2078

The Memorex 2078 Display Station

Highlights

Easier for you

We designed the Memorex® 2078 Display Station for the people who use it: real people like bankers, inventory clerks, insurance salespersons, computer programmers and warehouse workers.

The 2078 functions in bisyncronous or SNA/SDLC environments and is, in fact, interchangeable with the IBM 3278. Our display station, however, is a lot easier to use.

Why easier?

Because the monitor tilts, you don't have to. It adjusts 30 degrees up and 15 degrees down from the horizontal position.

Because the monitor can be taken off its stand. Place it on a shelf, a countertop, anywhere you need it. Its optional 10-foot keyboard cable lets you further separate the keyboard from the monitor.

Because it is compact, lightweight and easy to move around. It weighs only 55 pounds.

Because the screen has a non-glare filter which reduces eye strain from overhead lighting plus resists fingerprints. Keytops and moldings also are non-reflective.

Because it has a line and column indicator, so you know where the cursor is at all times.

Because it requires 58 percent less energy than its largest competitor, the 2078 generates less heat. This makes the 2078 more comfortable to work with, extends the life of internal components and reduces air conditioning requirements. Realizing significant savings on energy bills also makes our display station easier on your budget.

Users may enter and retrieve data to and from an IBM System/360, System/370, 303X and 43XX Processors. The 2078 must be connected to a Memorex 2076 Remote Cluster Controller, IBM 3274 or 3276 Control Units, or to the display/printer adapter of a 43XX Processor. When attached to an IBM 3274 or 3276 Control Unit, the 2078 may communicate to any CPU compatible with those devices.

Standards as high as yours

The beauty of the 2078 is more than skin deep. Yes, our contoured lines and low profile keyboard attractively compliment any decor. Yes, the overall depth of the keyboard and monitor with stand is only 24 inches. Yes, installation by the customer is simplified because all cable connections are conveniently accessible from the rear. But really, with the 2078, it is what's inside that counts.

Turn it on. Our non-glare filter enhances the contrast ratio of the screen for high resolution and crisp, clean characters.

Leave it alone, for approximately 20 minutes. The image automatically dims to help prevent screen burn, reduce energy consumption, and extend the life of the CRT.

Touch any key. The image is instantly restored.

Flip open the Access Panel. Controls are tucked inside within reach but secure from someone accidentally changing your settings. There are three switches: Normal/Test, Upper and Lower Case, and Mark Unprotected Field. The three knobs control brightness, contrast and the volume of the audible alarm, if the alarm is installed.

Choose between block or underscore cursor, blinking and non-blinking cursor and keyboard click or no click. All of these features are activated from the keyboard.

Operate it, work with it, enjoy it. The 2078 gives you complete editing capabilities; typamatic keys that repeat as they are held depressed; program function and program access keys and many other features to simplify operation.

Features like N-Key Rollover, which allows the typist to input faster than the image appears on the screen; Non-Display Mode, which allows blanking-out selected fields of data under program control, and Cursor Select, which is a built-in alternative to the selector light pen, all add to the ease and flexibility of the 2078.

So our display station is easy to use, handsomely designed, and convenient from the inside out.

Optional Features

Optional Features

Flexible because your needs are flexible

The Extended Character Set (ECS) allows you to call special attention to selected fields of data such as words, numerals, phrases, sentences, columns, or paragraphs. It provides for reverse video, blinking and underscore of these characters or fields, and helps operators instantly identify and distinguish between different sources, fields and types of data. ECS also effectively indicates error or exception conditions.

In addition to its extended highlighting capabilities, ECS is a prerequisite that provides the additional control and buffering necessary for the character and field attributes required for APL/Text and Programmed Symbols.

An APL/Text capability allows the 2078 to display the 222-character APL/Text character set and supports computers running APL software.

This feature operates in EBCDIC mode and requires an appropriate APL or Text keyboard and specific controller support. It is available on Models 2, 3 and 4.

Graphics are made possible with the **Programmed Symbols** (PS) option. PS allows you to access up to six 190 symbol sets whose shapes and codes are defined by you.

Symbol sets are loaded under program control and are accessed for display through programming or by the operator from the keyboard.

With a PS feature installed, you may form any shape you desire within each character cell, whether it be graphics or special characters.

The utility of graphics today is migrating beyond more traditional scientific and engineering applications into the business world due to its ability to provide for quicker comprehension of data, easier decision making and increased productivity.

Data condensed and illustrated in graphic form helps you immediately recognize and understand relationships which, if presented in text, could take hours to decipher.

