Enabing MSW-M200P Studio Editing Recorders MSW-M2100P Studio Player MSW-M2100P Studio Player

The New MSW-2000P Series Studio Recorders.



this is not a rehearsal. www.pro.sony-europe.com



MSW-A2000P

Exploit the full business MPEG env MSV-2000P Series

In the digitally based broadcast industry of today and tomorrow, only the fittest enterprises will grow and prosper. In short, those that deliver the quality, flexibility, choice and value - that an ever more demanding audience requires.

Whatever your medium, from satellite or terrestrial to cable; and whether you operate locally, nationally or internationally, networked systems based upon open MPEG-2 compression, can deliver what's required at every step of the programme production chain.

Hence the rapid increase in the popularity of MPEG-2 based systems. The advantages of this technology are felt at every stage of the process. Not only is MPEG-2 the worldwide standard for digital programme delivery via DTV, DVB and DVD, it is also widely used for the contribution and distribution of material between studio centres.

In addition, MPEG-2 4:2:2P@ML is also a firm favourite for programme production. Thus the number of linear and non-linear options based upon this system continues to increase dramatically. MPEG-2 brings a number of pivotal benefits to your organisation. These range from its versatility - optimising quality and cost for each programme application; interoperability - bringing you an extensive choice of equipment from multiple suppliers and the reassurance of a future-proof investment.

Today as broadcasters begin to reap the full advantages of MPEG-2 technology, they are demanding the resources to produce programmes of the very highest quality using recording systems that are also based upon open compression and interfacing standards.

In anticipation of this requirement, Sony has introduced a new family of MPEG IMX[™] Studio Editing Recorders and a Studio Player based upon MPEG-2 4:2:2P@ML data compression at 50Mb/s intra-frame - the MSW-2000P Series.

Developed from Sony's unique experience of, and world renowned reputation for, 1/2" recorders : Betacam, Betacam SP, Digital Betacam and Betacam SX, the MSW-2000P Series ensures compatibility with all Betacam-based tape libraries and facilities.

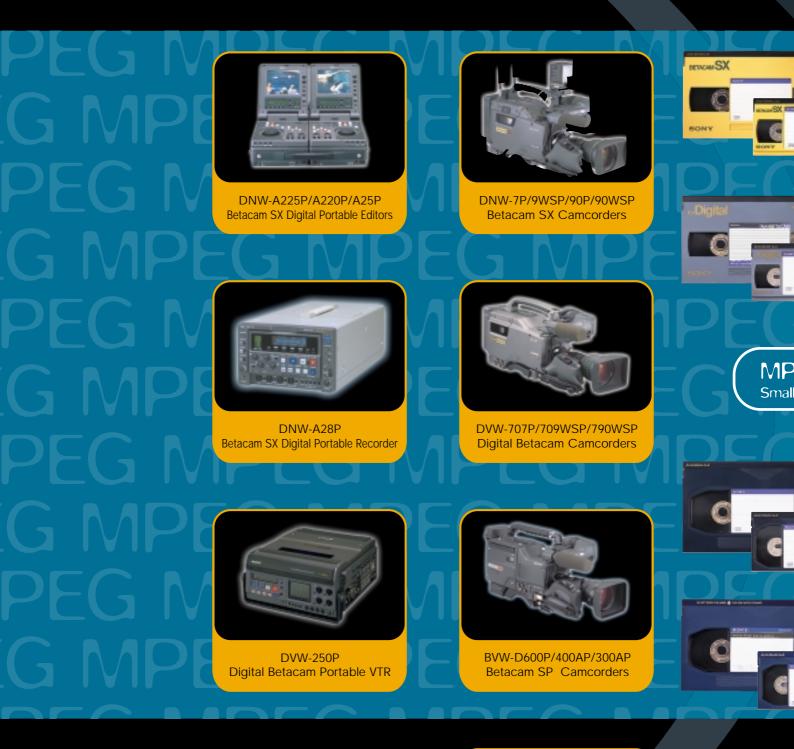
So not only is this exciting new range the ideal tool for migrating to an open MPEG-2 environment - quickly, simply and cost effectively; it is perfect for protecting your investment in current 1/2" resources.

benefits of an end-to-end ironment with MPEG IMXTM Studio Editing Recorders.



