



CINEON

FX

Silicon Graphics

BACKSHOT

CREATIVITÁ
RESOLUTIE

CRÉATIVITÉ
UPPLÖSNING
RESOLUTION

PRODUCTIVITY

KREATIVITEIT

スロダクティビティ



Leverage the full power of film in a complete family of digital effects solutions. Built on a century of motion imaging innovations and ready right now to take you beyond the new millennium.

RISE TO THE CHALLENGE

Cineon FX systems offer you a range of smart, practical solutions for film and video that combine the power of Kodak's DXR technology with the latest high-performance hardware platforms from Silicon Graphics. Gateways to powerful, productive, and profitable compositing and special effects you can use to expand your creative services. Differentiate your facility. And open doors that have never been opened before.

For filmmakers, post production houses, and laboratories, Cineon FX systems are a natural extension of the imagination, providing the tools and technologies you need to share your vision with audiences everywhere.

Cineon systems adapt readily to constantly evolving creative and business climates. So you enjoy the freedom and flexibility of an open-architecture system that's easily and economically configured with the processing power and functionality you need, when you need it, and as your budget allows. Operating on a scaleable range of SGI workstations and high-performance disk and network configurations, Cineon system solutions give you total image control, resolution independence, unlimited creative flexibility, and the production efficiency of distributed batch processing.

ENJOY THE FREEDOM

The Cineon system gives artists the ability to take advantage of the latest Silicon Graphics hardware by combining traditional skills without compromising the recognized quality of film.

DXR technology gives you precise control over image quality at every stage of post production by enabling end-to-end calibration of your system, whether your project ends up on film or video. Color calibrated monitors ensure that what the artist sees on the monitor is what ends up on the screen. DXR captures the full range of a film negative in a logarithmic file format. So no information is lost, allowing color and tone scale decisions to be made at any time, without compromise.

"The most important thing about using Cineon is the flowgraph. This allows us to very quickly change any process of the composite. If a director comes in and doesn't like the color correction on the background, we can quickly change that node, change the color, and recomp it and it's done."

KENNETH LITTLETON
DIGITAL EFFECTS SUPERVISOR, POP FILM



SYSTEMS FOR VISUAL EFFECTS

Cineon FX software is a flowgraph-based solution for creating composites and visual effects at all resolutions. It empowers you with a full complement of leading-edge creative tools such as 3D Space, for animating and lighting objects in a three-dimensional environment; Ultimatte, the Academy Award-winning compositing and matte-pulling tool; Clip Editor, a non-linear tool for performing line-up and transitional functions; and Retoucher, an integrated paint package that simplifies retouching and restoration.

Cineon systems can work with and manage files of any resolution and can mix different resolutions in the same job. This means Cineon can be used on any images from video to vistavision and beyond. You can choose the appropriate resolution to set up your job with, and then render it at whatever resolution you need.

In the realm of visual effects, the Cineon system's throughput is unmatched. Advances such as CiQueue distribute rendering work throughout your facility based on job priorities and the computing resources available. Just one of the ways we help you utilize your hardware efficiently, 24 hours a day, seven days a week.

SYSTEMS FOR RESTORATION

The artistry of the past also can be restored and preserved using digital techniques made available through Cineon systems. Within the flowgraph you can restore color records and, using unique dustbusting tools, automatically detect and repair defects caused by dust, dirt or scratches. This gives you the ability to bring all your techniques together seamlessly into a perfectly restored negative, ready for output to film or video.

Cineon Typhoon system

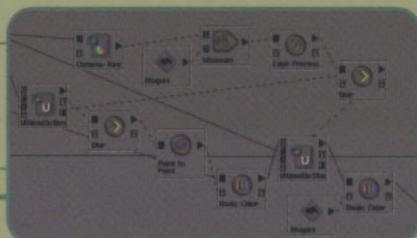
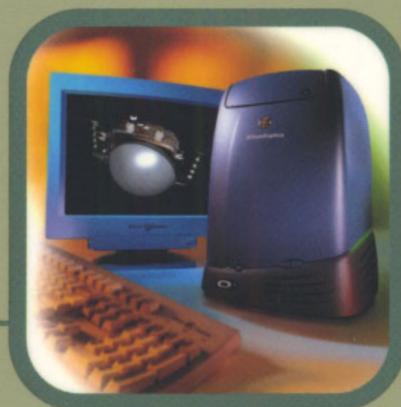
The Cineon Typhoon system is an affordable entry-level solution based on the SGI O2. It delivers all the functionality of other Cineon systems and is easy to upgrade as your business grows by adding a server with Cineon rendering licenses.

Cineon Storm system

The Cineon Storm system gives you the rendering power of up to two processors on the SGI Octane platform. You can render high-resolution jobs locally or over a network of Storm and Tornado systems supported by Cineon rendering servers..

Cineon Tornado system

Cineon Tornado is our most powerful solution and can serve as the centerpiece of your whole facility. Running on a multi-processor SGI Onyx 2 supercomputer, you can work locally for interactive client sessions or distribute the workload to multiple Cineon Storm and Typhoon systems in a fully networked environment. Jobs can be prioritized and your resources can be managed for maximum effectiveness and throughput.



