

SELF-ADAPTING VERTICAL SCAN CIRCUIT FOR RASTER-SCANNED
CATHODE RAY TUBE DISPLAYS

ABSTRACT

A vertical scan circuit for a display is described which allows automatic picture height and centering. The deflection voltages at the start and end of active video time, are stored by capacitors fed via switches activated by signal pulses. These stored voltages are compared to margin reference voltages V_{tmref} and V_{bmref} which correspond to the desired top and bottom of the picture as displayed for a particular monitor. The maximum deflection voltage on flyback (V_{max}) and the slope of the signal (dv/dt) are adjusted so that the top margin voltage (V_{tm}) and the bottom margin voltage (V_{bm}), bear desired relationships to these reference voltages (V_{tmref} and V_{bmref} respectively), thus ensuring that the top and bottom of the picture as displayed remains constant for different screen formats.

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