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ABSTRACT



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A conventional three-dimensional noise reducing device is defective in that after-image degradation increases when effective noise reduction is performed on a signal whose noise level has been increased by signal amplification.

The following are provided: an AGC circuit 12 amplifying a video signal; a high frequency coring circuit 14 splitting the video signal amplified by the AGC circuit 12 into a plurality of bands in accordance with the spatial frequency thereof, reducing the level of a higher frequency component of the video signal based on a comparison between a first characteristic parameter based on the factor of amplification of the amplifying means and the level of the higher frequency component, and synthesizing the reduced higher frequency component and a component of another band with each other; a subtracter 15 extracting the difference signal between the output of the high frequency coring circuit 14 and a predetermined reference signal; a nonlinear processing circuit 16 reducing the level of the difference signal based on a comparison between the level of the difference signal and a predetermined second characteristic parameter; and a subtracter 17 subtracting the output of the nonlinear processing circuit from the video signal.