

This Sheet Has Been Replaced

Abstract

A high voltage, inverting, kinescope driver amplifier (430) is coupled at the input (431) thereof to a source (406) of low voltage video input signals (R;G;B) to be amplified and is coupled at the output (433) thereof for supplying amplified video output signals to the cathode (420;422;424) of a kinescope (414). The high voltage amplifier includes linear (R2) and non-linear (R3,R4,C1,D1) feedback paths which, in combination, determine a nominal closed loop gain for the amplifier. The non-linear path includes amplitude (D1) and frequency (C1) dependent elements for increasing the closed loop gain of the amplifier by a given amount in low brightness areas (black to gray) displayed by the kinescope (thus improving dark picture detail) and increases the closed loop gain of the amplifier by substantially the same given amount for high frequency video detail signal components in high brightness picture areas (thus improving subjective contrast without spot blooming and avoiding the impression of "washed-out" pictures.