METHOD OF RECORDING IMAGE AT A REDUCED DATA RATE AND DEVICE FOR IMPLEMENTING IT.

ABSTRACT

A method comprising the steps of recording a prediction error signal (e) corresponding to the difference between an actual image (X) to be recorded and an image predicted on the basis of the previous image, by means of a main coding/decoding circuit (1) comprising a digital recorder record and play unit (6); taking the restored image ($\hat{X}$) at the output of the main circuit (1) in a single inter-image prediction loop (2); on the basis of the previous image: and reinjecting the image resulting from the prediction (P) at both the input and output of the main circuit (1) by subtracting the image resulting from the prediction (P) from the actual image (X) to be recorded, and by adding the same image to the error signal read and decoded (e^d) in the main circuit (1), respectively, in order to restore the image ($\hat{X}$) after recording while taking recording errors into account. The method is suitable for digital recorders, particularly high-definition digital VCRs.

Figure 1.