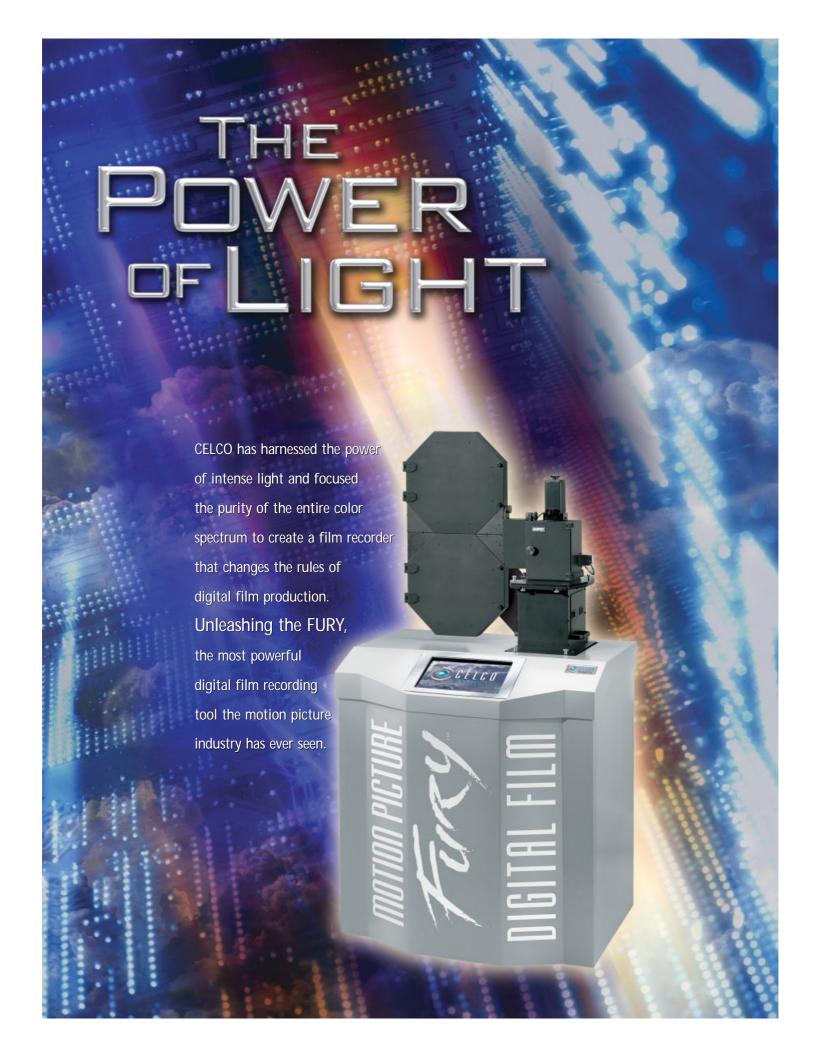
THE RULES HAVE CHANGED.





C E L C O
The Science of Light



Speed to the state of the state

ONE SECOND PER FRAME.

60 FRAMES PER MINUTE.

3,600 FRAMES PER HOUR.

86,400 FRAMES A DAY.

216,000 FRAMES PER WEEKEND.

NO MATTER HOW YOU COUNT IT,

THE FURY DELIVERS.

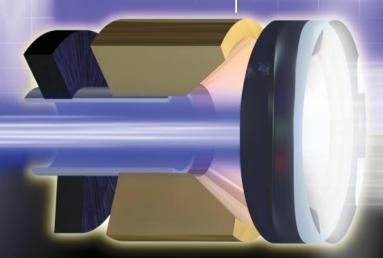


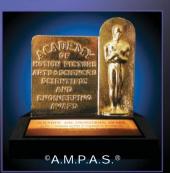
SYSTEM FEATURES

- Large, user-friendly, high resolution color liquid crystal touch screen interface.
- •Unique CELCO lutless logarithmic or linear color space modes. This automatic system eliminates look-up tables and complex calibration procedures.
- Automatic bit depth compensation has been designed to accommodate 8, 10, 12, or 16 bit per channel files.
- •Original negative, interpositive, and internegative imaging modes for shooting onto virtually any Fuji or Kodak color or black & white motion picture stocks including Eastman EXR 5242, 5245 and 5234.
- Multiple resolution modes capable of outputting any resolution including true 1920 x 1080 high definition, 2K, 3K, 4K and higher.

- Automatic resizing and centering.
 Video resolution files are easily handled via user selectable, interpolative resizing tools.
- •User-sel ectable image sharpening and grain reduction algorithms.
- •Sequential exposure for black & white separations.
- •Compatibility with virtually any file format
- •Large format 65mm options available featuring MSM vacuum back or Oxberry transports for 5, 10, or 15 perf IMAX applications.
- 2000 ft. split magazine, optional 1000 ft. magazine, or 1000/2000 ft. combination motor drive assembly.
- •Rock Solid, proven technology
- •Global support

High Intensity Advanced CRT with CELCO Magnetic Deflection & Electron Beam Focusing Optics





On March 2, 2002 CELCO Engineers Paul J. Constantine and Peter M. Constantine received Scientific and Engineering Awards from the Academy of Motion Picture Arts and Sciences for the design and development of the CELCO Digital Film Recorder Products. The Academy cited CELCO film recorder products have had a significant impact on the industry through continual improvements in their technology. The Fury is a continuation of CELCO's advancement of their proven, award-winning electron beam control technology for transferring digital images to motion picture film with perfection.

