CLAIMS

1. A method of processing high dynamic range and/or wide color gamut (HDR/WCG) video data, the method comprising: determining a quantization parameter for quantized transform coefficients of a block of the HDR/WCG video data; inverse quantizing the quantized transform coefficients based on the determined quantization parameter to determine dequantized transform coefficients; based on the dequantized transform coefficients, determining a block of residual values for the block of the HDR/WCG video data; based on the block of residual values, determining a reconstructed block for the block of the HDR/WCG video data; determining one or more dynamic range adjustment (DRA) parameters for the block of the HDR/WCG video data, wherein the one or more DRA parameters for the block of the HDR/WCG video data comprise a scaling parameter for a chroma component of the block of the HDR/WCG video data and an offset parameter for the chroma component of the block of the HDR/WCG video data; adjusting the one or more DRA parameters based on the determined quantization parameter to determine one or more adjusted DRA parameters, wherein the one or more adjusted DRA parameters for the block of the HDR/WCG video data comprise an adjusted scaling parameter for the chroma component of the block of the HDR/WCG video data and an adjusted offset parameter for the chroma component of the block of the HDR/WCG video data; and performing DRA on the reconstructed block of the HDR/WCG video data using the one or more adjusted DRA parameters.

2. The method of claim 1, wherein the one or more DRA parameters for the block of the HDR/WCG video data further comprise a scaling parameter for a luma component of the block of the HDR/WCG video data and an offset parameter for the luma component of the block of the HDR/WCG video data, and wherein the one or more adjusted DRA parameters for the block of the HDR/WCG video data further comprise an adjusted scaling parameter for the luma component of the block of the HDR/WCG video data and an adjusted offset parameter for the luma component of the block of the HDR/WCG video data.

3. The method of claim 2, wherein the one or more adjusted DRA parameters comprise an adjusted DRA parameter for a luma component of the block of the HDR/WCG video data, an adjusted DRA parameter for a first chroma component of the block of the

HDR/WCG video data, and an adjusted DRA parameter for a second chroma component of the block of the HDR/WCG video data.

4. The method of claim 1, wherein the one or more adjusted DRA parameters comprise an adjusted DRA parameter for a first chroma component of the block of the HDR/WCG video data and an adjusted DRA parameter for a second chroma component of the block of the HDR/WCG video data.

5. The method of claim 1, wherein determining the one or more DRA parameters for the block of the HDR/WCG video data comprises receiving indications of the one or more DRA parameters as syntax elements in the HDR/WCG video data.

6. The method of claim 1, wherein the reconstructed block of the HDR/WCG video data comprises a filtered version of the reconstructed block.

7. The method of claim 1, wherein determining the one or more DRA parameters for the block of the HDR/WCG video data comprises deriving at least one of the one or more DRA parameters for the block of the HDR/WCG video data based on a dependency between a quantization parameter for a luma component of the block of the HDR/WCG video data and a quantization parameter for a chroma component of the block of the HDR/WCG video data.

8. The method of claim 7, wherein deriving the at least one of the one or more DRA parameters for the block of the HDR/WCG video data based on the dependency between the quantization parameter for the luma component of the block of the HDR/WCG video data and the quantization parameter for the chroma component of the block of the HDR/WCG video data comprises deriving the at least one of the one or more DRA parameters by performing QP to DRA scale conversion.

9. The method of claim 7, wherein deriving the at least one of the one or more DRA parameters for the block of the HDR/WCG video data based on the dependency between the quantization parameter for the luma component of the block of the HDR/WCG video data and the quantization parameter for the chroma component of the block of the HDR/WCG video data comprises deriving the at least one of the one or

more DRA parameters by performing DRA scale to QP conversion.

10. The method of claim 7, wherein the dependency between the quantization parameter for the luma component and the quantization parameter for the chroma component is defined by a codec.

11. The method of claim 7, the method further comprising: receiving syntax elements in the HDR/WCG video data, wherein values for the syntax elements define the dependency between the quantization parameter for the luma component of the block of the HDR/WCG video data and the quantization parameter for the chroma component of the block of the HDR/WCG video data.

12. The method of claim 7, wherein the method of decoding is performed as part of an encoding process.

13. A device for processing high dynamic range and/or wide color gamut (HDR/WCG) video data, the device comprising: a memory configured to store video data; and one or more processors coupled to the memory and configured to: determine a quantization parameter for quantized transform coefficients of a block of the HDR/WCG video data; inverse quantize the quantized transform coefficients based on the determined quantization parameter to determine dequantized transform coefficients; based on the dequantized transform coefficients, determine a block of residual values for the block of the HDR/WCG video data; based on the block of residual values, determine a reconstructed block for the block of the HDR/WCG video data; determine one or more dynamic range adjustment (DRA) parameters for the block of the HDR/WCG video data, wherein the one or more DRA parameters for the block of the HDR/WCG video data comprise a scaling parameter for a chroma component of the block of the HDR/WCG video data and an offset parameter for the chroma component of the block of the HDR/WCG video data; adjust the one or more DRA parameters based on the determined quantization parameter to determine one or more adjusted DRA parameters, wherein the one or more adjusted DRA parameters for the block of the HDR/WCG video data comprise an adjusted scaling parameter for the chroma component of the block of the HDR/WCG video data and an adjusted offset parameter for the chroma component of the block of the HDR/WCG video data; and perform DRA on the

reconstructed block of the HDR/WCG video data using the one or more adjusted DRA parameters.

14. The device of claim 13, wherein the one or more DRA parameters for the block of the HDR/WCG video data further comprise a scaling parameter for a luma component of the block of the HDR/WCG video data and an offset parameter for the luma component of the block of the HDR/WCG video data, and wherein the one or more adjusted DRA parameters for the block of the HDR/WCG video data further comprise an adjusted scaling parameter for the luma component of the block of the HDR/WCG video data and an adjusted offset parameter for the luma component of the block of the HDR/WCG video data.