Enter the Open World of MPEG-2 with MPEG IMX[™] Recorders

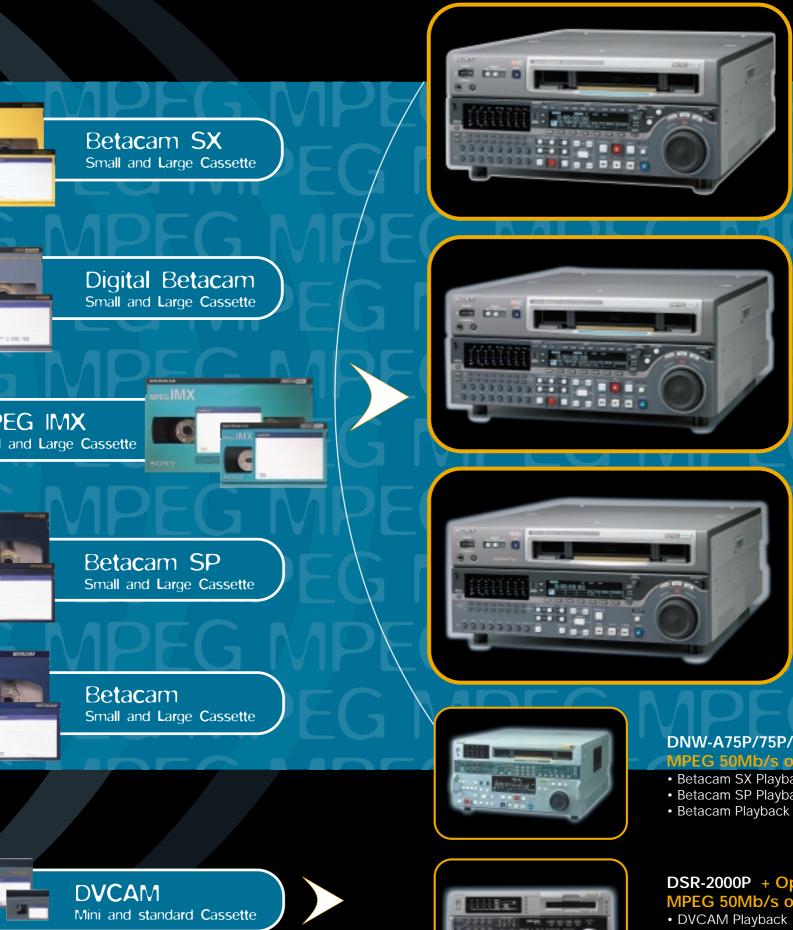
MSW-2000P Series MPEG IMX[™] Studio Recorders are more than just ideal tools on v to base your open MPEG-2 infrastructure. They also play a vital role in migrating your existing operations to MPEG-2.





DVCAM Camcorders

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- DV PlaybackDV LP Playback

 - DVCPRO Playback

MPEG

SDTI-CP

MSW-A2000P MPEG IMX Recorder

MPEG 50 Mb/s over SDTI-CP I/O

- MPEG IMX Recording and Playback
- Betacam SX Playback
- Betacam SP Playback
- Betacam Playback



MSW-M2000P MPEG IMX Recorder MPEG 50 Mb/s over SDTI-CP I/O

MPEG IMX Recording and Playback

MSW-M2100P MPEG IMX Player

MPEG IMX Playback

Digital Betacam Playback
Betacam SX Playback
Betacam SP Playback
Betacam Playback

MPEG 50 Mb/s over SDTI-CP output

Digital Betacam Playback
Betacam SX Playback
Betacam SP Playback
Betacam Playback



MAV-555 Multi Access Video Disk I



MAV-2000 Multi Access Video and Aud



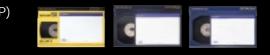
Other manufacturers' with SDTI-CP I/0

A65P/65P Series + BKNW-124 SDTI-CP Output Board

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tional DSBK-210 SDTI-CP Output Board ver SDTI-CP output for following:





Main features of the MSW-2000P Series MPEG IMX[™] Recorders

MPEG-2 50Mb/s, I-frame compression

The MSW-2000P Series employs 8-bit 4:2:2 component video sampling and MPEG-2 4:2:2P@ML data compression at 50Mb/s, I-frame. This provides very high picture quality and excellent multi-generation performance.

MPEG-2 bit stream over SDTI-CP

MSW-2000P Series recorders can input and output an MPEG-2 Elementary Stream via SDTI-CP (SMPTE 326M), enabling the transfer of data to other MPEG devices, such as non-linear editors and servers.

Compact design

The Series features a compact 4U-size design - $174 \times 427 \times 550$ (H x W x D) - and weighs only 22kg.

Elegant front panel design

MSW-2000P Series recorders offer two major innovations in front-panel design, while retaining the familiar operational controls of recorders such as Betacam SP, Betacam SX and Digital Betacam. A clear multi-function display provides comprehensive information, allowing quick access and easy control of a variety of functions. Additionally, dedicated controls are included for each of the eight, independently editable audio channels.

High-quality digital audio

MSW-2000P Series recorders provide eight, independently editable, 16-bit 48kHz channels as standard. They can also be switched to provide four channels of 24-bit 48kHz digital audio.

Long recording and playback times

MSW-2000P Series recorders provide long recording and playback times.

