Optimize production.

Developed by video professionals for video professionals, products by Focus Enhancements feature the technology and reliability you need to meet the rigorous demands of video production—day in and day out. Whether you’re shooting, editing, or conducting a live broadcast, the family of Direct To Edit® recorders and mixers streamlines production and delivers superb quality.

When you purchase equipment from Focus Enhancements, you not only receive products that perform superbly every day, but you also receive unconditional service and support from a team of seasoned video professionals—energetic people who are dedicated to helping you get the most from your products.
The Direct To Edit Advantage

With the Focus family of video production products, you’ll go from acquisition to editing with unparalleled speed, efficiency, and reliability. Compatible with most HDV, DV, DVCPRO®, DV-CAM, DVCPRO50, and DVCPRO HD® camcorders and editing software, Focus products feature Direct To Edit (DTE) video recording technology that converts the output from your camcorder or VTR to a nonlinear editing (NLE) format and records it on FireWire disk drives.

By combining DTE Technology® with advanced caching and redundant tape and disk recording, Focus DTE recorders ensure that you never miss an important shot or lose critical footage. And best of all, your footage is ready to edit instantly.

If you have analog footage that needs to be converted to digital, or vice versa, Focus Enhancements offers a DV-analog converter that makes the process fast and efficient.

“The Focus FS-2 Studio DTE Recorder has dramatically improved the quality and content of our finished presentations. Additionally, the versatility of including different recording or codec formats makes our department that much more versatile.”
Jack Mullins, Media Specialist, Midwestern University

The Nürburgring is one of the world’s most grueling motor racing circuits. It’s tough enough for a racing car to survive a 24-hour endurance race, let alone video equipment operating in this demanding environment. The capacity of the FS-3 to withstand extreme shock and heat coupled with its ability to provide quick access to clips in edit-ready formats made it the only solution available that was capable of accomplishing this task.”
Oliver da Costa, Vital Media Solutions

<table>
<thead>
<tr>
<th>Network Affiliate Stations</th>
<th>Other Stations</th>
<th>International Stations</th>
</tr>
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<tr>
<td>NBC Network</td>
<td>KAID (PBS)</td>
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<td>Dogen News Agency</td>
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<td>KCSP (PAX)</td>
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<td>Clemson University Athletics</td>
<td>Boeing Autometric</td>
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<tr>
<td>Florida State</td>
<td>Jefferson Pilot Sports</td>
<td>Dallas Digital Studios</td>
</tr>
<tr>
<td>Iowa State</td>
<td>Kansas State Wildcat Football</td>
<td>Dream Video</td>
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<td>Midwestern University</td>
<td>Vital Media Solutions</td>
<td>High Impact TV</td>
</tr>
<tr>
<td>Minnesota</td>
<td>USA Swimming</td>
<td>Rule Broadcast Systems</td>
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<tr>
<td>Missouri</td>
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<td>Seerveld Media</td>
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<tr>
<td>MIT</td>
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<td>Notre Dame</td>
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<td>Ohio State</td>
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<td>Oregon State</td>
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<table>
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<tr>
<th>Featured Broadcast Customers</th>
<th>Featured Nonbroadcast Customers</th>
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<td>Tulsa</td>
<td>Moraine Valley Church</td>
</tr>
<tr>
<td>USC</td>
<td>Religious Coalition Cable TV</td>
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<tr>
<td>Washington</td>
<td>Word of Life Fellowship</td>
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<tr>
<td>Sports</td>
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<tr>
<td>Clemson University Athletics</td>
<td>Boeing Autometric</td>
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<td>Seerveld Media</td>
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<td>Janet Rae Ministries</td>
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</table>
Direct To Edit Recorders

FS-2E
Bring Direct To Edit Technology to your studio or production vehicle with the Focus FS-2E Studio DTE Recorder. Featuring a variety of analog and digital input, output, and control options, the FS-2E can be easily integrated into your production suite, replacing broadcast tape decks.

