High-Definition Video Processor (HDVP)

Bringing HDTV to the Masses

Few events in the consumer electronics industry have been as highly anticipated as the roll out of digital television. Consider the fact that television-broadcasting formats have changed very little in the past 50 years: television is still broadcast over an analog signal with 525 scan lines per image. Now, with the advent of digital television (DTV), clear, high-resolution pictures are possible. By combining DTV with Dolby Digital Surround Sound, high-definition television (HDTV) brings you the ultimate in picture and audio quality.

With HDVP consumers gain a cost-effective solution for viewing HDTV content using an existing PC and a low-cost DTV receiver.

What is HDVP?

NVIDIA's high-definition video processor (HDVP) covers the most expensive part of HDTV by transforming your computer into the optimal home entertainment system. Unfortunately, the biggest entry barrier to viewing digital television is the cost of the digital set. Most digital televisions are in the $4000 to $6000 range, and typically consumers must also purchase a set-top decoder box, costing an additional $1000 to $1500. By simply using an existing computer with an NVIDIA GPU and a low-cost DTV receiver, consumers can have one of the most amazing video applications on today's computer technology, without shelling out thousands of dollars for equipment.

Featured in all NVIDIA GPUs, HDVP supports all 18 ATSC formats with a single DTV receiver card—which translates into impressive HDTV playback on your computer display.

Moving beyond simple analog timeshifting, NVIDIA's HDVP delivers the power to rewind or pause live television, to downscale high-definition content on to your TV, and to drive displays beyond HDTV resolutions.

With the increasing availability of HD broadcasts, HDTV playback is becoming one of the most compelling video applications. NVIDIA's HDVP solution provides a cost-effective and first-class implementation for HDTV playback. (http://www.OrpheusComputing.com/)