.
- Line 35 clears both the graphic and alphanumeric screens in memory.
- "RUN" causes your instructions to be executed.



GRAPHIC EFFECTS

Now you are ready to enter the commands required for specific graphic effects. Try the following examples. You will be able to quickly so feel free to vary the examples as you wish--the possibilities are practically unlimited.

1. Points

There are several ways to draw points. For example, type:

```
PSET (200,100),1
PSET STEP (10,-25)
```

These instructions set two points on the screen. The first point is set where $x = 200$ and $y = 100$. Look at the screen carefully, as it is very small and is located about two inches from the right of the cursor. The second point is set relative to the first and has the finite coordinates of (210,80). Use the PSET format to set points when you make your own graphic figures.

2. Circles

To draw a circle in the center of the screen, type:

```
40 CIRCLE (320,160),100,1
RUN
```

In this command, the coordinates (320,160) set the center of the circle. The radius is 100 and the color is set to 1 (white). Note the clarity of the circle. Because you have drawn a circle with a series of minute straight lines, the edge--if held under a magnifying glass--shows the many lines that make up the circle.

To fill in the circle, you would type:

```
50 PAINT (320,160),1,1
RUN
```

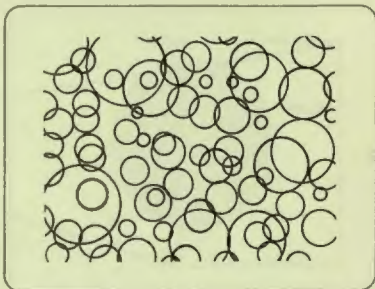
Note how the circle is filled by your simple command. A built-in programming instruction fills the circle from the center outward (up and down) to the edges.

Now, let's draw random circles on the screen. Type:

```
40 X = RND*640:Y = RND*325
50 R = RND*100
60 CIRCLE (X,Y),R,1
70 GOTO 40
RUN
```

Line 70 creates an infinite loop. This may be stopped by pressing Ctrl-C.

To clear the screen, press Ctrl-Home.



Now we start with a line across the center of the screen. Type:

```
40 LINE (0,162)-(639,162),1
50 END
RUN
```

The entry 1 is for color. You may wish to produce other lines. Clear the screen by pressing Ctrl-Home. Then follow the pattern above.

In the next few examples, we will omit line numbers and the "RUN" command. This causes each statement to be executed as it is entered. (Don't forget to clear the screen first with the Ctrl-Home command.)

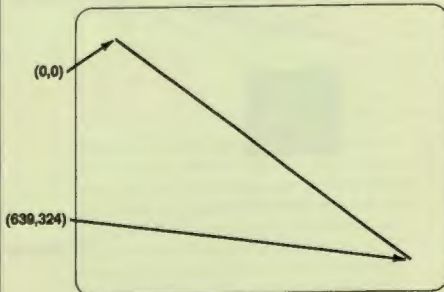
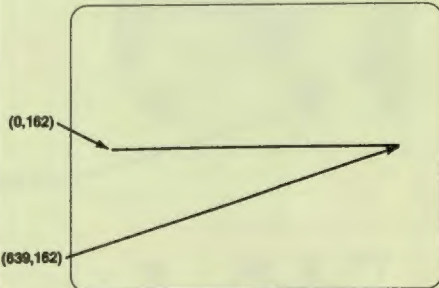
To produce a diagonal line running from the top leftmost point of the screen (0,0) to the bottom rightmost point (639, 324), type:

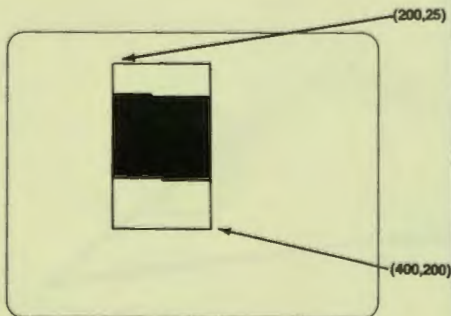
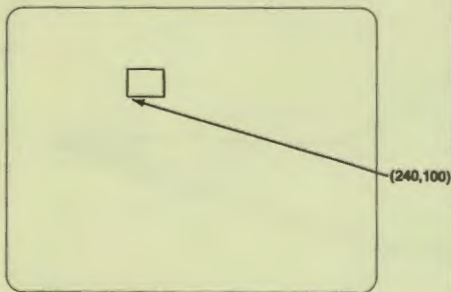
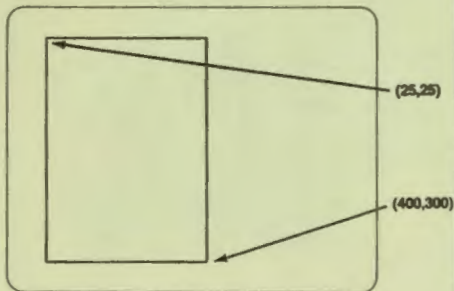
```
LINE (0,0)-(639,324),1
```

Now, erase the diagonal by typing:

```
LINE (0,0)-(639,324),0
```

By making the color of this line 0 (the color of the background), it is erased.





4. Rectangles

Draw a box with this simple command:

```
LINE (25,25) - (400,300),1,B
```

This command sets two points and instructs GWBASIC to make a box.

A box may also be drawn with only one point set.

Type:

```
PSET (240,100),1  
DRAW "U20R30D20L30"
```

DRAW tells the computer to draw a line up 20 points, right 30 points, down 20 points, and left 30 points.

Here is the command for a box that is filled in:

```
CLS  
LINE (200,25)-(400,200),1,B  
PAINT (300,60),1 'fill it in
```

Recall that in BASIC, remarks following an apostrophe are optional. You may or may not wish to include them when you type the commands.

Now, erase the box. (A clue: how did you erase the diagonal?)

5. **PIE** **WRITE**
For an example, type:

```
PIE  
DRAW "WEDGE"  
RUN 2000
```

A subroutine of GWBASIC. A wedge is drawn, filled, and then it is divided into pieces that are labeled with numbers to size. You can now draw your own pie chart by using the command "PIE RUN."

6. **PICTURE** **EFFECTS**

```
PICTURE  
DRAW "ETCH"
```

The command series sets up a picture window that works like Etch-a-Sketch. Try your hand at it.

THE MARBLES

```
CLS  
RUN "MARBLES"
```

Notice what happens after the marbles are drawn.

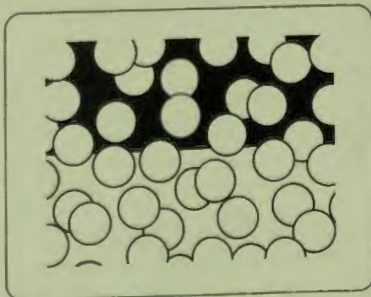
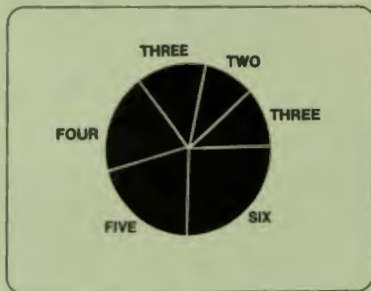
This is just a brief overview of the graphic effects that can be achieved on your **corona** PC. Other examples are programmed on your GWBASIC diskette. Because we change them from time to time, we ask you to refer to the directory on your GWBASIC diskette for current file names. (You should try some of the games also.)

