

File: 05K

ODP # 0-334

11 March 1980

MEMORANDUM FOR: Deputy Director of Data Processing
THROUGH: NFAC ADP Control Officer
SUBJECT: Procurement of Tektronix Interactive Buffer

*Ordered
6/13*

1. The Office of Research and Development gave demonstrations to me and analysts in my office of the TACK interactive graphics system developed for ORD by [REDACTED]. I was impressed by the potential applications of TACK to our problems of data presentation. In order to use the TACK system on our TEKTRONIX display terminals, an Interactive Buffer (see attachment) is required. I request acquisition of one Interactive Buffer for the TEKTRONIX terminal model 4015-1 located in OSR/SE/F, Room 2G40.

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2. Coordination of the administrative matters related to acquiring and installing the Interactive Buffer will be handled by [REDACTED].

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1-51
R. M. HUFFSTUTLER
Director
Strategic Research

Attachment
As stated

Approved For Release 2001/08/07 : CIA-RDP83T00573R000300300003-6
SUBJECT: Procurement of Textronix Interactive Buffer

Distribution:

Addressee & 1
1- NFAC ADP Control Officer
1- C/SEC
1- C/SE/F
1- D/OSR
OSR/SE/F: [REDACTED] (7Mar80)

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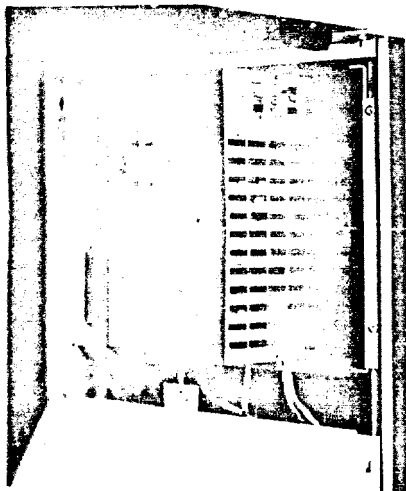
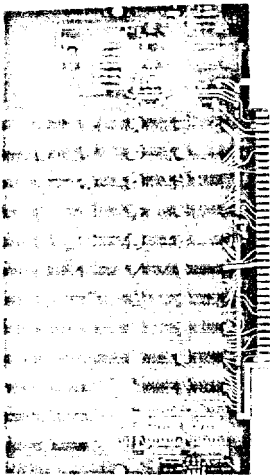
4014/4015

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TEKTRONIX

A Big-Screen Storage Terminal that provides local Interactivity—the Tektronix 4014 or 4015 with Interactive Buffer

Interactive Buffer



Addition of the Interactive Buffer to Tektronix 4014 or 4015 Graphic Computer Terminals produces a combination of big-screen Storage graphics and additional features previously found only in Refresh terminals. The Interactive Buffer provides 1023 bytes of off-screen storage which can be used as a straight buffer capable of storing or refreshing alphanumeric or graphic displays, as a text editor, or in conjunction with thumbwheels or an optional joystick, to provide moveable picture elements.

Buffer Mode Speeds I/O Operation. In situations where a great many I/O commands tend to slow down operations, the normal Buffer operation is a special advantage, since the computer can dump the I/O strings in the Buffer (and display them on screen) much faster than they could be sent to the Terminal one character at a time. During Buffer operation the terminal keyboard is locked. The terminal is suppressed, and characters received from the computer or a connected peripheral are stored in sequential Buffer locations, starting at location zero. The contents of the Buffer can then be displayed on the Terminal screen on either a stored or a non-stored, write-thru mode.

Text Editing Added to Storage Terminals. The Interactive Buffer adds text editing capability to Tektronix storage terminals. In Compose Mode, previously entered or keyboard characters are displayed on the Terminal screen normally beginning at X=0, Y=33, but not sent directly to the computer. The alphanumeric characters can be deleted one at a time from last character position using backspace and new ones written in, or the entire Buffer contents can be erased

and re-written. Once the text is correct to the operator's satisfaction, a carriage return causes the Terminal keyboard to be locked and the contents of the Buffer sent to the computer.