Key Features
- Component, composite, S-video, SDI (with embedded audio), DV, genlock, balanced audio, and AES/EBU digital audio I/O
- External timecode I/O
- Sony 9-pin RS-422 control
- Multiple disk drive options
- User-programmable playlist
- Network connection for FTP and web-based control
- Timecode offset

FS-3
The Focus FS-3 Camera-Mount DTE Recorder brings DTE disk recording performance to the field by mounting directly to full-size DV camcorders. It’s ideal for electronic news gathering (ENG), electronic field production (EFP), videography, and other portable applications.

The FS-3 features removable FireWire drives, making it easy to swap out FS-HDD1 drives as needed. And if you require extended storage or playback, you can daisy chain up to four external FireWire drives.

Key Features
- Mounts directly to full-size DV camcorders
- Shares camcorder battery
- Removable disk drives
- Controlled directly from camcorder
- 6-second recording buffer

DR-DV5000
Made specifically for JVC full-size DV camcorders, the DR-DV5000 includes all of the features of the FS-3 plus cable-free connection and viewfinder-based status display.

FS-4 HD
Weighing about one pound, the Focus FS-4 HD Portable DTE Recorder brings Direct To Edit Technology to your DV or HDV handheld camcorder. Audio, video, timecode, and control information is passed between the FS-4 HD and your camcorder using a single FireWire cable. With an easy-to-use interface and a 40GB drive, the FS-4 HD is the perfect DTE companion for handheld shoots.

Key Features
- A 40GB drive for three hours of DV or HDV 1080i recording or four hours of HDV 720p 30 recording
- Removable, rechargeable Li-Ion standard-capacity battery (90 minutes)
- Lightweight, rugged, and portable enclosure
- Controlled from your camcorder
- Comprehensive backlit LCD display
- 6-second recording buffer

FS-4Pro HD
With all of the features of the FS-4 HD, plus multiple DTE recording formats and advanced features such as time lapse, retro disk recording, and scene marking, the Focus FS-4Pro HD Portable DTE Recorder provides the flexibility that video professionals demand.

Key Features
- Available in 60GB, 80GB, and 100GB configurations for 4.5, 6, or 7.5 hours of DV or HDV 1080i recording or 6, 8, or 10 hours of HDV 720p 30 recording
- Removable, rechargeable Li-Ion battery
- 60GB configuration: standard-capacity battery (90 minutes)
- 80GB and 100GB configuration: high-capacity battery (180 minutes)
- High capacity cradle 100GB models only
- Advanced DTE formats, including Pinnacle DV-AVI, Avid DV OMF, and QuickTime HDV
- Loop record capability
- 10-second recording buffer
- Lets you categorize clips while you shoot
Direct To Edit Recorders
Conversion Software
DV/SDI/Analog Converter

FS-100
Designed to work with the Panasonic AG-HVX200 P2 camera, the FS-100 Portable DTE Recorder features a 100GB drive for 100 minutes of DVCPRO HD recording. DVCPRO 50, DVCPRO, and DV can also be recorded.

DR-HD100
Designed specifically for the JVC GY-HD100 ProHD camcorder, the DR-HD100 comes standard with a 40GB drive for three hours of recording time (about four hours in HD 720p mode) and is available with an 80GB drive for six hours of recording time (about eight hours in HD 720p mode). You can also extend recording time by linking two JVC DR-HD100 units together.

FS-C
Designed for the Canon XL-H1 HDV camcorder, the FS-C Portable DTE Recorder comes with a 60GB or 100GB drive for 4.5 or 7.5 hours of recording time in HD 1080i or DV25 mode. A camera mount kit is also included.

DV Conversion Suite
Converting DV25 file formats is fast and easy with the Focus DV Conversion Suite. In addition to converting all major DV25 formats, the software provides aspect ratio and broadcast standard conversion from DV-PAL to DV-NTSC and vice versa.

Key Features
• Quick conversion between all major DV NLE file formats
• High-quality conversion with motion interpolation
• Scene change detection
• Optional adaptive deinterlacing
• Selectable field order for source and target
• Scale up, letter box, pan, and scan (NTSC to PAL)
• Scale down and crop (PAL to NTSC)
• Multiple time resampling modes

DV File Converter Pro
Specifically designed for video professionals who use Panasonic P2 cameras and decks, the Focus DV File Converter Pro converts P2 MXF files to or from the most popular DV-based video and NLE file formats.

