



# Resolve® Data Sheet

## Basic Features

- ▶ Real-time 2048x1556x10 bit image processing and playback
- ▶ Graphical user interface for intuitive operation
- ▶ Resolution Independent
- ▶ Non-linear workflow with in-context grading
- ▶ Node map pictorial view of parallel or cascade signal processing workflow
- ▶ Pan, Tilt, Zoom, Rotate of source material
- ▶ User-definable output formatting for universal mastering
- ▶ Multiple channels of color processing
- ▶ Each channel provides primary and secondary enhancement with:
  - ~ 64 bit YRGB processing optimized via PowerPlant™ accelerators
  - ~ Primary corrections with True Gamma™
  - ~ Saturation and hue offset controls
  - ~ User definable hue, saturation, luminance (HSL) qualifiers
  - ~ Custom Curves™ user definable gamma controls
  - ~ YSFX luminance and saturation effects
  - ~ Circular and quad shaped PowerWindows™
- ▶ Scene Detection
  - ~ Automatically splits pre-conformed source material into separate clips
  - ~ Intuitive GUI displays previous, current and next frame for detection accuracy
- ▶ Render caching to disc complements PowerPlant acceleration for greater image processing efficiency at any resolution
- ▶ Multi-point three dimensional object tracking
- ▶ Defocus
  - ~ Available in all channels simultaneously
  - ~ Optimized performance via PowerPlant accelerators
  - ~ Blur applied
    - ~ to any HSL qualifier
    - ~ to node alpha channel
    - ~ at any point in the node graph
  - ~ Blur amount dynamically controlled

## File Management Features

- ▶ File browser provides direct access to view and select files on a qualified network
- ▶ Media pool database directly links image to file location
- ▶ Scrub clips of any scene to select desired frame
- ▶ Visual Scene Representation (VSR) thumbnails
- ▶ Memory save, load, copy and recall
- ▶ Supports DPX file format
- ▶ ADIC StorNext file system license
- ▶ SGI CXFS compatible

## Conform Tools

- ▶ EDL import & list management
- ▶ Color correction timeline allows multiple EDL versions
- ▶ Rendered content dissolves and speed changes
- ▶ Sort and play in A mode (record time) or C mode (source time) order
- ▶ Mix multiple resolutions on the same timeline

## Reference Store and Image Wipe

- ▶ Reference store for permanent storage of images
- ▶ Color enhancement parameters saved to and recalled from memory
- ▶ Scene comparison via horizontal and vertical wipes or dissolves
- ▶ Reverse wipe positions between reference and live images for easier comparison
- ▶ Reference wipe displayed simultaneously on output monitor, waveform monitor and VGA display

## System Components

- ▶ da Vinci Control Panel Interface
    - ~ 2K Plus™-style trackball panel
    - ~ 2K Plus-style motion control panel with qwerty keyboard
    - ~ Panel power supply
    - ~ Mouse and keyboard
    - ~ KVM switch
  - ▶ Exclusive PowerGrid™ image processing acceleration
    - ~ (3) PowerPlant accelerator boards
    - ~ Plugs directly into a PCI slot of general purpose computer
    - ~ Massively paralleled bit processor
    - ~ Flexible, programmable architecture
  - ▶ Monitoring\*
    - ~ 23" graphical user interface monitor
    - ~ 20" Flat Panel Waveform Monitor Display
    - ~ Waveform monitor including
      - ~ Parade
      - ~ Vector
      - ~ Histogram
      - ~ Overlay with Programmable level markers
    - ~ Cinespace™ Calibration application including X-Rite Probe
- \* SDTV or HDTV monitor user supplied

## Computer/Networking Platform

- ▶ Linux Enterprise operating system
- ▶ Gigabit ethernet interface in each computer
- ▶ InfiniBand™ high-speed networking topology for each computer including HCA interface cards and cables
- ▶ Host processor chassis (Resolve 1) for graphical user interface, control panels, and video I/O where applicable
- ▶ Waveform chassis (Resolve 2) provides simultaneous real-time monitoring independent of the host processor
- ▶ Server interface bridge (Resolve 3) includes quad fibre channel card and ADIC StorNext file system license
- ▶ PowerPlant chassis (Resolve 4) scaleable processing

## Available Options

- ▶ HDTV/SDTV 4:2:2 and 4:4:4 dual link video input/output module
- ▶ SDTV 4:2:2 video input/output module
- ▶ Local storage
  - ~ 2.3 TB JBOD chassis expandable
  - ~ 1.9 TB RAID5 chassis expandable

# da vinci

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