For further information...

Look for the following commands in the GWBASIC manual:

CIRCLE
COLOR
DRAW
GET
LINE
PAINT

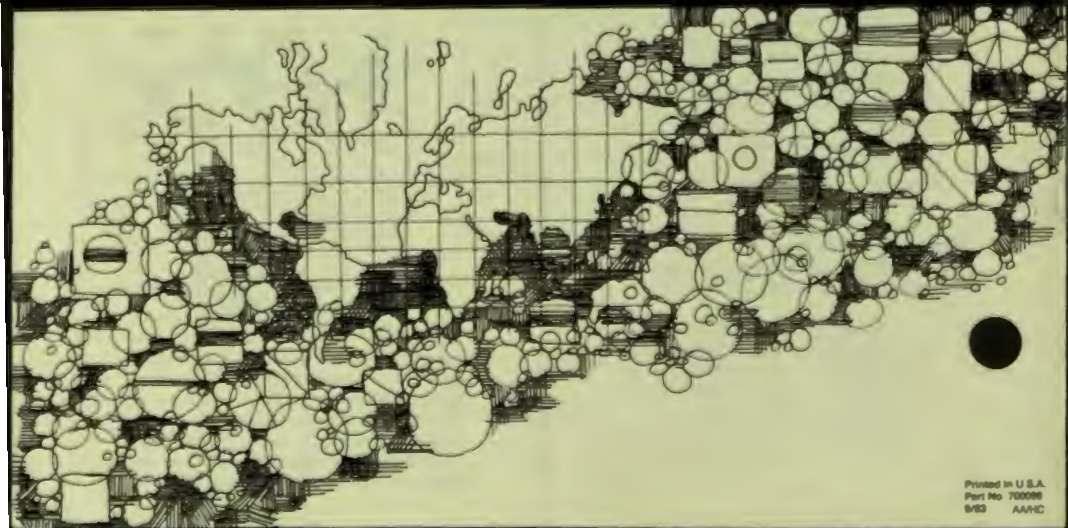
POINT
PRESET
PSET
PUT
SCREEN



For each command, there is a complete description, including the correct format to use. As you learn more about **corona** graphics, you will discover how you can support your specific requirements with this feature. We encourage you to experiment further, and hope this brief introduction to "Super Resolution" has begun to open up many possibilities to you.



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CORONA PERSONAL COMPUTERS



...a Step Beyond.

The Corona PC is a PC-Industry compatible system that takes personal computer performance a step beyond the ordinary in function, power, versatility and economy. Corona's improved capabilities are the result of new technological advancements that have led to a superior design in personal computers.

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The complete line of Corona state-of-the-art personal computers comes with standard features like super-resolution graphics, single or double drive systems, 10M byte Winchester hard disk drive, built-in monochrome graphics capability,


serial and parallel ports, 512K bytes memory expansion capacity on the main board, floppy disk controller and four expansion slots available in your choice of desktop or portable models. Both the Corona portable and desktop computers not only match your needs for economy today, but are compatible with your needs for tomorrow...versatile, powerful and expandable.

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...or on the go.

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• SPECIAL FEATURES BUILT ONTO THE MAIN BOARD -

The Corona PC's offer printer, plotter and telecommunications capability by providing both serial and parallel ports as standard. Corona also has a built-in 512K byte memory expansion capability, which eliminates costly expansion memory boards.

• FREE STANDARD SOFTWARE PACKAGES

You get Microsoft's MS-DOS operating system (version ~~2.00~~), GWBasic (Corona's version of Microsoft's simple, flexible programming language), PC TUTOR (a self teaching program for the Corona PC), and PC PAL (an introduction to the basics of computing and your Corona). Easy to learn, to operate, instantly even for first time users.

• BUILT-IN EXPANSION CAPABILITY -

The Corona PC has a broad peripheral add-on capability with four extra expansion slots for interface boards such as color, networking or mouse. There is a parallel port for printer, plotter, or other Centronic-type devices, and a serial port for printers, teletype, telecommunications and other RS-232C devices.

• PERIPHERAL POWER -

With our extra large 110-watt power supply, you can customize your Corona PC specifically to create any kind of work station. The power is there for you to run the peripherals to fit your particular business needs.

• USER FRIENDLY KEYBOARD -

The keyboard has the feel of a standard typewriter with all the keys in their familiar positions. The Number Lock and Capital Lock keys have indicator lights as reminders that you are in these modes. And we've added a six-foot long cable that conveniently allows you to sit where you're comfortable, not right on top of the computer.

• CORONA AUTHORIZED SERVICE CENTERS AND DEALER SUPPORT -

The network of Corona Authorized Service Centers provides direct service throughout the U.S. and Canada. Your Corona PC will always be protected through nationwide service, wherever your computer is used. Plus, there are more than 1,200 authorized Corona dealers in the U.S. and Canada who stand firmly behind your Corona Warranty, and who are able to meet your service needs today and tomorrow.

SPECIFICATIONS FOR THE CORONA PC PORTABLE AND DESKTOP MODELS:

Memory	16-bit 8088 4.7MHz CPU, with 256K ⁵¹² bytes on main board, expandable to 512K in increments of 128K
Disk Storage	Double-sided, double density, 360K byte floppy disk drives (one or two, depending on model), and optionally one floppy disk drive and a 40M byte Winchester hard disk. Floppy disk controller is on main board; hard disk controller uses one expansion slot
Monitor	Extremely high resolution, wide view, non-glare, green phosphor screen, with 640 x 400 pixels graphic resolution (640 x 200 pixels alternate IBM graphics compatible mode or 320 x 200). Desktop monitor — 14 inch diagonal tilt and swivel with 16 x 16 dot character font Portable monitor — 9 inch diagonal with 16 x 16 dot character font
Software	MS-DOS 2.00 ^{3.1} , GW BASIC, PC TUTOR Version 2.0, and Corona PAL
Character Attributes	Reverse video, underline, blinking, high intensity
Text with Graphics	Text can overlay graphics
Alphanumeric Display	80 columns by 25 rows
Power Supply	110-Watt switching supply
Graphic Storage	As many images as memory allows
Expansion Slots	4 IBM PC-compatible Parallel Slots
Printer Port	1 IBM PC-compatible Parallel Port
Communications Port	1 RS-232C Serial Port
Keyboard	Detachable, enhanced IBM PC type, 83 low-fatigue capacitance keys, Selectric type, with Number and Caps Lock indicators
Keyboard Cable	6 foot coil connects to the front of the system
Measurements	Portable PPC 400 System: 9.6"H x 18.8"W x 19.8"L Desktop PC 400 Console: 6.3"H x 19.5"W x 17"L Desktop PC 400 Monitor: 11.3"H x 13.7"W x 12.7"L



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799018/35K/785/GB

● HANG ON
TO YOUR HAT,
CHARLIE...



Specifications

(Data applies to desktop Model PC-1 and portable PPC-1 unless specified otherwise)

Processor	16-bit 8088
Memory	128K
Storage type	Double sided, double density floppy
Number of drives	1
Disk capacity	320K
RAM-disk	Yes
Monitor type	High resolution green phosphor, non-glare wide-view
Monitor size	12 inch diagonal desktop 9 inch diagonal portable

(Portable PPC-1 measures 9.6" H x 18.8" W x 19.8" L and weighs 28 lb.)

