

Red

driving tomorrow's vision today



Key Features

- MPEG 1, 2 and 4 Decoder on a single PCI board
- VGA Video-in-a-Window
- RGB, YUV, Composite and S-Video outputs
- Stereo audio channel out (line level)
- Multi-card support
- Windows Media Player and DirectShow support
- Supports System, Program and Transport Streams
- Auto detect compression format
- MP4 File format and ISMA
- Divx Files

The growth in storing and distributing video content across networks continues at an unprecedented pace. Many applications found in broadcast, corporate and institutional environments are built on the ability to offer archiving, content retrieval, streaming, entertainment and training. Each require the best available quality and flexible functionality demanded from a decoder.

Red has been designed as a low cost streaming decoder. Its short profile is suitable for corporate desktop and thin client PCs. The CPU load used by the board, running at less than 4% eliminates performance issues associated with the alternative software decoding solution.

Red provides 24/7 decoding, supporting Microsoft Windows Media Player through DirectShow. This makes it ideal for larger scale projects where a more robust delivery is essential.

Red is supplied in two flavours:

Lite Red provides hardware acceleration for rendering video and audio to the existing PC's VGA and audio outputs.

Red provides both hardware acceleration for rendering content to the existing PC's VGA and other outputs, as well as through a separate DVI connector. The DVI offers a single channel MPEG 1, 2 and 4, stream or file decode up to Full D1 (MPEG4 & MPEG2) to PAL/NTSC, Composite, S-video, RGB and YUV.

Red is an ideal streaming receiver for public kiosk and plasma screens presenting both analogue video-out and Video-in-a-Window using DirectDraw.

Project development support, receiver management software and free issue SDK are available from Breeze Technologies.

Video Output

- Composite, YUV, RGB, S-Video

Video Input

- VGA and Video-in-a-Window
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Audio Output

- 1 x unbalanced stereo

Video Decoding

- MPEG1, 2 and 4
- 7-tap horizontal and 2-tap vertical filter
- Letterbox conversion
- 3:2 pulldown
- Closed caption and teletext

Audio Decoding

- MPEG1 layer I and II
- MPEG1 layer 3 (MP3)
- AAC and AC-3
- Sampling frequencies 32, 44.1, 48 and 98kHz
- Bits per channel: 16, 20, 24, 32

Demultiplexing

- System, program and transport stream
- MP4 file format
- DivX

Graphics

- On Screen display

Power Consumption

- 2w @ + 5 VDC
- 9w @ + 3.3 VDC

Standards Compliance

- CE and FCC approved
- ISO /IEC 14496 and ISO/IEC 13818 compatible

System Requirements

- Win XP, 2000, NT4

Available in short profile and tall profile options