

# MX-4 DV™

Digital Video Mixer



**MX-4 DV**  
MODEL MX-4 DV



As the world renowned manufacturer of affordable, high-quality video technology products, FOCUS Enhancements introduces the next in the line of industry leading production performance products— the MX-4 DV™ Professional Digital Video Mixer. Not only have we borrowed many of the best features from our MXProDV but we have also listened to your requests and added two additional IEEE-1394 inputs, an integral graphics store, Ethernet connectivity for computer or network use, and over 700 special effects for the ultimate performance device!

## DV IS NOW

Make the most out of your production by seamlessly switching between all twelve (four S-Video, four composite and four DV) video sources for the ultimate in source flexibility. With the addition of two DV inputs, you now have the ability to take in multiple DV cameras feeds at your production facility for a real-time DV production that will preserve your digital image from start to finish.

## IMMACULATE VIDEO AND AUDIO QUALITY

FOCUS Enhancements brings real-time 10-bit (4:2:2) video technology and superior input comb filter circuitry to the MX-4 DV, Digital Video Mixer, which guarantees that it will produce digital and analog images without loss in quality.

MX-4 DV has enhanced synchronized audio mixing capabilities which provide on-screen slider control adjustments for volume and level meters. These enhancements, coupled with dual-field time base correction, raises the video and audio standard to a whole new level.

**MX-4 DV UNIQUELY COMBINES 10-BIT 4:2:2 DIGITAL QUALITY VIDEO WITH QUICK AND EASY ACCESS TO IMPORTED JPEG GRAPHICS AND SPECIAL EFFECTS FOR THE ULTIMATE IN LIVE VIDEO PRODUCTIONS!**

## INTEGRAL GRAPHICS ON THE FLY

For the ultimate in creative expression, import jpeg images to enhance your live video production. Take advantage of the four layer video effects parameters provided by the MX-4 DV to import jpegs as an input, background or foreground image.

## SPECIAL EFFECT AND FEATURES

MX-4 DV has all of the same great features as the MXProDV Digital Video Mixer, along with many new additional ones (over 700 eye-catching transitions, four additional inputs effects, gradients and an integral graphic store) to provide you the most productive and cost-effective tool today.

## SUPERIOR VALUE THROUGH SUPERIOR TECHNOLOGY

FOCUS Enhancements has harnessed the in latest digital video technologies to create a complete production tool with unprecedented benefits. When you compare features, performance, and price, MX-4 DV Professional Digital Video Mixer is the best value on the market today!

**FOCUS**  
enhancements

# MX-4 DV™ Digital Video Mixer

MODEL MX-4 DV

## PRODUCT DESCRIPTION

The MX-4 DV is a 10-bit, four-input video production switcher, mixer, frame Synchronizer/TBC (Time Base Corrector), color corrector, integral graphics store and special effects generator with twelve video inputs (four DV, four S-video, four composite).

## APPLICATIONS

- ▼ Live Productions
- ▼ Church & Sporting Events
- ▼ Business and Classroom Presentations
- ▼ General Video Switching
- ▼ Weather Chroma Key
- ▼ Internet Productions
- ▼ Linear Editing
- ▼ DV Processing for NLE

## FEATURES

- ▼ Integral graphics store
- ▼ Real-time Four Layer Video Effects
- ▼ S-video (Y/C), composite (RCA) inputs/outputs
- ▼ IEEE 1394 (FireWire, i.LINK) inputs/output
- ▼ 10-bit 4:2:2 video processing with superior input comb filter circuitry
- ▼ 700 manual or automatic video transitions
- ▼ Store two frames or field freezes in memory
- ▼ RGB Color Correction
- ▼ Eight Gradients
- ▼ Built-in audio mixer with on-screen level meters
- ▼ 4-channel or 2-channel DV digital audio support
- ▼ Dual Monitor Mode to allow the Preview screen to stay constant
- ▼ Store 30 favorite transitions in a user-defined menu
- ▼ Colored borders for transitions
- ▼ Single and multiple picture-in-picture and movable mosaic mask
- ▼ Learn feature memorizes a series of effects and multiple configurations
- ▼ Preview four sources at once
- ▼ Color generator
- ▼ Compose mode
- ▼ Dual-field time base correction (TBC)
- ▼ Input effects such as Chroma Key, Picture Flip, Strobe, Mosaic and more
- ▼ GPI trigger input
- ▼ Houseblack input
- ▼ Ethernet I/O for computer & network connectivity
- ▼ Color bar and black burst generators
- ▼ Two year warranty