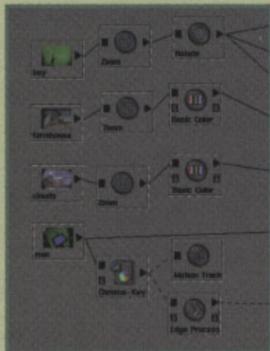
STREAMLINE YOUR OPERATIONS

The Cineon flowgraph is the core of all Cineon FX systems. It extends your creativity and gives you the flexibility to manage your jobs and utilize your resources more fully and effectively.

Artists and clients will enjoy the freedom to explore different scenarios and fine-tune composites while seeing and adjusting all the elements in context with each other. So there's never a need to go back and reconstruct all the creative work that went into a composite, saving you enormous amounts of time, effort, and money.

The flowgraph lets you make optimum use of your equipment and the skills of your artists. Complex jobs can be divided and distributed to the appropriate people on networked workstations. Multiple tasks are handled concurrently, dramatically cutting overall completion time.

The Cineon flowgraph puts you in control of a wide variety of creative tools, including:



Ultimate

the Academy Award-winning tool for blue and green screen compositing. Ultimate is recognized as the industry standard, and is made even more powerful within Cineon by its integration within the flowgraph. This allows artists to use Ultimate in concert with other tools for edge processing and color correction to create perfect composites.



Grain Management

tools for removing and adding film grain are based on the actual film stocks. Film grain within an image can be analyzed and then automatically added to another element. Using these tools, elements shot with different stocks can be matched, and grain can be added to computer-generated images. These techniques enable the artist to create seamless composites.



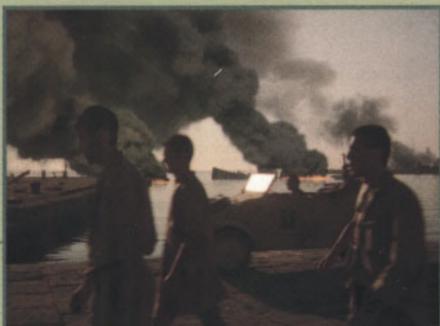
3D Space

allows the artist to manipulate two-dimensional images in a three-dimensional world easily and efficiently. 2D and 3D tracking data can be imported and all objects can have light sources and motion blur applied to them. Camera moves can be viewed and modified in real time, allowing for immediate feedback before final rendering.



Developers Tool Kit

maximizes your productivity and differentiates you from the competition by allowing you to integrate your own tools into the flowgraph.



"The English Patient"
Images courtesy of:
Digital Film at Moving Picture Company
Saul Zaentz Film Center
Miramax



"Independence Day"
Digital Visual Supervisor/Producer: Tricia Ashford
CGI Supervisor: Tara Turner
CGI Supervisor: Joseph Francis
Compositing by POP Film and The Post Group

CONTROL THE ELEMENTS

The Cineon system gives you unrestricted access to a rapidly growing array of precise, productive software tools for making your vision real. Tools that make it easy and efficient to produce a full range of high-quality effects that keep clients – and audiences – coming back for more.

Keying and Compositing

- Multilayer flowgraph-based compositing
- Industry standard Ultimatte tool for matte pulling and compositing
- Animatable, trackable garbage mattes can be used within every node
- Logarithmic and linear metric allows you to choose the color space that is best suited for the needs of the job

Grain Management Tools

- Degrain to remove grain from images for precise matching of elements and easier matte pulling
- Regrain to add grain to images, such as computer-generated elements
- Grain Matching for sampling grain from one image and adding it to another

Stabilizer and Tracker

- Full perspective tracking using up to ten points for match moves and stabilization
- Integration with 3D Space

Dustbusting Tools

- Defect matte tool to find defects (dust, scratches) automatically
- Pixel fill to fill in defects based on surrounding pixels

3D Space

- Manipulation of images in a 3D environment
- Multiple inputs and outputs
- Fully animatable
- Allows the removal and addition of camera moves
- Unlimited number of light sources
- Integration of motion tracking
- Hierarchical grouping of elements, to which global moves can be applied

Color Correction

- Color grade by curve
- Telecine controls - lift, gamma, and gain
- Basic color - RGB, MSI, and contrast
- Hue shift
- Deflicker

Subgraphs

- Collapse a commonly used set of flowgraph nodes into your own macro node
- Appears in the node palette like any other node
- Allows you to simplify and organize your flowgraph

Clip Editor

- Traditional editing features - cut, insert, dissolve
- Line up tool to sync up elements in a composite
- Timewarp to change the duration of shots, including Cinespeed (which uses proprietary Kodak algorithms to change the length of a shot while maintaining the sharpness and detail of the original)

CiQueue

- Render locally or on a remote server
- Control the number of processors used and the priority of the job
- Set up a queue of jobs to render later

Retoucher

- Tool for creating articulated mattes, painting out dirt and scratches, and doing rig removal
- Sophisticated clone and reveal brushes, ideal for restoration and repair work
- Integration with Cineon FX allows for easy access to Cineon film rolls

NTitle by Xaos Tools

- Integration of leading titling package
- Wide variety of fonts and effects
- Allows for full animation of text and titles
- Interactive kerning
- Warping of text
- Soft shadows and glows

For complete information on Cineon Digital FX systems

contact your local Cineon sales representative.



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