



**NEUROSPEC**  
Research Neurosciences

Compumedics  
**PROFUSIONDV™**  
DIGITAL VIDEO

## No Compromises *Digital Video for EEG and Sleep*

Compumedics Digital Video is a plug-in software module to quickly and easily add synchronized digital video capabilities to Compumedics sleep and EEG systems. As with all Compumedics products, Digital Video incorporates the latest network and software technologies in order to offer the user a finely tuned, high performance application. This software product integrates seamlessly with Compumedics EEG and PSG data collection and review software packages.

## No Compromises *Advanced Software and Hardware Compression Technology*

- Accurate image reproduction
- Lowest possible data storage requirements
- MPEG-4 for smooth LAN or WAN network viewing
- Simultaneous viewing from multiple sites on the network
- No special processing hardware required for lower resolutions (Full D1 MPEG-4 does require hardware)

## Compumedics

Compumedics is recognized around the world as a leader in integrating innovative technologies into its clinical systems. Examples of Compumedics' world leading technologies include:

**Siesta**, the world's first ambulatory physiological data recorder utilizing a real-time radio link for wireless data transmission.

The **e-Series** amplifier system offers up to 58 channels of physiological data acquisition for polysomnography and 64 channels for electroencephalography linked to the computer network with an integrated multi-cast TCP/IP link.

Compumedics **Digital Video** has been an integral part of this superior product line up, and now improves its capabilities for superb image quality.

NO COMPROMISES



Compumedics started with a consistent and stable video recording platform, then developed multiple user interface options for data review. Each option includes review and control features important to each specific application.

## ProFUSION<sup>TM</sup> eeg User Interface

Controls    Frame by Frame Forward/Reverse    Review Speed Control- From 0.1 to 8 Times Real-time    Forward/Reverse at Selected Speed

Zoomed Image    Pan within Zoomed Frame

Precise Time Information - to a single image frame (0.033 Seconds for NTSC, 0.04 seconds for PAL)

Mouse Directed Zoom

## ProFUSION<sup>TM</sup> PSG User Interface

Play Pause Controls    Efficient, Combined Review Speed and Direction Control



The ProFUSION PSG User Interface offers the zoom and pan features illustrated at left. Available for infrared or color video.

## Features: 32 Bit Network Performance

- Developed and validated on Windows® XP
- Choice of software or new hardware compression
- Network optimized algorithms MPEG-4 software compression
- Collection of waveforms and Video on a notebook computer
- Optimized for intranet multicast viewing
- Operates with many Windows®- compatible video capture devices
- USB2 input for simplified installation of hardware compression option
- User selectable video storage location on the LAN
- Real-time remote viewing of video over the network
- Compumedics Digital Video recordings are formatted as standard Windows® -compatible AVI files
- Option to display video on second computer monitor

## Unparalleled Record/Review Features

- Selectable recording frame rates 1-30 FPS
  - full PAL at 25 frames per second
  - full NTSC at 30 frames per second
  - or CIF (1/4 of PAL)
- Selectable image resolution: up to 640 x 480 pixels with software compression modes
  - Resolution: MPEG 4: 720 x 576 in Microsoft® or DivX format
- Mono or Stereo audio recording
- Selectable review speeds - from 0.1 to 8 times real time
- Frame by frame advance/reverse (ProFUSION EEG only)
- Video Image Zoom in and out
- Mouse wheel zoom control
- Full pan control within zoomed video image
- Full pan and zoom controls available during data collection and review
- Discrete video and waveform editing
- Video and raw data consolidation for CD/DVD archiving

### For more information:

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**COMPUMEDICS**  
'Defining Life's Signals'

AB495 Version 2