

# Exhibit E

*Claim Chart – '532 Patent*

## US Patent 6,473,532 Versus Moto G7 Power Smartphone Video Recording

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SERIES H: AUDIOVISUAL AND MULTIMEDIA

Infrastructure of audiovisual services – Coding of audio and video

### Advanced Video Coding

From Wikipedia, the free encyclopedia

*"AVC1" redirects here. It is not to be confused with AV1 or VP9.*

**Advanced Video Coding (AVC)**, also referred to as **H.264** or **MPEG-4 Part 10**, **Advanced Video Coding (MPEG-4 AVC)**, is a video compression standard based on block-oriented, motion-compensated integer-coding.<sup>[1]</sup> It is by far the most commonly used format for the recording, compression, and distribution of video content, used by 91% of video content.<sup>[2][3][4]</sup>

6. A method of visual lossless encoding of frames of a video signal, the method comprising steps:
- spatially and temporally separating and analyzing details of said frames;
  - estimating parameters of said details;
  - defining a visual perception threshold for each of said details in accordance with said estimated detail parameters;
  - classifying said frame picture details into subclasses in accordance with said visual perception thresholds and said detail parameters; and
  - transforming each said frame detail in accordance with its associated subclass.

Claim 6

[https://www.gsmarena.com/motorola\\_moto\\_g7\\_power-review-1889p5.php](https://www.gsmarena.com/motorola_moto_g7_power-review-1889p5.php)

A method of  
visual  
lossless  
encoding of  
frames of a  
video signal,  
the method  
comprising  
steps of:



Videos shot on the Motorola G7 Power in 4K and 1080p resolution at 30 fps get saved in a rather standard configuration of a 17-ish Mbps AVC video feed and a 48kHz stereo AAC track, inside an MP4 container. The frame rate remains pretty steady at 30 fps.

Quality is actually quite good with plenty of detail for the class, high contrast, and lively colors. The dynamic range is about average.

**Claim 6**

A method of **visual lossless** encoding of frames of a video signal, the method comprising steps of:

<https://slhck.info/video/2017/02/24/crf-guide.html>

**What bitrates will I get?**

*{Note: G7 Power video is encoded with "CRF" of ~16, from bit rate of of 1}*

To give you an estimation of the bitrates to be expected for clips with different resolutions, here's showing the average bitrate in MBit/s for four one-minute video clips with different encoding conditions encoded with x264 and different CRF values:

The figure consists of four sub-graphs, each representing a different video clip: BigBuckBunny, ElFunte, Meridian, and TearsOfSteel. Each graph plots average bitrate in MBit/s on a logarithmic y-axis (ranging from 0.05 to 100.00) against CRF values on the x-axis (ranging from 20 to 40). Five colored lines (red, green, blue, purple, pink) represent different resolutions. A red dashed horizontal line is drawn across all graphs at approximately 16 MBit/s. Red circles and arrows highlight that this bitrate corresponds to a CRF value of approximately 16 for all clips.

**{Note: Logarithmic scale}**

**{Note: The**

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