MediaConverter MC-2E
With the MediaConverter MC-2E DV/SDI/Analog Converter, you can achieve professional, high-quality bidirectional DV/SDI-to-analog video conversion. Rackmount ready, the MediaConverter MC-2E can be easily added to your existing AV rack. The controls are located on the front panel for convenient access, and conversion settings are easy to read with the unit’s backlit LCD display.

Key Features
• All inputs to all outputs (DV/CV/VC/UV/SDI)
• Supports VTR control via RS-422
• Genlock (adjustable)
• Unbalanced/balanced stereo audio plus AES/EBU and embedded audio in DV/SDI
• NTSC or PAL compatible
• Internal 10-bit processing

Because we are constantly on the go, the FS-4 and the FS-4Pro help our team achieve our goals, meet deadlines, save time, and reduce production costs. The FS-4 family has also resolved issues with incompatibilities in a mixed-vendor environment. These exceptional products, of which we currently have five, are a lifesaver in both the field and the studio and keep us on the cutting edge.

Timothy Allen Spurek
Videographer/Editor, KTUL TV, Tulsa, OK
Postproduction Products

Whether you’re editing a program or conducting a live broadcast, the family of mixers from Focus Enhancements makes it easy to get your production on screen. Switch seamlessly between four video sources and blend digital and analog content with graphics and high-resolution titles on the fly. With postproduction products from Focus Enhancements, you’ll enjoy immaculate audio and video quality combined with the unwavering reliability that your business demands.

Featured Customers

- AT&T Broadband
- CDN-TV (Raleigh, NC)
- Chase Productions
- Community Access TV (Bismark, ND)
- Hartland Institute
- Michigan Air National Guard
- NC Tech Center
- NYU
- Ohio University
- Ole Miss Athletics
- The Salvation Army
- University of Wisconsin-Madison
- U.S. EPA
- U.S. EPA Video
MX-4

Packed with functionality, the MX-4 Digital Video Mixer is an eight-input, four-channel mixer that provides seamless switching between video sources, enhanced synchronized audio mixing, graphics storage, and Ethernet-based connectivity. With more than 700 transitions and the ability to import 50 background and foreground graphics to create beautiful four-layer effects, the MX-4 unleashes your creativity. In addition to its switcher, the MX-4 includes a frame synchronizer, TBC, and manual video adjustments.

Key Features
- 10-bit 4:2:2 video processing with superior input comb filter circuitry
- Single and multiple picture-in-picture and movable mosaic mask
- Four-source preview
- Input effects, including chroma key, picture flip, strobe, mosaic, and more

MX-4 DV

In addition to the functionality found in the MX-4, the MX-4 DV Digital Video Mixer features four digital inputs and one digital output.

Key Features
- 700 manual or automatic video transitions
- Eight gradients
- 4-channel or 2-channel DV digital audio support
- Dual-monitor mode (allows the preview screen to stay constant)
- User-defined menu for storing 30 of your favorite transitions
- Macro key storage with multiple configurations
- Dual-field time base correction
- Ethernet I/O for computer and network connectivity
- Color bar generator

“...”
Video Production Products in Action

- DV Camcorder FS-3
- Handheld DV or HDV Camcorder FS-4
- Mobile Editing Station
- Internet or Intranet
- Delivery
- Delivery (Ready to Edit)
- Studio Editing Station
- Videotape Archive
- Videotape FS Drive

Field

- Component Analog Camcorder
- DV Camcorder

Studio

- Production Vehicle
- Fixed Installation

- MediaConverter
- MX-4 DV
- FS-2E or FS-M
Experience the difference.

Innovation, efficiency, and superior quality are the foundation on which Focus Enhancements builds its products. When you purchase video production solutions from Focus Enhancements, you not only receive reliable products that deliver superior performance every day, but you also receive expertise, service, and support from veteran video professionals.

