

MPEG-1 Software Video Codec

www.streaming-networks.com

Optimized for Philips Nexperia tm media processors (with Trimedia VLIW processor Core)



OVERVIEW

The fully ISO-compliant Streaming Networks MPEG-1 software video codec brings near-studio-quality video encoding and decoding to embedded systems that require a low memory footprint.

OPTIMIZED FOR NEXPERIA

Optimized for use with the Philips Nexperia family of media processors (with TriMedia VLIW processor cores), the software codec is flexible, scalable, cost-effective, and easy-to-use.

HIGH QUALITY COMPRESSION

The codec delivers good compression without compromising video quality and generates content that is decodable on a variety of players. It can be used to store personal videos on a CD or hard disk, transmit content over the Internet in real time, or view files on a PC or portable DVD player.

The encoder uses a standard analog video signal to generate an elementary digital video stream ready for independent use or as part of a program stream. The decoder also works with elementary and program streams.

HIGH BITRATE SUPPORT

The codec supports bit rates ranging from 384 kbps to 2 Mbps. A variable bit rate (VBR) option enhances video quality even further. The codec supports CIF (352x288) and SIF (352x240) image sizes and Intra (I), Predictive (P), and Bidirectionally predictive (B) image types as well as user-controlled GOP.

Frame rates are specific to individual applications and are influenced by factors such as image size and image quality, but the codec typically delivers a progressive NTSC rate of 30 frames per second (CIF) and a progressive PAL rate of 25 frames per second (CIF).

RELIABILITY

A well-documented, easy-to-use application programming interface (API) is included with the codec. The API lets developers control library behavior and provides all the functionality for frame capture, encode/decode, and display.

ISO compliant

Strict adherence to ISO standards

VBR

Variable bitrate option where video quality cannot be compromised

Amazing Video Quality

Never seen before Video quality using the best possible algorithms

KEY FEATURES

- Bit rates
 - 384 Kbps to 2 Mbps
- Fully ISO-compliant MPEG-1 software video codec for
 - Embedded systems with low memory footprint
 - Philips Nexperia family of media processors (with TriMedia VLIW processor cores).
- High-quality output bitstreams
 - Elementary digital video stream for independent use or as part of a program stream
- Range of bit rates
 - 384 kbps to 2 Mbps
 - Variable (VBR) and constant (CBR) bit rate encoding
- Range of image sizes and types
 - CIF (352x288)
 - SIF (352x240)
 - I, P, and B types
 - User-controlled GOP
- Fast frame rates
 - Typical progressive NTSC: 30 frames per second (CIF)
 - Typical progressive PAL: 25 frames per second (CIF)

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