

**Chances are, you've been innovating with graphics long enough to know just what it can do . . .** and what it can't. You know your system well enough to know its limits.

Now look at graphics from the 4014-1 point of view: three times the viewing area. Three times the display. And a cost that just may be the best feature of all.

Look at the other capabilities: Complete 128-character ASCII code with upper and lower case alpha- numerics.

Dry, high-contrast copies from the 4610, Option 2 Hard Copy Unit.

The wizardry of APL, the short-cut to problem-solving, in the 4015 and 4015-1.

Look at the applications made possible or made practical by big-screen 4014-1 graphics.

#### **Geophysical and seismic exploration**

Results take shape quickly and meaningfully as the 4014-1 lets you instantly evaluate and experiment with data from tests and research, with quality and quantity of detail that opens whole new doors of perception.

#### **Industrial component and product design**

Design and redesign, structure and restructure, assemble and test, then look into the future of production and assembly.

#### **Integrated circuit masking and printed circuit card layout**

Your entire circuit comes to light on one high resolution display.

#### **Architectural perspectives**

Single structures, even large-scale urban planning take on form and function for detailed analysis. Reposition your perspective or revise your renderings with equal ease.

**Preview plotting** Whatever the project, preview plotting on the 4014 can lop lifetimes off CalComp trial-and-error. The 4014's 4K x 4K point display defines the most elusive detail.

**Mapping** Draw detailed maps of cities, states, counties. Isolate and enlarge areas as you choose.

#### **4014-1/4015-1/4014/4015**

##### **Specifications**

##### **Model Numbers**

4014 Computer Display Terminal with Standard Data Communications Interface . . . . . \$8995.

4014-1 Computer Display Terminal with Standard Data Communications Interface . . . . . \$9495.

4015 Computer Display terminal with Standard Data Communications Interface . . . . . \$9495.

4015-1 Computer Display Terminal with Standard Data Communications Interface . . . . . \$9995.

The 4014-1 and the 4015-1 are compatible with the 4610, Option 2 Hard Copy Unit . . . . . \$4295.

##### **Display Medium**

Direct View Storage CRT

##### **Screen Size**

15 inches (381 mm) wide by 11 inches (279 mm) high

##### **Alphanumeric Mode**

Four program-selectable formats

1. 74 characters per line with 35 lines per display.
2. 81 characters per line with 38 lines per display
3. 121 characters per line with 58 lines per display
4. 133 characters per line with 64 lines per display

##### **Alphanumeric Cursor**

7 x 9 dot pulsating cursor

##### **Character Set**

4014-1/4014—Full ASCII character set (94 printing Characters).

4015-1/4015—Full ASCII and APL character sets (188 total printing Characters).

##### **Vector Mode**

Vector drawing time is 5000 inches per second.

1024(X) by 1024(Y) addressable points (10 bits)

1024(X) by 789(Y) displayable points

##### **Enhanced Graphics Module**

4096(X) by 4096(Y) addressable points (12 bits)

4096(X) by 3120(Y) displayable points

##### **Interactive Graphic Mode**

Thumbwheel controlled crosshair cursor

3 thru 1024 addressable points horizontally

0 thru 780 addressable points vertically

##### **Input Power**

110/220 (Hi, Med, Low) VAC 50 to 400 Hz, 350 W

**Weight.** 150 pounds (68 kg)

##### **Computer Interfaces**

Basic Data Communication Interface included with the 4014 or 4015 is RS-232-C compatible.

Option 1—Optional Data Communication. Interfaces with convenient switch selectable functions including: local-echo, full-duplex, half-duplex,

and independent transmit and receive rates of 110, 150, 300, 600, 1200, 2400, 4800 and 9600 bits/sec.

