

ABSTRACTVIDEO SIGNAL PROCESSING

A nonlinear video signal processing system provides gamma correction to improve rendition of picture details near black. In addition, picture brilliance is improved using a brightness and frequency dependent enhancement circuit providing increased detail signal contrast in bright picture areas. In each color channel, the respective color signal (R,G,B) is gradually separated (18) into a low level amplitude signal portion (V2) and a higher level amplitude signal portion (V3). The higher level amplitude portion (V3) is high-pass frequency filtered (20). The low level signal portion (V2) and the high-pass filtered higher amplitude signal portion (V4) are added (R1,R2,R4) to the original, linear video signal (V1 or R) for producing a combined signal (i5) coupled (12) to the kinescope. The low level signal portion (V2) is DC coupled (R2) to the linear signal (V1) and the high level signal portion is AC (C2) coupled to the linear signal (V1).

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