ABSTRACT

The present invention provides a chroma block prediction method and a device. The method includes: parsing a bitstream to obtain first indication information; performing a downsampling operation on a first luma block by using a first filter when a value of the first indication information is a first value or by using a second filter when a value of the first indication information is a second value, to obtain a second luma block, wherein the first luma block is a luma block corresponding to the current chroma block; obtaining a plurality of chroma samples and a plurality of luma samples; obtaining linear model coefficients based on the plurality of chroma samples and the plurality of luma samples; and obtaining a prediction value of the current chroma block based on the second luma block and the linear model coefficients~~parsing a bitstream to obtain first indication information, where the first indication information is used to indicate a filter type; downsampling a first luma block by using a filter corresponding to the filter type, to obtain a second luma block, where the first luma block is a luma block corresponding to a current chroma block; obtaining a template chroma sample and a template luma sample, where the template chroma sample includes a plurality of neighboring chroma samples of the current chroma block, and the template luma sample is obtained by performing a downsampling operation on a plurality of neighboring luma samples of the first luma block; obtaining linear model coefficients based on the template chroma sample and the template luma sample; and obtaining a prediction value of the current chroma block based on the second luma block and the linear model coefficients~~.

FIGURE 13