##### **TTY Port Options**

Six teletype Port Interfaces for use with mini-computers:

021-0074-00 Optional Data Communication Interface (Option 1)

021-0071-00 HP 2100-Series (HP-12531 card) Interface (Option 6)

021-0066-01 DEC PDP-8/e (M8650 card) Interface (Option 17)

021-0067-00 DEC PDP-8/i 1, 12, 15 Interface (Option 3)

021-0068-00 DEC PDP-11 with KL-11 Controller (Option 2)

021-0068-01 DEC PDP-11 with DL-11 Controller and PDP 11/05 (Option 16)

021-0119-01, 2741 Correspondence Code/APL Interface (Option 15)

021-0072-00 Data General Interface (Option 4)

The price is \$330 when interface is ordered as the option at the same time the terminal is ordered. If ordered separately the price is \$660.

##### **Optional accessories**

4911 Reader/Perforator . . . . . \$3,295.

4610, Option 2 Hard Copy Unit 4,295.

4922 Flexible Disc Unit . . . . . 5,750.

4954 Graphic Tablet . . . . . 4,995.

**Software.** Tektronix' superb software support makes your scientific, business or educational programming all the more effective.

#### **Now that you've got the facts, the picture is pretty clear.**

But if you'd like a sales representative to call, he'll show you even more. With a working demonstration of the big screen terminal at your place of business. Contact us:

Tektronix, Inc.  
Information Display Division  
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Beaverton, Oregon 97005  
Telephone: (503) 644-0161 or 292-2611  
Telex: 36-691  
Cable: TEKTRONIX

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All prices, quotations and shipments are FOB Beaverton, Oregon, unless otherwise specified.



