CLAIMS

1. A method for video decoding performed by at least one processor, the method comprising:

acquiring an input bitstream comprising metadata and video data;

decoding the video data;

determining whether the metadata comprises at least one flag signaling at least one component of a picture size of at least one picture of the video data, wherein the at least one flag specifies whether to display the at least one picture at the picture size according to a value of the component that is present and indicated by the metadata, wherein the component comprises at least one of a width and a height of the at least one picture;

determining, in response to determining that the metadata comprises the at least one flag, whether: the metadata comprises a width value specifying the width with respect to a plurality of pictures, including the at least one picture, and the metadata comprises a height value specifying the height with respect to the plurality of pictures, and wherein at least one of the value of the component comprises at least one of the width and the height;

signaling, in response to determining that the metadata comprises at least one of the width value and the height value, at least one post-resampling process to maintain the at least one of the width value and the height value for display of the at least one picture by a display device; and

signaling the~~, in a case where it is determined that the metadata comprises the at least one flag, a~~ display device to display the at least one picture from the video data according to the at least one flag.

2. The method for video decoding according to claim 1,

wherein the video data is encoded in a versatile video coding (VVC) format.

~~3. The method for video decoding according to claim 1 or 2,~~

~~wherein the at least one flag specifies whether to display the at least one picture at the picture size according to a value of the component that is preset and indicated by the metadata.~~

~~4. The method for video decoding according to claim 3,~~

~~wherein the component comprises at least one of a width and a height of the at least one picture.~~

3~~5~~. The method for video decoding according to claim 1 or 2~~4~~,

wherein the at least one of the width and the height of the at least one picture comprises units of luma samples.

~~6. The method for video decoding according to claim 4 or 5, further comprising:~~

~~determining, in response to determining that the metadata comprises the at least one flag, whether:~~

~~the metadata comprises a width value specifying the width with respect to a plurality of pictures, including the at least one picture, and~~

~~the metadata comprises a height value specifying the height with respect to the plurality of pictures, and~~

~~wherein at least one of the value of the component comprises at least one of the width and the height.~~

~~7. The method for video decoding according to claim 6, further comprising:~~

~~signaling, in response to determining that the metadata comprises at least one of the width value and the height value, at least one post-resampling process to maintain the at least one of the width value and the height value for display of the at least one picture by the display device.~~

4~~8~~. The method for video decoding according to any one of claims 1 to 3~~7~~, further comprising:

signaling, in response to determining that the metadata is absent the width value, the at least one post-resampling process to maintain the width value at a width~~height~~ indicated by a sequence parameter set of the video data.

5~~9~~. The method for video decoding according to any one of claim 1 to 3~~7~~, further comprising:

signaling, in response to determining that the metadata is absent the height value, the at least one post-resampling process to maintain the height value at a height indicated by a sequence parameter set of the video data.

6~~10~~. The method for video decoding according to any one of claims 1~~6~~ to 5~~9~~,

wherein the video data comprises the at least one flag as a video usage information (VUI) parameter.

7~~11~~. An apparatus for video decoding, the apparatus comprising:

at least one memory configured to store computer program code;

at least one processor configured to access the computer program code and operate as instructed by the computer program code, the computer program code including:

acquiring code configured to cause the at least one processor to acquire an input bitstream comprising metadata and video data;

decoding code configured to cause the at least one processor to decode the video data;

determining code configured to cause the at least one processor to determine whether the metadata comprises at least one flag signaling at least one component of a picture size of at least one picture of the video data, wherein the at least one flag specifies whether to display the at least one picture at the picture size according to a value of the component that is present and indicated by the metadata, wherein the component comprises at least one of a width and a height of the at least one picture;

the determining code further configured to cause the at least one processor to determine, in response to determining that the metadata comprises the at least one flag, whether: the metadata comprises a width value specifying the width with respect to a plurality of pictures, including the at least one picture, and the metadata comprises a height value specifying the height with respect to the plurality of pictures, and wherein at least one of the value of the component comprises at least one of the width and the height;

signaling code configured to cause the at least one processor to signal, in response to determining that the metadata comprises at least one of the width value and the height value, at least one post-resampling process to maintain the at least one of the width value and the height value for display of the at least one picture by a display device; and

the signaling code further configured to cause the at least one processor to signal, ~~in a case where it is determined that the metadata comprises the at least one flag, the~~a display device to display the at least one picture from the video data according to the at least one flag.

8~~12~~. The apparatus for video decoding according to claim 7~~11~~,

wherein the video data is encoded in a versatile video coding (VVC) format.

~~13. The apparatus for video decoding according to claim 11 or 12,~~

~~wherein the at least one flag specifies whether to display the at least one picture at the picture size according to a value of the component that is preset and indicated by the metadata.~~

~~14. The apparatus for video decoding according to claim 13,~~

~~wherein the component comprises at least one of a width and a height of the at least one picture.~~

9~~15~~. The apparatus for video decoding according to claim 7 or~~14~~ 8,

wherein the at least one of the width and the height of the at least one picture comprises units of luma samples.

~~16. The apparatus for video decoding according to claim 14 or 15, wherein the determining code is further configured to cause the at least one processor to determine, in response to determining that the metadata comprises the at least one flag, whether:~~

~~the metadata comprises a width value specifying the width with respect to a plurality of pictures, including the at least one picture, and~~

~~the metadata comprises a height value specifying the height with respect to the plurality of pictures, and~~

~~wherein at least one of the value of the component comprises at least one of the width and the height.~~

~~17. The apparatus for video decoding according to claim 16, wherein the signaling code is further configured to cause the at least one processor to signal, in response to determining that the metadata comprises at least one of the width value and the height value, at least one post-resampling process to maintain the at least one of the width value and the height value for display of the at least one picture by the display device.~~

10~~18~~. The apparatus for video decoding according to any one of claims 7 to 9~~17~~, wherein the signaling code is further configured to cause the at least one processor to signal, in response to determining that the metadata is absent the width value, the at least one post-resampling process to maintain the width value at a width~~height~~ indicated by a sequence parameter set of the video data.

11~~19~~. The apparatus for video decoding according to any one of claims 7 to 9 ~~17~~, wherein the signaling code is further configured to cause the at least one processor to signal, in response to determining that the metadata is absent the height value, the at least one post-resampling process to maintain the height value at a height indicated by a sequence parameter set of the video data.

12~~20~~. A non-transitory computer readable medium storing a program configured to cause a computer to perform the method according to any one of claims 1 to 6~~10~~.