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IBM INFOWINDOW 3471 DISPLAY STATION

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[Announcement Letter Number 189-096 dated June 20, 1989](#)

[US - Last Revised on June 20, 1989](#)

Brief Description of Announcement, Charges, and Availability.

InfoWindow (TM) 3471 establishes a new level of price/performance in entry mainframe interactive displays. InfoWindow 3471 is compatible with the IBM 3191 Display Stations Models A and B and offers high quality, superior ergonomics and functions that include Vital Product Data, Variable Auto-Dim and Set-Up Mode. InfoWindow features a choice of Green or Amber-Gold 14-inch flat, smudge resistant screen monochrome monitor, capable of displaying up to 1920 characters. In addition, a choice of keyboards and warranty offerings are provided.

The InfoWindow 3471 may be attached to IBM 43xx, 937x, 470x, 308x, 3090 (TM), System/8100, System/36 (TM), System/38 (TM), and Application System/400 (TM) (AS/400 (TM)).

Purchase Prices:

	1-Year Warranty	3-Year Warranty
InfoWindow 3471	\$1,230	\$1,355

Planned Availability Date: June 30, 1989

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Customer Letter Section

HIGHLIGHTS

- o Improved Network Asset Management via prerecorded Vital Product Data
- o Choice of keyboards with flexible cabling
- o Improved ergonomics and improved ease-of-use

- o Choice of amber-gold or green 14-inch flat screen monitors
- o Compact, aesthetic two element design
- o One or three year Warranty with IBM On-Site Exchange

DESCRIPTION

- o Functions
 - Vital Product Data
 - The 3471 will transmit to an IBM 3174 Subsystem Control Unit, Vital Product Data.
 - This feature allows the terminal to identify itself by sending to the 3174 unique machine identification information, including the machine type, model number and the serial number assigned to it during the manufacturing process
 - The user may assign their own serial number during Set-up mode
- o Screen Characteristics
 - 1920 Characters (80 x 24) plus Operator Information Area
 - 21% larger screens (Viewable area is 235 X 170 mm)
 - 13% larger characters (height 3.39 mm)
 - 720 X 402 Picture Elements
 - Non-glare, 14-inch Green or Amber-Gold Monochrome Monitor
- o Modifiable Keyboards
 - 122-Key Typewriter Keyboard
 - IBM Enhanced Keyboard (102-Key)
 - 104-Key Typewriter Keyboard
 - 104-Key Data Entry Keyboard
 - Coiled keyboard cable
 - Home row indicator keys
 - Horizontal Cursor speed of 20 cps
- o Ergonomics
 - Small, light weight video unit
 - Tilt/Swivel stand
 - Small footprint
 - Low-profile keyboards
 - 12% smaller keyboards
 - Reduced power consumption

GENERAL INFORMATION

The 3471 is used for displaying alphanumeric data and for entering

data into, and receiving data from, the following systems:

SYSTEM	VIA ATTACHMENT
43xx	3174,3274 Type A Adapter
937x	3174,3274 Type A Adapter
308x	3174,3274 Type A Adapter
3090	3174,3274 Type A Adapter
8100	3174,3274 Type A Adapter
System/36	3174,3274 Type A Adapter
System/38	3174,3274 Type A Adapter
AS/400	3174,3274 Type A Adapter
470x	Cluster Adapter
937x	Workstation Subsystem Controller
43x1	Workstation Adapter or Display Printer Adapter (where applicable)

The 3471 consists of the following workstation elements:

	EAX	EGX
Video 14-inch Amber-Gold	X	
Video 14-inch Green		X
Keyboard *	X	X
Tilt/Swivel Stand	X	X
Power Cord	X	X
Shipping Group	X	X

* One of the following keyboards are selectable by specify code:

	SPECIFY CODE
122-Key Typewriter Keyboard	9122
IBM Enhanced Keyboard (102-Key)	9131
104-Key Typewriter Keyboard (English only)	9104
104-Key Data Entry Keyboard (English only)	9156

A typewriter style modifiable keyboard, with either 102 keys on the IBM Enhanced Keyboard or 122 keys on the Typewriter Keyboard, provides 24 program function keys, a numeric pad and cursor-move keys.

