

ADAGE



Adage 6080: A Cut Above.

Interactive computer graphics workstations are assuming an increasingly important role in productivity-enhancing systems. As the range of graphics applications expands, a diversity of workstation capabilities will be required to provide cost-effective systems. Workstations will require faster interactivity, increased computational capability, and an ability to create and display images with ever greater levels of realism and fidelity.

Adage Series 6000 Workstations have been designed from the ground up to be cost-effective solutions for your present and future workstation needs. Integral to all Series 6000 Workstations is OCEAN™, an all-new, high-performance, proprietary graphics engine. OCEAN is optimized for the rapid generation and display of the complex, smooth shaded images that will be essential to the most demanding graphics applications. Within a modular architecture of extraordinary flexibility, Series 6000 Workstations can be configured to serve applications ranging from monochrome drafting to dynamic, full color rendering of solid models.

The powerful OCEAN engine is packaged in a compact, quiet, desktop module that drives a bright, high-resolution raster display. A fully configured Series 6000 Workstation will contain an OCEAN graphics engine, a complete 32-bit computer with operating system, and direct or networked connections to host computers such as DEC, IBM and Nixdorf. The Series 6000 blends the superb level of graphics performance you have come to expect from Adage, with the computational capability your advanced applications will require.

The Adage 6080 Workstation is the first member of the Series 6000 family. The Adage 6080 is a lower cost, plug-superior alternative to the IBM 5080. More important, the Adage 6080 provides the functional expansion potential that is only available with the Series 6000. Again, Adage serves your graphics workstation requirements with a system for now and the future.

As you read about the Adage 6080, remember it is a Series 6000 workstation—all new, modular, expandable and supported with the complete sales and service capability that only Adage can provide.

Richard N. Spann

Richard Spann
President, Adage, Inc.

Put yourself in control of the new Adage 6080. High-performance and plug-superior, the system is designed with ergonomic features including an anti-glare monitor with tilt and swivel adjustments. The Adage 6080 is the highest performance choice for IBM graphics users, providing maximum comfort and increased productivity in an office environment.

Now, run any of these software packages: CADAM®, CATIA®, Interactive Prance CADAM (IPC®),

CBDS2, CAEDS™, and more—experience the power of the Adage 6080.

While the Adage 6080 is IBM 5080-compatible, its all new architecture is based on the VME bus which allows the fastest possible data transfer and assures unbeatable system response. It also has increased processing capabilities and a brighter picture than the competition. That's because we've designed it with a high-performance graphics engine that drives a 1024 x 1024,

Adage 6080

IBM 5080-COMPATIBLE WORKSTATION

A BETTER WAY TO INCREASE YOUR PRODUCTIVITY



60 Hz, non-interlaced display. For a faster response, its average pixel drawing speed in any direction is an unparalleled 50 nanoseconds. Unique to the Adage 6080 are user-selectable antialiasing, local pan/zoom/scroll, hardware cursor and versatile highlighting functions. These allow you fast interaction with your CAD/CAM system. In addition, exceptional flexibility, with a wide range of communications options at speeds of up to three megabits per second, makes the Adage 6080 the

fastest, most responsive, cost-effective, 3-D graphics system in the marketplace today.

Whether you need additional workstations to accomplish your long range CAD/CAM plans, or are just developing a graphics application, the Adage 6080 offers compatibility with IBM and other Adage products, and the flexibility needed for future expansion. The Adage 6080 truly is 'a cut above' the competition.

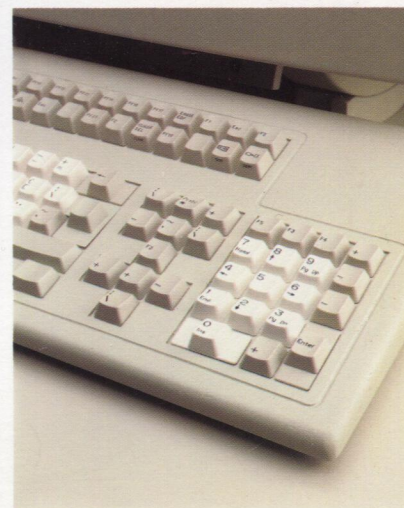
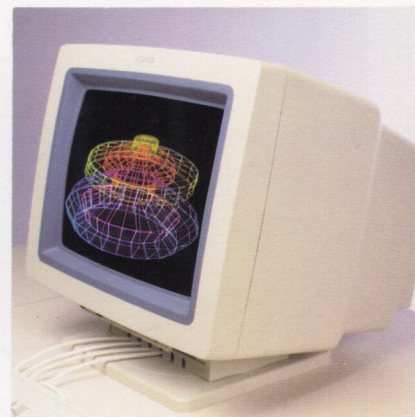
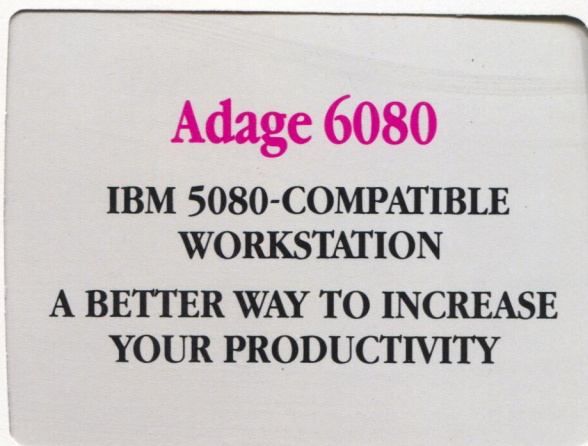


