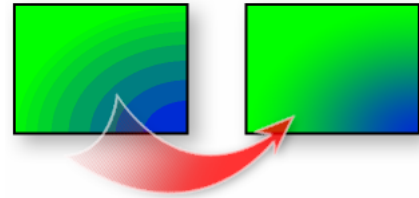


YUV Super Precision Technology

High-quality technology
for increasing video
color depth without
loss of detail

Video with a high compression ratio or video from a low-quality camera often contains too few colors. In such cases, color depth artifacts can be visible, usually as false contours.

The YUVsoft Super Precision Technology is designed to increase the color depth of video (bits per pixel), while preserving details and borders.



Primary Applications

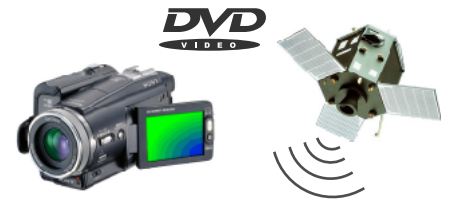
- Flat-panel plasma and LCD displays
- High-quality 10-bit projection equipment
- Electronic billboards
- Video transcoding

Key Features

- High-quality increase in color depth
- Edge area enhancement
- Fully automatic
- Adjustable speed/quality trade-off
- No known direct competitors

Basic Deliverables

- Source code for a reference implementation in C
- C and assembly language source code for an implementation optimized for the PC (if required)
- C++ and assembly language source code for an implementation optimized for the PC (if required)
- Algorithm description
- Software description
- Verification instructions



Low-quality compressed video

YUV Super Precision Technology

Video with increased color depth



YUVsoft Corporation

web: www.yuvsoft.com

e-mail: customers@yuvsoft.com

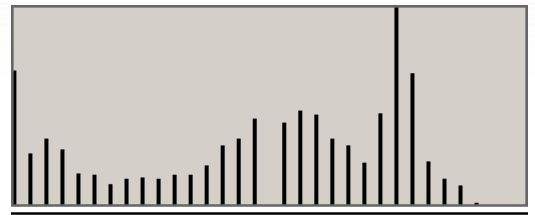
phones: +1 408 426 5988

+7 906 744 0865

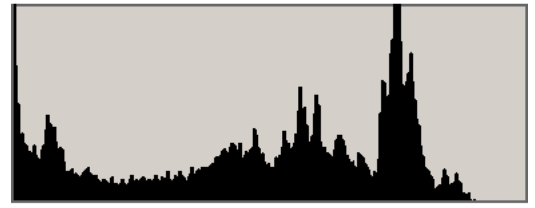
YUV Super Precision Technology

Specification

- Fully automatic
- Controllable speed/quality trade-off
- Motion compensation
- Integer arithmetic
- Fully sequential processing available
- Ample potential for parallelization



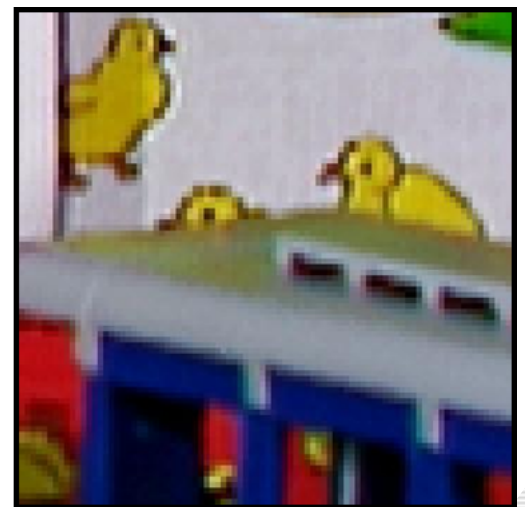
Histogram of original video frame,
5 bits/pixel



Histogram of the same frame
after YUV Super Precision



Original video, 5 bits/pixel



The same frame after
YUV Super Precision