

IBM 7574 Industrial Graphics Display

The IBM 7574 Industrial Graphics Display is designed for industrial plant floor environments, where a display resistant to harsh physical conditions is required. When used with the appropriate IBM Display Adapter support on an attached IBM 7537, 7546, or 7568 Industrial Computer, it provides an improved level of color graphics for users of those IBM Industrial Computer systems.

The IBM 7574 is a 19-inch multiple synchronous ISO-capable industrial display. It replaces the IBM 7554 Display.

The monitor has a Power Management energy conservation function that provides for four power levels (On, Off, Standby, and Suspend) under external software control, and meets the EPA "Energy Star" requirements.

The 7574 supports many high-resolution display modes: VGA, SVGA, XGA®, XGA-NI, Atlas, and S3.

The monitor unit will be packaged for a table-top configuration. An EIA 19-inch rack-mounting kit is available as an option.

All models will have an Anti-Glare/Anti-Static (AG/AS) coating on the CRT.

The monitor is designed to facilitate attachment of the IBM 7554/7574 TouchSelect™ touch panel.

The IBM 7574 is intended for use in the following applications and environments: plant floor (CIM), kiosk, burglary and fire prevention, and general office environment.

Price: \$3,080

Planned Availability Date: March 3, 1994

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IN BRIEF . . .

- ◆ 19-inch viewing area
- ◆ Shadow Grey exterior
- ◆ Anti-Glare/Anti-Static (AG/AS) coating on the CRT
- ◆ ISO 9241 Part 3 capable (Front of Screen Quality/Health)
- ◆ 0.31-mm dot pitch
- ◆ Multiple resolutions and refresh rates: VGA, SVGA, XGA, XGA-NI, Atlas, and S3 graphic modes
- ◆ Multiple synchronous: vertical 55-110 Hz, horizontal 30-70 KHz
- ◆ Picture adjustments (all digital controls):
 - Brightness
 - Contrast
 - Size
 - Position: north/south and east/west
 - Color saturation
 - Geometric distortion
- ◆ Auto-ranging power supply
- ◆ Power Management energy conservation function that provides four power levels (On, Off, Standby, and Suspend) under external software control
- ◆ Compliance with EPA "Energy Star" requirements
- ◆ Bench-top and rack-mount configurations

Description

Business Solutions

The microprocessor-controlled multifrequency operation of the IBM 7574 Industrial Display enables attachment to many IBM PC systems. Users can migrate from VGA through SVGA to XGA systems, or use increasingly sophisticated applications, without any immediate need to replace the 7574. The 7574 supports many high-resolution display modes: VGA, SVGA, XGA, XGA-NI, Atlas, and S3.

Systems Management

The monitor has a Power Management energy conservation function that provides for four power levels (On, Off, Standby, and Suspend) under external software control. The IBM 7574 meets the EPA "Energy Star" requirements.

Open Enterprise

The 7574 complies with the following standards:

- United States/FCC: U.S. Title 47 Code of Federal Regulation, Part 15, Class A Limits
- Germany/VDE: Individual Operating Permit (IOP) Requirements of VDE 0871 Part 20
- Japan/VCCI: Japanese Voluntary Control Council for Interference (VCCI) Class 1 Limits
- CISPR 22: Class A requirements of CISPR Publication 22 (1985) for the European Community countries, the Nordic countries, and New Zealand
- Underwriters Laboratory Listing: Listed according to UL 1950
- Canadian Standards Association Approval; CSA C22.2 No. 950
- D.H.H.S. (USA); Approval obtained using IECEE/CB scheme
- IEC and VDE Compliance: Certified to IEC950 (as class 1), EN60 950:1988, VDE 0806, and IEC 950 Appendix C
- SEMKO/NEMKO/DEMKO/EIF: SEMKO — Sweden / NEMKO — Norway / DEMKO — Denmark / EIF — Finland; Complies with the requirements of the Nordic deviations to IEC 950, as outlined in document EMKO-TUE(74)DK 202-85; Approval obtained using IECEE/CB scheme
- SASO/SEV/OVE/Spanish Decree: Royal Spanish Decree No. 1250
- IEC Standard Compliance:
 - Shock (IEC 68-2-27) — 30G for 3 milliseconds duration (1/2 sine wave)
 - Vibration (IEC 68-2-6) — Random: 0.27G RMS from 5 Hz to 500 Hz
 - Electromagnetic compatibility:
 - Electrostatic discharge (IEC 801-2/EN55101-2) Level 3, 6 KV
 - Radiated electrical susceptibility (IEC 801-3/EN55101-3) Level 3, 10 V/m
 - Fast transients/bursts (IEC 801-4) Level 3, 2 KV

