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

The New MSW-2000P Series Studio Recorders.



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**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<sup>™</sup> 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.

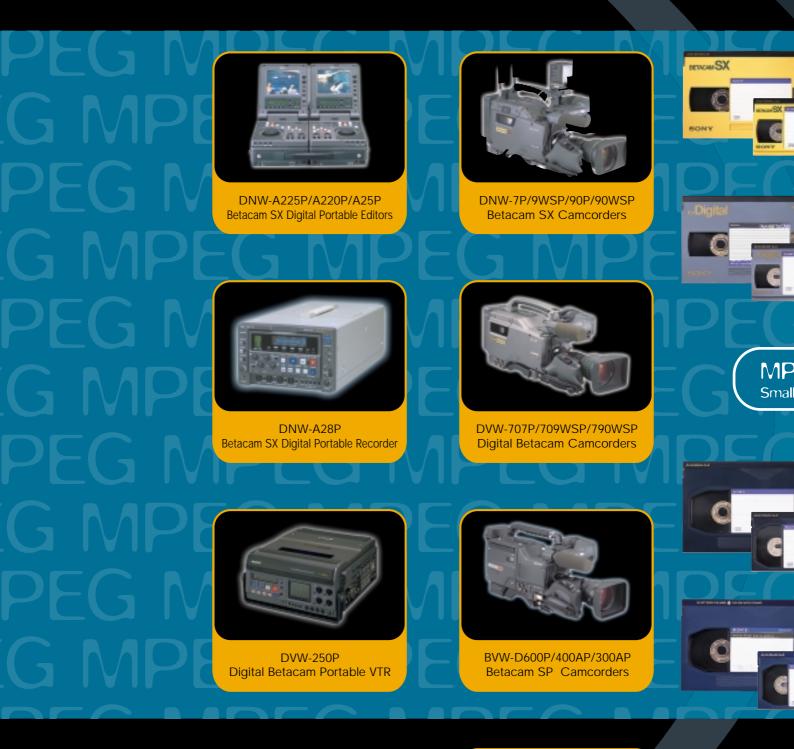
So not only is this exciting new range the ideal tool for migrating to an open MPEG-2 environment - quickly, simply and cost effectively; it is perfect for protecting your investment in current 1/2" resources.

## benefits of an end-to-end ironment with MPEG IMX<sup>TM</sup> Studio Editing Recorders.



### Enter the Open World of MPEG-2 with MPEG IMX<sup>™</sup> Recorders

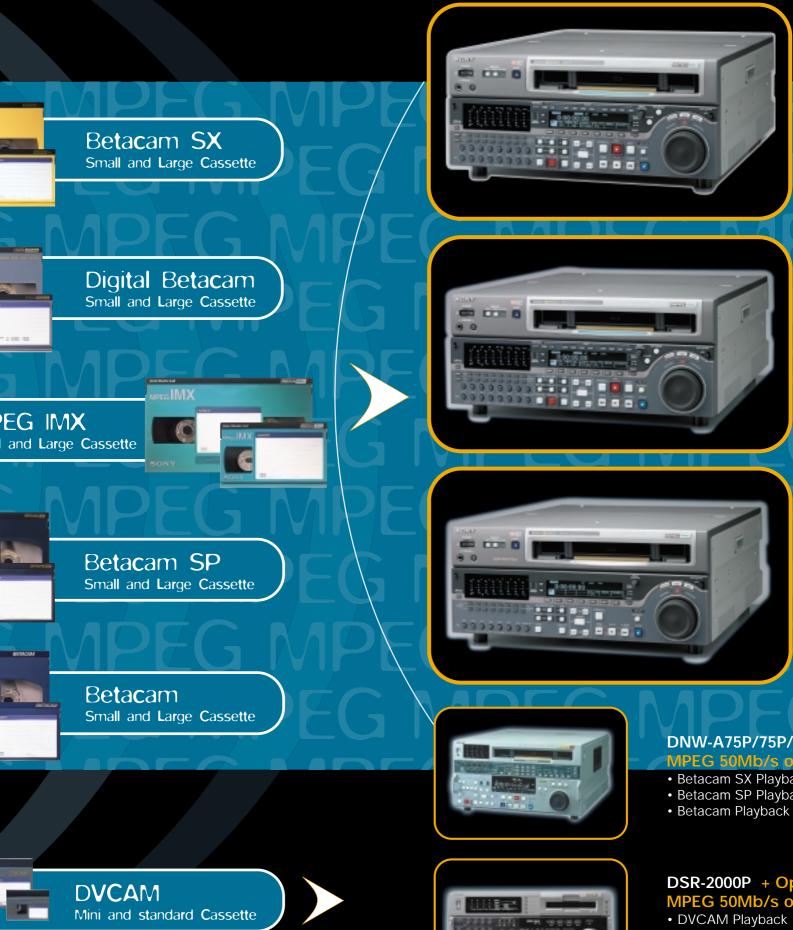
MSW-2000P Series MPEG IMX<sup>™</sup> Studio Recorders are more than just ideal tools on v to base your open MPEG-2 infrastructure. They also play a vital role in migrating your existing operations to MPEG-2.





