Compressed and un compressed recording and playback
Mix compressed and un compressed clips in the same project
Flexible analog video I/O: composite, component & Y/C
Balanced & un balanced stereo analog audio I/O
Accepts optional SDI, DV (IEEE-1394) and digital audio I/O cards
Direct support for DV I/O through host computer’s built-in IEEE-1394 port or OHCI-compliant IEEE-1394 interface card
Accepts optional SDI, DV (IEEE-1394) and digital audio I/O cards
Optional multi-channel audio capabilities featuring the Mackie® Mixtreme™ Hardware, with up to eight channels of audio I/O
Full frame 720 x 486 (NTSC) or 720 x 576 (PAL) resolution
Dedicated preview channel video output
Adjustable genlock timing referenced to video input
Real-time 8-channel hardware audio mixing
Real-time parametric audio EQ
Real-time 2D and 3D DVE, including picture-in-picture, perspective, warp and rotation
Quad-channel 3D DVE allows four simultaneous real-time 3D effects
3D DVE can be applied to graphics layers and video layers
Real-time rolls and crawls
Real-time variable speed changes and reverse playback
200+ customizable, keyframeable real-time 2D transitions
(12-bit ultra-smooth anti-aliased wipes with colored and soft-edge borders)
200+ customizable, keyframeable real-time 3D transitions with sub-pixel movement for superb quality
Fully keyframeable real-time proc amp controls and color correction
Real-time keyframeable chroma/luma keyer
Real-time support for 32-bit video files with alpha channel
Real-time masks and “garbage mattes”
Real-time blur
Integrated waveform/vectorscope display
Batch Capture, Recapture and Print-to-Tape support RS-422 and DV control
Stand-alone logging tool for generating batch capture lists
Multiple timeline support (tabbed or free-floating)
Multiple tabbed galleries (bins) with search and database-style detail modes
EyeCon View™ for constant display of picons and clip timecode of all visible layers
at playhead while scrubbing and aligning clips
Selectable A/X/B or single-track editing modes (can be toggled while working)
Multi-camera editing (# of cameras)
User definable hot keys
Trim window with advanced 3 and 4 point edits
Flexible timeline interface with independently variable track heights, mute/solo and show/hide of video and audio tracks
EDL import and export
Optional Interoperability module featuring OMF and AAF import and export
Render Bank™ technology remembers previously rendered segments
DPS Virtual Tape File System™ provides seamless integration with third party graphics/animation applications
DFX+ compositing and advanced effects with direct timeline integration
Live video processing including real-time titling and transitions
Real-time support of web streaming video formats
Export RealNetworks® RealVideo®, Microsoft® Windows Media Format™, AVI,
QuickTime™, MPEG-1 and DVD-compliant MPEG-2 files directly from the timeline
Live webcasting combining live video & audio with prerecorded footage,
Titles & transitions
Integrated remote control support for optional Panasonic WJ-MX20 switcher

⇒ Bundled DVD authoring, professional titling and audio sweetening software
⇒ for multi-camera live webcasting

**Studio9000 VideoEditor™ Specifications:**

**Video Inputs**
Composite (BNC)......................................................1V p-p, 75 Ohm
S-Video (4-Pin Mini-DIN):
Y Signal .........................................................1V p-p, 75 Ohm
C Signal .........................................................286mV p-p (NTSC) / 300mv p-p (PAL)
Component Betacam (BNC’s):
Y Signal .........................................................1V p-p, 75 Ohm
R-Y, B-Y (Pr,Pb)...........................................700mV p-p (NTSC) / 525mv p-p (PAL)

**Digital Video Inputs (Available with Digital I/O Option)**
Serial SDI (SMPTE 259M) (BNC) .......................800mv, 75 Ohm / Auto EQ to 300m.
DV.............................................................................IEEE-1394

**Audio Inputs**
Balanced (XLR-F) ..................................................... +4 dBu Nominal, +20 dBu Maximum
Unbalanced Line (RCA) ........................................... -10 dBV Nominal, +6 dBV Maximum
Unbalanced AUX (RCA) .......................................... -10 dBV Nominal, +6 dBV Maximum
LTC Input (RCA) ...................................................... 0.1-5.0V p-p

**Digital Audio Inputs (Available with Digital I/O Option)**
Professional Format:
AES/EBU (EIAJ CP-340, XLR) ................... 5V Balanced, 110 Ohm
AES/EBU (SMPTE-267M, BNC) ................. 1V Unbalanced, 75 Ohm
Consumer Format:
S/PDIF (RCA) ............................................... 500mv Unbalanced

**Note(s):**
1) Embedded AES audio conforming to SMPTE-272M is supported on the SDI input.
Audio may be synchronous or asynchronous with respect to both the SDI video, and system audio sample clock.