• 220 (625)/184 (525) minutes - L cassette

• 71 (625)/60 (525) minutes - S cassette

525/60, 625/50 switchable operation

MSW-2000P Series recorders offer 625/525 switchable operation for all playback-compatible 1/2-inch formats. *For playback of 525 line Betacam SP tape in 625 machines and vice versa, the analogue composite outputs are for monitoring purposes only.





Versatile interfaces

- Analogue composite I/O
- Analogue component I/O
- SDI I/O
- SDTI-CP I/O
- Analogue audio (4 ch)
- AES/EBU audio (16 bit 8 ch/24 bit 4 ch)
- Audio monitor (2 ch)

All equipped as standard.

Easy maintenance

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Most of the electronic circuitry of the MSW-2000P Series is arranged on plug-in boards for quick and easy maintenance. The drum assembly and tape transport have been designed to provide low-cost maintenance and ensure rugged and reliable operation. An upper drum mechanism has been used to significantly reduce the time required for periodic scanner replacement.

MPEG IMX™ Format	
General	
Tape width	12.65 mm (1/2-inch)
Tape material	Metal Particle tape
Recording/Playback time	Max. 184 (525)/220 (625) with L cassette
Tape speed	64.467 (525)/53.776 (625) mm/s
Track pitch	21.7 μm
Tracks per frame	8 tracks/frame
Longitudinal tracks	Time code/Control
Playback compatibility	
MSW-M2000P + MSW-M2100P	Betacam, Betacam SP, Betacam SX, Digital BETACAM
MSW-A2000P	Betacam, Betacam SP, Betacam SX
Video	
Compression	MPEG-2 4:2:2P@ML, Intra frame coding
	(ISO/IEC 13818-2000)
Video bit rate	50 Mb/s
Active lines per frame	512 (525)/608 (625)
Sampling frequency	Y: 13.5 MHz, R-Y/B-Y: 6.75 MHz
Quantization	8 bits/sample
Error correction	Reed-Solomon
Audio	
Compression	None
Sampling frequency	48 kHz
Quantization	16 or 24 bits/sample (selectable)
Channels	8 or 4
Data recording capability	Yes
Error correction	Reed-Solomon



Operational features of MSW-2000P Series MPEG IMX[™] Recorders

Frame-accurate insert/assemble editing

Video and any of the 8 channels of digital audio can be edited independently. Editing is to +/-0 frame accuracy.

Pre-read editing

Pre-read editing is a standard feature of all MSW-2000P

Series recorders. This significantly speeds up the

editing process and simplifies operations such as titling,

video layering and audio sweetening.

Wide variable speed range

MPEG IMX[™] cassette: -1 to +3 times
Digital Betacam cassette: -1 to +3 times
Betacam SX cassette: -1 to +2 times

•Betacam, Betacam SP cassette: -1 to +3 times

With noiseless image and Digital Jog Sound.

High speed picture search

Shuttle search speed

- MPEG IMX[™] cassette:
- +/-78 times normal play speed
- Digital Betacam cassette:
- +/-50 times normal play speed
- Betacam SX cassette:
- +/-78 times normal play speed
- Betacam, Betacam SP cassette:
 - +/-42 times normal play speed

Dynamic motion control

For programmable slow-motion playback from the

recorder control panel, or from external edit controllers.

Shot marks

Tapes containing Shot Marks can be scanned by the MSW-2000P Series. The position of each Shot Mark can be automatically detected and - after scanning can be displayed on a monitor. This allows fast and easy cueing to any mark.

Multi-segment record capability for use in Flexicart and LMS systems

For easy and low cost integration into existing "on-air" facilities

Optional accessories

With all the interfaces provided as standard, the

number of accessories to the MSW-2000P Series has

been kept to a minimum. Options are shown below:

- BKMW-101 Remote Control panel
- BKMW-102 Control panel case
- BKMW-103 Control panel extension kit
- RMM-131 Rack mount kit
- Maintenance manual
- MPEG IMX[™] Videocassettes*

BCT-6MX (7) / 12MX (14) / 22MX (26) / 32MX (38) / 60MX (71) (small)

BCT-64MXL (76) / 94MXL (112) / 124MXL (148) / 184MXL (220) (large)