Keyboard	Detachable, IBM PC arrangement, 83 low fatigue capacitance keys
Keyboard indicators	Number and caps lock
Keyboard cable	6 ft. coil connects to front of system
Communications port	1 RS-232C serial
Printer port	1 IBM PC-compatible parallel
Video port	Desktop only
Expansion slots	4 IBM PC-compatible slots
Power supply	110 Watt switching supply
Alphanumeric display	80 columns, 25 rows
Character font	16x13 dots
Character attributes	Reverse video, Underline, Blinking, High intensity
Graphics resolution	640x325 pixels
Text with graphics	Text can overlay graphics
Graphics storage	As many images as memory allows

Models PC-2 and PPC-2

Same as PC-1 and PPC-2, but with the following differences:

Number of drives	Two
	Model PC-HD (Desktop only)
	Same as PC-1, but with the following differences:
Storage type	Double sided, double density floppy Winchester hard disk
Storage capacity	(floppy) 320K, (hard disk) 10 Megabytes
	Optional Hardware (desktop and portable)
Memory	Up to 512K in 128K increments (all models)
Disk	Second floppy disk drive for PC-1 and PPC-1 External Winchester hard disk (5 or 10 megabytes)
	Standard software (all models)
Operating System	MS-DOS
Language:	GW BASIC
Applications	MultiMate word processor, PC TUTOR self-teacher



Corona Data Systems

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THE INSIDE STORY.

The Corona Personal Computer is fully compatible with the IBM standard, yet gives you much more for a great deal less.

MORE HARDWARE.

The Corona PC is a 16-bit microcomputer based on the 8088 microprocessor, like the IBM PC. It comes with 128K of memory, a 320K floppy drive, a communication port, a printer port, a monitor that can be used for regular text and for graphics, and the high resolution graphics itself.

The video image is very high contrast, for greater clarity and less eye strain. The keyboard includes status lights indicating when functions are on or off. The DMA (Direct Memory Access) floppy disk drive controller provides high speed read and write operations.

MORE EXPANDABILITY.

Four expansion slots are standard and, along with a large power supply, will support any other capabilities you may want to add in the future. All important components (video, DMA disk controller, printer and communications interfaces and electronics for up to 512K of memory) are built into the main system board, so all the expansion slots are available for other uses.

A 10 megabyte Corona Personal Hard Disk can also be added for increased storage, speed and reliability. You'll find that it's as much as ten times faster than a floppy. The hard disk may be used internally with the desktop PC, or externally with both Corona PC's. The hard disk supports files as large as the disk itself, and allows you to have up to 16 operating systems (DOS, CP/M, etc.) available at the same time.

RAM-DISK FOR INCREDIBLE SPEED.

RAM-disk is an exclusive Corona feature that lets you treat an area of your computer's memory as if it were a disk drive. So you can copy all or part of the contents of a floppy or hard disk volume into that memory area, then store and retrieve that information all day long. And because there are no moving parts involved, the speed increase is dramatic.

MORE BUNDLED SOFTWARE.

The Corona PC comes with MS-DOS and CP/M-86 operating systems.

We also include GW-BASIC, the GSX graphics software, the MultiMate word processor and the PC Tutor training course, so the PC is productive immediately.

COMPATIBLE SOFTWARE.

Most software productivity tools and application packages that run on the IBM PC will run on the Corona PC with no modifications. This includes word processors, spreadsheets, database management systems, and many vertical application packages.

Some examples of popular software that is compatible with the Corona PC are MBA™, dBASE II™, FastGraph™, LogicCalc™, Easy Writer™, Wordstar™, Money Maestro™, Benchmark™, VisiCalc™, SuperCalc™, Crosstalk™, MultiMate™, VisiTrend™ and VisiPlot™, Home Accountant Plus™ and TIM™.

YOU CAN TAKE IT WITH YOU.

Like the desk top version, the Corona Portable PC™ is a cost-effective alternative to the IBM Personal Computer, with the added advantage of portability.

It can easily be moved to the next office, across the city or country, or home for the weekend, and has all the power of our desk top PC.

The high contrast 9" monitor has an 80 column x 25 row display that uses high resolution 16 x 13 dot characters for maximum clarity. The graphics mode matches our desk top unit and has a resolution of 640 x 325 pixels, over 60% higher than the IBM PC.

WE WORK HARD SO YOU PAY LESS.

Corona Data Systems and the individuals who make it up are known for their experience in manufacturing small computers and disk-drive add-ons. We applied this expertise to create personal computers that went beyond the standards set by the IBM PC. When we were done, we found that a fair and reasonable price worked out to be substantially less than equivalent IBM equipment.

Ask your authorized dealer for a hands-on demonstration of the Corona PC. See the difference that Corona standards make in the business usefulness of the personal computer. And see the difference that experience makes.

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- 128K of memory (up to 512K on main board).
- 320K floppy disk (double-sided, double-density) with DMA controller on main board.
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- GW Basic™: Basic with advanced features.
- GSX™ for CP/M graphics

- * SERIAL PRINTER (112) PORT
- * LOCAL SCROLLING (DISPLAY) ?
- LD 320K
- * REAL TIME CLOCK & CALENDAR?
- NO IF MONITOR INTERCHANGE ON PORTABLE.
- * JOYSTICK CONTROL, OR MOUSE
- * DIAGNOSTICS / TROUBLE CHECKING (RAM)?
- * OTHER KEYS PROGRAMMABLE?

Specifications

(Data applies to desktop Model PC-1 and portable PPC-1 unless specified otherwise.)

Processor	16-bit 8088
+ Memory	128K <i>RAM DISK (UP TO 512K ON MAIN BOARD)</i>
Storage type	Double sided, double density floppy
Number of drives	1 <i>(HALF HEIGHT)</i>
Disk capacity	320K
RAM-disk	Yes
Monitor type	High resolution green phosphor non-glare wide-view
Monitor size	12 inch diagonal desktop 9 inch diagonal portable
(Portable PPC-1 measures 9.6" H x 18.6" W x 19.8" L and weighs 28 lb.)	
Keyboard	Detachable, IBM PC arrangement, <i>83</i> low fatigue capacitance keys <i>REALT™ KEYS</i>
+ Keyboard indicators	Number and caps lock
Keyboard cable	6 ft. <i>coil</i> connects to front of system
+ Communications port	1 RS-232C serial <i>(DCE)</i>
Printer port	1 Centronics-compatible parallel
Video port	Desktop only
+ Expansion slots	4 IBM PC-compatible slots
Power supply	110 Watt switching supply
Alphanumeric display	80 columns, 25 rows
+ Character font	16 x 13 dots <i>✓ CASE, VER ENDERS, # CHAR & SYMBOL IN ROM - DO THEY GO TO RAM!</i>
+ Character attributes	Reverse video, Underline, Blinking, High intensity
+ Graphics resolution	640 x 325 pixels <i>(MONOCHROME)</i>
+ Text with graphics	Text can overlay graphics
Graphics storage	As many images as memory allows

Models PC-2 and PPC-2

Same as PC-1 and PPC-2, but with the following differences:

Number of drives	Two
Model PC-HD (Desktop only)	
Same as PC-1, but with the following differences:	
Storage type	Double sided, double density floppy Winchester hard disk
Storage capacity	(floppy) 320K (hard disk) 10 Megabytes
Optional Hardware (desktop and portable)	
Memory	Up to 512K in 128K increments (all models)
Disk	Second floppy disk drive for PC-1 and PPC-1 External Winchester hard disk (5 or 10 megabytes)
Standard software (all models)	
+ Operating Systems	MS-DOS, CP/M-86
Languages	GW BASIC
Graphics	GSX, for CP/M-86
Applications	MultiMate word processor, PC TUTOR self-teacher <i>✓ AUDIBLE FEEDBACK?</i>



FEEL THE POWER

THE CORONA PERSONAL COMPUTERS.

