



Dolphin AVCHD-USB

External USB HD H.264 Video Capture Device

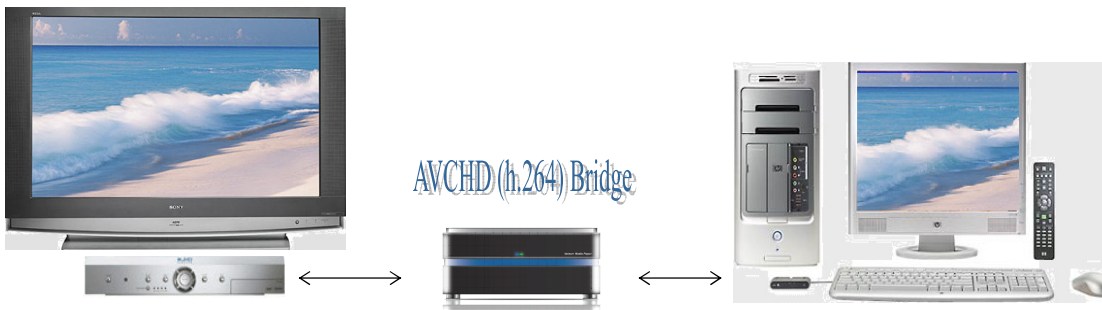
Product Overview

Dolphin is a broadcast quality, **High-Definition**, USB audio-video capture solution for Windows XP/Vista that supports real-time analog to H.264 video encoding from QCIF to 1920x1080i & 720p60. Dolphin supports both analog to AAC/PCM and Dolby Digital audio capture and processing. Dolphin can be utilized as a PC-USB streaming peripheral and a stand-alone DVR with external USB Mass Storage.

Dolphin features a hardware h.264 HD codec suitable for professional broadcast applications. The codec features include:

H.264 Codec

- Main Profile up to L4.1 w/CABAC Entropy Encoding
- CBR/VBR from 128 kps to 25Mbs
- QCIF, CIF, VGA, D1, 720p30/60, 1080i60
- Tap Filters for Enhanced Video Scaling
- NTSC, PAL or SECAM video formats
- 16-bit Audio ADC/DAC with 24, 32, 48 KHz Sample Freq.
- Built-In USB Transceiver
- Integrated HD and SD Analog Output.
- VBI extraction
- “1/4 Pixel” motion compensation
- Multiple motion compensation block sizes
- Advanced intra-prediction
- Normative de-blocking filter
- Better motion vector prediction and direct-mode for motion overhead management
- Multiple reference frames
- Context Adaptive Binary Arithmetic Coding (CABAC)



General Feature Set

- World-wide analog video standards (NTSC, PAL or SECAM) with a single SKU
- Hardware-based HD H.264 Encoding
- High Performance Noise Reduction Function
- Special Algorithm for Chroma Suppression
- **BD and HD-DVD Compliant Capture for Direct-to-Disc**
- Audio-Video HD Loop-Thru to enable HD Viewing and Capture at the same time.
- USB2.0 High Speed Device

Power

Approximately 1.5A @ 5V

Thermal

-5 to +70 C

Dimension

Approximately 6.5 inch x 6.5 inch

I/O

- YPbPr / Component Input and Loop-Thru Output
- SPDIF Input and Loop-Thru Output (Optical or Electrical)
- Left / Right RCA audio Input and Loop-Thru Output
- Composite Video RCA Input
- S-Video Din Input
- Mini-Jack (3.5mm) Audio Input
- IR Receiver
- USB 2.0

Driver

The Encoder chip microcode is downloaded over the USB bus so that the unit can be upgraded in the field. The driver works under Windows XP & Vista. The drivers are WDM Direct Show compliant and can be integrated with a variety of 3rd party applications.

Tests and Certificates:

- FCC/CE/VCCI Class B
- Hardware reliability testing
- WHQL