



BOSCH
Invented for life

Bosch and H.264

Technology Brief



H.264 is an open standard that utilizes the most efficient video compression techniques available today. This standard follows on from the highly successful MPEG-2 and MPEG-4 video standards and offers advantages in video quality and compression.

Designed to compress and decompress digital video, H.264 is used to reduce the amount of bandwidth required to transmit and store video, offering new possibilities to reduce storage costs and increase efficiency

In applications demanding high resolution and high frame rates (25/30 IPS) as found in the gaming industry, airports and traffic surveillance, Bosch and H.264 will be able to make a difference and deliver big savings by reducing bandwidth and storage needs.

H.264 is expected to be the video standard of choice in the coming years.

Bosch uses H.264 to offer you:

- **Lower storage costs** without loss of image quality, frame rate and retention time.
- **Higher quality images** and **higher frame rates** at the same drive size, retention time and bandwidth.

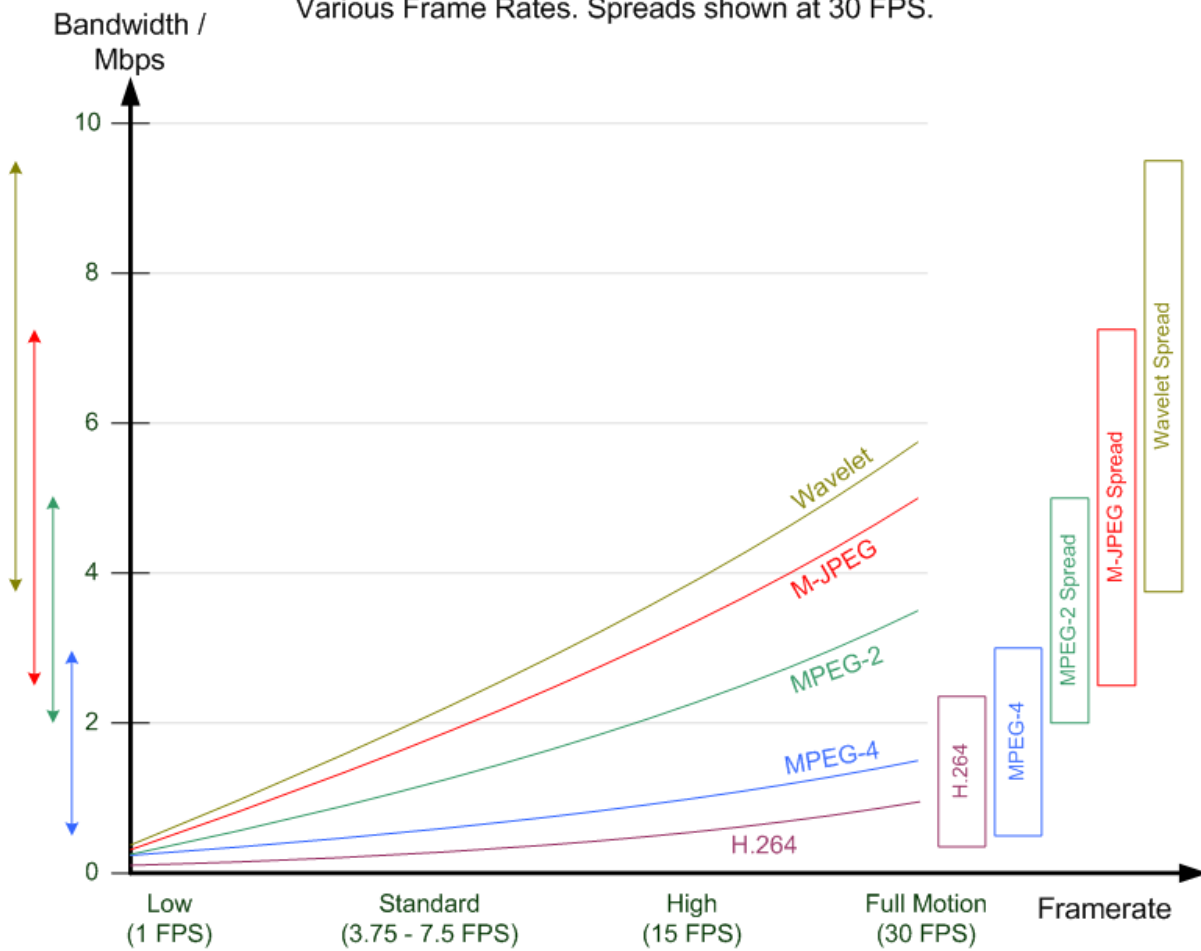
Unprecedented video quality.

H.264 is the latest innovation in video compression technology used by Bosch to provide clear video for the best possible viewing experience. Every detail in the image is captured without any compromise in frame rate. An indispensable feature for object recognition (such as license plates or a person's face).

Less hungry for storage

Without compromising image quality, Bosch and H.264 can reduce the size of recorded video by more than 80% compared with the Motion JPEG format, by as much as 50% compared with the traditional MPEG-4 Part 2 standard, and by an estimated 30% compared with MPEG-4 compression. This is where Bosch and H.264 will make a difference in demanding video surveillance applications

Performance of Different Video Compression Algorithms at Various Frame Rates. Spreads shown at 30 FPS.



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Network load friendly

For the same amount of video data, with the same image quality, a Bosch video surveillance system supporting H.264 compression will reduce the network load compared with using conventional compression technologies. This means that much less network bandwidth is required for the video stream, resulting in a higher video quality per given bit rate.

H.264 is the new worldwide standard

With support from many industries and applications for consumer and professional needs, H.264 is expected to replace the majority of compression standards and methods used today.

Building on standards and innovative future-proof technology.

Using industry standards like H.264, Bosch is focusing on minimizing risk and maximizing reliability and stability. The use of future-proof technology ensures that Bosch can meet any new developments in the industry, meaning less risk in terms of expanding our products and systems or integrating them into existing and new installations.

Important note

H.264 is not an overall standard synonymous with high quality images, low bandwidth or less storage consumption. It all comes down to how manufactures implement H.264 technology in their products.

Bosch has implemented H.264 in the Divar XF, creating a superior recorder that generates the best possible image quality at the highest possible resolution (4CIF/D1) at a remarkable bit rate.

Look out for more Bosch H.264 supported products.

Bosch Security Systems
www.boschsecurity.com