Relocation Graphics Give Terminals new Power and Versatility.

Relocation Mode with the Interactive Buffer increases the graphics power of the Tektronix 4014 or 4015. When Relocation Mode is activated via keyboard rocker switch, Graphic information in the form of a simple pictorial display, or a small part of a larger one is entered in the buffer. It can then be displayed on screen in a non-storing mode and moved to various screen locations by the use of the thumbwheel cursor, or optional 4952 Joystick. Approximately 160 alphanumeric characters or 480 centimeters of graphics can be displayed without flicker. The repositioned display can then be stored and the reference coordinates sent to the computer using the crosshair cursor. Relocation Mode provides a means of editing or composing graphic information without erasing the display and starting over.

Additional Modes for other Terminal Functions. HOLD Mode is entered any time a Hard Copy is commanded. It amounts to a temporary suspension of the non-storing, write-thru Mode during Hard Copy operation or some other special function. STORE Mode locks the Terminal keyboard, and causes the Buffer contents to be sent once to the Terminal screen and stored. NEUTRAL Mode permits

Conventional terminal operation as
through the Buffer were approved for

Simple Operation, Added Terminal Power provided by the Interactive Buffer. The Interactive Buffer adds significantly to the manipulative power of the Tektronix 4014 or 4015 Computer Display Terminals, both graphic and alphanumeric operation. And yet, its functions are commanded simply and easily from the computer, the Terminal keyboard, or a connected peripheral device.

Order Information.

For complete information about ordering and installing the Interactive Buffer in your 4014 or 4015 Terminal, contact your local Tektronix Sales Engineer today.

Specifications

Storage capacity: 1023 characters

Dump rates:

To computer: set by system baud rate

To screen: set by display mode,
alpha store—1000 char/sec,
alpha write-thru—

4000 char/sec,

vectors—approx. 12,000
cm/sec

Refresh rate:

25 times/sec (unless buffer contents take 40 msec to display)

Relocation:

full screen for elements originally located at center screen.

Tektronix, Inc.

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TWX: 910-467-8708
Cable: TEKTRONIX

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Tektronix
COMMITTED TO EXCELLENCE

CPYRGHT

TRANSMITTAL SLIP		DATE
TO: Deputy Director of Data Proc.		
ROOM NO. 2D0105	BUILDING Hqs	
REMARKS: <i>Director of Data Proc.</i> <i>EU ... w/P for ...</i> <i>DD - How much?</i> <i>who pays?</i> <i>Bomey</i> <i>~ 1500 and</i> <i>are pay. of 8</i>		
FROM: C/SEC		[REDACTED]
ROOM NO. 2G40	BUILDING Hqs	

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FORM NO. 241
1 FEB 53

REPLACES FORM 36-8
WHICH MAY BE USED.

(47)

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TO: (Name, office symbol, room number, building, Agency/Post)	Initials	Date
1. D/OSR 3G00 Hqs	<i>[Handwritten initials]</i>	
2.		
3. NFAC ADP Control Officer Rm 2F28 Hqs	<i>DB</i>	<i>3/17/80</i>
4.		
5. Deputy Director of Data Processing Rm 2D0105	<i>95</i>	<i>3/19/80</i>

Action	File	Note and Return
Approval	For Clearance	Per Conversation
As Requested	For Correction	Prepare Reply
Circulate	For Your Information	See Me
Comment	Investigate	Signature
Coordination	Justify	

REMARKS

TO (E):
 Please handle this as a
 tickle - item for DD/P to
 respond to. Give Bruce & me
 a read copy:



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DO NOT use this form as a RECORD of approvals, concurrences, disposals, clearances, a

FROM: (Name, org. symbol, Agency/Post) No. Bldg.
 2G40
 C/SEC

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