A powerful, cost-effective alternative to the IBM Personal Computer.™



The Corona PC Models PC-1, PC-2, PC-HD



The Corona PC™ is a cost-effective, powerful alternative to the IBM Personal Computer®.

It is compatible with the IBM PC, accepting software and expansion cards which conform to the IBM PC standard.

The Corona PC comes with the same processor as does the IBM PC, the same keyboard, the same type of disk drives, and in general does everything that the IBM unit does.

Moreover, the Corona PC goes beyond the IBM standard:

More hardware

Every Corona PC comes with 128K of memory, at least one 320K floppy disk drive, one communications port, one printer port, a monitor used for regular text and for graphics, and the high resolution graphics circuitry itself.

The video image is very high contrast, for greater clarity and less eye strain. The keyboard includes status lights indicating when functions are on or off.

More expandability

The Corona PC includes a large power supply and four expansion slots. Important components (video disk, printer, and communications interfaces, and electronics for up to 512K memory) are built in. All four slots are available for other uses.

Corona also offers a 10 Megabyte hard disk, installed inside the PC.

More bundled software

The Corona PC comes with MS™-DOS, and GW BASIC™.

Corona also includes CP/M-86™, the GSX™ software, and a word processor.

More software compatibility

With the inclusion of CP/M-86, the software that conforms to the well-known CP/M® standard is available for the Corona PC.

Standard Hardware (Model PC-1)

Processor	16-bit 8088
Memory	128K
Storage type	Double sided, double density floppy, half-height
Number of drives	1
Disk capacity	320K
RAM-disk	Yes
Monitor type	High resolution green phosphor, non-glare, wide-view
Monitor size	9 inch diagonal

Keyboard	Detachable, IBM PC arrangement, 83 low fatigue capacitance keys
Keyboard indicators	Number and caps locks
Keyboard cable	6 ft coil, connects to front of system
Communications port	1 RS-232C serial
Printer port	1 Centronics-compatible parallel
Expansion slots	4 IBM PC-compatible slots
Power supply	110 Watt switching supply

Alphanumeric display	80 columns, 25 rows
Character font	16 x 13 dots
Character attributes	Reverse video Underline Blinking High intensity
Graphics resolution	640 x 325 pixels
Text with graphics	Text can overlay graphics
Graphics storage	As many images as memory allows

(Model PC-2)

Same as PC-1, but with the following differences:

Number of drives Two

(Model PC-HD)

Same as PC-1, but with the following differences:

Storage type Double sided, double density floppy
Winchester hard disk

Storage capacity (floppy) 320K
(hard disk) 10 Megabytes

Optional Hardware (models as shown)

Memory Up to 512K, in 128K increments (all models)

Disk Second floppy disk drive for PC-1
Winchester hard disk for PC-1 or PC-2

Standard Software (all models)

Operating Systems MS-DOS, CP/M-86

Languages GW BASIC

Graphics GSX, for CP/M-86

Applications MultiMate word processor
PC TUTOR self-teacher

OUR EUROPEAN OFFICE ADDRESS IS:

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CORONA DIRECTOR OF SALES — EUROPE.
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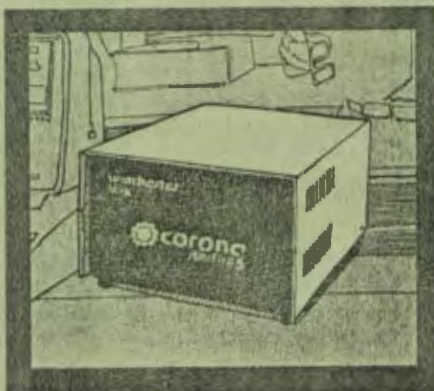
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Three of the hottest computer categories are:



1) IBM PC-Compatibles

2) Professional portables



3) Hard disk add-ons

Corona fills them all for you, with prices, margins and features that make buying and selling a pleasure.

- Always the lowest prices, yet with solid margins
- A complete line of compatible computers and hard disks
- Most features are standard, not optional
- Solutions to product problems unsolved by others

Corona. Making products that are easy to sell and support.

It's no secret that IBM PC-compatible is a new de facto standard. IBM PC-compatible software and boards sell, and computers that use them sell as well.

And it's no secret that low cost hard disks are catching on among serious users of personal computers.

But besides IBM, *which* IBM PC-compatible computers are best for you? And among the many suppliers of hard disks, *who* seriously addresses the problems that hard disks create?

Corona. Offering the lowest prices. Providing a complete line of computers and hard disks from one manufacturer. Configuring its products with most features standard for easy selling and to eliminate hidden costs and support. Designing its products to solve the technical problems that create post-sale difficulties.

Lowest prices, solid margins

When we say lowest prices, we mean it. A Corona PC equivalent to a \$3815 IBM lists at \$2595. A Corona portable with the same features is even less. Both with really solid margins for you.

A family affair - a portable included

When we say a complete line of products, we mean it. Corona provides a *family* of IBM PC-compatibles - a standard-size, a portable, and hard disks to match. What better way to save you money in inventory and support.

Easy to sell - most features standard

And like our well-known hard disks, we designed our PCs for easy selling and without hidden costs. Monitors, disk drives, lots of memory, I/O ports, and more, all come built-in. Little to configure, little to stock.

Technical solutions that eliminate post-sale problems

As the following product descriptions show, Corona has outdesigned its competitors, including IBM, in a number of significant ways. Not only does Corona increase value by adding features, it solves previously unsolved problems that create problems for the reseller after the sale.

THE CORONA LINE OF PCs

The Corona PC:

This is the ideal personal computer for the serious user in the 1980's. It supports the most powerful body of personal computer software and add-on cards existing - IBM PC-compatible software and cards - and its state-of-the-art 16-bit technology ensures the highest possible performance for years to come.

At a price far below similar systems, with built-in extras as additional incentive, the Corona PC is an easy choice for an end-user to make.

The Corona Portable PC:

- Large 9-inch high-resolution screen.
- Corona Personal Hard Disk can be attached.
- Streamline low-profile appearance.
- Shares all other Corona PC features.



The Corona Portable PC is both handsomely and durably designed - suitable on any executive's desk, yet easily moved - to the next office, home for the weekend, across the city, to another city altogether, or just off the top of the desk when not in use.



The following are the common features and benefits of the Corona PC and Portable PC.