**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



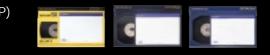
Other manufacturers' with SDTI-CP I/0

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

ver SDTI-CP output for following:

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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<sup>™</sup> 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<sup>™</sup> 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<sup>™</sup> 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<sup>™</sup> 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<sup>™</sup> 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 composite input         BNC (x + 2), 10 kpp, 75.0, syme regulate           Analog composite input         BNC (x + 2), 10 kpp, 75.0, syme regulate           Analog composite input         BNC (x + 2), 10 kpp, 75.0, syme regulate           Analog composite input         BNC (x + 2), 10 kpp, 75.0, syme regulate           Analog composite input         BNC (x + 2), 10 kpp, 75.0, syme regulate           SDI to lippi         BNC (x + 2), 10 kpp, 75.0, syme regulate           SDI to lippi         BNC (x + 2), 10 kpp, 75.0, syme regulate           SDI to lippi         BNC (x + 2), 10 kpp, 75.0, syme regulate           SDI to lippi         BNC (x + 2), 10 kpp, 75.0, syme regulate           SDI to lippi         BNC (x + 2), 10 kpp, 75.0, syme regulate           Analog audo input         XL, 10 kpp, 75.0, Syme regulate           Analog audo input         XL, 12 kpp, 75.0, Syme regulate           Analog audo input         XL, 14 (10 cl channel selectate)           Diptit audo coput (CH 12, 34, 56, 76), ASS/B2U         BDC (x + 2), 461 kpp, 41 kpp, 220, Borbine           Diptit audo coput (CH 12, 34, 56, 76), ASS/B2U         BDC (x + 2), 41 kpp, 41 kp		
Anoteg composite input         BNC (# 2). 10 Wpc, 75 B, sync negative           Analog composite output         BNC (# 2). 4 including one character output, 10 Wp, 75 B, sync negative.           Analog composite input         BNC (# 2). including one character output, 20 Wp, 75 B, sync negative.           Strin put         BNC (# 2). including one character output, 20 Wp, 75 B, sync negative.           Strin put         BNC (# 2). including one character output.           Strin put         BNC (# 2). including one character output.           Strin put         BNC (# 2). including one character output.           Strin put         BNC (# 2). including one character output.           Strin put         BNC (# 2). including one character output.           Strin put         BNC (# 2). including one character output.           Strin put         BNC (# 2). including one character output.           Strin put         BNC (# 2). including one character output.           Strin put         BNC (# 2). including one character output.           Strin put (CH 17, 23, 45, 77, 78). ASSTMI         BNC (# 4). distrin the strin put (B 18, 23, 20 MPC 19).           Diptit audio output (CH 17, 23, 45, 77). ASSTMI         BNC (# 4). distrin the strin put (B 18, 23, 20 MPC 19).           Diptit audio output (CH 17, 23, 45, 77). ASSTMI         BNC (# 4). distrin the strin put (B 18, 20, 20 MPC 19).           Diptit output (CH 17, 23, 45, 27). ASSTMI <td< td=""><td>Load/unload time</td><td>4.5 (S-cassette)/5.5 (L-cassette) s or less</td></td<>	Load/unload time	4.5 (S-cassette)/5.5 (L-cassette) s or less
Anoteg composite input         BNC (# 2). 10 Wpc, 75 B, sync negative           Analog composite output         BNC (# 2). 4 including one character output, 10 Wp, 75 B, sync negative.           Analog composite input         BNC (# 2). including one character output, 20 Wp, 75 B, sync negative.           Strin put         BNC (# 2). including one character output, 20 Wp, 75 B, sync negative.           Strin put         BNC (# 2). including one character output.           Strin put         BNC (# 2). including one character output.           Strin put         BNC (# 2). including one character output.           