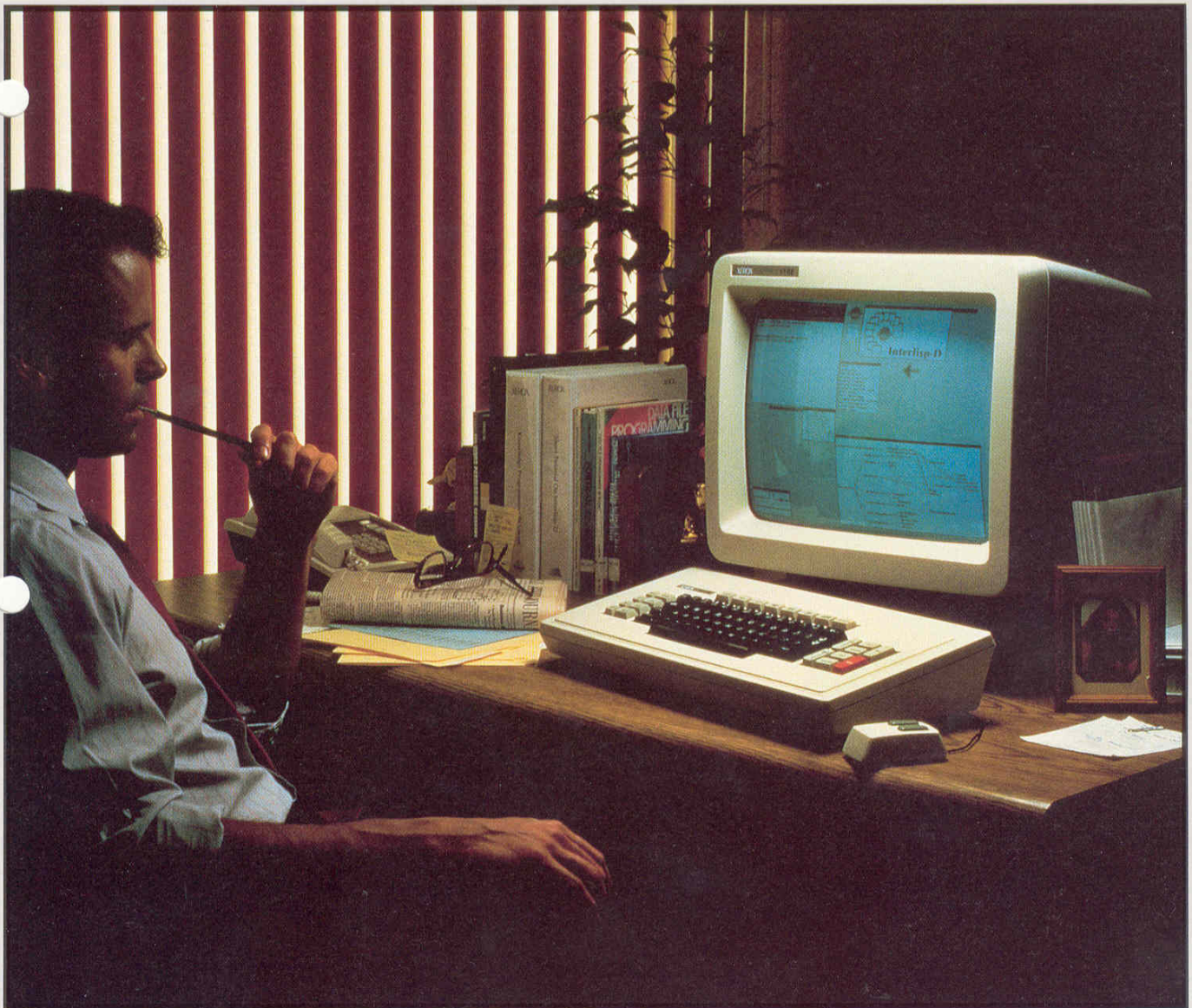The 1108 Series provides a state-of-the-art environment for both the development and the day-to-day use of Artificial Intelligence facilities. These high-performance personal computers make a wide range of applications economically attractive.

One of the keys to the performance of the 1108 is its Interlisp-D programming system. Interlisp-D provides both an integrated program development system and a supportive, efficient, run-time environment in which to package a wide variety of applications.

The 1108 Series is fully compatible with Xerox's network systems (Ethernet) architecture, so Xerox's full line of print, file and communications servers can be used to structure a complete installation.

Xerox 1108 Series
Artificial Intelligence Workstations

Xerox 1108 Series
Artificial Intelligence Workstations

Flexible-user interfaces

The 1108 workstation's interactive graphics, and Interlisp-D's support for rapid prototyping, combine to speed implementation of user friendly interfaces and intelligent front ends for Artificial Intelligence applications. The high resolution display, in combination with powerful graphics software provides the base for customized text processing, imaging and printing applications, including multi-font text.

Configuration

The 1108 Series comes with a variety of memory and disk options including a 17" diagonal display and keyboard. Enhancements to this workstation are separately obtainable and field upgradable, allowing you the flexibility to expand your system as your requirements change.

Knowledge-based systems

The 1108 workstation, in concert with Interlisp-D, is an ideal vehicle for the development of knowledge-based or expert systems. The 1108 Series makes Artificial Intelligence a practical reality. With an excellent price/performance ratio, 1108 Series systems can be both development systems and end-user workstations for on-going production.

The keys to Artificial Intelligence are at Rank Xerox

Specifications

Processor

1.5–3.5 Mbytes main memory.
32 Mbytes virtual memory.
137ns microinstruction cycle time.
12K words control store.
Optional floating point hardware.
Optional parallel I/0 port.

Local Storage

42 Mbyte rigid disk.
1.2 Mbyte double-sided, double-density floppy disk drive.

Communications

10 MHz Ethernet controller.
RS232C serial port 9600 Baud (optional)

Display

Large format CRT display (17" diagonal).
High resolution bitmap (1024 × 808 pixels).
Usable viewing area 12.8" wide × 10" high.
Refresh rate: 38.5 frames per second, interlaced.
Distance from processor: up to 9 feet.

Keyboard

78 keys, 24 function keys.
Distance from processor: 8 feet.

Pointing Device

Mouse.

Software

Interlisp-D Programming Environment.
The Xerox 1108 provides a full implementation of Interlisp's capability in a personal computer environment.

Software Highlights

- Performance engineering tools.
- Interactive graphics.
- Display editor and inspector.
- Debugging tools.
- Text editing.
- Direct microcode support.
- Deep binding.
- CDR encoded 32-bit CONS cell.
- Transaction garbage collection.
- Raster scan graphics.
- Communication software.

Electrical Requirements

Processor/Display
Voltage
193-264 VAC
Frequency
50Hz
Current
8 Amps

Operating Environment

Temperature
50°–90°F
Relative Humidity
15%–80%

Physical Specifications

Processor
Height: 305mm (12in)
Depth: 762mm (30in)

Display Unit
Width: 432mm (17in)
Height: 482mm (19in)
Depth: 229mm (9in)

Keyboard
Width: 508mm (20in)
Height: 89mm (3.5in)
Depth: 229mm (9in)

Service

Rank Xerox provides International service support for the 1108.

Training

Rank Xerox offers user training at customer sites and various Rank Xerox locations.

Optional

80 Mbyte rigid disk.