Also available is the 104-Key Typewriter Keyboard (no numeric pad).

A keyboard definition utility is supported in the 3174 to allow definition of customer-specific keyboard layouts.

PA3 key function is supported.

The Response Time Monitor, Alert capability and Entry Assist are supported on the 3174 and 3274 with Configuration Support D.

Adjustable Audible Alarm, Variable Auto-Dim and Security Keylock are standard. Security key is removable in both LOCK and UNLOCK position.

Tilt/Swivel stand, provided as standard, provides 19.4 (degs) of tilt (plus 15 (degs) to minus 4.4 (degs)) and 180 (degs) of swivel (plus or minus 90 (degs) from the center position) to enable the display to be individually positioned.

PUBLICATIONS

The IBM 3471 DISPLAY STATION USER'S GUIDE (GA18-2969) is shipped with the product and includes the Set-up Instructions and Problem Solving Guide.

Additional copies are available. To order, contact your IBM representative.

The following publications are available immediately. To order, contact your IBM representative.

TITLE	ORDER NUMBER
IBM 3471 Display Station Introduction and Installation Planning Guide	GA18-2942
IBM 3471 Display Station User's Guide	GA18-2969
IBM 3471 and 3476 Display Repair Center Information Manual	SY18-2281

SLSS is available by order number only. Customers currently subscribing to SLSS will receive publication updates automatically.

SCHEDULE

The planned availability date is June 30, 1989.

TECHNICAL INFORMATION

SPECIFIED OPERATING ENVIRONMENT

PHYSICAL SPECIFICATIONS

- o Monitor
 - Width -- 333mm (13.1 inches)
 - Depth -- 324mm (12.8 inches)
 - Height -- 360mm (14.2 inches)
 - Weight -- 9.5kg (20.9 pounds)
- o 122-Key Typewriter Keyboard
 - Width -- 533mm (20.9 inches)
 - Depth -- 215mm (8.5 inches)
 - Height -- 64mm (2.5 inches) (Home Row: 30mm)
 - Weight -- 2.5kg (5.5 pounds)
- o 104-Key Typewriter Keyboard
 - Width -- 419mm (16.5 inches)
 - Depth -- 204mm (8.0 inches)
 - Height -- 59mm (2.3 inches) (Home Row: 30mm)
 - Weight -- 1.8kg (4.0 pounds)
- o IBM Enhanced Keyboard
 - Width -- 488mm (19.2 inches)
 - Depth -- 210mm (8.3 inches)
 - Height -- 40mm (1.6 inches) (Home Row: 30mm)
 - Weight -- 2.3kg (5.0 pounds)
- o Size of Shipping Package (Over Pack)
 - Width -- 696mm (27.4 inches)
 - Depth -- 508mm (20.0 inches)
 - Height -- 762mm (30.0 inches)
 - Weight -- 17.2kg (37.4 pounds)

OPERATING ENVIRONMENT

- o Temperature -- 10.0 to 40.6 (degs)C (50 to 105 (degs) F)
- o Relative Humidity -- 8 to 80%
- o Wet Bulb -- 26.7 (degs)C (80 (degs)F).

MACHINE REQUIREMENTS: Power ratings and line cord:

Power -- 35 watts, 100 -- 127 VAC, single-phase, 3-wire, 60Hz.

A 2.8 meter (9.0-foot) line cord with non-locking plug is available as standard. Operating environment of configurable I/O units are different.

The 3471 may be attached to IBM 43xx, 937x, 308x, 470x, 3090, System/8100, System/36, System/38 and AS/400. Refer to DESCRIPTION section for more information. Attachment is by the same type of

coaxial cable as is used to attach an IBM 3191, 3192, 3178, 3179-1, 3180-1, 3278, or 3279. Attachment may also be made by twisted pair cable and appropriate balun or connector that has been approved for display attachment. Refer to CABLE ORDERS section.