Strin put         BNC (# 2). including one character output.           Strin put         BNC (# 2). including one character output.           Strin put         BNC (# 2). including one character output.           Strin put         BNC (# 2). including one character output.           Strin put         BNC (# 2). including one character output.           Strin put         BNC (# 2). including one character output.           Strin put (CH 17, 23, 45, 77, 78). ASSTMI         BNC (# 4). distrin the strin put (B 18, 23, 20 MPC 19).           Diptit audio output (CH 17, 23, 45, 77). ASSTMI         BNC (# 4). distrin the strin put (B 18, 23, 20 MPC 19).           Diptit audio output (CH 17, 23, 45, 77). ASSTMI         BNC (# 4). distrin the strin put (B 18, 20, 20 MPC 19).           Diptit output (CH 17, 23, 45, 27). ASSTMI <td< td=""><td></td><td></td></td<>		
Antiol component output         BNC 1 × 3. Including one character out, 10 V pp. 75 d. spic negative           Analog component output         BNC 1 × 3. Including one character out, 10 V pp. 75 d. spic negative, 87.08 × 0.7 V pp. 75 D.           Stol output         BNC 1 × 3. Including one character output, N1 d. V pp. 75 d. spic negative, 87.08 × 0.7 V pp. 75 D.           Stol output         BNC 1 × 3. Including one character output, SMPE 2504 M(TU-R B166-53, 270 Mbt/s           Stol output         BNC 1 × 3. Including one character output, SMPE 2504 M(TU-R B166-53, 270 Mbt/s           Antegra quido input         BNC 1 × 3. Including one character output, SMPE 2504 M(TU-R B166-53, 270 Mbt/s           Antegra quido input         BNC 1 × 3. SMPE 2504 M(TU-R B166-53, 270 Mbt/s           Antegra quido input         BNC 1 × 3. SMPE 2504 M(TU-R B166-53, 270 Mbt/s           Antegra quido input         BNC 1 × 3. SMPE 2504 M(TU-R B166-53, 270 Mbt/s           Digit adud output (C1 12, 24, 55, 77, ALSSEBU         BNC 1 × 4. of 461 H B14 251 04 BHz with Simple rate converten           Digit adud output (C1 12, 24, 55, 77, ALSSEBU         BNC 1 × 3. SMPE 250 P(TER B16-550 M)           Bar 20 (SMPE 250 M)         Bar 20 (SMPE 250 M)           Bar 20 (SMPE 250 M)         Bar 20 (SMPE 250 M)           Bar 20 (SMPE 250 M)         SMPE 12 (SMPE 250 M)           Bar 20 (SMPE 250 M)         SMPE 12 (SMPE 250 M)           Monoro autput LP         SMPE 12 (SMPE 12 (SMPE 12 (SMPE 12	Inputs/Outputs signal	
Antiol component output         BNC 1 × 3. Including one character out, 10 V pp. 75 d. spic negative           Analog component output         BNC 1 × 3. Including one character out, 10 V pp. 75 d. spic negative, 87.08 × 0.7 V pp. 75 D.           Stol output         BNC 1 × 3. Including one character output, N1 d. V pp. 75 d. spic negative, 87.08 × 0.7 V pp. 75 D.           Stol output         BNC 1 × 3. Including one character output, SMPE 2504 M(TU-R B166-53, 270 Mbt/s           Stol output         BNC 1 × 3. Including one character output, SMPE 2504 M(TU-R B166-53, 270 Mbt/s           Antegra quido input         BNC 1 × 3. Including one character output, SMPE 2504 M(TU-R B166-53, 270 Mbt/s           Antegra quido input         BNC 1 × 3. SMPE 2504 M(TU-R B166-53, 270 Mbt/s           Antegra quido input         BNC 1 × 3. SMPE 2504 M(TU-R B166-53, 270 Mbt/s           Antegra quido input         BNC 1 × 3. SMPE 2504 M(TU-R B166-53, 270 Mbt/s           Digit adud output (C1 12, 24, 55, 77, ALSSEBU         BNC 1 × 4. of 461 H B14 251 04 BHz with Simple rate converten           Digit adud output (C1 12, 24, 55, 77, ALSSEBU         BNC 1 × 3. SMPE 250 P(TER B16-550 M)           Bar 20 (SMPE 250 M)         Bar 20 (SMPE 250 M)           Bar 20 (SMPE 250 M)         Bar 20 (SMPE 250 M)           Bar 20 (SMPE 250 M)         SMPE 12 (SMPE 250 M)           Bar 20 (SMPE 250 M)         SMPE 12 (SMPE 250 M)           Monoro autput LP         SMPE 12 (SMPE 12 (SMPE 12 (SMPE 12	Analog composite input	BNC (x 2) 1.0 Vp-p. 75.0 sync negative
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		
