

CLAIMS

1. A video decoding method comprising:

obtaining slice offset information indicating whether to apply an offset for a current slice;

when the offset is applied for the current slice according to the slice offset information, obtaining left offset merging information of a current block among blocks included in the current slice by performing entropy decoding on a bitstream using a first context information;

when the offset parameter of the current block is not determined according to the offset parameter of a left block according to the left offset merging information, obtaining upper offset merging information of the current block by performing entropy decoding on the bitstream using the context mode;

when the offset parameter of the current block is not determined according to an offset parameter of an upper block according to the upper offset merging information, obtaining offset type information and a plurality of offset values of the current block from the bitstream; and

compensating for a sample value of a current sample among samples of the current block by using an offset value for the current sample among the plurality of offset values,

wherein the obtaining the offset type information and a plurality of offset values of the current block from the bitstream comprises:

when the offset type information indicates a band offset type or an edge offset type, obtaining absolute values of the plurality of offset values by performing entropy decoding on the bitstream in a bypass mode; and

when the offset type information indicates the band offset type, obtaining signs of the plurality of offset values by performing entropy decoding on the bitstream in bypass mode.

2. The video decoding method of claim 1, wherein when the upper offset merging information indicates that the offset parameter of the current block is determined according to the offset parameter of the upper block, the offset parameter of the current block is not obtained from the bitstream.

3. A video decoding apparatus comprising:

a processor configured for obtaining slice offset information indicating whether to apply an offset for a current slice, and compensating for a sample value of a current sample among samples of the current block by using an offset value for the current sample among the plurality of offset values,

wherein:

when the offset is applied for the current slice according to the slice offset information, the processor is configured for obtaining left offset merging information of a current block among blocks included in the current slice by performing entropy decoding on a bitstream using a first context information,

when the offset parameter of the current block is not determined according to the offset parameter of a left block according to the left offset merging information, the processor is configured for obtaining upper offset merging information of the current block by performing entropy decoding on the bitstream using the context mode, and

when the offset parameter of the current block is not determined according to an offset parameter of an upper block according to the upper offset merging information:

the processor is configured for obtaining offset type information and a plurality of offset values of the current block from the bitstream, and when the offset type information indicates a band offset type or an edge offset type, obtaining absolute values of the plurality of offset values by performing entropy decoding on the bitstream in a bypass mode, and when the offset type information indicates the band offset type, obtaining signs of the plurality of offset values by performing entropy decoding on the bitstream in bypass mode.