* 625 record duration shown in brackets





Specifications

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Analog component input BNC (x X, Tri set YMX-YU, Y, 1 X Ypc, 7 S G, ync megnies, RYM-R - O Ype, 7 S G SDi lequi BNC (x X, Tri set YMX-YU, Y, 1 X Ypc, 7 S G, ync megnies, RYM-R - O Ype, 7 S G SDi lequi BNC (x X, Tri set YMX-YU, Y, 1 X Ypc, 7 S G, ync megnies, RYM-R - O Ype, 7 S G SDi lequi BNC (x X, Incluing one characte out), SMPTE 239M (ITU-B 8166-3, 270 MBU/s SDI T-CP output BNC (x X, Incluing one characte out), SMPTE 239M (ITU-B 8166-3, 270 MBU/s SDI T-CP output BNC (x X, Incluing one characte out), SMPTE 239M (ITU-B 8166-3), 270 MBU/s SDI T-CP output BNC (x X), SMPTE 300M (SDI C-P) Analog adoit output (CH 172, 34, 56, 77), ASS/BU BNC (x A), 6446 (SDI C-P) Digital adoit output (CH 172, 34, 56, 77), ASS/BU BNC (x A), 6446 (SDI C-P) Digital adoit output (CH 172, 34, 56, 77), ASS/BU BNC (x A), 6446 (SDI C-P) Digital adoit output (CH 172, 34, 56, 77), ASS/BU BNC (x A), 6446 (SDI C-P) Digital adoit output (CH 172, 34, 56, 77), ASS/BU BNC (x A), 6446 (SDI C-P) Digital adoit output (CH 172, 34, 56, 77), ASS/BU BNC (x A), 6446 (SDI C-P) Digital adoit output (CH 172, 34, 57), 77), ASS/BU BNC (x A), 6446 (SDI C-P) Digital adoit output (CH 172, 34, 57), 77), ASS/BU BNC (x A), 6446 (SDI C-P) Dis	5 1 1	
Anoleg component output BRC 1 × 3, fort 1 app, Y = 10 × pp, 7 6 J, app en opplies, R-W = 0 × 10 × pp, 7 6 J. SDI logut BRC 1 × 3, fort 1 app, Y = 10 × pp, 7 6 J. SDI oppli BRC 1 × 3, including one character outp, SWPT E 20 WI BIT × BIT × 50 × 10 × pp, 7 6 J. SDI toppli BRC 1 × 3, including one character outp, SWPT E 20 WI BIT × BIT × 50 × 50 × 50 × 50 × 50 × 50 × 50 × 5	5 1 I	
SD Input BNC i x2 including one active through coll. SMPT 23M (TUL+8 Eff 66-3), 270 Math/s SD Includi BNC (x1, including one character out), SMPT 23M (TUL+8 Eff 66-3), 270 Math/s SD TLCP angli BNC (x1, S. SMPT 230M (SDT LCP) Analog audio input RNC (x1, S. SMPT 230M (SDT LCP) Analog audio input RNC (x1, S. SMPT 230M (SDT LCP) Analog audio input RNC (x1, S. SMPT 230M (SDT LCP) Analog audio input RNC (x1, S. SMPT 230M (SDT LCP) Analog audio input RNC (x2, SMPT 230M (SDT LCP) Bendits control Bendit RNC (x2, SMPT 230M (SDT LCP) Bendits control Bendit RNC (x2, SMPT 230M (SDT LCP) Bendits control Bendit RNC (x2, SMPT 230M (SDT LCP) Bendits control Bendit RNC (x2, SMPT 230M (SDT LCP) Bendits control Bendit RNC (x2, SMPT 230M (SDT LCP) Bendits control Bendit RNC (x2, SMPT 230M (SDT LCP) Bendits control Bendit RNC (x2, SMPT 230M (SDT LCP) Bendits control Bendit RNC (x2, SMPT 230M (SDT LCP) Bendits control Bendit RNC (x2, SMPT 230M (SDT LCP) Bendits control Bendit RNC (x2, SMPT 230M (SDT LCP) Bendits control Bendit RNC (x2, SMPT 230M (SDT LCP) Bendits control Bendit RNC (x2, SMPT 230M (SDT LCP) Bendits control Bendit RNC (x2, SMPT 230M (SDT LCP) Decis ad add x	5 1 1	
SDI i otipiti BNC ir Xa, incluing one character out, SMPTE 26M (TLuk BL66-5, 2/20 MbU/s SDT-CP inpu BNC ir Xa, SMPTE 306M (SDT), 326M (SDT-CP) Analog audio input SNE (X X, SMPTE 306M (SDT), 326M (SDT-CP) Analog audio input KL X X4 (XCH channel selectable) Analog audio input KL X4 (X (XCH channel selectable) Dipitit audio input (CH 1/2, 3/4, 5/6, 7/8), AES/RBU BNC (X X4, 6/64H kH/X (X CH 0.48 kH/X mbring) rate convertor) Biglit audio output (CH 1/2, 3/4, 5/6, 7/8), AES/RBU BNC (X 4), 6/64H kH/X (X CH 0.48 kH/X mbring) rate convertor) Biglit audio output (CH 1/2, 3/4, 5/6, 7/8), AES/RBU BNC (X 4), 6/64H kH/X (X CH 0.48 kH/X mbring) rate convertor) Biglit audio output (CH 1/2, 3/4, 5/6, 7/8), AES/RBU Doubs 5/pn (X 3), 5/07.89, AES/RBU Biglit audio output (CH 1/2, 3/4, 5/6, 7/8), AES/RBU Doubs 5/pn (X 1), Fernale Control panel BNC (X 2) (SMPT (SMPT) Memory card insortion site NE (X 2) (SMPT) Memory card insortion site PCMCA(X (X) Memory card insortion site 3/3 dK - to 1/3 dB selectable Control panel 3/3 dK - to 1/3 dB selectable Control panel 3/3 dK - to 1/4 dB selectable Control panel 3/3 dK - to 1/4 dB selectable Control panel 3/3 dK - to 1/4 dB selectable Control panel 3/3 dK - to 1/4 dB selectable Control panel 3/3 d		