15. The device of claim 14, wherein the one or more adjusted DRA parameters comprise an adjusted DRA parameter for a luma component of the block of the HDR/WCG video data, an adjusted DRA parameter for a first chroma component of the block of the HDR/WCG video data, and an adjusted DRA parameter for a second chroma component of the block of the HDR/WCG video data.

16. The device of claim 13, wherein the one or more adjusted DRA parameters comprise an adjusted DRA parameter for a first chroma component of the block of the HDR/WCG video data and an adjusted DRA parameter for a second chroma component of the block of the HDR/WCG video data.

17. The device of claim 13, wherein to determine the one or more DRA parameters for the block of the HDR/WCG video data, the one or more processors are configured to receive indications of the one or more DRA parameters as syntax elements in the HDR/WCG video data.

18. The device of claim 13, wherein the reconstructed block of the HDR/WCG video data comprises a filtered version of the reconstructed block.

19. The device of claim 13, wherein to determine the one or more DRA parameters for the block of the HDR/WCG video data, the one or more processors are configured to derive at least one of the one or more DRA parameters for the block of the HDR/WCG

video data based on a dependency between a quantization parameter for a luma component of the block of the HDR/WCG video data and a quantization parameter for a chroma component of the block of the HDR/WCG video data.

20. The device of claim 19, wherein to derive the at least one of the one or more DRA parameters for the block of the HDR/WCG video data based on the dependency between the quantization parameter for the luma component of the block of the HDR/WCG video data and the quantization parameter for the chroma component of the block of the HDR/WCG video data, the one or more processors are configured to derive the at least one of the one or more DRA parameters by performing QP to DRA scale conversion.

21. The device of claim 19, wherein to derive the at least one of the one or more DRA parameters for the block of the HDR/WCG video data based on the dependency between the quantization parameter for the luma component of the block of the HDR/WCG video data and the quantization parameter for the chroma component of the block of the HDR/WCG video data, the one or more processors are configured to derive the at least one of the one or more DRA parameters by performing DRA scale to QP conversion.

22. The device of claim 19, wherein the dependency between the quantization parameter for the luma component and the quantization parameter for the chroma component is defined by a codec.

23. The device of claim 19, wherein the one or more processors are further configured to: receive syntax elements in the HDR/WCG video data, wherein values for the syntax elements define the dependency between the quantization parameter for the luma component of the block of the HDR/WCG video data and the quantization parameter for the chroma component of the block of the HDR/WCG video data.

24. The device of claim 13, wherein the device comprises a wireless communication device, further comprising a receiver configured to receive encoded video data.

25. The device of claim 24, wherein the wireless communication device comprises a

telephone handset and wherein the receiver is configured to demodulate, according to a wireless communication standard, a signal comprising the encoded video data.

26. The device of claim 13, wherein the device comprises a wireless communication device, further comprising a transmitter configured to transmit encoded video data.

27. The device of claim 26, wherein the wireless communication device comprises a telephone handset and wherein the transmitter is configured to modulate, according to a wireless communication standard, a signal comprising the encoded video data.

28. A non-transitory computer readable storage medium storing instructions that when executed by one or more processors cause the one or more processors to: determine a quantization parameter for quantized transform coefficients of a block of high dynamic range and/or wide color gamut (HDR/WCG) video data; inverse quantize the quantized transform coefficients based on the determined quantization parameter to determine dequantized transform coefficients; based on the dequantized transform coefficients, determine a block of residual values for the block of the HDR/WCG video data; based on the block of residual values, determine a reconstructed block for the block of the HDR/WCG video data; determine one or more dynamic range adjustment (ORA) parameters for the block of the HDR/WCG video data, wherein the one or more ORA parameters for the block of the HDR/WCG video data comprise a scaling parameter for a chroma component of the block of the HDR/WCG video data and an offset parameter for the chroma component of the block of the HDR/WCG video data; adjust the one or more DRA parameters based on the determined quantization parameter to determine one or more adjusted DRA parameters, wherein the one or more adjusted DRA parameters for the block of the HDR/WCG video data comprise an adjusted scaling parameter for the chroma component of the block of the HDR/WCG video data and an adjusted offset parameter for the chroma component of the block of the HDR/WCG video data; and perform DRA on the reconstructed block of the HDR/WCG video data using the one or more adjusted DRA parameters.

29. An apparatus for processing high dynamic range and/or wide color gamut (HDR/WCG) video data, the device comprising: means for determining a quantization parameter for quantized transform coefficients of a block of the HDR/WCG video data;

means for inverse quantizing the quantized transform coefficients based on the determined quantization parameter to determine dequantized transform coefficients; means for determining a block of residual values for the block of the HDR/WCG video data based on the dequantized transform coefficients; means for determining a reconstructed block for the block of the HDR/WCG video data based on the block of residual values; means for determining one or more dynamic range adjustment (DRA) parameters for the block of the HDR/WCG video data, wherein the one or more DRA parameters for the block of the HDR/WCG video data comprise a scaling parameter for a chroma component of the block of the HDR/WCG video data and an offset parameter for the chroma component of the block of the HDR/WCG video data; means for adjusting the one or more DRA parameters based on the determined quantization parameter to determine one or more adjusted DRA parameters, wherein the one or more adjusted DRA parameters for the block of the HDR/WCG video data comprise an adjusted scaling parameter for the chroma component of the block of the HDR/WCG video data and an adjusted offset parameter for the chroma component of the block of the HDR/WCG video data; and means for performing DRA on the reconstructed block of the HDR/WCG video data using the one or more adjusted DRA parameters.