

iQ for Grading and Pandora

The combination of iQ and Pandora brings new creative and workflow benefits to conventional telecine or tape-to-tape colour correction applications.

Digital Intermediate

For Digital Intermediate, the partnership brings interactive colour control and the ability to grade shots in context with realtime 2K working, giving directors and DoPs a much better feel for how the complete job will look. Linking the powerful and sophisticated Pandora grading experience with the iQ's non-linear instant access, multi-resolution working and realtime sizing, delivers a workflow for colour correction that reaches new levels of creative flexibility and productivity.

Grade in context

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

Realtime 2K grading

The Pandora Moore MegaOne PiXi colour processor and the iQ for Grading are linked by a new fibre interface capable of carrying 2K 10 bit RGB material in realtime at 24fps. The new interface allows full quality 2K images to be graded in realtime, massively boosting disk-to-disk workflow.

Post PiXi reframing

The new Pogle Evolution telecine suite controller x, y, z framing controls are linked to realtime sizing hardware in iQ that is downstream of the colour corrector for true secondary flexibility. Set up Windows and Shapes and adjust x, y, z and everything stays locked together. The realtime control between the Pandora 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 fibre, HD-RGB, HD and SD connections to the PiXi, iQ can instantly pre-size multi-resolution timelines for colour correction. This multi-resolution flexibility allows the colour correction to work with full quality material, media from offline and 3D test renders all 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.

Soft edits via AAF exchange

The iQ for Grading and Pogle Evolution share a common language in AAF. AAF exchange and Platinum's soft edit capability allows extra head and tail frames at each edit to be graded. These extra graded frames give real flexibility for editorial changes.

Business advantage

The power of the iQ and Pandora 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.



Pandora Pogle Evolution

The iQ and Pandora Edge in Colour Correction

- Realtime, interactive in-context 2K grading
- Post PiXi sizing for maximum Shape 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
- iQ provides reference frame store and wipe generator saving money on ancillaries
- Free up telecine for other work

iQ for Grading and Pandora in detail

iQ for Grading

iQ for Grading is a powered-up version of iQ for Digital Intermediate and other correction applications. Designed to partner the Pandora Pogle/Pixi, 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 Pandora

- 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

Qscribe Resolution-independent character generator

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

Qio Comprehensive video and network integration

- Realtime support for Fibre, 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)
- Fibre link to PiXi
- 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 4:4:4 24fps capacity

Pogle Evolution Control desk

Evolution incorporates the latest in technology but tries to keep it hidden. As a user interface it is entirely centred around the colorist. It can be customised to suit the taste of the individual, the environment and the nature of the work. It is designed to be simple and intuitive to learn, yet capable of providing unlimited control with instant, instinctive response.

- Modular design, with highly customisable layout and mounting
- New high-speed networking architecture
- Integrated Wacom drawing tablet and cordless pen
- Multi-colour status illumination and intelligent displays
- More assignable knobs, switches and macro keys
- 11/22Mbps wireless Ethernet hub

Moore MegaOne Processor

Moore MegaOne is the first in a new generation of hardware which gives the Pixi and MegaDEF colour processors a significant boost in speed and facilities. For the first time, both the full screen primary colour corrector (PCC) and secondary processor (SCC) are on a single board for greater speed, while working at 14 bit colour depth rather than the 13 bit processing of earlier hardware.

- Primary master hue, saturation and luminance control before the first primary colour corrector
- Two primary colour correctors: RGB and differential control of black, gamma and white
- Two definable areas for the PCC, with the capability of working inside or outside the zone

- 12 vector secondary colour corrector
- Two definable areas for the SCC, with the capability of working inside or outside the zone
- Secondary master hue, saturation and luminance
- Optional vignette function with additional three definable areas plus background
- All shapes defined as circles or diamonds with position, size, rotate and softness
- Separate black and white desaturation

MegaTwo option

MegaTwo is an advanced secondary colour corrector which provides three channels each with the same capabilities. Each channel provides individual colour isolation and modification on hue, saturation or luminance. It is possible to install two sets giving up to six channels.

Defocus option

This option adds Defocus filters to the MegaTwo RGB channels. Each channel gains two independent filters. One filter is used to sharpen or soften picture content inside that channel and the other is used to soften the colour isolation and shape for that channel. This allows :

- Colour and multiple area based softening
- Highlight isolation effects with detail blur
- Variable sharpening again defined by colour and area
- Fully list programmable modification on hue, saturation or luminance. It is possible to install two sets giving up to six channels.