SDTL:CP upp ENC (* 1), SMPT* 300M (SDT), 32xÅ (SDT).CP Analog ando input NRC (* 2), SMPT* 300M (SDT), 32xÅ (SDT).CP Analog ando input XR (* 4) (CH channel selectable) Analog ando input XR (* 4) (CH channel selectable) Digital andio captal RS (* 2), SMPT 200M (SDT), 32xÅ (SDT).CP Biglial andio captal RS (* 4), CH channel selectable) Biglial andio captal RS (* 4), CH channel selectable) Biglial andio captal RS (* 2), SMP 200 (SDT), 25xÅ (SDT) Biglial andio captal RS (* 4), CH channel selectable) Biglial andio captal RS (* 2), SMP 200 (SDT), SST, STB Biglial andio captal RS (* 2), SMP 200 (SDT), SST, STB Biglial andio captal RS (* 2), SMP 200 (SDT), SST, STB Biglial andio captal RS (* 2), SMP 200 (SDT), SST, STB Biglial andio captal RS (* 2), SMP 200 (SDT), SST, STB Biglial andio captal RS (* 2), SMP 200 (SDT), SST, STB Biglial andio captal RS (* 2), SMP 200 (SDT), SST, STB Biglial andio captal SST, SST, SST, SPD 200 (SDT), SST, SSTB Biglial andio captal SST, SST, SSTB, SSTB, SSTB Biglial andio captal SST, SSTB, SSTB, SSTB Biglial andio captal SSTB, SSTB, SSTB, SSTB, SSTB Biglial andio captal SSTB, SSTB	•	
SDTL-CP aubul ENC (± x) SMPTE 3DM (SDTL, 32AM (SDTL, CP) Anatog audio nutput XR (± x) (Krt L stanned selectable) Anatog audio nutput XR (± x) (Krt L stanned selectable) Digital audio nutput (CH 12, x1, x5, 70), ATS/TRU BNC (± x), default a BHz (22 to 40 kHz whith Somple rate converter) Bigital audio nutput (CH 12, x1, x5, 70), ATS/TRU BNC (± x), default a BHz (22 to 40 kHz whith Somple rate converter) Bigital audio nutput (CH 12, x1, x5, 70), ATS/TRU BNC (± x), default a BHz (22 to 40 kHz whith Somple rate converter) Bigital audio nutput (CH 12, x1, x5, 70), ATS/TRU BNC (± x), default a BHz (22 to 10, S) Som y 0 phr nutput interface D sub 30 pen (x 1), Isranle D sub 30 pen (x 1), Isranle D sub 12 pen (x 1), Isranle Concuro nutput UR Reference Input BNC (± x) (dostor U pain, fernale Menitor output UR XR (x 1), Isranle Precessor aubuhtent nutput 3 dH / = to -3 dB selectable Optical (S 12 to 22 to 20 kHz (22	•	
SDTI-CP output ENC (x.2) SMPTE 305M (SDTI), 324M (SDTI)CP) Analog audio nutput XR (x 4) (CFL 1channel selectable) Analog audio nutput (CH 12, 2, 34, 56, 70), ATS/T8U RNC (x 4), dENL tahanel selectable) BigH audio nutput (CH 12, 2, 34, 56, 70), ATS/T8U RNC (x 4), dENL tahanel selectable) BigH audio nutput (CH 12, 2, 34, 56, 70), ATS/T8U RNC (x 4), dENL tahanel selectable) BigH audio nutput (CH 12, 2, 34, 56, 70), ATS/T8U RNC (x 4), dENL tahanel selectable) BigH audio nutput (CH 12, 2, 34, 56, 70), ATS/T8U RNC (x 4), dENL tahanel selectable) BigH audio nutput (CH 12, 2, 34, 56, 70), ATS/T8U RNC (x 4), dENL tahanel selectable) BigH audio nutput (CH 12, 2, 34, 56, 70), ATS/T8U Daub 50 phi (x 1), formate Daub 50 phi (x 1), formate Daub 50 phi (x 1), formate Daub 50 phi (x 1), formate Daub 50 phi (x 1), formate Three code nutput (R S2 (1), formate Daub 50 phi (x 1), formate Menory curd insertion sol S2 (1), formate S2 (1), formate Processor audiustnent formac Chadua (1), formate S2 (1), formate System 5C phi se 3 dB / - to 13 dB selectable 3 dB / - to 3 dB selectable Black keel 3 dB / - to 14 dB selectable	SDTI-CP input	BNC (x 1), SMPTE 305M (SDTI), 326M (SDTI-CP)
