

Abstract

A convergence control system for multiple vertical modes or formats, having respective rasters with different vertical heights, comprises a selector (4) for initiating
5 operation in one of the available vertical modes, and a circuit (40) for generating convergence correction signals responsive to the selector. The correction signals are generated from known convergence correction values and by interpolation of the known values. The convergence
10 correction values may be stored and sequentially processed by digital circuits and the interpolation may be undertaken by analog circuits. The circuit for generating convergence correction signals may comprise a digital data store (46) for different sets of convergence correction values, for
15 generating selectable sets of correction signals for different vertical modes or formats, for example normal and overscanned modes. The sets of convergence correction values define different sets of grid lines and rows of horizontal scan lines. Adjacent ones of the grid lines are
20 spaced from one another at different intervals for different vertical formats. The intervals between adjacent horizontal grid lines are greater for vertical formats having rasters with greater vertical heights. An interpolating circuit (40) for processing the known
25 convergence correction values is responsive to the horizontal deflection circuit. The interpolating intervals can be adjusted to correspond to the horizontal scanning rate. The number of interpolating intervals is matched to the number of horizontal scan lines in each row.