**Video Outputs**
Program Channel:
Composite (BNC)......................................................1V p-p, 75 Ohm
S-Video (4-Pin Mini-DIN)
Y Signal .........................................................1V p-p, 75 Ohm
C Signal .........................................................286mV p-p (NTSC), 300mv p-p (PAL)
Component Betacam (BNC’s):
Y Signal .........................................................1V p-p, 75 Ohm
R-Y, B-Y (Pr,Pb)...........................................700mV p-p (NTSC), 525mv p-p (PAL)
Preview/Alpha Channel:
Composite (BNC)......................................................1V p-p, 75 Ohm
S-Video (4-Pin Mini-DIN)
Y Signal .........................................................1V p-p, 75 Ohm
C Signal .........................................................286mV p-p (NTSC), 300mv p-p (PAL)
Component Betacam (BNC’s):
Y Signal .........................................................1V p-p, 75 Ohm
Time Code Video (VITC):
Composite w/VITC (BNC)........................................1V p-p, 75 Ohm
Note(s):
1) Video output levels correspond to 75% color bar signal, with 100% white reference bar.

Digital Video Outputs (Available with Digital Option)
Serial SDI (SMPTE 259M) (BNC x 2) .....................800mv, 75 Ohm
DV ........................................................................ IEEE-1394
Note(s):
1) Embedded AES audio conforming to SMPTE-272M may be inserted into the SDI output stream.

Audio Outputs:
Balanced (XLR-M).................................................... +4 dBU Nominal, +20 dBU Maximum
Unbalanced Line (RCA)............................................ -10 dBV Nominal, +6 dBV Maximum
LTC Output (RCA)....................................................1V p-p

Digital Audio Outputs (Available with Digital Option):
Professional Format:
AES/EBU (EIAJ CP-340, XLR) ................... 5V Balanced, 110 Ohm
AES/EBU (SMPTE-267M, BNC)................. 1V Unbalanced, 75 Ohm
Consumer Format:
S/PDIF (RCA) ............................................... 500mv Unbalanced
Note(s):
1) Digital audio data may also be inserted into both of the SDI and DV output data streams.

Genlock Inputs
Composite (BNC)......................................................1V p-p, Hi-Z
Timing Adjustment Range:
Horizontal ......................................................> +/- 2usec
Subcarrier ......................................................360 Degrees

Hard Drive Storage
Internal/External 68 pin.............................................Ultra160 Wide SCSI
Internal Storage.............................................. Up to 320GB
External: ...........................................................RAID Storage up to 16TB
(with Cepoint’s R-STOR or equal)

Native Raster Size
525 Line (NTSC).......................................................720 x 486
625 Line (PAL).........................................................720 x 576

Video Performance
Frequency Response..................................................0 - 5.0 MHz (+/- 0.25 dB)
........................................................................ 5.0 - 5.5 MHz (+0.25, -1.5 dB)
K-Factor (2T).............................................................< 1%
Differential Phase ......................................................< 1 Deg
Differential Gain......................................................< 1%
Signal/Noise:
Playback ........................................................ > 65 dB
Capture + Playback ....................................... > 58 dB

Audio Performance
A/D .......................................................................18 Bit over sampled Sigma-Delta
DAC .................................................................18 Bit over sampled Sigma-Delta
Sample Rates ......................................................11/22.05/32/44.1/48 KHz
Frequency Response ...........................................20 Hz to 20 KHz, +/- 0.5 dB
Dynamic Range .....................................................88 dB (A weighted)
Total Harmonic Distortion .............................. 0.005% Max
**SYSTEM HARDWARE:**

**Material:** Heavy-duty cold-rolled steel. Inside: zinc-plated with bright chromate. Outside: texture-coated
**Dimension:** 19"(W) x 20"(D) x 7"(H)
**Cooling:** 2 x 90mm ball-bearing fans
**Power Supply:** 300W ATX
**CPU Processor:** Dual Intel Pentium Xeon 2.6GHz processor
**System Memory:** 1GB SDRAM upgradable to 4GB
**PORTS:** Parallel port x1, RS-232 x 2, RS-422 x1, USB x2, 2 x RG-45 copper Gigabit Ethernet
**Network Connectivity:** Ethernet, Fast Ethernet/Gigabit (2 x 10/100, 1x 10/100/1000 )
**PCI Extension:** PCI Bus architecture for versatile compatibility with industry standard studio equipments.
**Air cooling Filters:** Removable and washable
**Controls:** Power on/off and system reset
**Indicators:** Power and HDD LED's
**System Clock:** Synchronised with SMPTE, EBU and IRIG-B Time Code for accuracy.
**Speaker:** 0.4W built-in internal monitoring speaker
**CD-RW or DVD-R/W:** Included
**System Hard drive:** 36 GB SCSI system hard drive
**Audio hard drive:** 36 GB SCSI audio hard drive
**Hard Drive:** 73 GB of storage (Std) Up to 320GB. External RAID interface support for unlimited video storage.
**Temperature:** 0°C(32°F)~ 50°C(122°F)
**Humidity:** 5%~95% non-condensing

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