Availag autio input XLR (4 (4 (C+L channel selectable) Digit audio input (C+L 1/2, 34, 56, 78), AESEBU BNC (44, 9) default 48 bHZ (32 to 48 bHZ with Sample rate converter) Digit audio input (C+L 1/2, 34, 56, 78), AESEBU BNC (44, 9) default 48 bHZ (32 to 48 bHZ with Sample rate converter) Digit audio input (C+L 1/2, 34, 56, 778), AESEBU BNC (44, 9) default 48 bHZ (32 to 48 bHZ with Sample rate converter) Digit audio input (C+L 1/2, 34, 56, 778), AESEBU Doub 9 pin (x1, 55, 320; 9) einterace Digit audio input (C+L 1/2, 34, 56, 778), AESEBU Doub 9 pin (x1, 55, 320; 1476 rate Nerrow can input Doub 9 pin (x1, 55, 320; 1476 rate Doub 9 pin (x1, 1), Fanale Doub 9 pin (x1, 1), Fanale Memory can insertion stol Decut (x1, 1), Fanale Memory can insertion stol XLR (x 2) (channel selectable) Processor adjustment range XLR (x 2) (channel selectable) Vitas Mark (X-H) XLR (x 2) (channel selectable) Uside level -3 dB / - to -3 dB selectable Chroma passe -3 dB / - to -3 dB selectable Chroma passe -3 dB / - to -3 dB selectable Chroma passe -3 dB / - to -3 dB selectable Chroma passe -3 dB / - to -3 dB selectable C	SDTI-CP output	
Anolog output XR (* 4) (ccPL channel solectable) Digital addio quiput (CH 112, 24, 56, 78), RS578BU SNC (* 4), diskitz fixed Bornel addio quiput (CH 12, 24, 56, 78), RS578BU SNC (* 4), diskitz fixed Bornel addio quiput (CH 12, 24, 56, 78), RS578BU SNC (* 4), diskitz fixed Bornel addio quiput (CH 12, 24, 56, 78), RS578BU SNC (* 4), diskitz fixed Parallel ternote Wide control (N) Dauk 9 ph (* 1), Rs 232 (Cl Interface Parallel ternote Uddo control (N) Dauk 9 ph (* 1), Ismale Control panel Cantrol panel Dauk 9 ph (* 1), Ismale Monory control metno stot Dauk 9 ph (* 1), Ismale Dauk 9 ph (* 2), Ismale Monory control metno stot DCMC1A (r) XR (* 1), Ismale Monory control metno stot DCMC1A (r) XR (* 2) (Channel selectable) Monory control metno stot 43 dR /= to 14 dB selectable Control N Monory control metno stot 43 dR /= to 14 dB selectable Control N Monory control metno stot 43 dR /= to 14 dB selectable Control N Monory control metno stot 43 dR /= to 14 dB selectable Control N Monory control metnoty 43 dR /= to 14 dB selectable		
Digital and input (CH 172, 34, 56, 78), ASTRBU RNC (x 4), default 84 bf (x 2) ca 84 bf x 40 mm converter) Digital and control (CH 172, 34, 57, 78), ASTRBU DNC (x 4), default 84 bf (x 2) ca 84 bf x 40 mm converter) Bigital and control (CH 172, 34, 57, 78), ASTRBU DNG (x 4), default 84 bf (x 2) ca 84 bf x 40 mm converter) Bigital and control (CH 172, 34, 57, 78), ASTRBU Dsub 9 pin (x 1), Kraal Bigital and control (CH 172, 34, 57, 78), ASTRBU Dsub 5 pin (x 1), Kraal Cantrol panel Dsub 5 pin (x 1), Kraal Dsub 5 pin (x 1), Kraal Dsub 5 pin (x 1), Kraal Cantrol panel Dsub 5 pin (x 1), Kraal Reference input XLR (x 1), Kraal Time code cuput XLR (x 1), Kraal Montor output I/R XLR (x 1), Kraal Montor output I/R XLR (x 2), Kranel selectable Processor adjustment range 23 BF/ = to + 3 dB selectable Oroma leval +3 BF/ = 10 + 3 dB selectable Comma leval +3 BF/ = 10 + 3 dB selectable Comma leval +3 BF/ = 10 + 3 dB selectable Comma leval +3 BF/ = 10 + 3 dB selectable Comma leval +3 BF/ = 10 + 3 dB selectable Comma leval +3 BF/ = 10 + 3 dB selectable <td></td> <td></td>		
Digital valued oxiptal (CH 12, 24, 56, 749, ATS/RU PNC (x 4), 48 kHz freed Remote cantrol Remote (KE 42AA) (KE		