With extensive experience in designing, configuring, and integrating video production solutions for leading companies around the world, the Focus team can help you select the right products for your business. If you have special requirements, solution consultation and custom configuration services are available. All products are backed by comprehensive warranties and optional support contracts that cover installation, training, 24/7 phone support, and priority parts replacement. You can rest assured that the knowledgeable and friendly professionals at Focus Enhancements will stand behind every purchase you make.
## Direct To Edit Recorders, Digital Disk Recorder, and Converters

### HARDWARE

<table>
<thead>
<tr>
<th>FS-2E</th>
<th>FS-3</th>
<th>FS-4 HD, FS-4Pro HD, FS-100, DR-HD100, FS-C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Studio DTE Recorder</td>
<td>Camera-Mount DTE Recorder</td>
<td>Portable DTE Recorder</td>
</tr>
</tbody>
</table>

### Input/Output

<table>
<thead>
<tr>
<th>FS-2E</th>
<th>FS-3</th>
<th>FS-4 HD, FS-4Pro HD, FS-100, DR-HD100, FS-C</th>
</tr>
</thead>
<tbody>
<tr>
<td>DV video I/O*</td>
<td>DV video I/O*</td>
<td>DV video I/O*</td>
</tr>
<tr>
<td>DV video pas thru</td>
<td>External HDD I/O*</td>
<td>FireWire computer I/F</td>
</tr>
<tr>
<td>External HDD I/O*</td>
<td>HDV (FS-4 HD, FS-4Pro HD, FS-C, DR-HD100)</td>
<td>HDV (FS-4 HD, FS-4Pro HD, FS-C, DR-HD100)</td>
</tr>
<tr>
<td>FireWire computer I/F</td>
<td>DVCPro 50 and DVCPro HD (FS-100)</td>
<td>DVCPro 50 and DVCPro HD (FS-100)</td>
</tr>
</tbody>
</table>

### Control

<table>
<thead>
<tr>
<th>FS-2E</th>
<th>FS-3</th>
<th>FS-4 HD, FS-4Pro HD, FS-100, DR-HD100, FS-C</th>
</tr>
</thead>
<tbody>
<tr>
<td>GPI and RS-232C</td>
<td>GPI and RS-232C</td>
<td>GPI and RS-232C</td>
</tr>
<tr>
<td>(1 x 3.5mm minijack)</td>
<td>(1 x 3.5mm minijack)</td>
<td>(1 x 3.5mm minijack)</td>
</tr>
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</table>

### Video Formats

<table>
<thead>
<tr>
<th>FS-2E</th>
<th>FS-3</th>
<th>FS-4 HD, FS-4Pro HD, FS-100, DR-HD100, FS-C</th>
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</thead>
<tbody>
<tr>
<td>25 Mbps, 8-bit 4:1:1 (NTSC-DV) or 4:2:0 (PAL-DV) video (user switchable)</td>
<td>25 Mbps, 8-bit 4:1:1 (NTSC-DV) or 4:2:0 (PAL-DV) video</td>
<td>25 Mbps, 8-bit 4:1:1 (NTSC-DV) or 4:2:0 (PAL-DV) video (model dependent)</td>
</tr>
</tbody>
</table>

### Embedded Audio

<table>
<thead>
<tr>
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<th>FS-4 HD, FS-4Pro HD, FS-100, DR-HD100, FS-C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital: 2-channel 16-bit/4-channel 12-bit</td>
<td>Digital: 2-channel 16-bit/4-channel 12-bit</td>
<td>Digital: 2-channel 16-bit/4-channel 12-bit</td>
</tr>
</tbody>
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### Timecode

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<th>FS-4 HD, FS-4Pro HD, FS-100, DR-HD100, FS-C</th>
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<tbody>
<tr>
<td>DV or SDI 2-channel 16 bit/48 kHz</td>
<td>SMPTE/DV embedded (drop or non-drop)</td>
<td>DV embedded (drop or non-drop)</td>
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### DTE File Formats

<table>
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<th>FS-4 HD, FS-4Pro HD, FS-100, DR-HD100, FS-C</th>
</tr>
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<tbody>
<tr>
<td>RawDV (.dv) • AVI Type 1 • AVI Type 2 • Canopus AVI • Matrox AVI (.avi) • QuickTime (.mov) • Avid DV-OMF (.omf) • Pinnacle AVI 24p QuickTime • 24p AVI Type 2</td>
<td>RawDV (.dv) • AVI Type 1 • AVI Type 2 • Canopus AVI • Matrox AVI (.avi) • QuickTime (.mov) • Avid DV-OMF (.omf) • Pinnacle AVI 24p QuickTime • 24p AVI Type 2</td>
<td>RawDV • AVI Type 1 • AVI Type 2 • Canopus AVI • Matrox AVI • QuickTime (.mov) • Avid DV-OMF (.omf) • Pinnacle AVI (FS-4Pro only) • Avid DV OMF (FS-4Pro only) • P2 MXF (FS-100 only)</td>
</tr>
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### Disk