Time code output         XIR (x 1), male           Memory card insoften solt         PCMCAC(x1)           Memory card insoften solt         XIR (x 2) (channel selectable)           Processor adjustment range         -           Video level         -3 dB / -= to -3 dB selectable           Chroma teel         -3 dB / -= to -3 dB selectable           Black level         -3 dB / -= to -3 dB selectable           Chroma plase	•	
Memory card insertion solt         PCMCla(xi)           Wontfor output LR         XLR (x 2) (channel selectable)           Processor adjustment range         4 3 dB/- ∞ to 4 3 dB selectable           Vidio lovel         2 dB/- ∞ to 4 3 dB selectable           Chroma level         2 dB/- ∞ to 4 3 dB selectable           Black level         300 RE/2210 mV           System sync phase         400           System SQC phase         200 ns           YC deby         100 ns (Betacam/Betacam SP playback only)           Composite input level         2 dB/F- 2 5 5 MHz           System SQC phase         2 dB NS- 2 5 5 MHz           Digital video performance         20           System SQC phase         100 ns (Betacam/Betacam SP playback only)           Composite input level         3 dB           Digital video performance         20           System SQC phase         100 ns (Betacam/Betacam SP playback only)           Composite input level         40 Dat CY (2 T pulse): 1 % or less           Digital input to analog component output         KFactor (2 T pulse): 1 % or less           Analog composite input to analog composite output         A/D and DA quantization to bis/sample           Bandwidth: Y: 0 to 5 75 MHz + 05 / 2 0 dB         S/N raito: 53 dB or more           V/C adday 2 on sor less         V/D		
Montor output L/R         XLR (x 2) (channel selectable)           Processor adjustment range         Image: Selectable           Vice level         3 dB/ -= to +3 dB selectable           Black level         30 lB/ -= 210 mV           Orroma prase         -30°           System SC phase         -10° JB selectable           System SC phase         -10° JB           Orposte Input level         -30 lB /= 200 ns           System SC phase         -100 ns (Betacam/Betacam SP playback only)           Composite Input level         -3 dB           Digital video performance	•	
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 <sup>th</sup> 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)
Video Ive/I       3 dB / - in 0 - 3 dB selectable         Chroma Ive/I       3 dB / - in 0 - 3 dB selectable         Black Ive/I       30 IRE/-210 mV         Black Ive/I       30 IRE/-210 mV         Anot System sync phase       15 µS         System SC phase       200 ns         VC delay       100 ns (Betacan/Betacam/Betacam/Betacam/Betacam/SP playback only)         Composite input Ive/I       3 dB         Digital video performance       -         Sampling frequency       Y 13.5 MHz R-Y/B-Y: 6.75 MHz         Quantization       8 bHs/sample         Forr correction       Reed-Solomon code         Digital input to analog component output       K-factor (21 pulse): 1 % or less         Analog component input to analog composite output       K-factor (21 pulse): 1 % or less         Analog composite input to analog composite output       AD and D/A quantization: 10 bits/sample         Bandwidth: '0 to 5.75 MHz +0.5/-2.0 dB, R-Y/B-Y: 0 to 2.75 MHz +0.5/-2.0 dB       S/N ratio: 56 dB or more         Cytical audio performance       LF non-linearity: 3.0 % or less         Analog composite input to analog composite output       AD and D/A quantization: 10 bits/sample         Bandwidth: '0 to 5.75 MHz +0.5/-2.0 dB, S/I/B-Y: 0 to 2.75 MHz +0.5/-2.0 dB         Sylter to analog composite output       Atalot (21 pulse): 1 % or less	Monitor output L/R	XLR (x 2) (channel selectable)
