

ABSTRACT

A video prediction encoding device provided with a picture storage unit storing, as reference pictures to be used for encoding of a subsequent picture, one or more of reconstructed pictures restored from compressed picture data and a memory control unit to control a frame memory in the picture storage unit. When a frame size of input pictures is not more than $1/(2^L)$ (where L is an integer of one or more) of a maximum frame size of pictures, the memory control unit determines that (2^L) times the maximum number of reconstructed pictures are storable in the frame memory.