Standard hardware:

- IBM PC-type card slots (4 in the PC, 3 1/2 in the Portable PC)
- 128K memory built-in, expandable to 512K on main board
- 320K half-height floppy diskette drive
- Detached IBM PC-type keyboard
- High resolution green-phosphor monitor
- 16 x 13 dot characters with 4 non-conflicting attributes
- Built-in 640 x 325 high resolution graphics
- Serial (RS-232C) and parallel (Centronics-compatible) ports
- 110 Watt switching power supply

Standard software:

- MS DOS, Basic, and GW (graphics) Basic
- Spread-sheet software package

Expansion:

- Up to 512K memory without add-on cards
- Second 320K floppy diskette drive
- 10 megabyte hard disk (installed inside the PC)
- Any standard IBM PC-compatible card
- Any standard IBM PC-compatible software

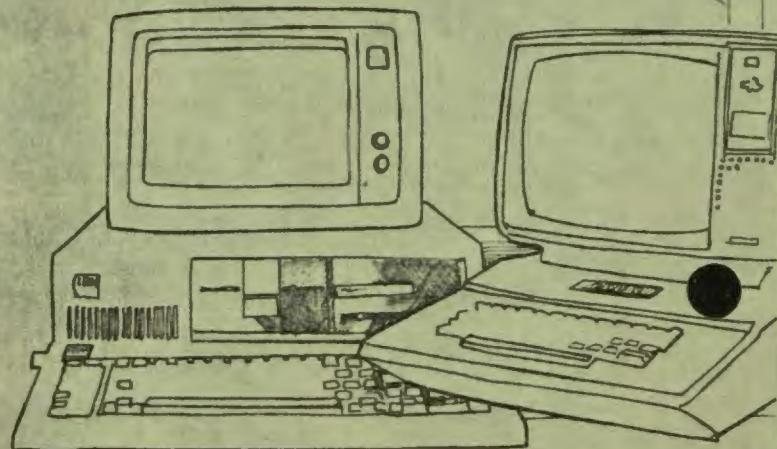
Problems solved:

IBM PC (or copy of it): Too few card slots. Few if any card slots remain free for future expansion after installing basics such as video card, floppy controller, printer port and add-on memory.

Corona: Electronics for all standard features, and up to 512K memory, are on the main board, leaving all slots free for color graphics, high-speed communications, hard disk, and so on.

IBM PC (or copy of it): Insufficient power supply. A 63 Watt power supply cannot support many desired configurations.

Corona: A 110 Watt power supply provides more than enough power for foreseeable needs.



IBM PC (or copy of it): Graphics need a separate monitor and expensive card. Displaying charts, graphs, and drawings is inconvenient and expensive.

Corona: High resolution graphics are nearly twice as detailed as on the IBM PC, and are displayed directly on the system screen, rather than a separate monitor. Normal text and high resolution graphics can even be combined in the same image. And it's all standard with Corona. Graphics - a no-cost bonus from Corona.

IBM PC (or copy of it): Not highly readable, with 14x7 dots per character and a moderate contrast screen.

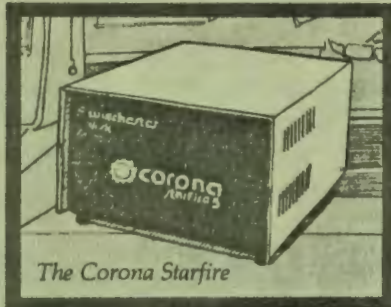
Corona: 16x13 dots per character and a high contrast screen offer outstanding readability.

THE CORONA LINE OF HARD DISKS

Hard disks in general save serious users a great deal of time and frustration, and allow larger applications not possible with floppies. They are an increasingly common upgrade for serious personal computer users.

Corona's hard disks differ from others in their software solutions to the problems not solved by other suppliers, problems that can catch up to resellers in hidden support costs.

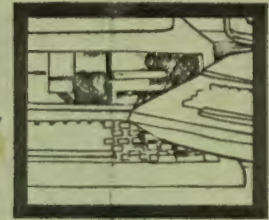
By concentrating resources on only the two most popular types of personal computer, the Apple II and IBM PC, Corona was able to discover and develop software solutions to each of these problems. These software solutions save both users and resellers a great deal of effort.



The Corona Starfire

The Corona Personal Hard Disk for IBM PC-compatible systems:

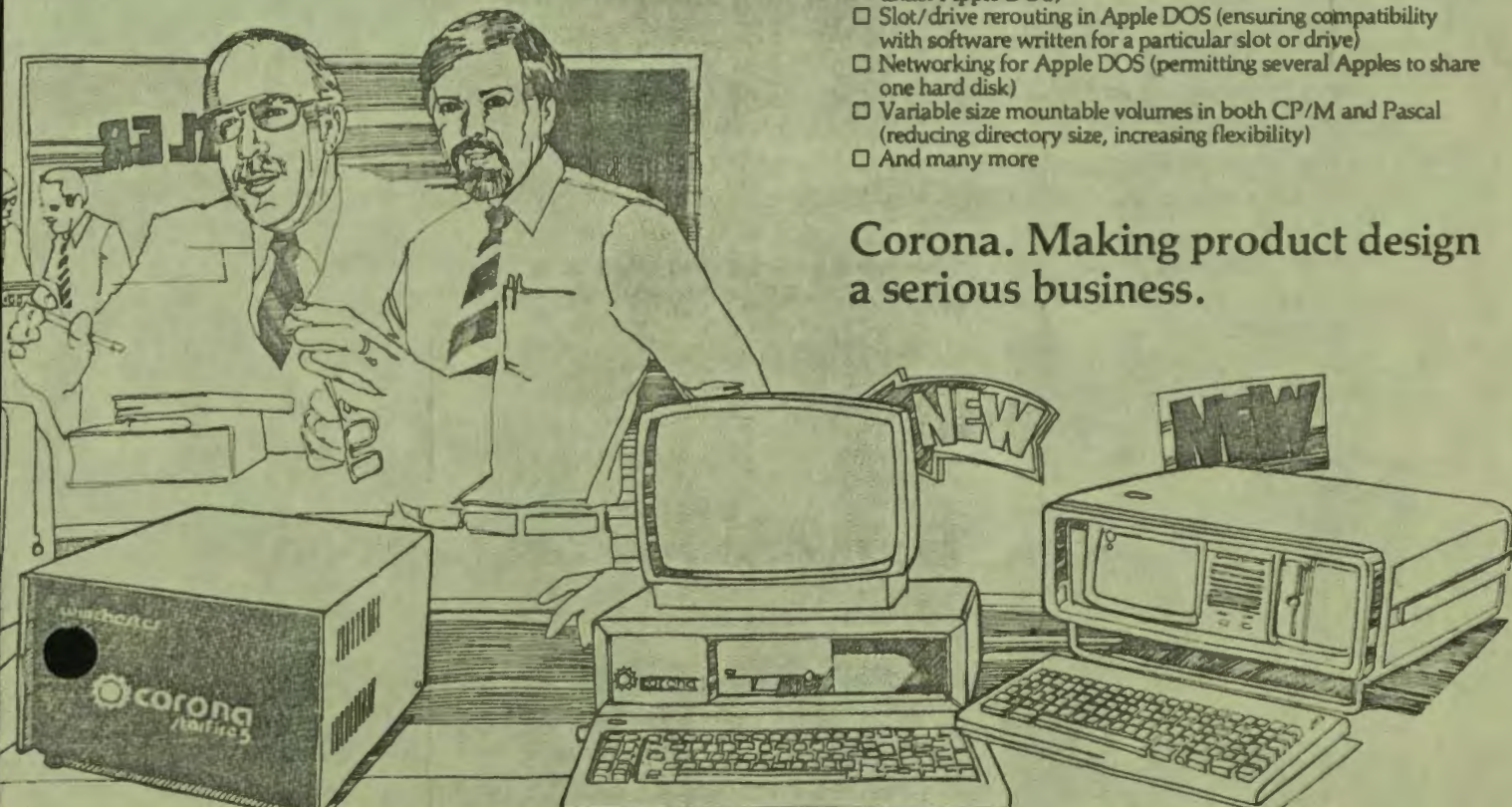
- Choice of 5 or 10 megabyte capacity
- Choice of internal (inside the PC) or external version
- User friendly utilities with on-screen documentation
- Ability to support data from several operating systems on the same hard disk (ensuring future compatibility)
- Mountable MS DOS volumes (keeping directories small)
- Date and category-selective diskette backup, automatic diskette sequencing and file compacting during backup (making floppy backup more convenient)
- DataGuard automatic read-error correction ("32-bit ECC") and FailSafe automatic write-error correction (eliminating intermittent I/O errors)