# We've got the first low-priced big screen.

**But you haven't seen anything yet.**

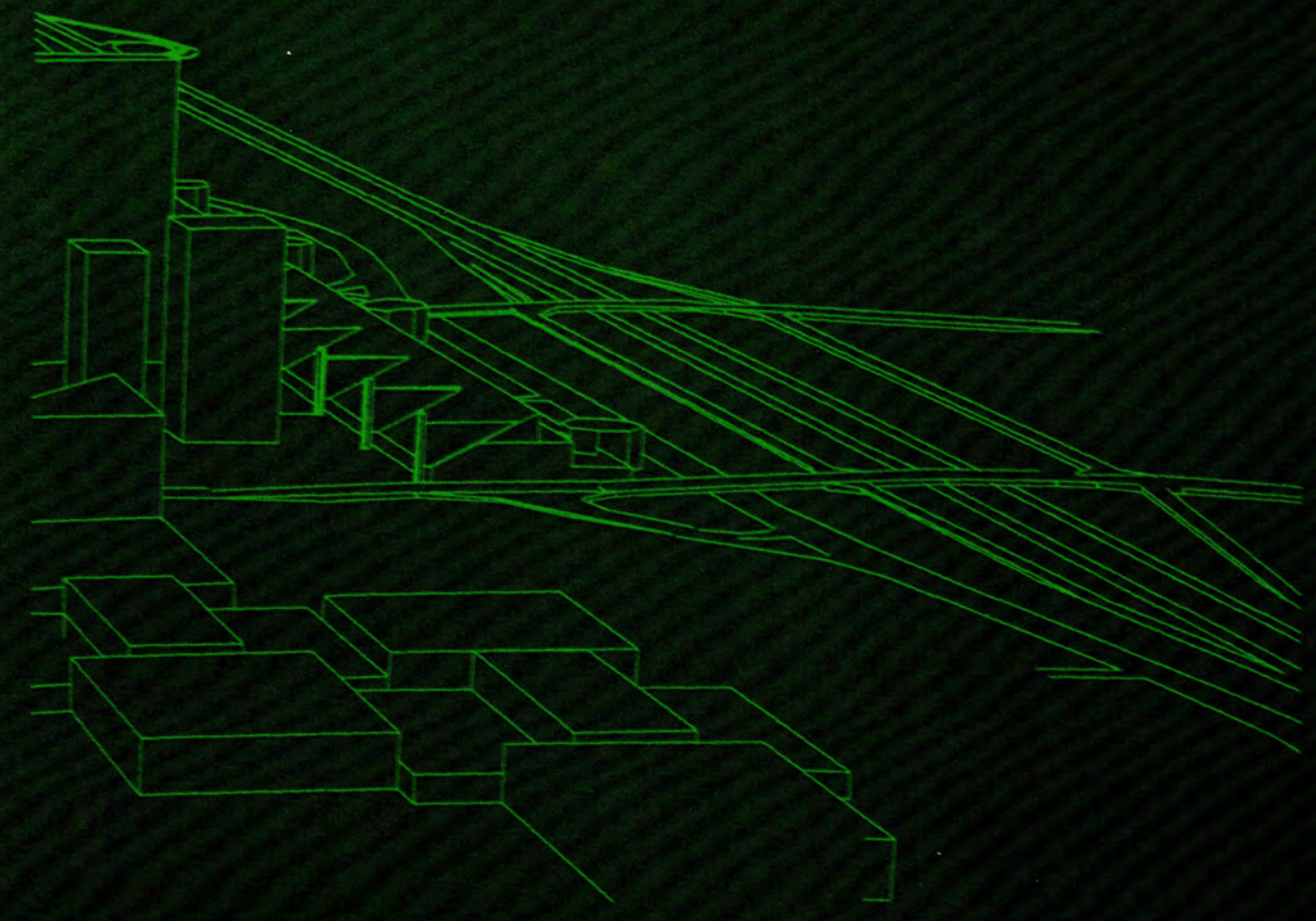
# THE 19" TEKTRONIX 4014-1/4015-1

Think a terminal like this, with our trusted Tektronix software, can add a new dimension to your present potential? You've got the picture. Now get the facts on the back of this brochure.

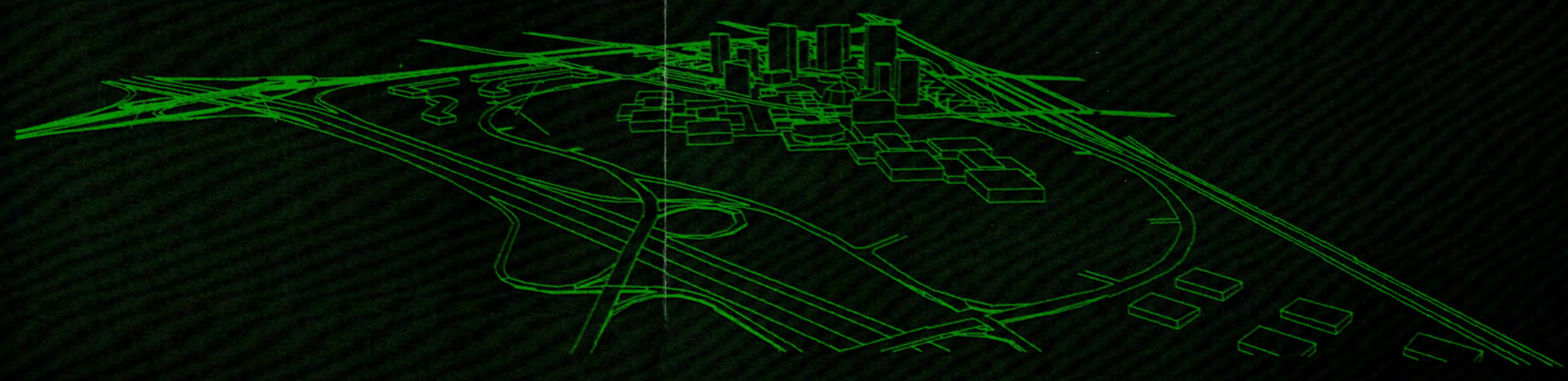
What you see is only part of what you get. The big 19 inch Tektronix terminal now makes picture-perfect computer graphics available to applications never before possible.

