

AUTOMATIC KINESCOPE BIAS CONTROL SYSTEM

ABSTRACT

A controllable current source in an AKB circuit (70) applies a measurement current (I_m) to a kinescope driver amplifier (50) during selected lines of the vertical interval of a video input signal to induce a beam current in a kinescope (40) coupled to the driver amplifier. A comparison circuit (100, 102, 104) compares samples (S_5) of the beam current (I_K) obtained during the selected lines with a reference signal (V_r) and applies a correction current (I_q) to the driver amplifier (50) for regulating a parameter (e.g., black level) of images displayed by the kinescope (40). A signal source (HB, R2), coupled to the measurement current source (82, 90, 92, 96), inhibits production of the measurement current (I_m) during retrace portions of the selected lines and enables production of the measurement current (I_m) during trace portions of the selected lines. Advantageously, the signal source provides suppression of visual artifacts due to AKB operation when using direct view or projection kinescopes of a type in which pincushion correction is not applied during line retrace intervals.

Figure 1