PROGRAMMING REQUIREMENTS: The 3471 is datastream compatible with the 3191 Model A or B. All host programs, which operate with the 3191 Model A or B, will operate with the 3471 in exactly the same way.

COMPATIBILITY: Host Applications: The new 3471 is datastream compatible with today's 3191 Model A or B Displays in alphanumeric application environments.

The 3471 will accept IBM 3270 datastreams and will run existing alphanumeric applications unmodified (in their current screen size). No programming changes are required of current alphanumeric applications unless hardware functions (not available with the 3471, for example, magnetic stripe readers, or unsupported screen sizes) are required.

LIMITATIONS

o The following are not available:

- RPQs
- Model conversions
- Video output
- A printer port
- Bar Code Reader support (7494-260 via RPQ 8X2260)
- Magnetic Stripe Reader support (7494-260 via RPQ 8X2260)
- 3174 Release A4 or earlier does not allow VPD for Network support.

o The following items should be taken into consideration when selecting the 3471 keyboard:

- 122-Key or 104-Key Keyboard:
 - Available in Native or Emulation Mode
 - If keyboard is to be modified, the 3174 (any level) or 3274, Configuration Support D Release Level 63 or later is required.
- 102-Key Enhanced Keyboard:
 - Available in Native Mode only
 - Requires an IBM 3174 or Configuration Support D Release Level 65 on IBM 3274 with no-charge RPQ #7L0825

- If keyboard is to be modified, the IBM 3174 Release Level 2 is required.

PREREQUISITES:

- o In Emulation Mode, the 3471 with the 122-Key Typewriter Keyboard (#9122) or with the 104-Key Typewriter Keyboard (#9104) must be attached to one of the following:
 - IBM 3174 Models 1L, 1R, 2R, 3R, 51R, 52R, 53R, 81R, 82R, 11L, 11R, 12R, 13R, 61R, 62R, 63R, 91R, and 92R
 - IBM 3274, Control Unit Models 1A, 1B, 1C, 1D, 21A, 21B, 21C, 21D, 31A, 31C, 31D, 41A, 41C, 41D, 51C, or 61C
 - Configuration Support A: Microcode Release Level 15, or later
 - Configuration Support B: Microcode Release Level 26, or later
 - Configuration Support C: Microcode Release Level 47, or later
 - Configuration Support D: Microcode Release Level 61, or later
 - Configuration Support P: Any microcode Release Level
 - Configuration Support T: Microcode Release Level 31, or later.
 - 937X (Workstation Subsystem Controller).
 - 43X1 (Workstation Adapter or Display Printer Adapter, where applicable).
- o In Native Mode, the 3471 with the 122/104-Key Typewriter and 104-Key Data Entry Keyboards (#9122, #9104, or #9156) must be attached to an 3274 Control Unit with Configuration Support D -- Microcode Release 63 or later. This level of support is also required for changing the layout of the 104 or 122-Key Typewriter Keyboard.
- o The 3471 with IBM Enhanced Keyboard (#9131) in Native Mode only, must be attached to a 3274 Control Unit (with Configuration Support D -- Microcode Release 65 or later and 3274 RPQ #7L0825).
- o The 3471 with IBM Enhanced Keyboard (#9131) operates in Native Mode only with the 3174 Establishment Controller.
- o The 3471 operates in Native Mode with the 3174 Establishment Controller.

PLANNING INFORMATION

CUSTOMER RESPONSIBILITIES: Planning is the responsibility of the customer. The customer should have on hand, or should order the IBM 3471 INTRODUCTION AND INSTALLATION PLANNING GUIDE (GA18-2969) for site planning and preparation work since it is not shipped with the machine.