The Corona Starfire for Apple II:

- Choice of 5 or 10 megabyte capacity
- Apple DOS, CP/M and Pascal support included; and CP/M does not require Pascal (no hidden costs and no options to order)
- Multiple operating system partitions (allowing up to 10 operating systems on the same hard disk)
- Dynamic (expandable) partitions (does not require reinitializing to increase size of a partition)
- Automatic booting (no floppy is needed to start up the hard disk)
- Slot independence (eliminating interference with other cards, and allowing floppy to stay in slot 6)
- Boot floppy by leaving hard disk off (easing use of floppy-only software)
- 7K memory on interface card (not reducing main memory, increasing compatibility with existing software)
- DataGuard automatic read-error correction ("32-bit ECC") and FailSafe automatic write-error correction (eliminating intermittent I/O errors)
- Volume-selective backup and automatic diskette sequencing during backup, in all operating systems, and file compacting in Apple DOS (making floppy backup more convenient)
- User-friendly hard disk version of Apple DOS (overcoming inconveniences of an operating system created for floppies)
- Extended volume size in Apple DOS (allowing files up to 400K under Apple DOS)
- Slot/drive rerouting in Apple DOS (ensuring compatibility with software written for a particular slot or drive)
- Networking for Apple DOS (permitting several Apples to share one hard disk)
- Variable size mountable volumes in both CP/M and Pascal (reducing directory size, increasing flexibility)
- And many more

Corona. Making product design a serious business.



PERSONAL COMPUTERS ARE SERIOUS BUSINESS

A Solid Structure Of Support

Just as Corona's products are designed with ease of sale as the primary consideration, its organization is structured to facilitate the efforts of resellers. This is a serious claim, backed up by facts:

Stocking distributors - Corona is committed to 2-step distribution in order to ensure product availability and local support, and to reduce inventory investment. Stocking distributors are located in every region.

Service handled by distributors - To make 2-step distribution of even greater benefit to the reseller, Corona requires its distributors to handle hardware service and Corona reimburses them for warranty service. As a result, individual resellers are NOT required to stock spare parts or to train service personnel.

Regional offices - Backing up its distributors, Corona maintains several regional offices that facilitate support and service.

Sales aides - Corona supplies point-of-sale and sales demonstration aides that are specifically designed to reduce the need for training of sales personnel.

National advertising - "Pull-through" end-user advertising is a serious issue at Corona, with a larger than typical proportion of the corporate budget devoted to this form of reseller support.

A Management Team With Reseller Experience

The backbone of Corona's support structure is its uniquely experienced management team:



Chairman Dr. Robert Harp, co-founder of Vector Graphic, with long experience in designing computer systems that are easily marketable by resellers.



President Daniel Carter, past head of Televideo's computer division, with a proven knowledge of the organizational needs of computer resellers.

Vice-President and Chief Financial Officer Loren Eltiste, ensuring product availability through professional financial management.

Vice-President of Sales and Marketing George McMurtry, whose recent personal experience as owner of a successful ISO enables leadership in tune with the present needs of resellers.

Vice-President of Corporate Communications Robert Kramarz, with extensive experience in advertising and sales promotion designed specifically to back up reseller efforts.

Do Your Homework

Follow up on this initial exposure to Corona Data Systems. Compare Corona's serious approach to reseller support with that of its competitors. You'll find we do mean what we say.

Corona. Someone you can bank on.



CORONA

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Telephone (213) 706-1505



CORONA

data systems, inc.

275 E. Hillcrest Dr., Thousand Oaks, CA 91360, Ph. (805) 495-5800 (800) 621-6746, Telex 658212 CORONA WSLK

RETAIL PRICE LIST

Effective June 18, 1984

Unless otherwise noted, all desktop and portable models listed below include the following items:

- MS-DOS 2.xx, GW BASIC 1.xx, MultiMate 3.25, and PC Tutor.
- Super Resolution Graphics (640 x 325) and high resolution text.
- High scan rate monitor with a choice of either green or amber phosphor.
- Main board RAM memory expandable to 512K.
- Four (4) fully powered expansion slots. (Winchester disk systems use one expansion slot for the disk controller.)
- Low profile 360K floppy disks, and attractive front filler plates where additional expansion space is available.
- Detachable, front connecting, enhanced IBM PC type keyboard.

The system prices exclude monitors for the desktop models.

MODEL	DESCRIPTION	SYSTEM PRICE	MONITOR PRICE
PORTABLE PC SERIES PERSONAL COMPUTER SYSTEMS			
PPC-11	One floppy drive and 128K memory.	\$2195	included
PPC-22	Two floppy drives and 256K memory.	\$2595	included
PPCXT	One floppy drive, 256K memory, and one 10 Mbyte Winchester disk drive.	\$4095	included
DESKTOP PC SERIES PERSONAL COMPUTER SYSTEMS			
PC-11	One floppy drive and 128K memory.	\$1950	\$245
PC-22	Two floppy drives and 256K memory.	\$2350	\$245
PCHD-2	One floppy drive, 256K memory, and one 10 Mbyte Winchester disk drive.	\$3850	\$245
DESKTOP PB SERIES "PERSONAL BEST" COMPUTER SYSTEMS (640 x 400 graphics with 640 x 200 emulation mode)			
PB-400	Two floppy drives, 512K memory, and one 10 Mbyte Winchester drive. (Green monitor only)	\$4795	\$300
OPTIONAL ITEMS			
	Additional 128K RAM memory	\$ 195	
	Additional 360K low profile floppy disk drive	\$ 295	
	10 Mbyte internal mount Winchester disk sub-system	\$1795	
	MS-DOS 2.xx	\$ 60	
	MS-DOS 1.25	\$ 60	
	Padded carrying bag for portable models	\$ 70	

NOTE: MultiMate 3.25 and many other popular software packages require a minimum of 256K of memory. Two disk drives are generally recommended for most efficient operation.