- Power line surges (IEC 801-5) Level 3, 1 KV
- Conducted immunity (IEC 801-6/EN55022) Level 2
- Power line harmonics (IEC 555-2/EN60555)
- Environment (IEC 529) IP50 (can be increased by using an appropriate rack or enclosure)
- ISO 9241-3 capable

Publications

The *Installation and Operation Guide* (order number S61G-1700, part number 61G1700) is shipped with the product. Additional copies will be available through PUBORDER.

Technical Information

Specified Operating Environment

Physical Specifications:

- Width: 450 mm (17.7 inches)
- Depth: 480 mm (18.9 inches)
- Height: 400 mm (15.75 inches)
- Weight: 31 kg (68.3 pounds)

Operating Environment:

- Vibration, Operating: This product meets the requirements of Class V3.
- Temperature/Humidity:
 - Operating ambient
 - Temperature: 0° to 50°C
 - Relative humidity: 5% to 95%
 - Storage ambient
 - Temperature: 0° to 60°C
 - Relative humidity: 5% to 95%
 - Shipping ambient
 - Temperature: -40° to 60°C
 - Relative humidity: 5% to 100% (including condensation, excluding rain)

Altitude may range from sea level to 2,134 m (7,000 ft) above sea level.

- Particulates: This product is required to operate in a "P1-Extended" environment without being degraded in performance. This environment consists of the following contamination levels:
 - Suspended particulates: 500 micrograms/meter cubed
 - Benzene-soluble organics: 30 micrograms/meter cubed
 - Settleable particulates: 1,500 micrograms/centimeter squared/30 days
- Gases: This product will operate in a G1 environment without degradation in performance. This environment consists of the following contamination levels:

- Total reactive sulfur: 3.2 micrograms/meter cubed. This includes elemental sulfur vapor of up to 2.1 micrograms/meter cubed.
- Sulfur dioxide: 100 micrograms/meter cubed.
- Nitrogen dioxide: 140 micrograms/meter cubed.
- Acidic gaseous chlorine: 1.5 micrograms/meter cubed. Acidic gaseous chlorine is the quantity of elemental chlorine expressed in micrograms/meter cubed in chlorine-containing acidic gases (such as HCl, Cl₂, ClO₂).
- Ozone: 98 micrograms/meter cubed.

These upper limits are expressed as arithmetic mean values (averaged over one year) in micrograms per cubic meter and ppb by volume.

- Equipment Approvals and Certifications:
 - United States/FCC: U.S. Title 47 Code of Federal Regulation, Part 15, Class A Limits
 - Germany/VDE: Individual Operating Permit (IOP) Requirements of VDE 0871 Part 20
 - Japan/VCCI: Japanese Voluntary Control Council for Interference (VCCI) Class 1 Limits
 - CISPR 22: Class A requirements of CISPR Publication 22 (1985) for the European Community countries, the Nordic countries, and New Zealand
 - Underwriters Laboratory Listing: Listed according to UL 1950
 - Canadian Standards Association Approval; CSA C22.2 No. 950
 - D.H.H.S. (USA); Approval obtained using IECEE/CB scheme
 - IEC and VDE Compliance: Certified to IEC950 (as class 1), EN60 950:1988, VDE 0806, and IEC 950 Appendix C
 - SEMKO/NEMKO/DEMKO/EIF: SEMKO — Sweden / NEMKO — Norway / DEMKO — Denmark / EIF — Finland; Complies with the requirements of the Nordic deviations to IEC 950, as outlined in document EMKO-TUE(74)DK 202-85; Approval obtained using IECEE/CB scheme
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 - IEC Standard Compliance:
 - Shock (IEC 68-2-27) — 30G for 3 milliseconds duration (1/2 sine wave)
 - Vibration (IEC 68-2-6) — Random: 0.27G RMS from 5 Hz to 500 Hz
 - Electromagnetic compatibility:
 - Δ Electrostatic discharge (IEC 801-2/EN55101-2) Level 3, 6 KV
 - Δ Radiated electrical susceptibility (IEC 801-3/EN55101-3) Level 3, 10 V/m
 - Δ Fast transients/bursts (IEC 801-4) Level 3, 2 KV
 - Δ Power line surges (IEC 801-5) Level 3, 1 KV
 - Δ Conducted immunity (IEC 801-6/EN55022) Level 2

