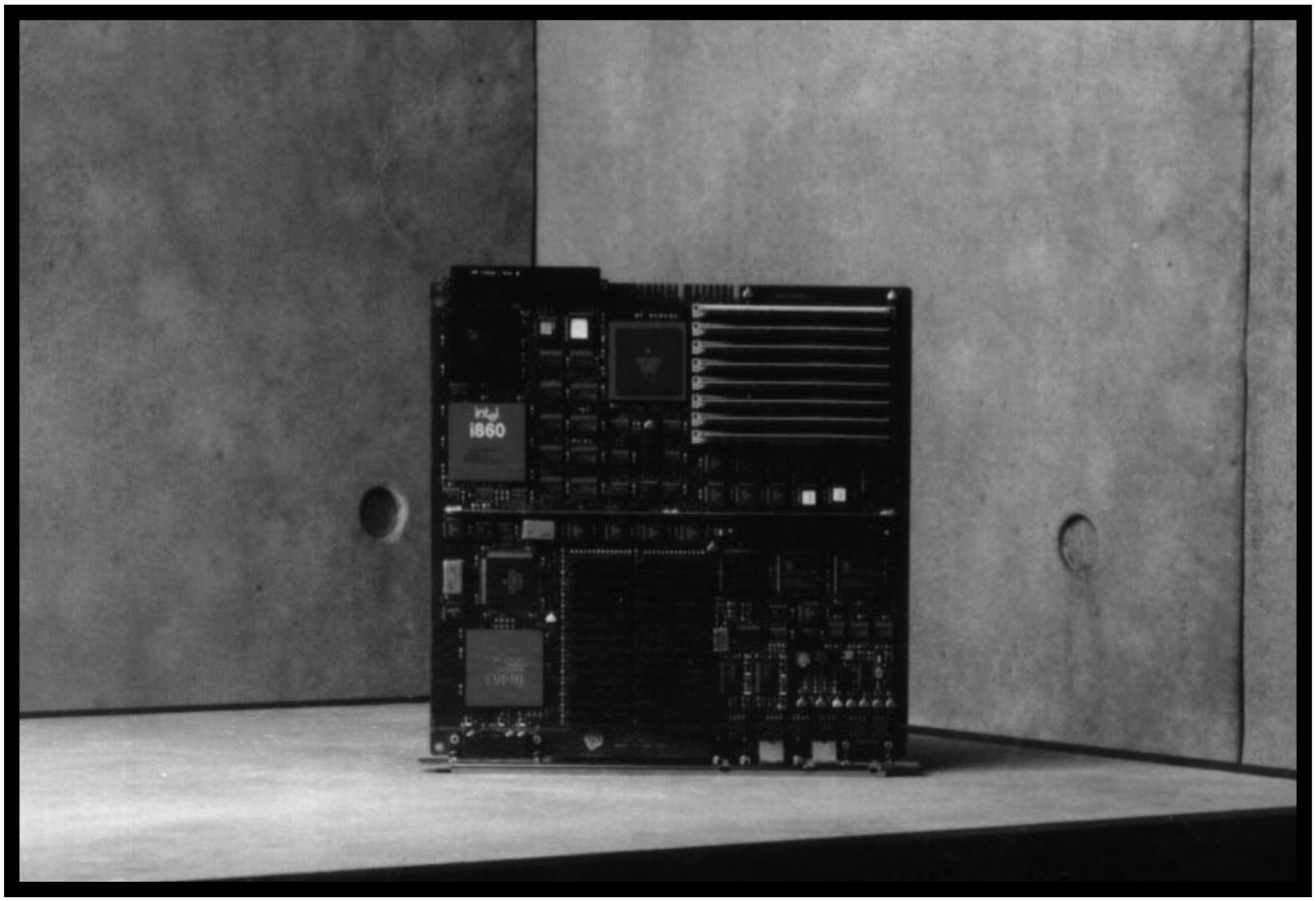
NeXTDIMENSION



The NeXTdimension color board gives the NeXTcube computer state-of-the-art color capabilities.

The NeXTdimension™ color board is designed for those requiring state-of-the-art color capabilities: 32-bit color capable of displaying 16.7 million colors, video-in and video-out, and color Display PostScript.® NeXTdimension was designed for people who need the most advanced color PostScript® system available. It is ideal for high-end publishing, graphic arts, video, and animation applications.

The engineers at NeXT have integrated 32-bit true color that incorporates 8-bits of transparency, a 64-bit RISC processor that is dedicated as a graphics accelerator, and video display and playback, all on a single board. Its powerful Intel® i860 RISC-based microprocessor operates at 33 megahertz and increases drawing speed eight to twelve times. The integrated video capabilities allow you to connect the NeXTdimension boardo directly to VCRs, camcorders, and laserdisc players for viewing news in a window while simultaneously working on other applications. The NeXTdimension board requires a NeXTcube™ system with a NeXTbus™ expansion slot.

To use the NeXTdimension board, you will need a NeXTcube with at least 16 megabytes of RAM and a 400-megabyte hard disk drive. You will also need either a MegaPixel Color Display with a Sound Box™ or you may choose to run the system with both a color display and a MegaPixel Monochrome Display simultaneously. NeXTstep™ Release 2.1 or higher is also required.