SCIENCE SCIENCE OF LIGHT

Our commitment to the Motion Picture Industry has demanded that we pour into the FURY enormous effort and creativity. The FURY project began with the belief that CELCO could forever change the world of Motion Picture Digital Imaging. This effort has caused change in every aspect of our recording technology. The design project required that we leave no stone unturned in our quest for pure performance. Most believed it couldn't be done, but we have come to understand that it is only our ability to imagine that limits what we, as engineers, can accomplish. The FURY will forever change the world of Motion Picture Digital Imaging.

CELCO Engineered Precision Band Interference Color Purity Filter System

Ultra Precision Light Beam Focusing Optics

TECHNICAL SPECIFICATIONS

- Supported Film Stocks
 Fujicol or Intermediate Film F-CI 8502/8602
- Fujicol or Intermediate Film F-CI 8502/8602
 Fujicol or Negative Film F-64D 8522/8622
 Fujicol or Negative Film F-125 8532/8632
 Fujicol or Negative Film F-250 8552/8652
 Fujicol or Negative Film F-250D 8562/8662
 Eastman Color Intermediate EXR 5242
 Eastman Color Negative EXR 50D 5245
 Eastman Color Negative EXR 100T 5248
 Eastman Color Negative EXR 200T 5293
 Kodak Vision 200T, 250D, 320T
 Eastman Black and White Plus-X 5231
 Eastman Fine Grain Duplicating 5234
 Panchromatic Negative
 Eastman High Contrast 5369

Supported Image Formats

- •16mm
- •16mm Super 16 •35mm Full Screen

- 35mm Academy Offset
 35mm Standard 1.66
 35mm High Definition 1.78
- 35mm Standard 1.8535mm Cinemascope
- •35mm 8-perf Visia Vision •65mm 5-perf •65mm 8-perf

- •65mm 15-perf IMAX

- Supported Resolutions
 All Resolutions Including:
 •NTSC and PAL Video
 •High Definition 1920 x 1080
 •2K, 3K, 4K, 8K
 •Any user-defined customized resolution up to 8K





Supported File Formats
.ALS, .BMP, .CIN, .DPX, .JBT, .JFIF, .JPEG
.PCT, .PIC, .PICT, .RGA, .RGB, .RLA, .SHT, .SGI, .TIF, .TIFF, .TGA, .YUV

Operating Software CELCO extreme Command Line & Graphical User Interface Includes Calibration Tools

Digital Interface High Speed Synchronous PCI Bus

Host Computer Sil icon Graphics FUEL - IRIX OS

System Display User Interface Touch Screen 7.5" X 12" XGA, TFT Color Liquid Crystal Display

35mm Recording Speeds
1 second per frame (1920 X 1080 HD 5245)
1.2 seconds per frame (1920 X 1080 HD 5242)
1.0 seconds per frame (2K, 1.85 5245)
1.2 seconds per frame (2K, 1.85 5242)
1.3 seconds per frame (2K, 1.33 5245)
1.5 seconds per frame (2K, 1.33 5245)
3.5 seconds per frame (4K, 1.85 5242)
3.5 seconds per frame (4K, 1.85 5242)
4.7 seconds per frame (4K, 1.33 5245)
4.7 seconds per frame (4K, 1.33 5242)

65mm Recording Speeds 3.5 seconds per frame (5-perf 4K 5245) 5.0 seconds per frame (15-perf 4K 5245) TBD (5-perf 4K 5242) TBD (15-perf 4K 5242)

Repeatabil ity

Steadiness >99.99%

35mm Uniformity >97% Flat Field at LAD

- 35mm Cine Pixel Size

 •35mm 4k Cine Resol ution 6 Micron Typical
 •35mm 2k Cine Resol ution 12 Micron Typical

Color Resolution 36 bits (12 bits per color channel)

Weight 375 Tbs.

Dimensions 43" H x 38" W x 30" D (not including film transport)

Fil m Magazine Capacity 2000 ft. (optional 1000 ft., 1000 ft/2000 ft)

Temperature Requirements
15°C to 28°C with no more than 5°C change
per hour

Humidity 20% to 75% Non-Condensing

120V, 60Hz, 5A, Nema 5-15R 220V / 240V, 50Hz, 3A

Powered by Sgi

EASTMAN, EXR, Vision and all corresponding film stocks are trademarks of Eastman Kodak Co. SGI is a registered trademark of Silicon Graphics, Inc.