CLAIMS

1. A method of coding implemented by a decoding device, comprising:

obtaining a bitstream;

obtaining a value of an indicator for a current block according to the bitstream, wherein the indicator is an index;

obtaining a value of a first parameter for the current block and a value of a second parameter for the current block according to the value of the indicator and a predefined lookup table as follows:

(first parameter, second parameter) = lookupTable (indicator);

obtaining a value of a sample distance for a sample which is located in the current block according to the value of the first parameter and the value of the second parameter; and

obtaining a prediction value for the sample according to the value of the sample distance for the sample.

2. The method of claim 1, wherein the first parameter represents an angle for partitioning of the current block.

3. The method of claim 1 or 2, wherein the second parameter represents a distance for partitioning of the current block.

4. The method of any one of claims 1 to 3, wherein the second parameter specifies a distance index of a geometric partition, or the second parameter describes a distance of a separation line to the center of the current block.

5.The method of any one of claims 1 to 4, wherein the obtaining a prediction value for the

sample, according to the value of the sample distance for the sample comprises:

calculating two weighting factors according to the sample distance value; and

obtaining the prediction value for the sample according to a first prediction value, a second prediction value and the two weighting factors.

6. The method of any one of claims 1 to 5, wherein the value of the sample distance represents the horizontal distance or the vertical distance, or a combination of the vertical and horizontal distances, of the said sample to a separation line, wherein the separation line is used to divide a coding block into two sub-blocks.

7. The method of any one of claims 1 to 6, wherein the predefined lookup table comprises pairs of first and second parameters,

wherein when the first parameter of a pair represents an angle corresponding to one of the angles of 0, 45, 90, 135, 180, 225, 270 or 315 degrees the corresponding second parameter of the pair does not represent a distance of zero samples from the center of the current block.

8. The method of any one of claims 1 to 7, wherein the predefined lookup table comprises pairs of first and second parameters,

wherein the first parameter of a pair represents an angle not corresponding to one of the angles of 0, 45, 90, 135, 180, 225, 270 or 315 degrees and the corresponding second parameter of the pair represents a distance of zero samples from the center of the current block.

9. The method of any one of claims 1 to 8, wherein the predefined lookup table comprises pairs of first and second parameters,

wherein the first parameter of a pair represents an angle corresponding to one of the angles of

0, 45, 90, 135, 180, 225, 270 or 315 degrees, and the corresponding second parameter of the pair represents a distance of zero samples from the center of the current block.

10. A decoder (30) comprising processing circuitry for carrying out the method according to any one of claims 1 to 9.

11. A decoder, comprising:

one or more processors; and

a non-transitory computer-readable storage medium coupled to the processors and storing programming for execution by the processors, wherein the programming, when executed by the processors, configures the decoder to carry out the method according to any one of claims 1 to 9.

12. A method of coding implemented by an encoding device, comprising:

selecting a value of a first parameter and a value of a second parameter;

obtaining an index value according to the value of the first parameter, the value of the second parameter and a lookup table; and

encoding the index value into a bitstream.

13. The method of claim 12, wherein the method further comprises:

calculating a sample distance for a sample in a coding block;

calculating weighting factors corresponding to the sample according to the calculated sample distance; and

calculating a combined prediction value for the sample according to a first prediction value, a second prediction value and the weighting factors.

14. An encoder, comprising:

one or more processors; and

a non-transitory computer-readable storage medium coupled to the processors and storing programming for execution by the processors, wherein the programming, when executed by the processors, configures the decoder to carry out the method according to claim 12 or 13.

15. A computer program product comprising a program code for performing the method according to any one of claims 1 to 9 and 12 to 13.

16. A computer-readable medium comprising a bitstream encoded/decoded by the method of any one of claims 1 to 9 and 12 to 13.