



# Wave ATSC USB PVR

## External COMBO Tuner and MPEG Video Capture Device for MCE

### Product Overview

Wave ATSC USB PVR is an external Combo TV tuner solution for Windows Media Center Edition. Wave ATSC supports analog TV (NTSC), digital broadcast TV (ATSC) as well as baseband AV inputs. Wave ATSC can capture/view an analog and a digital stream simultaneously.

Wave features a high quality hardware MPEG encoder which offers three-dimensional (3D) luminance/chrominance (Y/C) separation, 3D noise reduction and highly efficient MPEG-2 encoding.

The Wave driver will support multiple units connected to a single PC for dual tuner operation under Microsoft's Windows MCE Vista application.

### I/O

- RF Input (Digital Antenna) via a single "F" connector"
- RF Input (Analog Cable) via a single "F" connector"
- S-Video mini-DIN connector (baseband video).
- Composite Video RCA connector (baseband video).
- Dual RCA stereo audio connectors (baseband audio)
- Single USB connector (separate USB cable)

### General Feature Set

- Supports Analog broadcast TV (NTSC)
- Hardware-based MPEG-2 Encoding
- Stereo audio decoding (48kHz)
- Video quality enhancements, including 3D Y/C separation and 3D noise reduction
- Full 10-bit D-1 capture in NTSC
- DVD formatted recording
- USB 2.0
- Bus Powered (requires 950mA across the bus)  
(Can be powered from external supply)

### Power

The unit is powered from the USB bus and draws

- 5.0V at 950mA

### Thermal

Operating Temperature: 0 to 55 degrees C ambient [5-85% relative humidity]

### Dimension

5.0 inch x 3.7 inch



### MPEG Encoder

- MPEG-2 format
- VBR from 2 Mbps to 15 Mbps for MPEG-2
- NTSC video formats
- Programmable 3-D filter
- Auto 3:2 pull down detection
- VBI extraction
- DVD, iPod, PSP formats available

### 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 MCE (Windows XP & Vista).

The drivers are WDM/BDA compliant and can be integrated with a variety of 3<sup>rd</sup> party applications.

### Tests and Certificates:

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