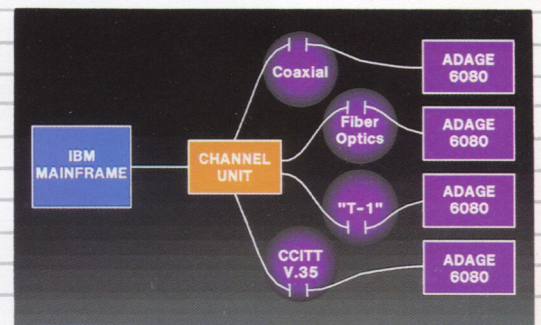
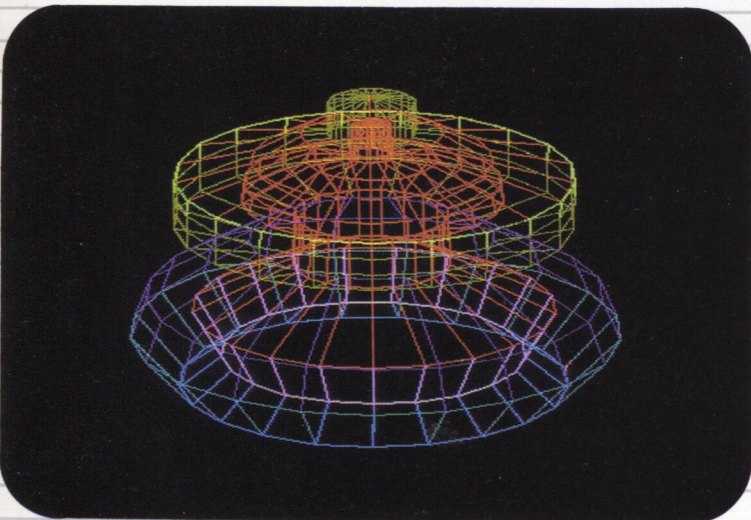
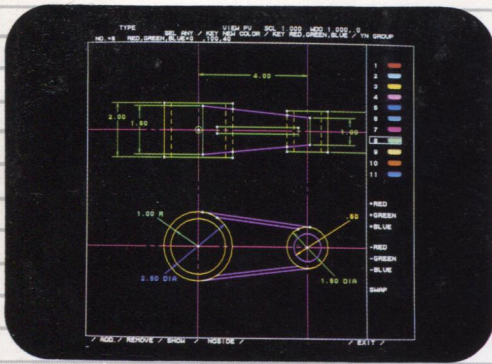
ADAGE 6080 FEATURES

- Dedicated controller per workstation
- 1024 x 1024, 60Hz non-interlaced display
- 50 nanoseconds per pixel drawing speed in any direction
- Hardware cursor for high-speed interactivity
- Ability to process:
 - four standard and user-defined line types
 - four standard and 16 user-defined character fonts
- High-speed circle generation
- Antialiasing capability for vectors
- Multiple highlighting techniques, user-selectable
- Ultra-fast processing of filled polygons
- Up to 256 colors simultaneously displayable from a palette of 4,096
- 256K bytes of system memory expandable to 1.25 megabytes
- Two RS-232C ports, optional
- Optional IBM 3270 emulation
- Adage 6080 and Adage 4250 can be connected to the same channel unit
- Optional local pan/zoom/scroll capability
- Optional 2-D and 3-D transformation and clipping
- Designed for easy integration of future Series 6000 features; software can be upgraded via floppy disk

ERGONOMIC DESIGN AND INTERACTIVE DEVICES

- Display features tilt, 120 degree swivel, and anti-glare screen
- Alphanumeric keyboard including:
 - 32 programmable function keys
 - a calculator-style keypad
 - special keys for locally controlled graphics operations
 - dual left and right "ENTER" keys
 - tilt capability
- Standard 11" x 11" data tablet with tilt mechanism
- Stylus or four button cursor
- Programmable function keyboard with 32 lighted keys and tilt
- Eight fully continuous turn control dials with positioning flexibility; designed with optical shaft encoding technology for high reliability





ADAGE 6080 communications options.