Δ Power line harmonics (IEC 555-2/EN60555)

- Environment (IEC 529) IP50 (can be increased by using an appropriate rack or enclosure)

Machine Requirements: For full-color graphics capability, the computer system must have at least one of the following installed:

- An XGA subsystem on the system board
- An XGA Display Adapter/A
- An XGA-2 subsystem on the system board
- An XGA-2 Display Adapter/A
- A DBCS (double-byte character set) Display Adapter (such as Atlas)

Limited color graphics capability may be attained with one of the following installed on the computer system:

- A VGA subsystem on the system board
- A VGA 8514/A Display Adapter

Also, an operating system must be installed on your computer system.

Planning Information

Customer Responsibilities: The IBM 7574 is designated as customer setup. Customer setup instructions are provided in the *Installation and Operation Guide*.

Cable Orders: The IBM 7574 Industrial Display comes with a hard-wired attachment cable (15 pin D shell, 1.8 meters in length).

Security, Auditability and Control

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

Terms and Conditions

Volume Orders: For information regarding volume orders, contact your IBM representative.

IBM Credit Corporation Financing: Term leases and installment payment plans are available for commercial and state and local government customers.

Customer Fulfillment Option Applies: Yes.

Warranty Period: Three years.

Warranty Service: IBM On-Site Exchange (IOE).

Alternative Service: None.

Maintenance Service: IBM On-Site Exchange (IOE).

IBM Hourly Service Rate Classification: One. IBM warranty service, maintenance service, or 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.

Volume Maintenance Option: This product is an eligible machine under the Volume Maintenance Option of the IBM Customer Agreement. A revised Exhibit will be available at a later date.

Mid-Range System Option: This product is an eligible machine under the Mid-Range System Option of the IBM Customer Agreement. A revised Exhibit will be available at a later date.

MRSO	Discount	
	Three-Year	Five-Year
	17%	22%

Corporate Service Option: This product is an eligible machine under the Corporate Service Option of the IBM Customer Agreement. A revised Exhibit will be available at a later date.

CSO	System Category		Network Category	
	Three-Year	Five-Year	Three-Year	Five-Year
	17%	22%	25%	30%

Extended Maintenance Option: This product is an eligible machine under the Extended Maintenance Option of the IBM Customer Agreement.

Central Facility Maintenance Service Option: This product is an eligible machine for the Central Facility Maintenance Service Option of the IBM Customer Agreement. A revised exhibit will be available at a later date.

The minimum number of machines required to be at the central facility before requesting maintenance service is six. The Additional Maintenance Charge Factor is currently 0.5 hours. The terms and conditions are stated in the Attachment for Central Facility Maintenance Service Option.

Product Availability Status: New product available.

Field-Installable Features: Yes.

Model Conversions: No.

Customer Setup: Yes.

Licensed Internal Code: No.

Educational Allowance: A 20% educational allowance is available to qualifying institutions in accordance with the Attachment for Educational Allowance. The educational allowance may not be added to any other discount or allowance.

Charges

Product Charges

Description	Machine Type	Model	Feature Number	Part Number	Purchase Price
Display Optical Filter	7574	001		61G1828	\$3,080
Screen	7551	ZZZ	7647	61G1851	280
Tilt Base (Gray)	7551	ZZZ	6315	16F1686	41
19-Inch Rack-Mount Kit	7551	ZZZ	6314	16F1684	231
TouchSelect	7551	ZZZ	6784	92F2213	850

Annual Minimum Maintenance Charges

IBM On-Site Exchange (IOE)	Central Facility Maintenance Service (CFMS)
\$400	\$380