

VIDEO DISPLAY ADJUSTMENT AND ON-SCREEN MENU SYSTEM

ABSTRACT OF THE DISCLOSURE

Apparatus and methods for adjusting the video display controls in a multi-frequency video display include an EEPROM that stores multiple sets of video display parameters for the video display. A microcontroller receives input from a user, changes the stored display parameters and outputs changes in the parameters to the video display. The microcontroller also controls video display apparatus that displays on-screen menus and value indicator graphs for facilitating user input. The video display apparatus incorporates a video clock synchronized to the horizontal synchronization signal of the multi-frequency display, to keep the displayed menus synchronized regardless of the current frequency. In addition, the video display apparatus elongates displayed characters at higher frequencies to control the absolute size of displayed characters across frequencies. The present invention provides for changes to video display parameters, and for resetting the display parameters to factory standards, without manipulating electromechanical devices such as potentiometers.

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