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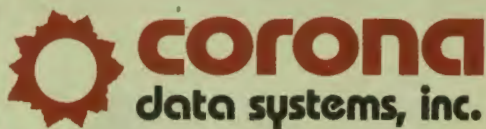
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MEGA PC



IBM Compatibility
& Up to Eight
Users!



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The day will be packed with useful information and demonstrations provided by Corona and Tallgrass representatives aimed at assisting you in your sales of these new products.

A 'special offer' announcement will be made by Tech Data, and will be available only to those attending this seminar.

For your convenience, we are holding this seminar in two locations:

Jan. 16, 1985 ATLANTA, GA

at: BEST WESTERN CONFERENCE CENTER
2001 Clearview Avenue
ATLANTA, GA

TIME: 8:30 am thru 4:30 pm

JAN 18, 1985 TAMPA, FL

at: AIRPORT MARRIOTT
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A MULTI-USER, MULTI-PROCESSOR SYSTEM

The Corona MEGA PC offers up to eight industry standard XT's housed in a single unit, with all the advantages of high speed operation, shared resources and easy expandability. Each workstation functions in the same manner as a stand-

alone XT, or as part of a shared integrated system with access to various hard disk resources and data bases. Why are shared resources an advantage over eight networked XT's?

BETTER THAN AN XT

Each Corona MEGA PC Workstation operates nearly 60% faster than the XT because it uses a compatible, but higher performance processor. Better graphics and a superior keyboard are included. And it offers simple and cost effective expansion capabilities. Up to

seven additional users may be incrementally added to the system. Sharing resources means added economy. Printers, modems and other peripherals may be shared by all users, plus you gain the advantage of centralized control.

BETTER THAN EIGHT XT's

In a multi-user configuration, the MEGA PC offers major cost advantages over eight stand-alone XT's. And even greater cost advantages over eight networked PCs. And about performance, the MEGA PC uses bus architecture which creates

a much faster host-to-workstation interaction than typical LAN architecture. Plus, each MEGA PC workstation is smaller and more aesthetically pleasing. You get more power and faster access in a smaller package!

CONTROL

In offices, computers tend to get out of control. You may already have noticed a few different types of incompatible computers sneak into the office. Sometimes two computers

made by the same manufacturer don't speak to one another. The result is that projects cannot be shared. Data can be lost. And no one is in control. The MEGA PC provides you with the ability to not only combine resources into one compact unit, but also limit or permit access to what ever information you see fit. You choose who can change what.

HARDWARE SPECIFICATIONS

The MEGA PC consists of a Master File Server (MFS) which houses the system resources, and one to eight single user workstations, coaxial cable, software and documentation.

MASTER FILE SERVER (MFS)

Processor	Industry standard 16-bit 8088 (4.77 MHz) CPU with 512K Ram, RS-232 serial port, industry standard parallel printer port, 16K ROM BIOS (boots to hard disk), XT-compatible at BIOS level hard disk controller (uses one expansion slot) with clock and calendar, floppy disk controller.
Workstation and Expansion Capability	One to eight application processor cards, one required for each workstation (or other industry compatible expansion card).
Disk Drives	One low profile 360 KB floppy disk drive and one 10, 20 or 40 MB Winchester hard disk drive.
Drive Expansion Space	Space available for mounting a total of six half-height or three full-height devices (such as hard disk, floppy disk, or tape drives). One half-height floppy and one half-height (10MB) or one full-height (20 & 40MB) hard disk come standard with each MEGA PC.
Manufacturer Drive Options	60MB Streaming Tape Backup (one expansion slot required) Second Floppy or Hard Disk Drive (no extra expansion slot required)
Power Supply	300-Watt switching power supply for 110 or 230 VAC (internally switchable; 50/60 Hz)

SOFTWARE

Operating System	MS-DOS 3.1 advanced industry standard operating system offering compatibility with all popular multi-user software.
Multi-user Software	MicroSoft Networks Version 1.0, the latest multi-user software featuring file and range locking access modes, printer spooling, and file access security with password protection built into the network protocol.

MEGA PC Utilities

Wide range of system level utilities for use by the system supervisor to maintain user partitions and passwords, and provide backup file protection.

System user utilities are provided to allow access to the system resources, gain system information, and share commonly accessed utilities.

WORKSTATIONS

Application Processor Card (APC)

One APC fits into the MFS for each workstation. Each APC has an industry standard 16-bit 8088-2 CPU (8 Mhz) with 512K RAM. Each card has a serial port, 8087-2 socket, and connects via RG59U coax cable (provided) to the workstations (300' max. length).

Monitor

Extremely high resolution, 14-inch diagonal, green phosphor screen. 640 x 400 pixels graphic resolution (640 x 200 pixels alternate IBM graphics compatible mode or 320 x 200). Monitors have tilt and swivel base and operate at 110 or 230 VAC.

Character Font Alphanumeric Display

16 x 16 dot character font
Character display of 80 columns by 25 rows. Monitors have tilt and swivel base, and operate at 110 or 230 VAC.

Ports

Serial printer-communications port is physically part of the APC card and is not sent out over the coax cable to the workstation. The serial port can be extended from the MFS to a local printer at a workstation by RS232 cable.

Keyboard

Detachable, ergonomically designed, finger friendly keyboard, with 83 low fatigue capacitance keys, with Number and Caps Lock indicators and 6-foot coil connector standard.

MEGA PC System Unit measures Desktop Workstation measures

15''H x 18''W x 20''L

11.3''H x 13.7''W x 12.7''L





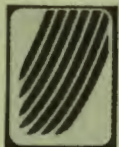
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DESKTOP & PORTABLE PC's

(Data applies to desktop Model PC-1 and portable PPC-1 unless specified otherwise)

Processor	16-bit 8088
Memory	128K bytes
Storage type	Double-sided, double-density floppy
Number of drives	One
Disk capacity	320K bytes
RAM-disk	Yes
Monitor type	High-resolution, wide-view
Monitor size	12-inch non-glare diagonal (desktop) 9-inch diagonal (portable)

(Portable PPC-1 measures 9.6" H x 18.8" W x 19.8" L and weighs 28 lb.)
(Desktop PC-1 measures 6.3" H x 19.5" W x 17" L and weighs 22.5 lb.)

Keyboard	Detachable, IBM PC type 83 low-fatigue capacitance keys
Keyboard indicators	Number and caps lock
Keyboard cable	6-ft. coil connects to front of system
Communications port	1 RS-232C serial
Printer port	1 IBM PC-compatible parallel
Video port	Desktop only
Expansion slots	4 IBM PC-compatible slots
Power supply	110 Watt switching supply
Alphanumeric display	80 columns, 25 rows
Character font	16 x 13 dots
Character attributes	Reverse video, Underline, Blinking, High intensity
Graphics resolution	640 x 325 pixels
Text with graphics	Text can overlay graphics
Graphics storage	As many images as memory allows

Models PC-2 and PPC-2

Same as PC-1 and PPC-1, but with the following differences:

Number of drives	Two
Model PC-HD (Desktop only)	
Same as PC-1, but with the following differences:	
Storage type	Double-sided, double-density floppy Winchester hard disk
Storage capacity	(floppy) 320K bytes. (hard disk) 10M bytes
Optional Hardware (desktop and portable)	
Memory	Up to 512K bytes in 128K byte increments (all models)
Disk	Second floppy disk drive for PC-1 and PPC-1 External Winchester hard disk (10M bytes)
Carrying case	Attractive, durable carrying case for portable
Standard software (all models)	
Operating System	MS-DOS
Language	GW BASIC
Applications	MultiMate word processor, PC Tutor self-teacher



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Once you discover the performance and the power of the **corona PC's**,™ you'll quickly see the difference in today's standard for micro computing in the IBM-compatible world. Because the **corona PC's** go beyond the standard to give you much more of what you're looking for in an IBM-compatible PC.

