

# iQ for Grading and da Vinci

The combination of iQ and da Vinci brings new creative and workflow benefits to conventional telecine or tape-to-tape colour correction applications. For Digital Intermediate work the partnership brings interactive colour control and the ability to grade shots in context giving directors and DoPs a much better feel for how the complete job will look.

## Grade in context

iQ instantly conforms multi-resolution material from telecines, scanners and other sources and then hands over control to the da Vinci 2K Plus. The colorist works with the powerful da Vinci colour toolset but with immediate access to every shot right where it should be in the edit. Everything happens in realtime with interactive full quality monitoring.

## Post 2K Plus reframing

The 2K Plus x, y, z framing controls are linked to realtime sizing hardware in iQ that is downstream of the colour corrector for true Power Window flexibility. Set up Power Windows and adjust x, y, z and everything stays locked together. The realtime control between the da Vinci and iQ allows framing changes to be keyframed with complete accuracy, just as if the film were on the telecine – only without the time wasted loading and spooling.

## Multi-resolution operation

iQ brings multi-resolution flexibility to colour correction. In addition to supporting HSDL, HD-RGB, HD and SD connections to the da Vinci, iQ can pre-size multi-resolution timelines for colour correction. This multi-resolution flexibility allows the colour correction to work with full quality material and media from offline and 3D test renders in the same project, allowing a much earlier view of the complete project than is possible with any other method.

## Output versioning

iQ's powerful format and aspect ratio versioning capabilities mean producing different versions for international markets is a breeze. iQ can directly output to HD or SD VTRs and via the network to film recorders or DVD authoring systems.

## Business advantage

The power of the iQ and da Vinci combination makes telecine work harder for you. Material is transferred 'flat' into the iQ in a single pass, reducing the risk of damage to precious film and freeing up the telecine for other work. iQ's full editing toolset means shots can be dropped into the piece without interrupting the session or moving to another suite. Even simple fixes can be done there and then, increasing productivity still further.

## Revival compatible

The Revival restoration system from da Vinci can also access the media on iQ, allowing teamworking between its sophisticated automated restoration tools and the colour correction process.

## The iQ and da Vinci Edge in Colour Correction

- Interactive in-context 2K grading
- Post 2K Plus sizing for maximum Power Window flexibility
- Easily drop in late arriving shots using iQ's editing tools
- Run optical effects plugins to simulate telecine filters
- Import and conform Cineon and DPX 2k 10 bit 4:4:4 log files
- Realtime reframing gives telecine flexibility from disk
- Instantly use 2K, SD and HD material without reconfiguration
- Share EDL and media with online for totally interactive post production workflow
- Teamwork with Revival for integrated restoration and colour correction applications
- Free up telecine for other work



da Vinci 2K Plus

# iQ for Grading and da Vinci in detail

## **iQ for Grading**

iQ for Grading is a powered-up version of iQ for Digital Intermediate and other colour correction applications. Designed to partner the da Vinci 2K Plus, iQ for Grading delivers a multi-resolution finishing environment with realtime disk and sizing hardware for interactive in-context 2K grading.

## **iQ for Grading software**

### **Qgrade Media server application controlled by da Vinci 2K Plus**

- Realtime non-linear media access, realtime pre and post colour corrector sizing
- Simultaneous playback and record

### **Qedit Timeline-based video and audio editor**

- Supports multiple video formats within the same timeline
- Realtime versioning of final master

### **Qeffects Multi-resolution, multi-layer compositor**

- 8 Super layers each with 3D DVE, blur, fettle, and multiple keyers
- Multi-point tracking and integrated paint

## **Oscribe Resolution independent character generator**

- High quality anti-aliased international TrueType characters
- Produce still graphics, rolls and crawls

## **Oio Comprehensive video and network integration**

- Realtime support for HSDL, HD-RGB, HD and SD input/output
- Background networking of media, metadata and archive files

## **iQ for Grading Hardware**

### **Mainframe**

- 8U 19" rack mounting plus workspace
- CD-ROM for software loading

### **Media interfaces**

- HSDL, HD-RGB, HD, SD (all 10 bit)
- Gigabit Ethernet, SCSI
- 8 track AES/EBU audio

### **Workstation**

- Pen and tablet, keyboard, jog/shuttle panel, fader panel, wireless hand unit and docking station

### **Workspace**

- Native storage on disk of any resolution up to 2048 x 1556 10 bit RGB
- Lin/Log support
- YUV/RGB support
- 170 - 340 minutes 2K 10 bit 444 24fps capacity

## **da Vinci 2K Plus**

The 2K Plus is a realtime, multi-standard, multi-resolution image processor that can colour enhance in standard definition, HDTV and data (selectable resolutions). The 2K Plus is designed for the television and motion picture industries and is perfect for disk-to-disk digital intermediate applications.

## **2K Plus features**

- All features function in all resolutions - 16 bit internal processing
- Primary and secondary image processing across all formats
- True Gamma
- Custom Curves
- YSFX
- Enhanced Super Kilovectors include hue, saturation and luminance qualifiers with softness controls for upper and lower threshold clip adjustments
- Scene by scene Chroma Light and Chroma Dark with variable softness
- Power Grade; user-built stock effects libraries
- VSR Plus (Visual Scene Representation)
- Gallery resolution independent image server
- Power Windows with circle and quad shape generators, and additive and subtractive modes
- TLC - 2K editing and machine control

## **Available options**

- PowerTiers; up to 4 tiers and 8 channels of processing for a total of 10 channels; 9 Power Windows, and more
- Defocus and Defocus Plus; Gaussian filters and sharpening
- Colorist Toolbox; a collection of special effects filters and additional enhanced secondaries with qualified key
- TLC Assistant; a secondary workstation
- Server Interface; colour correct to and from computer image servers
- Remote Theater Package; additional control surface and user interface

## **Formats**

### **Data**

HSDL 2048 x 1556 at 18fps  
DPX files  
Log/lin support  
Input log data converted to 14 bit linear

### **HDTV**

4:2:2  
4:4:4  
1920 x 1080 i/P/sF  
1280 x 720P  
720 x 480P

### **SDTV**

525 / 625  
4:2:2  
4:4:4