MEDIA TYPE	MAXIMUM SPEED
Coaxial Cable	Up to 3.088 Mbaud/sec. (1.5mi) Up to 1.544 Mbaud/sec. (3.0mi)
Microwave	1.544 Mbaud/sec.
Bell System "T1"	1.544 Mbaud/sec.
Fiber Optics	1.544 Mbaud/sec.
CCITT V.35	Service-dependent, includes Bell DDS 56KB
GDC Megamux®	Service-dependent



ABOUT THE COVER

Featured on our cover is an original paper sculpture by Suse MacDonald, of Weston, Vermont, who specializes in three dimensional works in paper.

SPECIFICATIONS

CHANNEL UNIT

Input: Standard IBM selector or block multiplexer channel; customer-supplied cable

Output to Graphics Controller: Full duplex transmit and receive mode for coaxial connections. Speeds are: 3 Mbaud up to 1.5 miles (2,414m); 1.5 Mbaud up to 3 miles (4,827m) maximum. Coaxial cables are customer-supplied.

Devices Supported: Up to 32

Communications Options: Coaxial Cables; Bell System "T1"; Microwave; Fiber Optics; CCITT V.35; GDC Megamux

Physical Characteristics: Height 30.5"; Width 28.0"; Depth 30.0"; Weight 230 pounds

Environmental Characteristics (operating): Temperature 50° - 85° F; Humidity 40%-80% noncondensing

GRAPHICS CONTROLLER

Frame Buffers: Double buffered with write/erase protect

Image Capability: Displays bit-map images from host

Color or Gray Scale: Four standard (16, 64, 256 optional) simultaneously displayable

Color Palette: 4,096 colors

Graphics Orders: IBM 5080 set

Pixel Writing Rate: 50 nanoseconds per pixel in any direction

Cursor Support: Hardware or software; user-selectable

Line Types: Four (solid, dash, dot, dot-dash) and user-programmable styles

Character Generator: Four fixed, high speed, not scalable; 16 loadable/selectable, translatable

Circle Generator: Center point radius

Antialiasing: User-selectable

Highlighting: Enhanced features permit selected element in pick window to be locally highlighted with double width vectors, reverse video characters or area texture change

Comprehensive Area Fill: Includes solid and user-defined patterns for: Circles; Concave and convex objects; Multiple overlapped and disjointed polygons containing shapes (islands) and/or crossing sides (bow-ties)

Virtual World Coordinates: 64K x 64K x 64K

Virtual Device Coordinates: 4K x 4K image space mapped to a 1K x 1K screen space

System Memory: Standard 256 Kbytes; Maximum 1.25 Mbytes in increments of 512 Kbytes

3270 Emulation: Optional

Two RS-232C Ports: For ancillary devices; optional

2-D and 3-D Transformation and Clipping: Optional

Local Pan/Zoom/Scroll: Optional

Operator Controls/Indicators: Power ON/OFF switch; Reset; 16 character (LCD) alphanumeric display

Diagnostics: Automatic with POWER ON and RESET utilizing 16 character LCD as status indicator

Physical Characteristics: Height 24.3"; Width 13.0"; Depth 27.0"; Weight 80 pounds

Environmental Characteristics (operating): Temperature 50° - 105° F; Humidity 10%-80% noncondensing

DISPLAY STATION

Technology: Raster; monochrome/color

Refresh Format: 60 Hz, non-interlaced

Diagonal Measurement: 19"

Viewable Area: 11.2" x 11.2"

Resolution: 1024 x 1024

Ergonomics: Tilt; Swivel; Anti-glare screen

Operator Controls/Indicators:

Power ON/OFF switch; POWER ON indicator; Brightness control; Contrast control; Degauss (color only)

Physical Characteristics: Height 20.6"; Width 21.5"; Depth 23.1"; Weight 83 pounds

Environmental Characteristics (operating): Temperature 50° - 105° F; Humidity 10%-80% noncondensing

INTERACTIVE DEVICES

Data Tablets: 11" x 11"—Tiltable, low-profile design; Stylus or four button cursor option; Lap pad and other sizes upon request

Alphanumeric Keyboard: Includes calculator-style keypad; 32 programmable function keys; Special keys for locally-controlled graphics operations; Dual (left/right) ENTER keys; Tilt mechanism and low-profile design

Programmable Lighted Function Keyboard: 32 lighted keys; Tiltable, low-profile design

Control Dials: Eight continuous-turn dials per unit with positioning flexibility

ADAGE



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