<table>
<thead>
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<th>FS-4 HD, FS-4Pro HD, FS-100, DR-HD100, FS-C</th>
</tr>
</thead>
<tbody>
<tr>
<td>120GB, IDE</td>
<td>FS-HDD-1 FireWire disk drive (Slot)</td>
<td>FS-4 HD: 40GB</td>
</tr>
<tr>
<td></td>
<td></td>
<td>FS-4Pro HD: 60GB, 80GB, or 100GB</td>
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<tr>
<td></td>
<td></td>
<td>FS-100: 100GB</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DR-HD100: 40GB, or 80GB</td>
</tr>
<tr>
<td></td>
<td></td>
<td>FS-C: 60GB, or 100GB</td>
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### Disk Speed

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</thead>
<tbody>
<tr>
<td>7200 RPM</td>
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<td>5400 RPM, 8MB cache</td>
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### External Disk Type

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<tbody>
<tr>
<td>User-supplied IEEE-1394a FireWire</td>
<td>User-supplied IEEE-1394a FireWire</td>
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### Disk Format

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<tr>
<td>FAT32</td>
<td>FAT32</td>
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</table>

Specifications are subject to change without notice.
Specifications are subject to change without notice.

### HARDWARE

#### MX-4

- **Digital Video Mixer**
  - **Video Inputs**: 4 x S-video (Y/C): Y=1 Vpp, C=0.3 Vpp, 75-ohm (4-pin mini-DIN connectors); 4 x composite: 1.0 Vpp, 75-ohm (RCA connectors)
  - **Video Main Outputs**: 1.0 Vpp, 75-ohm (2 x RCA connectors) and 2 x S-video (MAIN): Y=1.0 Vpp, C=0.3 Vpp; 75-ohm, 4-pin mini-DIN connector
  - **Video Preview Outputs**: 1.0 Vpp, 75-ohm (1 x RCA connector)
  - **Audio Inputs**: 4 x 2 (left and right) RCA connectors, 50 kilo-ohms
  - **Audio Outputs**: 1 kilo-ohm, RCA connectors (left and right)
  - **GPI**: Minijack
  - **Connectivity**: Ethernet I/O
  - **Headphone**: Stereo jack, 8-100 ohms, stereo signal
  - **Video Performance**: Meets long-haul video broadcast specs including CCIR-601 sampling and RS-170A Time base meets RS-170A standard
  - **Digital Conversion**: 13.5 MHz, 4:2:2, 10-bit quantization (Y/C); 10-bit quantization (composite)
  - **S/N Ratio**: Greater than 60 dB (Y/C); greater than 60 dB (composite)
  - **Horizontal Resolution**: 480 TV lines
  - **Gain**: Unity
  - **Analog Audio Performance**: Frequency response: 20 Hz-20 kHz, ± 3 dB
  - **Digital 2-Channel Audio**: —
  - **Digital 4-Channel Audio**: —