The customer is also responsible for:

- o Adequate site, system and other vendor preparation.
- o Receipt at customer's receiving dock, unpacking and placement of the unit.
- o Physical setup, connection of cables in customer access area, switch settings and checkout.
- o Contacting IBM service for attachment of the 3471 communications cable to an on-site serviced IBM control unit where customer access area is not provided. This service will be provided at current hourly rates.
- o Determination of the required number of spares.

The number of spare units is dependent upon the number of the 3471 units the customer has installed, the application requirements, physical locations and layout.

The customer should be advised to test spares for correct operation before putting them on the shelf. Spares can be ordered as a complete machine or as individual elements.

- o All keyboard modifications. Customers must remove and save customer-owned keycaps prior to returning a keyboard for exchange. A standard layout keyboard will be given to the customer.
- o Returning security keys to IBM if any exchange of a video workstation element is required. (If the keys are not returned to IBM, the customer will be charged for the replacement of the security keys and locks on a time and material basis).

CABLE ORDERS: Attachment to the 3471 is via IBM shielded twisted pair, coaxial cable, or IBM approved unshielded twisted pair cable. Refer to the IBM/ROLM 3270 COAX-TO-TWISTED-PAIR ADAPTER manual (GA27-3722), and 3270 INFORMATION DISPLAY SYSTEM, SITE PLANNING MANUAL (GA23-0213), for proper identification, installation and application of cable and associated accessories. For pricing and ordering information, refer to the appropriate IBM Direct catalog.

COAXIAL CABLE: For proper identification, installation and

application of cable and associated accessories, refer to IBM 3270 INSTALLATION MANUAL – PHYSICAL PLANNING (GA27–2787).

INSTALLABILITY: The 3471 is a Customer Setup (CSU) machine. Setup instructions are included with each machine in the IBM 3471 USER'S GUIDE (GA18–2969).

MODEL CONVERSIONS: Model conversions are not available.

PACKAGING: The InfoWindow 3471 is shipped in a single shipping carton. The 3471 USER'S GUIDE (GA18–2969) and two (2) keyboard overlays (122–Key and 102–KEY) are included in the packaging for setup purposes.

KEYS: The 3471 is shipped with two security keys. If keys are lost, the video element should be sent to IBM Service/Exchange Communication Center. This service is available on an hourly service basis. Most locksmiths and/or hardware stores can provide additional or replacement keys.

ACCESSORIES AND/OR SUPPLIES: Accessories can be purchased from IBM Authorized Supplies Dealers, IBM Authorized Distributors or from IBM Direct Response Operations (DRO). End users may call IBM DRO at 800 IBM–2468. Mail orders should be sent to:

IBM Corporation
IBM Telemarketing Operations
One Culver Road
Dayton, NJ 08810

SECURITY, AUDITABILITY AND CONTROL

Data security functions provided by the 3471 is non–displayed field control (specified in the attribute byte) and the security keylock. User management is responsible for implementation of these functions.

NOTE: If sensitive data is sent over external communications facilities, user management may wish to pursue the application of cryptography. For more information on data security controls, refer to DATA SECURITY CONTROLS AND PROCEDURES (G320–5649).

User management is responsible for evaluation, selection and implementation of security features, administrative procedures and appropriate controls in application systems and communications facilities.

TERMS AND CONDITIONS

VOLUME PURCHASE DISCOUNT: Volume purchasing is available under the

Volume Procurement Amendment (VPA) to Agreement for Purchase of IBM Machines. The 3471 is included in Category A-Discout Group 2 of the Workstations and Related I/O VPA Exhibit (WKS-34). Customers with an existing VPA commitment may order the announced product(s) as additional quantities to, or as direct substitutes for, any other machines in the same category subject to availability.

For further information regarding volume orders, contact your IBM marketing representative.

IBM CREDIT CORPORATION FINANCING: Term leases and installment

payment plans are available for commercial, state and local government customers.

ELIGIBLE MACHINE UNDER ALTERNATIVE CERTIFICATION FOR IBM MACHINES:

Yes.

