WHAT IS CLAIMED IS:

1. A method of decoding an encoded video bitstream using at least one processor, the method comprising:

obtaining a first flag indicating whether a constant picture size is used in a coded video sequence including a current picture;

based on the first flag indicating that the constant picture size is used, decoding the current picture without performing reference picture resampling;

based on the first flag indicating that the constant picture size is not used, obtaining a second flag indicating whether a conformance window size is signaled;

based on the second flag indicating that the conformance window size is signaled:

obtaining the conformance window size,

determining a resampling ratio between the current picture and a reference picture based on the conformance window size, and

performing the reference picture resampling on the current picture using the resampling ratio;

the method further comprises:

signaling a syntax element pic_width_in_luma_samples and a syntax element pic_height_in_luma_samples in a picture parameter set (PPS), wherein

the pic_width_in_luma_samples specifies width of each decoded picture referring to the PPS in units of luma samples;

the pic_height_in_luma_samples specifies height of each decoded picture referring to the PPS in units of luma samples.

2. The method of claim 1, wherein the conformance window size is signaled as at least one offset distance from a border of the current picture.

3. The method of claim 1, wherein the first flag is signaled in a sequence parameter set (SPS), and

wherein the second flag is signaled in one from among the SPS and ~~a picture parameter set (~~the PPS~~)~~.

4. The method of claim 3, wherein the second flag is signaled in the SPS, and indicates whether SPS conformance window parameters are signaled in the SPS.

5. The method of claim 4, wherein based on the second flag indicating that the SPS conformance window parameters are signaled in the SPS, the conformance window size is obtained based on the SPS conformance window parameters.

6. The method of claim 4, further comprising, based on the first flag indicating that the picture size is not constant, obtaining a third flag indicating whether PPS conformance window parameters are signaled in the PPS.

7. The method of claim 6, wherein based on the second flag indicating that the SPS conformance window parameters are signaled in the SPS, and the third flag indicating that the PPS conformance window parameters are not signaled in the PPS, the conformance window size is obtained based on the SPS conformance window parameters.

8. The method of claim 6, wherein based on the second flag indicating that the SPS conformance window parameters are not signaled in the SPS, and the third flag indicating that the PPS conformance window parameters are signaled in the PPS, the conformance window size is obtained based on the PPS conformance window parameters.

9. The method of claim 1, comprising: a flag that indicates whether the resampling ratio is equal to 1 being signaled in a high-level parameter set

10. The method of claim 1, wherein

the pic_width_in_luma_samples is not equal to 0, is an integer multiple of Max(8, MinCbSizeY), and is less than or equal to pic_width_max_in_luma_samples, when not present, a value of the pic_width_in_luma_samples is inferred to be equal to pic_width_max_in_luma_samples;

the pic_height_in_luma_samples is not equal to 0, is an integer multiple of Max(8, MinCbSizeY), and is less than or equal to pic_height_max_in_luma_samples, when not present, a value of the pic_height_in_luma_samples is inferred to be equal to pic_height_max_in_luma_samples.

11. The method of claim 1, comprising:

performing a fractional interpolation process with the reference picture resampling, wherein the fractional interpolation process comprises:

inputting a luma location (xSb, ySb) specifying a top-left sample of a current coding subblock relative to a top left luma sample of the current picture, an variable sbWidth specifying width of the current coding subblock, a variable sbHeight specifying height of the current coding

subblock, a motion vector offset mvOffset, a refined motion vector refMvLX, a selected reference picture sample array refPicLX, a half sample interpolation filter index hpelIfIdx, a bi-directional optical flow flag bdofFlag, and a variable cIdx specifying a colour component index of the current coding subblock;

outputting an (sbWidth + brdExtSize)x(sbHeight + brdExtSize) array predSamplesLX of prediction sample values; a prediction block border extension size brdExtSize is derived according to a following equation: brdExtSize = (bdofFlag | | (inter_affine_flag[xSb][ySb] && sps_affine_prof_enabled_flag)) ? 2 : 0.

~~9~~12. A device for decoding an encoded video bitstream, the device comprising:

at least one memory configured to store program code; and

at least one processor configured to read the program code and operate as instructed by the program code to perform the method according to any one of claims 1-11.~~, the program code including:~~

~~first obtaining code configured to cause the at least one processor to obtain a first flag indicating whether a constant picture size is used in a coded video sequence including a current picture;~~

~~decoding code configured to cause the at least one processor to, based on the first flag indicating that the constant picture size is used, decode the current picture without performing reference picture resampling;~~

~~second obtaining code configured to cause the at least one processor to, based on the first flag indicating that the constant picture size is not used, obtain a second flag indicating whether a conformance window size is signaled; and~~

~~performing code configured to cause the at least one processor to, based on the second flag indicating that the conformance window size is signaled, obtain the conformance window size, determine a resampling ratio between the current picture and a reference picture based on the conformance window size, and perform the reference picture resampling on the current picture using the resampling ratio.~~

~~10. The device of claim 9, wherein the conformance window size is signaled as at least one offset distance from a border of the current picture.~~

~~11. The device of claim 9, wherein the first flag is signaled in a sequence parameter set (SPS), and~~

~~wherein the second flag is signaled in one from among the SPS and a picture parameter set (PPS).~~

~~12. The device of claim 11, wherein the second flag is signaled in the SPS, and indicates whether SPS conformance window parameters are signaled in the SPS.~~

~~13. The device of claim 12, wherein based on the second flag indicating that the SPS conformance window parameters are signaled in the SPS, the conformance window size is obtained based on the SPS conformance window parameters.~~

~~14. The device of claim 12, wherein the program code further includes third obtaining code configured to cause the at least one processor to, based on the first flag indicating that the picture size is not constant, obtain a third flag indicating whether PPS conformance window parameters are signaled in the PPS.~~

~~15. The device of claim 14, wherein based on the second flag indicating that the SPS conformance window parameters are signaled in the SPS, and the third flag indicating that the PPS conformance window parameters are not signaled in the PPS, the conformance window size is obtained based on the SPS conformance window parameters.~~

~~16. The device of claim 14, wherein based on the second flag indicating that the SPS conformance window parameters are not signaled in the SPS, and the third flag indicating that the PPS conformance window parameters are signaled in the PPS, the conformance window size is obtained based on the PPS conformance window parameters.~~

~~17~~13. A non-transitory computer-readable medium storing instructions, the instructions comprising: one or more instructions that, when executed by one or more processors of a device for decoding an encoded video bitstream, cause the one or more processors to perform the method according to any one of claims 1-11.~~:~~

~~obtain a first flag indicating whether a constant picture size is used in a coded video sequence including a current picture;~~

~~based on the first flag indicating that the constant picture size is used, decode the current picture without performing reference picture resampling;~~

~~based on the first flag indicating that the constant picture size is not used, obtain a second flag indicating whether a conformance window size is signaled;~~

based on the second flag indicating that the conformance window size is signaled:

obtain the conformance window size,

determine a resampling ratio between the current picture and a reference picture based on the conformance window size, and

perform the reference picture resampling on the current picture using the resampling ratio.

18. The device of claim 17, wherein the first flag is signaled in a sequence parameter set (SPS), and

wherein the second flag is signaled in one from among the SPS and a picture parameter set (PPS).

19. The device of claim 18, wherein the second flag is signaled in the SPS, and indicates whether SPS conformance window parameters are signaled in the SPS.

20. The device of claim 19, wherein the one or more instructions further cause the at least one processor to, based on the first flag indicating that the picture size is not constant, obtain a third flag indicating whether PPS conformance window parameters are signaled in the PPS.