Video Ive/I       3 dB / - in 0 - 3 dB selectable         Chroma Ive/I       3 dB / - in 0 - 3 dB selectable         Black Ive/I       30 IRE/-210 mV         Black Ive/I       30 IRE/-210 mV         Anot System sync phase       15 µS         System SC phase       200 ns         VC delay       100 ns (Betacan/Betacam/Betacam/Betacam/Betacam/SP playback only)         Composite input Ive/I       3 dB         Digital video performance       -         Sampling frequency       Y 13.5 MHz R-Y/B-Y: 6.75 MHz         Quantization       8 bHs/sample         Forr correction       Reed-Solomon code         Digital input to analog component output       K-factor (21 pulse): 1 % or less         Analog component input to analog composite output       K-factor (21 pulse): 1 % or less         Analog composite input to analog composite output       AD and D/A quantization: 10 bits/sample         Bandwidth: '0 to 5.75 MHz +0.5/-2.0 dB, R-Y/B-Y: 0 to 2.75 MHz +0.5/-2.0 dB       S/N ratio: 56 dB or more         Cytical audio performance       LF non-linearity: 3.0 % or less         Analog composite input to analog composite output       AD and D/A quantization: 10 bits/sample         Bandwidth: '0 to 5.75 MHz +0.5/-2.0 dB, S/I/B-Y: 0 to 2.75 MHz +0.5/-2.0 dB         Sylter to analog composite output       Atalot (21 pulse): 1 % or less		
Video Ive/I       3 dB / - in 0 - 3 dB selectable         Chroma Ive/I       3 dB / - in 0 - 3 dB selectable         Black Ive/I       30 IRE/-210 mV         Black Ive/I       30 IRE/-210 mV         Anot System sync phase       15 µS         System SC phase       200 ns         VC delay       100 ns (Betacan/Betacam/Betacam/Betacam/Betacam/SP playback only)         Composite input Ive/I       3 dB         Digital video performance       -         Sampling frequency       Y 13.5 MHz R-Y/B-Y: 6.75 MHz         Quantization       8 bHs/sample         Forr correction       Reed-Solomon code         Digital input to analog component output       K-factor (21 pulse): 1 % or less         Analog component input to analog composite output       K-factor (21 pulse): 1 % or less         Analog composite input to analog composite output       AD and D/A quantization: 10 bits/sample         Bandwidth: '0 to 5.75 MHz +0.5/-2.0 dB, R-Y/B-Y: 0 to 2.75 MHz +0.5/-2.0 dB       S/N ratio: 56 dB or more         Cytical audio performance       LF non-linearity: 3.0 % or less         Analog composite input to analog composite output       AD and D/A quantization: 10 bits/sample         Bandwidth: '0 to 5.75 MHz +0.5/-2.0 dB, S/I/B-Y: 0 to 2.75 MHz +0.5/-2.0 dB         Sylter to analog composite output       Atalot (21 pulse): 1 % or less	Processor adjustment range	
Chroma level       ±3 dB / +> to +3 dB selectable         Black level       ±30 RE/±210 mV         Chroma phase       ±30"         System Scy phase       ±15 µS         System Scy phase       ±200 ns         System Scy phase       ±200 ns         ViC delay       ±100 ns (Betacam/Betacam SP playback only)         Composite input level       ±3 dB         Digital video performance       #         Sampling frequency       Y 13.5 MHz RY/B-Y: 6.75 MHz         Quantization       B bits/sample         Error correction       Reed-Solomon code         Digital input to analog component output       K-factor (21 pulse): 1% or less         Analog composite input to analog component output       K-factor (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 + 05./2.0 dB       S/N ratio: 53 dB or more         Differential phase: 2''or less       Differential phase: 2''or less         Uriterential phase: 2''or less       S/N ratio: 53 dB or more         Differential phase: 2''or less       Differential phase: 2''or less         Differential phase: 2''or less       S/N ratio: 53 dB or more         Differential phase: 2''or less       S/N ratio: 53 dB or more         D		$\pm 2 dP/$ m to $\pm 2 dP$ soloctable
