[CLAIMS]

1. A picture encoding device that divides a picture into blocks and performs encoding for each of the divided blocks, the picture encoding device comprising:

a primary signal block divider structured to divide a primary signal of the picture into rectangles having a predetermined size, and generate a primary signal block;

a secondary signal block divider structured to divide a secondary signal of the picture into rectangles having a predetermined size, and generate a secondary signal block;

a primary signal predictor structured to predict a primary signal; and

a secondary signal predictor structured to predict a secondary signal,

wherein the secondary signal predictor can perform inter prediction of predicting a secondary signal from an encoded primary signal, and the inter prediction is restricted based on at least one of a size of the primary signal block and a size of the secondary signal block.

2. The picture encoding device according to claim 1, wherein a primary signal is a luminance signal and a secondary signal is a color difference signal, size comparison between a size of a luminance signal block and a size of a color difference signal block is performed based on

the number of pixels obtained in a case where the number of pixels of a color difference signal block is converted into the number of pixels of a luminance signal block using a ratio between luminance and a color difference in a color difference format, and the inter prediction is restricted in a case where a size of a color difference signal block is smaller than a size of a luminance signal block.

3. The picture encoding device according to claim 1, wherein a primary signal is a luminance signal and a secondary signal is a color difference signal, and the inter prediction is restricted in a case where a size of a luminance signal block is larger than a predetermined size or in a case where a size of a color difference signal block is smaller than a predetermined size.

4. The picture encoding device according to any one of claims 1 to 3, wherein the inter prediction is restricted by predicting a secondary signal using another prediction mode that does not use the primary signal, in place of the inter prediction.

5. The picture encoding device according to any one of claims 1 to 3, wherein the inter prediction is restricted by replacing a neighboring pixel used in the inter prediction, with a neighboring pixel that can be used without waiting for

encoding of the primary signal block.

6. A picture encoding method that divides a picture into blocks and performs encoding for each of the divided blocks, the picture encoding method comprising:

a primary signal block division step of dividing a primary signal of the picture into rectangles having a predetermined size, and generating a primary signal block;

a secondary signal block division step of dividing a secondary signal of the picture into rectangles having a predetermined size, and generating a secondary signal block;

a primary signal prediction step of predicting a primary signal; and

a secondary signal prediction step of predicting a secondary signal,

wherein the secondary signal prediction step can perform inter prediction of predicting a secondary signal from an encoded primary signal, and the inter prediction is restricted based on at least one of a size of the primary signal block and a size of the secondary signal block.

7. A picture encoding program that divides a picture into blocks and performs encoding for each of the divided blocks, the picture encoding program causing a computer to execute:

a primary signal block division step of dividing a

primary signal of the picture into rectangles having a predetermined size, and generating a primary signal block;

a secondary signal block division step of dividing a secondary signal of the picture into rectangles having a predetermined size, and generating a secondary signal block;

a primary signal prediction step of predicting a primary signal; and

a secondary signal prediction step of predicting a secondary signal,

wherein the secondary signal prediction step can perform inter prediction of predicting a secondary signal from an encoded primary signal, and the inter prediction is restricted based on at least one of a size of the primary signal block and a size of the secondary signal block.

8. A picture decoding device that performs decoding for each of blocks into which a picture is divided, the picture decoding device comprising:

a primary signal block divider structured to divide a primary signal of the picture into rectangles having a predetermined size, and generate a primary signal block;

a secondary signal block divider structured to divide a secondary signal of the picture into rectangles having a predetermined size, and generate a secondary signal block;

a primary signal predictor structured to predict a primary signal; and

a secondary signal predictor structured to predict a secondary signal,

wherein the secondary signal predictor can perform inter prediction of predicting a secondary signal from a decoded primary signal, and the inter prediction is restricted based on at least one of a size of the primary signal block and a size of the secondary signal block.

9. A picture decoding method that performs decoding for each of blocks into which a picture is divided, the picture decoding method comprising:

a primary signal block division step of dividing a primary signal of the picture into rectangles having a predetermined size, and generating a primary signal block;

a secondary signal block division step of dividing a secondary signal of the picture into rectangles having a predetermined size, and generating a secondary signal block;

a primary signal prediction step of predicting a primary signal; and

a secondary signal prediction step of predicting a secondary signal,

wherein the secondary signal prediction step can perform inter prediction of predicting a secondary signal from a decoded primary signal, and the inter prediction is restricted based on at least one of a size of the primary signal block and a size of the secondary signal block.

10. A picture decoding program that performs decoding for each of blocks into which a picture is divided, the picture decoding program causing a computer to execute:

a primary signal block division step of dividing a primary signal of the picture into rectangles having a predetermined size, and generating a primary signal block;

a secondary signal block division step of dividing a secondary signal of the picture into rectangles having a predetermined size, and generating a secondary signal block;

a primary signal prediction step of predicting a primary signal; and

a secondary signal prediction step of predicting a secondary signal,

wherein the secondary signal prediction step can perform inter prediction of predicting a secondary signal from a decoded primary signal, and the inter prediction is restricted based on at least one of a size of the primary signal block and a size of the secondary signal block.