



# 2K Plus™ Data Sheet

## Standard Features

- ▶ All features function in all selectable resolutions
- ▶ List management supports copying settings from scene to scene
- ▶ PowerGrade™ effects library supports user built effects and settings
- ▶ Graphical user interface for monitoring the status of the 2K Plus & connected devices
- ▶ Scene detector operates in all resolutions
- ▶ Multiple key busses for matte and key sharing
- ▶ Scene-by-scene final Chroma Light and Chroma Dark with variable high and low clip softness adjustments
- ▶ Scene-by-scene RGB independent black & white clipping
- ▶ Scene-by-scene blanking with predefined and user aspect ratios
- ▶ Cursor generator for safe title, safe action and center cross
- ▶ Input, Output and Monitor LUT support

## Both Inside and Outside PowerWindows Primary Color Correctors -

- ▶ 4 Channel 16 bit YRGB processing
  - ~ True Gamma™
    - ~ Precise gamma control eliminates tracking errors
  - ~ Custom Curves™
    - ~ Real-time, frame-by-frame programmable
    - ~ Independent of True Gamma adjustments
  - ~ YSFX
    - ~ Real-time luminance and chroma inversion and special effects tools

## Both Inside and Outside PowerWindows Secondary Color Correctors -

- ▶ Qualify color using hue, saturation and luminance with high and low softness controls for luminance and saturation clip adjustments; overlap qualifications in any color dimension
- ▶ Nine user-defined vectors plus six predefined vectors both in and out of window
- ▶ Corrections include hue shift, sat gain, luminance gain, lift & UV offset
- ▶ Vectors may be inverted and individually assigned to a key buss

## da Vinci Exclusive PowerWindows™

- ▶ Elliptical and quadrilateral shape generators on independent timelines
- ▶ Elliptical shape's aspect unlimited in either direction; virtually unlimited edge softness
- ▶ Quadrilateral shape's edge softness is per edge; additional control for corner rounding
- ▶ Shapes can be mixed and also combined with input key signals
- ▶ Independent mixers for primary and secondary color correctors

## VSR Plus (Visual Scene Representation)

- ▶ Works with Gallery™ to manage Visual Scene Reference thumbnail images (VSRs)
- ▶ Visual cueing to master list events in both normal and scroll mode
- ▶ Two image browsers, with storyboard, playback and print functions

## Gallery Still Store

- ▶ Resolution independent image server uses the 2K Plus' internal reference wipe
- ▶ Storage and retrieval of images for comparison by wipe, mix and key
- ▶ Backup of sessions, stills and VSRs to CDROM or network server
- ▶ Copy grades from other sessions and users

## List Import/Export

- ▶ 2K Plus will import and export CMX Edit Decision List using standard floppy
- ▶ TLC FLEx list import/export supported
- ▶ List import to 2K-TLC and color list

## Telecine, Server & VTR Source Interface

- ▶ Serial or Ethernet controls for:
  - ~ Telecine
    - ~ Cintel: DSX, C-Reality, Rascal, Callisto, and Ursa series
    - Cintel/ITK: Millennium series and Y-Front
    - ~ GVG/Thomson: Spirit DataCine, Shadow and Spirit 4K
    - ~ DAV: Cineglyph
    - ~ Sony: Vialta
- ▶ Tape-to-tape:
  - ~ Sony or Ampex protocol compliant serially controlled devices
- ▶ Server:
  - ~ Thomson/GVG Spectre
  - ~ Quantel iQ
  - ~ DVS Clipster

## TLC-2K Editing by da Vinci

- ▶ Controls a Source Telecine, VTR or Server and up to 15 serially controlled devices (up to 8 VTRs)
  - ~ SMPTE A and SMPTE B mode editing with 3:2 management
  - ~ Dual sync 23.98 and 29.97 synchronization in 23.98 sF mode
  - ~ List management, dailies logging, EDL import/export, FLEx and CMX files
  - ~ Keycode interface: Cinema Products, RIM, Evertz, and Aaton
  - ~ Switcher Interface: GVG 100

## Peripheral Accessory Interfaces

- ▶ Noise & Grain Reducers: Serial or Ethernet Interface
  - ~ GVG/Thomson MNR 9,10,11, VS4, Scream, Scream 4K
  - ~ Digital Vision support B11 and G protocols
  - ~ Accom DIE 125M
  - ~ Snell & Wilcox Niagara
  - ~ Teranex StarFilm
- ▶ Formatter: Serial Interface
  - ~ Snell & Wilcox Ukon
  - ~ Teranex Xantus
- ▶ Machine Control:
  - ~ Control of VTR, DDR, ATR, DAT and other serially controlled decks. All 2K Plus systems have machine control for up to 8 decks.
- ▶ General Purpose Interface: Fully Programmable.
  - ~ 15 open collector TTL switch close/open/momentary or pulse at every scene change plus 15 GPI inputs

## Monitoring

- ▶ Stairstep and analog video outputs are provided for a suitable YRGB parade scope
- ▶ Downconverter with SDI output at same frame rate
- ▶ RGBHV analog outputs for DATA/HSDL picture monitoring
- ▶ UXGA GUI monitor supplied for system control and monitoring

## Available Options

- ▶ PowerTiers™
- ▶ Defocus and Defocus Plus™
- ▶ Toolbox2™
- ▶ Palette™
- ▶ TLC Assistant

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