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Macintosh 16-Inch Color Display: Description (Discontinued)

Revised: 6/20/94
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Article Created: 15 January 1992
Article Reviewed/Updated: 1 January 1994

TOPIC -----

This document describes the Macintosh 16-inch Color Display.

DISCUSSION -----

The Macintosh 16-Inch Color Display delivers a sharply focused picture identical in quality to the Apple 13-inch Color Display.

Feature Set

- 16-inch landscape Trinitron display
- .26mm horizontal stripe pitch
- 832 horizontal pixels by 624 vertical lines (over 500,000 pixels)
- 70% more area than 13-inch displays
- 70 dots per inch
- Horizontal scan rate 50 kHz
- Vertical refresh rate 75 Hz
- Automatic degaussing on startup
- Excellent ergonomic design
- Two ADB ports for keyboard and mouse
- Sound In/Out ports for microphone and headphone (or speaker)

- Anti-glare screen
- Vertically and horizontally pivoting base
- Meets Swedish recommendation for low frequency magnetic and electric field emissions.

Uniform Brightness

Traditional CRT technology has limitations that cause many large-screen color monitors to show uneven brightness across the screen. Variable screen brightness degrades the image quality and causes eye fatigue.

The Apple 16-inch Color Display uses a CRT design that provides uniform brightness across the entire screen. All parts of the screen show the same vivid colors. There is no degradation between the center of the screen and the edges.

Degaussing

The Apple 16-Inch Color Display provides automatic degaussing, on power up, ensuring that you always have the best image possible on your screen. Color display technology uses magnetic fields to guide electron beams inside the CRT to the screen. If a foreign magnetic field comes close to the CRT, it may disturb the internal magnetic field and cause the beams to be slightly misdirected, which distorts the screen image.

The display has circuitry, activated during startup, that compensates for the distortions by adjusting the internal magnetic field to counteract the external magnetic field. If the external magnetic field changes enough during operation to distort the screen image, the image remains distorted until the display's power is turned off and on again.

Adjustable White Point Color Temperature

The white point color temperature is a measure, in degrees Kelvin, of a display's white. Traditional displays use a 9300 degree K white, which has a bluish tint and a high contrast. A 6500 degree K white is similar to page white and is more useful for color matching.

The Apple 16-inch Color Display features an adjustable white point color temperature. You can adjust the white point color temperature by selecting the monitor's control panel and clicking on the option button while holding down the option key. The options dialog offers a choice of gamma tables, and among them are the "Mac Std Gamma" and "Page- White Gamma." The "Mac Std Gamma" is the 9300 degree K option that is the traditional bluish display white. The "Page-White Gamma" is the 6500 degree K white that closely resembles the white of a printed page.

Ergonomics

The Apple 16-inch Color Display has several ergonomic features that provide optimum flexibility for viewing comfort and ease of use.

- High-contrast glass with antiglare, antistatic coating
- The built-in tilt and swivel base makes it easy to change your viewing angle.
- A 75 hertz screen refresh rate eliminates any flickering on your screen.
- The easily accessible ADB and sound I/O ports on the side and front of the base offer flexibility for arranging your system's components.
- Power, brightness, and contrast controls on the front of the monitor make it easy to cycle power and make adjustments.

Article Change History:

7 January 1994 - Revised title and topic to add official product name.

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Tech Info Library Article Number:9455