

descriptions are provided.

[00318] To resolve the foregoing problem, the embodiments of this application provide, but only limited to, the following several possible implementations.

[00319] In a first possible implementation, for example, some video pictures may have some affine features, while some video pictures may have no affine features. In this case, an identifier may be added to a bitstream to indicate whether an affine motion model-based inter prediction mode is enabled for the video picture.

[00320] In a second possible implementation, for example, not all slices in a video picture have affine features, an identifier may be added to a bitstream to indicate whether an affine motion model-based inter prediction mode is enabled for the slice.

[00321] In a third possible implementation, for example, some video pictures have no affine features, and not all slices of some video pictures have affine features. In this case, two types of identifiers may be added to the bitstream. A first type of identifier is used to indicate whether an affine motion model-based inter prediction mode is enabled for a video picture, and a second type of identifier is used to indicate whether the affine motion model-based inter prediction mode is enabled for a slice in the video picture.

[00322] For ease of subsequent description, the identifier used to indicate whether the affine motion model-based inter prediction mode is enabled for the video picture is referred to as an identifier 1, and the identifier used to indicate whether the affine motion model-based inter prediction mode is enabled for the slice included in the video picture is referred to as an identifier 2.

[00323] In the foregoing three possible implementations, for a picture block included in a video picture or a slice for which an affine motion model does not need to be used, a parameter, related to the affine motion model, of the picture block may not need to be transmitted, for example, affine_merge_flag, affine_inter_flag, or affine_type_flag in Table 1. On a decoder side, during decoding of the picture block, the parameter related to the affine motion model does not need to be parsed. This can reduce load of a decoder, increase a processing speed, and decrease a processing time.

[00324] The following describes in detail the foregoing several possible implementations provided in this application from a perspective of a decoder side with reference to the accompanying drawings. Specifically, the possible implementations may be performed by a video