ABSTRACT

An automatic image quality-controlling device of the invention has the following configuration:

An FM signal output from a video head 11 is amplified in an AGC amplifier 12 to a uniform amplitude level. A lower-sideband variable peaking amplifier 15 peaks the lower-sideband spectrum of the FM signal. The lower-sideband of the output from the amplifier 15 is extracted through a lower-sideband filter 18. The amplitudes of the lower sideband thus extracted is converted into a d.c. voltage by a peak detecting circuit 19. This d.c. voltage is compared with a reference voltage by a comparator 20 to output an error voltage. The error voltage is fed back to the lower-sideband variable peaking amplifier 15 so that the ratio between the magnitudes of the carrier wave and the lower-side band component of the FM signal to be demodulated is made constant.

Thus, the device of the invention is set up so that the amplitudes of the lower-sideband spectrum of the FM signal are made uniform at a level which allows an optimum S/N value and the best resolution, whereby it is possible to produce sharp images.