FEATURES AND BENEFITS

32-bit-per-pixel color	NeXTdimension offers 16.7 million colors to choose from, so images on the screen have a photographic realism, with color, depth, and breathtaking clarity.
Accelerated graphic	The Intel i860 RISC processor performs as a dedicated graphics accelerator to make working with 32-bit color as fast as—and in some cases faster than—working on a standard NeXTcube monochrome system.
Video input and output	Lets you connect a NeXTdimension board to a VCR, laserdisc player, VHS, S-VHS, Hi-8, Beta, Camcorder, or still-video camera without requiring additional boards. This allows you to display full-motion video in a window while working on other applications. If the VCR that is connected to the NeXTdimension is wired to cable TV, you can view cable news in real time.
MegaPixel Color Displays	The large, clear, MegaPixel 17- and 21-inch Color Displays let you view a full page of your work in breathtaking color. And there's plenty of extra room for menus, icons, and tools.

PRODUCT DETAILS

NeXTdimension Color Board
The NeXTdimension color board is a powerful graphics board that displays 32-bit color and will display and output either NTSC or PAL video depending on the ND board ordered (note: It is one or the other, not both on the same board).With the power of a dedicated 64-bit i860 RISC processor and on-board memory that is dedicated to graphics processing, the display speed in which you can move full-color windows and images on the screen is in most cases as fast as NeXT's monochrome systems.

Video In
The NeXTdimension's video capability allows you to connect camcorders, laserdisc players, and VCRs to display full-motion video in a window. Because NeXT™ displays have a resolution of 1120 x 832, you still have enough screen space to continue working on other applications while watching video. Connecting a VCR that is cable-ready will allow you to view cable news or other programming materials in real time.

Video Out
Not only will the NeXTdimension board allow you to display real-time video, but the NeXTdimension board also supports the output of video to a VCR. This will allow you to record onto video tape information that will fit in a 640 x 480 video window. With a frame-accurate video recorder, you can render a frame and record it on tape, creating movies. With the power of RenderMan™ that is bundled in NeXTstep Release 3, the possibilities will be left up to your imagination.

Configuration
You can configure your NeXTdimension board in a NeXTcube with a single color monitor to take up less deskspace as long as you have a NeXT Sound Box. If you prefer a two-display system, you can utilize a NeXT MegaPixel Monochrome Display connected to the CPU board in the NeXTcube and a color display that is connected to the NeXTdimension board. In this configuration, you may drag windows across the two displays. A window that has color in it will immediately display in black-and-white on the monochrome display. When the window is dragged back to the color display, it will once again display in color.

Display Memory
The NeXTdimension board utilizes its own video ram to display 32-bit color. Coupled to the VRAM is dedicated DRAM that can be expanded to 32 MB by plugging in additional 72-pin SIMMs. The additional memory will help the system run faster when displaying many true-color windows simultaneously. Graphic applications such as scanner applications that bring in high-quality, high-resolution images or rendering applications all benefit from additional memory.

TECHNICAL SPECIFICATIONS

GRAPHICS PROCESSOR
Intel i860 33 MHz RISC processor

MEMORY
Main Memory
- 16 MB to 32 MB of memory
- Expandable using 72-pin DRAM SIMM modules

Display Memory
- 4 MB VRAM
- 32 bit-per-pixel color, including 8 bit-per-pixel alpha channel

DISPLAY
Display Resolution
- 1120 x 832 pixels

Display Output
- 13W3 triple-coaxial

VIDEO INTERFACE
Video Compatibility
- NTSC video input and output channels (PAL option)
- Video output genlocked to input video source

Video Inputs
- One S-Video, using standard DIN-style 4-pin jack
- Two composite video, using RCA-style jack
- Software-selectable

Video Outputs
- One S-Video, using standard DIN-style 4-pin jack
- One composite video, using RCA-style jack
- One RGB video, using 9-pin D-shell with EGA pinout

POWER REQUIREMENTS
- 25W

OPERATING ENVIRONMENT
- Ambient temperature: 32ºF to 104ºF (0ºC to 40ºC)
- Relative humidity: 10% to 90%
- Altitude: 0 to 15,000 ft. (0 to 4,572 m)

ORDERING INFORMATION

NeXTDIMENSION BOARD
NeXTdimension board, NTSC Version
Order No. N7014-2833
NeXTdimension board with 16 MB of RAM (four each 4 MB SIMMs)

NeXTdimension board, PAL Version
Order No. N7027
NeXTdimension board with 16 MB of RAM (four each 4 MB SIMMs)

MegaPixel 17” Color Display
17-inch (16-inch viewable, true flat square)
Order No. N4001

MegaPixel 21” Color Display
21-inch (20-inch viewable, true flat square)
Order No. N4005

To run the NeXTdimension board in a NeXTcube without a monochrome monitor, a NeXT Sound Box is required.

NeXT Sound Box
Order No. N4004

Select the NeXTcube with the appropriate memory and disk size required, as well as the country-specific Starting Point™ kit (includes a keyboard, mouse, and user manuals).

NeXTdimension 8 MB Memory Expansion Kit
Order No. N7011
(two each 4 MB SIMMs)

For additional information, call 1-800-TRY-NeXT
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