## SPECIFICATIONS

### General

- Power supply: External in-line; 110 VAC @ 60 Hz / 220 VAC @ 50 Hz universal CE/FCC/UL/CSA approved (non-US/Canada versions meet local regulatory standards)
- Dimensions: 16.6" x 9.5" x 3" (422 mm x 241 mm x 76 mm)
- Weight: 4 lbs (1.8 kg)
- Ambient temperature: 32-104°F (0-40°C)
- Ambient humidity: Less than 95%

### Analog Inputs

- VIDEO: 4 x S-video (Y/C): Y=1.0 V p-p, C=0.30 V p-p, 75-ohm, (4-pin mini-DIN connectors); 4 x composite: 1.0 V p-p 75-ohm, (RCA connectors)
- Audio: 4 x 2 (L and R) 50 k ohms, RCA connectors,
- GPI: Mini-jack
- House Black RCA
- Ethernet I/O

### Analog Outputs

- VIDEO, MAIN: 2 x S-video (Y/C): Y=1.0 V p-p, C=0.30 V p-p, 75-ohm, (4-pin mini-DIN connectors); 2 x composite: 1.0 V p-p 75-ohm, (RCA connectors)
- PREVIEW: 1.0 V p-p 75-ohm, (RCA connector)
- Audio: 1 k ohms, 2x L+R RCA connectors
- Headphone: Stereo, 8-100 ohms, stereo signal

### Digital Inputs

- 4 X 4-pin IEEE 1394 (FireWire, i.LINK) connectors, audio and video

### Digital Output

- MAIN: 1 X 4 pin IEEE 1394 (FireWire, i.LINK) connectors, audio and video

### Color Generators

- Millions of colors

### Effects

- Video: 700+ transitions. Input effects include strobe, mosaic, flips, brightness, color saturation, contrast, hue and posterize. Special effects include chroma key and compose (see partial list under FEATURES)
- Audio: Mix, fade, background

### Video Performance

#### DIGITAL

- DV-standard sampling: 13.5 MHz, 8-bit quantization
- Horizontal resolution: 500 TV lines

#### ANALOG

- Digital conversion: 13.5 MHz, 4:2:2, 10-bit quantization (Y/C);
- Gain: Unity
- S/N Ratio: greater than 60 dB (Y/C); greater than 60 dB (composite)
- Horizontal resolution: 480 TV lines / 576 lines in PAL

### Audio Performance

#### DIGITAL 2-CHANNEL MODE

- Sampling: 16 bit, 48 kHz
- Frequency response: 20 Hz- 20 kHz
- S/N Ratio: 85 dB

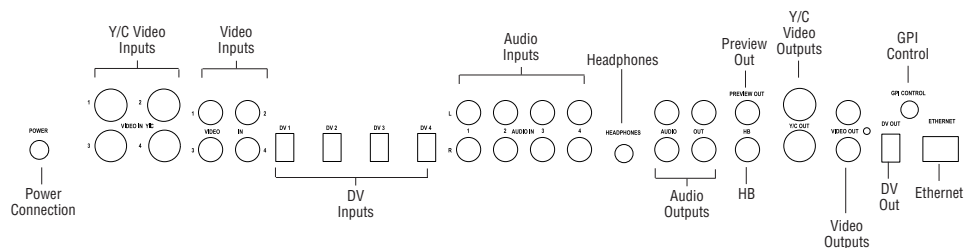
#### DIGITAL 4-CHANNEL MODE

- Sampling: 12 bit, 32 kHz
- Frequency response: 20 Hz- 14.5 kHz
- S/N Ratio: 80 dB

#### ANALOG

- Frequency response: 20 Hz-20 kHz, ± 3 dB
- S/N ratio: 80 dB

## Rear Panel Diagram



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