If a PS feature is used to form alphanumeric characters, you may define foreign language alphabets, mathematical and scientific signs and symbols and format special fonts.

Audible alarm sounds under program control and when a character is entered in the next-to-last position on the screen. You may regulate the volume.

Mark unprotected field indicator displays a dot in each position of an unprotected field so you can easily identify the field size. These dots are not transmitted to the CPU and are replaced by characters as you enter data. This is controlled by a switch in the control panel.

Alternate coaxial switch allows you to shift the control of your display station between two controllers.

Extended keyboard cable lets you place the monitor up to 10 feet away from the keyboard.

Keyboard numeric lock prevents you from entering non-numeric key data (other than 0 through 9, minus, decimal or DUP) when you are working in a numeric-only field.

Security keylock prevents anyone from modifying or displaying data when the key is in the "off" position.

Selector light pen is a hand-held, wand-like pen which allows you to input to the computer selected fields of data, as defined by your application program.

2078 Display Station Specifications

Display Format
Model 1 960 Characters (12 eighty-character lines)
Model 2 1920 Characters (24 eighty-character lines)
Model 3 2560 Characters (32 eighty-character lines)
Model 4 3440 Characters (43 eighty-character lines)
Model 5 3564 Characters (27 one hundred thirty-two character lines)

Display Size
20 cm (8 in.) High, 25 cm (10 in.) Wide ±.25 cm (.10 in.)

CRT Size
38 cm (15 in.) Diagonal

Character Type
Characters are displayed within the following dot matrixes:
Models 2 and 3 9x16
Models 4 and 5 9x12

Character Set
Both EBCDIC and ASCII character sets consist of upper and lower case alpha, numeric plus 29 special characters. The APL/Text character set consists of 94 EBCDIC, 81 APL-unique, 37 text-unique and 10 graphic plot characters.

System Interface
The 2078 attaches via Memorex 2076 Remote Cluster Controller, IBM 3274 Control Unit Models 1A, 1B, 1C, 1D, 21A, 21B, 21C, 21D, 31A, 31C, 31D, 51C, IBM 3276 (with equivalent or higher models or via display/printer adapter to an IBM 4331 Processor).

APL/Text requires an IBM 3274 Model 1A, 1C, 1D, 21A, 21C, 21D, 31A, 31C, 31D or 51C customized to include the APL/Text control function or an IBM 3276 with the prerequisite of an APL/Text Control feature.

Extended Character Set and Programmed Symbols are supported on an IBM 3274 Models 1A, 1C, 1D, 31A, 31C, 31D and 51C. For ECS, the Structured Field and Attribute Processing option of Configuration Support C is required on the 3274. For PS, the Programmed Symbols option of 3274 Configuration Support C is required.

Memorex Corporation

Communications Group
18922 Forge Drive
Cupertino, California 95014
(408) 996-9000

Memorex International Ltd.

Hounslow House
730 London Road
Hounslow
Middlesex, England TW3 1PD
011-44-1-5727391

EPG 146-4 5/82 PRINTED IN U.S.A.

Keyboards
75-Key EBCDIC Typewriter
75-Key ASCII Typewriter
75-Key EBCDIC Data Entry
87-Key EBCDIC Typewriter
87-Key EBCDIC Typewriter—10-Key Numeric Pad
75-Key or 87-Key EBCDIC or ASCII Typewriter—Modified PF Functions and Alternate Key
87-Key EBCDIC Typewriter—IBM RPQ 8K0808 Compatible
87-Key ASCII Typewriter
87-Key EBCDIC Typewriter/Text
87-Key EBCDIC Typewriter/APL
87-Key EBCDIC Attribute Select Typewriter
87-Key EBCDIC Attribute Select Typewriter/APL
87-Key EBCDIC Typewriter Overlay

Physical Dimensions
Monitor
Depth: 37 cm (15 in.)
Width: 44 cm (17 in.)
Height: 48 cm (19 in.) with stand

Keyboard
Depth: 23 cm (9 in.)
Width: 50 cm (20 in.)
Height: 7 cm (2.8 in.)

Cabinet
White textured finish with black accents.

Power
117 VAC, 60 Hz, Single Phase .065 kVA
230 VAC, 50 Hz

Weight
Monitor w/stand 21 kg (46 lb.)
Keyboard 3.6 kg (8 lb.)

Operating Environment

Ambient Temperature
10° to 43°C (50° to 110°F)

Ambient Relative Humidity
10% to 90%

Heat Dissipation
Typical 52 Kcal/h (205 BTU/h)
Maximum 65 Kcal/h (256 BTU/h)

MEMOREX
A Burroughs Company