- \* GEOPHYSICAL EXPLORATION
- \* PREVIEW PLOTTING
- \* MAPPING
- \* LARGE-SCALE PERSPECTIVES
- \* COMPUTER AIDED DESIGN
- \* ENVIRONMENTAL PLANNING

ACTUAL SCREEN SIZE

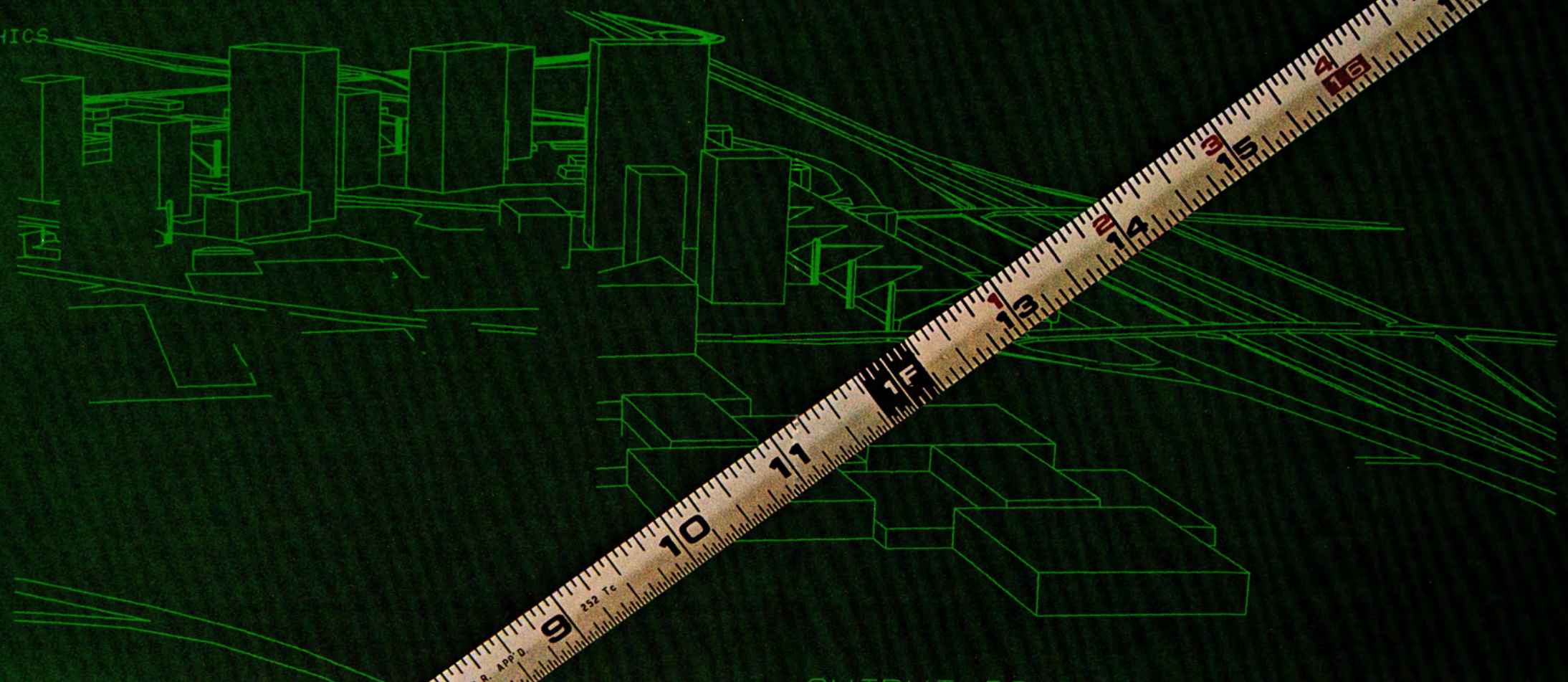


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SAN FRANCISCO, CALIFORNIA



# We're talking about Tektronix' big screen terminal with graphic capability never before possible at \$8995.

- \* BIG SCREEN INTERACTIVE GRAPHICS
- \* 8512 ALPHANUMERIC CHARACTERS
- \* CHOICE OF FOUR DIFFERENT CHARACTER SIZES
- \* HARD COPY CAPABILITY
- \* APL OPTION



...and you still  
haven't seen the  
half of it.