- Powerful, low-cost desktop and portable computers.
- 16-bit, fully compatible with IBM PC standard.
- Crisper, cleaner display and higher resolution graphics (640x325 pixels).
- 128K byte memory, room for 512K bytes on main board.
- Fast-access 320K byte floppy, communication and printer ports and 4 expansion slots are included.
- RAM-disk software.
- Includes MS-DOS¹, GW BASIC², PC Tutor³, and MultiMate⁴ professional word processing system.
- Optional hard disk.





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ON THE DESK OR ON THE GO

The Cordata PC is an industry standard PC-compatible system that takes personal computer performance a step beyond the ordinary in function, power, versatility and economy.

Cordata's improved capabilities are the result of new technological advancements that have led to a superior design in both portable and desktop computers. The Cordata PCs incorporate the following advanced performance features and benefits:

•HIGH PRICE/PERFORMANCE RATIO— Cordata offers proven hardware that comes complete with advanced features that aren't offered by the competition. And all for a price that sets us apart from all the rest. Value is what Cordata has to offer: a great price for high performance equipment.

•BUILT-IN EXPANSION CAPABILITY — The Cordata PC has a broad peripheral add-on capability with four extra expansion slots for interface boards such as color, networking, or mouse. There is a parallel port for printer, plotter, or other Centronic-type devices, and a serial port

for printers, teletype, telecommunications and other RS-232C devices.

•ERGONOMIC DESIGN SUPERIORITY — Cordata gives you a tilt and swivel screen with up to 100% better resolution than the IBM PC (400 lines on a screen compared to 200). With screen images sharp and easy to read, you experience less eye fatigue and more productivity. Graphics and reports are clearer and easier to read. And Cordata's finger-friendly keyboard has the feel of a standard typewriter with all the keys in their familiar positions. The Number Lock and Capital Lock keys have indicator lights as reminders that you are in these modes. And we've added a six-foot long cable that conveniently allows you to sit where you're comfortable, not right on top of the computer.

•SPECIAL FEATURES BUILT ONTO THE MAIN BOARD — The Cordata PCs offer printer, plotter and telecommunications capability by providing both serial and parallel ports as standard. Cordata also has built-in 512K byte on-board memory expansion capability, which eliminates costly memory expansion boards.

CORDATA AUTHORIZED SERVICE CENTERS AND DEALER SUPPORT

The network of Cordata Authorized Service Centers provides direct service throughout the U.S. and Canada. Your Cordata PC will always be protected through nationwide service, wherever your computer is used. Plus,

TOMORROW'S SOLUTION

The complete line of Cordata state-of-the-art personal computers comes with standard features like super-resolution graphics, single or double floppy drive systems, 20M byte Winchester hard disk drive, built-in monochrome graphics capability, IBM graphics compatibility, serial and parallel port, 512K bytes memory on the main board, floppy disk controller and four expansion slots, everything available in your choice of desktop or portable models.

there are more than 1,500 authorized Cordata dealers in the U.S. and Canada who stand firmly behind your Cordata Warranty, and who are able to meet your service needs today and tomorrow.

Both the Cordata portable and desktop computers not only match today's needs for economy, but are compatible with tomorrow's needs . . . versatile, powerful, and expandable.

Year	Delta Bal.	End Bal.	Total Paid	Interest
1	10,000.00	9,460.00	12,400.00	2,400.00
2	10,000.00	8,920.00	12,400.00	2,400.00
3	10,000.00	8,380.00	12,400.00	2,400.00
4	10,000.00	7,840.00	12,400.00	2,400.00
5	10,000.00	7,300.00	12,400.00	2,400.00



Processor

16-bit 8088 4.7MHz CPU, with 512K bytes on main board

Disk Storage

Double-sided, double density, 360K byte floppy disk drives, either dual floppies or one floppy disk drive and a 20M byte Winchester hard disk. Floppy disk controller is on main board; hard disk controller uses one expansion slot. Extremely high resolution, wide view, non glare, green phosphor screen, with 640 x 400 pixel graphic resolution (640 x 200 pixels alternate IBM graphics compatible mode or 320 x 200).

Monitor

Desktop monitor — 14-inch diagonal tilt and swivel with 16 x 16 dot character font.

Portable monitor — 9-inch diagonal with 16 x 16 dot character font.

Software

MS DOS 2 XX, GW BASIC, PCTUTOR, and Cordata PAL

Character Attributes

Reverse video, underline, blinking, high intensity

Text with Graphics

Text can overlay graphics

Alphanumeric Display

80 columns by 25 rows

Power Supply

110-Watt switching supply

Graphic Storage

As many images as memory allows

Expansion slots

4 IBM PC-compatible slots

Printer Port

1 IBM PC-compatible parallel

Communications

1 RS-232C serial

Port

Keyboard

Detachable, ergonomically designed, finger friendly keyboard, with 83 low fatigue capacitance keys, with Number and Caps Lock indicators and 6-foot coil connector standard

Portable PPC 400 system measures 9.6"H x 16.8"W x 19.8"L

Desktop PC 400 system console 6.3"H x 19.5"W x 17"L

Desktop PC 400 system monitor 11.3"H x 13.7"W x 12.7"L



COMPATIBILITY TO ITS FULLEST

Cordata's line of AT computers are fully compatible with the IBM Personal Computer AT at the ROM BIOS level. This

means that the same software that runs on the IBM, runs on the Cordata.

WHY AN AT?

The Cordata AT computers offer superior performance based on the newest microprocessor technology. This means you can process information and run software faster and more efficiently than standard IBM and compatible PC's.

The Cordata ATs offer massive data storage capacity. For running programs and storing data files on diskettes, Cordata offers several configurations.

For example, we have incorporated slimline floppy disk drives. With these, you can file the equivalent of more than 600 pages of information on a single diskette.

For faster, more complex applications, Cordata offers a hard drive option, a similar system with one slimline

floppy disk drive and one hard disk drive (20,480,000 characters, or 10,000 pages). This disk drive allows you to store multiple programs and data files for immediate retrieval. Switching from one program to another is a breeze.

These technological improvements mean more processing for you. More information can be stored and processed for faster, more dependable computing power.

Plus, the Cordata AT gives you the power of the future. New developments in artificial intelligence, bigger data bases, faster, more intricate graphics, and a whole new generation of business software are at your command with the Cordata AT.

ON THE DESK OR ON THE GO

Both desktop and portable models are available. You have all the advantages of a desktop PC with the same power available in a portable.

These technological improve-

ments mean more processing for you. More information can be stored and processed for faster, simpler computing power.