WARRANTY PERIOD: One or three years.

WARRANTY SERVICE: IBM On-Site Exchange (IOE).

IBM MAINTENANCE AGREEMENT: IBM On-Site Exchange (IOE).

IBM HOURLY SERVICE RATE CLASSIFICATION: One.

IBM Warranty Service, Maintenance Service or IBM Hourly Service may be obtained by calling 800 IBM-SERV. IBM Hourly Service is available at the applicable rate and terms, including element exchange price if applicable.

MID-RANGE SYSTEM AMENDMENT: The 3471 is an eligible machine for the Mid-Range System Amendment to the IBM Maintenance Agreement. A revised exhibit will be available at a later date.

ELIGIBLE TYPES	DISCOUNT PERCENT	
	THREE YEAR	FIVE YEAR
InfoWindow 3471	17%	22%

CORPORATE SERVICE AMENDMENT: The 3471 is an eligible machine for the Corporate Service Amendment to the IBM Maintenance Agreement. A revised exhibit will be available at a later date.

OPTION	DISCOUNT PERCENT	
	THREE YEAR	FIVE YEAR
Network	25%	30%

EXTENDED MAINTENANCE OPTION: The 3471 is an eligible machine for the Extended Maintenance Option Amendment to the IBM Maintenance Agreement. A revised exhibit will be available at a later date.

PRODUCT AVAILABILITY STATUS: New product available.

CUSTOMER SETUP: Customer setup allowance is one day. IBM setup is available at the applicable IBM Hourly Service rate and terms.

LICENSED INTERNAL CODE: No.

EDUCATIONAL ALLOWANCE A 15% educational allowance is available to qualifying institutions in accordance with the Educational Allowance Amendment. The educational allowance may not be added to any other discount or allowance.

CHARGES

PRODUCT CHARGES:

DESCRIPTION	MACHINE TYPE	1-YEAR WARRANTY MODEL NUMBER	PURCHASE PRICE	ANNUAL MINIMUM MAINTENANCE CHARGE (IOE)
InfoWindow	3471	EA1	\$1,230	\$70
InfoWindow	3471	EG1	1,230	70

DESCRIPTION	MACHINE TYPE	3-YEAR WARRANTY MODEL NUMBER	PURCHASE PRICE	ANNUAL MINIMUM MAINTENANCE CHARGE (IOE)
InfoWindow	3471	EA3	\$1,355	\$70
InfoWindow	3471	EG3	1,355	70

NOTE: For products to be installed in Chicago, specify no-charge (with initial order) feature #9986 for a six-foot power cord (P/N 6952298).

MACHINE ELEMENT CHARGES

DESCRIPTION	PART NUMBER REFERENCE	PURCHASE PRICE
Video-Amber-Gold	23F3821	\$905
Video-Green	23F3820	905
122-Key Typewriter Keyboard	1394801	295
104-Key Typewriter Keyboard	09F4230	295
IBM Enhanced Keyboard	1394802	295
104-Key Data Entry Keyboard	09F4231	295

Power Cord	6952297	10
Power Cord -- Chicago six foot	6952298	10
Tilt/Swivel Stand	81X4450	20

ACCESSORY

DESCRIPTION	PART NUMBER REFERENCE	PRICE
Clear Lens Keycaps (60) Paper Inserts (60/60) and Tool (1B)	73X3878	\$55
Clear Lens Keycaps (60) Paper Inserts (60/60) and Tool (1AG)	6341707	\$50

NOTE:

- (1A) -- 122 Typewriter Keyboard
- (1B) -- 104 Typewriter Keyboard
- (G) -- IBM Enhanced Keyboard

PUBLICATION CHARGES

TITLE	ORDER NUMBER	CHARGE
IBM 3471 Display Station Introduction and Installation Planning Guide	GA18-2942	\$4.15
IBM 3471 Display Station User's Guide	GA18-2969	11.00
IBM 3471 and 3476 Display Repair Center Information Manual	SY18-2281	6.35