WHAT IS CLAIMED IS:

1. A decoder configured to:

receive a bitstream comprising a reference picture, a current picture having a resolution different from the reference picture and including a first block and a second block, and information useful for determining a scaling constant;

determine a scaling constant using the information in the bitstream;

determine a scaled prediction block from the reference picture by:

determining a location of the scaled prediction block by scaling a motion vector component using the scaling constant; and

scaling the resolution of a block of the reference picture using the scaling constant and applying a filter determined specifically for the prediction block and not determined for the whole reference picture;

reconstruct the first block using the scaled prediction block; and

reconstruct the second block without using a scaled prediction block.

2. The decoder of claim 1 wherein, the information in the bitstream useful for determining a scaling constant includes an index to a set of predetermined values and said index is utilized to determine the scaling constant.

3. A decoder configured to:

receive a bit stream including a current coded picture comprising a first plurality of coded blocks and a second plurality of coded blocks;

decode each block of the first plurality of coded blocks by:

determining a scaling constant using information in the bitstream; and

determining a scaled prediction block from a reference picture having a different resolution than the current coded picture, by scaling a motion vector component to determine the location of the scaled prediction block, scaling a block from the reference picture using the scaling constant, and applying a filter determined individually for the prediction block;

decoding each block of the first plurality of coded blocks using its scaled prediction block; and

decode each block of the second plurality of coded blocks without using a scaled prediction block of a reference picture and without applying a resolution changing filter specifically determined for a block of a reference picture.

4. The decoder of claim 3 wherein, the information in the bitstream includes an index to a set of predetermined values and said index is utilized to determine the scaling constant.