#### MX-4 DV

- **Digital Video Mixer**
  - **Video Inputs**: 4 x S-video (Y/C): Y=1.0 Vpp, C=0.30 Vpp, 75-ohm (4-pin mini-DIN connectors); 4 x composite: 1.0 Vpp, 75-ohm (RCA connectors); 4 x 6-pin 1394/FireWire (embedded audio supported)
  - **Video Main Outputs**: 2 x S-video (Y/C): Y=1.0 Vpp, C=0.30 Vpp, 75-ohm (4-pin mini-DIN connectors); 2 x composite: 1.0 Vpp, 75-ohm (RCA connectors); 1 x 6-pin 1394/FireWire (embedded audio supported)
  - **Video Preview Outputs**: 1.0 Vpp, 75-ohm (1 x RCA connector)
  - **Audio Inputs**: 4 x 2 (left and right) RCA connectors, 50 kilo-ohms
  - **Audio Outputs**: 1 kilo-ohm, 2 x RCA connectors (left and right)
  - **GPI**: Minijack
  - **Connectivity**: Ethernet I/O, FireWire, LLINK, audio and video
  - **Headphone**: Stereo, 8-100 ohms, stereo signal
  - **Video Performance**: Digital DV-standard sampling: 13.5 MHz, 8-bit quantization
  - **Digital Conversion**: 13.5 MHz, 4:2:2, 10-bit quantization (Y/C);
  - **S/N Ratio**: Greater than 60 dB (Y/C); greater than 60 dB (composite)
  - **Horizontal Resolution**: 480 TV lines analog; 500 TV lines digital
  - **Gain**: Unity
  - **Analog Audio Performance**: Frequency response: 20 Hz–20 kHz, ± 3 dB
  - **Digital 2-Channel Audio**: Sampling: 16 bit, 48 kHz
  - **Digital 4-Channel Audio**: Sampling: 12 bit, 32 kHz

### SOFTWARE

#### FireStore DV Standards Converter

- **Digital Video Format Converter**

#### FireStore DV File Converter

- **Digital Video Format Converter**

### HARDWARE

#### MediaConverter MC-2E

- **DV/SDI/Analog Converter**

- **Video input/output**: DV/SDI CAM on IEEE-1394 6-pin interface; SDI (with embedded audio) (270 Mb/s) SMPTE 259M/CCIR656-III, BNC; analog component signal: Y 1.0 Vpp, B-Y/ R-Y 0.7 Vpp, 75-ohm, SMPTE/EBU, BNC; S-video signal: Y 1.0 Vpp, C 0.43 Vpp, 75-ohm (4-pin mini-DIN); CVBS signal: 1.0 Vpp, 75-ohm, BNC; ref. video signal: burst 0.3 Vpp, 75-ohm, BNC

- **Audio input/output**: Analog unbalanced stereo audio signal: line level -10 dBV, 47 kilo-ohms, RCA; analog balanced stereo audio signal: +4dbm, low impedance, XLR; digital stereo audio signal (AES/EBU); balanced, XLR

### Mixers

#### MX-4

- **Digital Video Mixer**

#### MX-4 DV

- **Digital Video Mixer**

### MediaConverter MC-2E

- **DV/SDI/Analog Converter**

- **Video input/output**: DV/SDI CAM on IEEE-1394 6-pin interface; SDI (with embedded audio) (270 Mb/s) SMPTE 259M/CCIR656-III, BNC; analog component signal: Y 1.0 Vpp, B-Y/ R-Y 0.7 Vpp, 75-ohm, SMPTE/EBU, BNC; S-video signal: Y 1.0 Vpp, C 0.43 Vpp, 75-ohm (4-pin mini-DIN); CVBS signal: 1.0 Vpp, 75-ohm, BNC; ref. video signal: burst 0.3 Vpp, 75-ohm, BNC

- **Audio input/output**: Analog unbalanced stereo audio signal: line level -10 dBV, 47 kilo-ohms, RCA; analog balanced stereo audio signal: +4dbm, low impedance, XLR; digital stereo audio signal (AES/EBU); balanced, XLR
## Video Production Products

**Direct To Edit Recorders**
- FS-2E
- FS-3
- FS-4 HD
- FS-4Pro HD
- FS-100
- DR-HD100
- FS-C
- DV Conversion Suite
- DV File Converter Pro

**DV/SDI/Analog Converter**
- MediaConverter MC-2E

**Digital Video Mixers**
- MX-4
- MX-4 DV

## Compatibility

Video production solutions from Focus Enhancements provide seamless compatibility with most leading DV cameras and editing software packages.

- Adobe Systems Incorporated
- Apple Computer, Inc.
- Avid Technology, Inc.
- Canon, Inc.
- Canopus Co., LTD.
- Ikegami Electronics Co., LTD.
- JVC Americas Corp.
- Matrox Video Products Group
- Panasonic Corporation
- Pinnacle Systems, Inc.
- Sony Corporation