Remole control Remole (R5:422A) D:sub 9-pin (x 2). Sony 9-pin remole interface Buil 9-pin (x 1). Kenale D:sub 50-pin (x 1). Kenale D:sub 50-pin (x 1). Kenale D:sub 50-pin (x 1). Kenale Reference input Ki (X 0). Kenale Reference input XIR (x 1). Kenale Reference input XIR (x 1). Kenale Memory card insertion stol XIR (x 2). Kennet selectable Processor adjustment lange: 3 dB/ = lo 13 dB selectable Mulco Need 23 dB / = lo 13 dB selectable System Sgr (base 230 lb (F2 20 m) System Sgr (base 230 lb (F2 20 m) Cardbay 110 lb (k) R. V/B V: 6 75 M/st Cardbay (La deco performance Y 1 35 M/st R. V/B V: 6 75 M/st Digital input to analog component output Kractor (27 puke) V: 5 or 58 M/st Analeg component input to analog component output Kractor (27 puke) V: 5 or 168 Analeg component input to analog		
PG232C (SR*) Parallel romoto Video control (1) Control opanel Dsub Spin (x 1), Kraale Reference input BNC (x 2) (VIS or VS) (oncluding one through out) Time code input XLR (x 1), formale Reference input BNC (x 2) (VIS or VS) (oncluding one through out) Time code input XLR (x 1), mele Memory card insertion slot PC/CLA (x 1) Memory card insertion slot PC/CLA (x 1) Memory card insertion slot Stat Spin (x 1), Kraale Video level 3 dB/ -= to - 3 dB selectable Chronin alveil 43 dB/ -= to - 3 dB selectable Spiten Spin Spin Spin Spin Spin Spin Spin Spi		
Parallel remote Vacio control (In) Dask Dapin (x 1), female Dask Dapin (x 1), female Reference Input Disc X (VS or VS) (Inkuling one through out) Time code output XLR (x 1), female Time code output XLR (x 1), female Memory card insertion sion PORCIA (x1) Monitor output LR XLR (x 2) (channel selectable) Processic adjustment tange 3 dW - or 0 - 3 dB selectable Chrona level 3 dW - or 0 - 3 dB selectable Chrona level 3 dW - or 0 - 3 dB selectable Chrona level 3 dW - or 0 - 3 dB selectable Chrona level 3 dW - or 0 - 3 dB selectable System SC phase - 3 dB - or 0 - 3 dB selectable System SC phase - 3 dB - or 0 - 3 dB selectable Chrona phase - 3 dB - or 0 - 3 dB selectable System SC phase - 3 dB - or 0 - 3 dB selectable Chrona phase - 3 dB - or 0 - 3 dB selectable Digital notice performance - 3 dB - or 0 - 3 dB selectable Chrona phase - 3 dB - or 0 - 3 dB selectable Digital notice performance - 3 dB - or 0 - 3 dB selectable Digital notice performance - 3 dB - or 0 - 3 dB selectable <	. ,	D-sub 9-pin (x 2), Sony 9-pin remote interface
Video control (1) Control panel Dask 15 pin (x 1), female Reference hput Exclusion contexin 10 pin (female) Reference hput XIR (x 1), female Time code output XIR (x 1), female Memory card insertion alon PCMCA(x 1) Memory card insertion alon 20 (K 2) (channel selectable) Processor adjustment range 20 (K 2) (channel selectable) Processor adjustment range 20 (K 2) (channel selectable) Biock level 20 (K 2) (channel selectable) Biock level 20 (K 2) (channel selectable) System sign plase 20 (K 2) (channel selectable) System sign plase 20 (K 2) (channel selectable) Composite input level 20 (K 2) (Channel Selectable) System sign plase 20 (K 2) (Channel Selectable) Composite input level 20 (K 2) (K 2	RS-232C (ISR*)	D-sub 9-pin (x 1), RS-232C interface
Vide control (1) Control panel Data 15 pin (x 1), female Reference input Circuit connector 10 pin (semale) Reference input XLR (x 1), female Time code nutput XLR (x 1), male Memory card instantion sion PCACK (x 1) Memory card instantion sion PCACK (x 1) Memory card instantion sion PCACK (x 1) Memory card instantion sion PCACK (x 2) Montor output L/R XLR (x 2) (channel selectable) Cross adjustment removes PCACK (x 2) Montor output L/R #3 dif / en to 3 dif Selectable Cross adjustment removes #30 file / x 10 or 3 dif Selectable Cross adjustment removes #30 file / x 10 or 3 dif Selectable System	Parallel remote	D-sub 50-pin (x 1), female
