



# Tech Info Library

## Performa Plus Display: Raster Size Geometry (1/94)

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TOPIC-----

What is the acceptable geometry specifications for the Performa and Performa Plus Displays?

Customers are having Performa and Performa Plus Display replaced multiple times (I have seen cases of 4 advance replacements) because the image on the screen is shifted horizontally or vertically, or both.

When determining if a display needs to be exchanged, there seems to be conflicting information about the borders for the Performa and Performa Plus Displays.

The Technical Information Library states the Performa (Plus) Displays, borders are within specification if the Display has 1/2" to 1/4" borders, all around.

The Service Source gives the active area as 9.5 in. by 7 in., and does not mention acceptable borders measurements.

This is only an issue with the Performa (Plus) Displays because they no longer have any controls for horizontal or vertical shifts. The older (Rev. A) displays had the vertical and horizontal controls, which allow customers to adjust the borders.

DISCUSSION-----

The article to which you refer is a bit misleading. The Performa Displays will have a perfectly centered raster (both vertically and horizontally) in an ideal environment (helmholtz cage). However, once the monitor leaves this ideal environment it is subject to the earth's magnetic field, which can easily be altered in a work environment due to metal objects such as cabinets, beams, etc.

The part of the specification that is related to this issue is that of raster size. The active display screen size should be 9.5" x 7" (240 mm x 180 mm +-3mm). The direction that the raster shifts is dependent on its

environment, that is why a particular customer could exchange the monitor repeatedly and see no apparent improvement. It must be made clear that this "problem" is purely cosmetic and does not interfere in any way with the information displayed on the screen. If customers continue to find the monitor unacceptable, I recommend that they purchase a more sophisticated monitor, such as the Macintosh Color Display, which is not as prone to raster shift and includes vertical/horizontal centering controls that are adjustable by a technician.

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