

Abstract

PREDICTION IMAGE GENERATION APPARATUS, VIDEO DECODING APPARATUS,
VIDEO CODING APPARATUS, AND PREDICTION IMAGE GENERATION METHOD

The amount of memory required for CCLM prediction is reduced. The CCLM prediction parameter derivation unit (310442) derives a scale shift value corresponding to a luma difference value, and derives a CCLM prediction parameter, by shifting, by using the scale shift value, a value obtained by multiplying a value of a table referred to with a value obtained by performing right shift of the luma difference value by the scale shift value as an index and a chroma difference value. In addition, in a case of deriving a prediction image, a bit width is reduced by adaptively deriving a shift amount of a linear prediction parameter from the chroma difference value.

Figure 11