Control panel Circular connector 10 pain female Reference input RN (X 1) female Time code input XLR (X 1) female Memory card insertion slot PCMCIA (X1) Monitor output L/R XLR (X 2) (channel selectable) Processor duisation factor PCMCIA (X1) Monitor output L/R XLR (X 2) (channel selectable) Roto level a 3 dB / = to + 3 dB selectable Back level a 3 dB / = to + 3 dB selectable System Sic phase a 300 / = 10 a 3 dB selectable System Sic phase a 300 / = 10 a 3 dB selectable System Sic phase a 300 / = 10 a 3 dB selectable Onto output L/R a 300 / = 10 a 3 dB selectable System Sic phase a 300 / = 10 a 3 dB selectable Onto output Sic phase a 300 / = 10 a 3 dB selectable System Sic phase a 300 / = 10 a 3 dB selectable Digital kickel a 10 b is (Sector CH) Campling frequency Y 13.5 MHz R-YIB-Y 6.75 MHz Digital input to analog component output Kfactor (2T) pulse) 1 % or less Analog component output AD and DA quantization to bits/sample Syn tatoic S 4dB or more <td>Video control (1)</td> <td></td>	Video control (1)	
Reference input BNC (x 2) (VBS or VS) (including one through out) Time code output XLR (x 1), franke Wendry card instein skol XLR (x 1), male Memory card instein skol PCMCA(x 1) Memory card instein skol XLR (x 1), male Video kvol ± 3 dK /= to 1-3 dB selectable Orter output L/R ± 3 dK /= to 1-3 dB selectable Bick level ± 3 dK /= to 1-3 dB selectable Chrone hase ± 3 dK /= to 1-3 dB selectable Bick level ± 3 dB /= to 1-3 dB selectable Chrone phase ± 200 rk System Sign phase ± 200 rk Carding ± 200 rk Carding ± 200 rk Carding ± 200 rk Carding ± 200 rk System Sign component output ± 3 dB /= 4 DA /= 2 DA /		
Time code input XLR (x 1), female Time code output XLR (x 1), male Memory card insertion sol PCMCA((x) Monifor output L/R XLR (x 2) (channel selectable) Processory adjustment range 2 Video level 2 23 dBV /= to 1o 3 dB selectable Chroma level 23 dBV /= to 1o 3 dB selectable Black kerel 30 RE/2010 mV Chroma pake 500 System StC phase 400 ns (Betacam/Betacam SP playback only) Composite input level 30 RE/2010 mV System StC phase 400 ns (Betacam/Betacam SP playback only) Composite input level 30 RE/2010 mV System StC phase 400 ns (Betacam/Betacam SP playback only) Composite input level 30 RE/2010 mV System StC phase 400 ns (Betacam/Betacam SP playback only) Composite input level 30 RE/200 mV Digital input to analog component output K/Lactor (27 pulse): 1 % or less Analog composite input to analog composite output A/D and D/A quantization to bis/sample Bandwidth: Y: 0 to 5.75 MHz + 05/2.0 dB, R-Y/B-Y: 0 to 2.75 MHz + 05/2.0 dB Syn ratio: 53 dB or more K/Tactor (27 pulse): 1 % or less Unternation 40 kHz (spectronised with video) Composite input to analog composite output A/D and D/A quanti		
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Processor adjustment range. Processor adjustment range. Video level ±3 dB/-==to-53 dB selectable Chroma level ±3 dB/-==to-53 dB selectable Back level ±30 lB/-210 mV Chroma phase ±30 lB/-210 mV System sync phase ±30 lB/-210 mV Chroma phase ±30 th System sync phase ±15 µs System SC phase ±200 ns VC delay 10 ns. (Betacam/Betacam SP playback only) Composite input level ±3 dB Digital video performance #3 dB Sampling frequency. Y. 13.5 MHz R-Y/B-Y: 6.75 MHz Quantization B bits/sample Enror correction Reed-Solomon code Kactor (21 pulse).1 % or less A/D and D/A quantization: 10 bits/sample Bandwidth: V: 0 to 5.75 MHz + 0.5/2.0 dB, S/N ratio: 56 dB or more K/Acator (21 pulse): 1 % or less Analog composite input to analog composite output A/D and D/A quantization: 10 bits/sample Bandwidth: V: 0 to 5.75 MHz + 0.5/2.0 dB S/N ratio: 53 dB or more Differential phase: "Or or less V/C delay: 20 ns or less V/C delay: 20 ns or less V/C delay: 20 ns		PCMCIA (x1)
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*ISR: Interactive Status Reporting

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Sony Broadcast & Professional Europe Studio Editing Recorders