Black kevel       3.0 RE/s210 mV         Chroma phase       3.0         System sync phase       15 µS         system SC phase       15 µS         System SC phase       200 ns         VC delay       100 ns (Betacam/Betacam/Set playback only)         Composite input level       3 dB         Digital video performance       V1 3.5 MHz R.Y/B.Y.6.75 MHz         Sampling frequency       Y 13.5 MHz R.Y/B.Y.6.75 MHz         Quantization       8 bits/sample         Error correction       Reed-Solomon code         Analog component input to analog component output       Kfactor (2T pulse): 1 % or less         Analog component input to analog component output       Kfactor (2T pulse): 1 % or less         Analog composite input to analog composite output       Bandwidth: 0 to 5.75 MHz 4.05./2.0 dB, R.Y/B.Y.0 to 2.75 MHz +0.5./2.0 dB         Analog composite input to analog composite output       Kfactor (2T pulse): 1 % or less         A/D and D/A quantization: 10 bits/sample       Bandwidth: 0 to 5.75 MHz 4.05./2.0 dB         Simpling frequency       48 kHz (synchronised with video)         Quantization       16 or 24 bits/sample (selectable)         Analog input to output A/D aquatization: 10 bits/sample       Sampling frequency         Als Hz (synchronised with video)       16 or 24 bits/sample (selectable)		
Chroma phase     # 30°       System Sc phase     # 15 µS       System Sc phase     # 200 ns       4200 ns     # 100 ns (Betacam/Betacam SP playback only)       Composite input level     # 30°       Digital video performance     #       Sampling frequency     Y: 13.5 MHz R:Y/B-Y: 6.75 MHz       Quantization     8 bits/sample       Error correction     Reed-Solomo code       Digital input to analog component output     K-factor (27 pulse): 1% or less       Chroma phase     L'ron correction       Analog composite input to analog composite output     K-factor (27 pulse): 1% or less       L'r non-linearity: 30 % or less     L'ron correction       Analog composite input to analog composite output     K-factor (27 pulse): 1% or less       L'r non-linearity: 30 % or less     L'ron-linearity: 30 % or less       Differential phase: 2'or less     Differential phase: 2'or less       Differential phase: 2'or less		
System SC phase       ±15 µs         System SC phase       ±200 ns         YC delay       ±100 ns (Betacam/Betacam SP playback only)         Composite input level       ±3 dB         Digital video performance       Y:13.5 MHz R-Y/B-Y: 6.75 MHz         Quantization       8 bits/sample         For correction       Reed-Solomon code         Digital input to analog component output       Kfactor (27 pulse): 1 % or less         Analog component input to analog component output       Afactor (27 pulse): 1 % or less         Analog composite input to analog composite output       Afactor (27 pulse): 1 % or less         Analog composite input to analog composite output       A/D and D/A quantization: 10 bits/sample         Analog composite input to analog composite output       A/D and D/A quantization: 10 bits/sample         Analog composite input to analog composite output       A/D and D/A quantization: 10 bits/sample         Analog composite input to analog composite output       A/D and D/A quantization: 10 bits/sample         Syn ratic: 53 dB or more       Differential quit: 2 % or less         Differential quit: 2 % or less       Differential quit: 2 % or less         Differential quit: 2 % or less       Differential quit: 2 % or less         Differential quit: 2 % or less       Differential quit: 2 % or less         Differential quit: 2 % or less       Di		
System SC phase         ± 200 rs           V7C delay         ± 00 ns (Betacam/Betacam SP playback only)           Composite input level         ± 3 dB           Digital video performance         S           Sampling frequency         Y. 13.5 MHz R-Y/B-Y: 6.75 MHz           Ouanitzation         8 bits/sample           Error correction         Reed-Solomon code           Digital input to analog component output         K-factor (27 pulse): 1 % or less           Analog composite input to analog composite output         K-factor (27 pulse): 1 % or less           Analog composite input to analog composite output         K-factor (27 pulse): 1 % or less           Analog composite input to analog composite output         K-factor (27 pulse): 1 % or less           UF non-linearity: 3.0 % or less         UF non-linearity: 3.0 % or less           UF nor linearity: 3.0 % or less         UF nor linearity: 3.0 % or less           Differential gain: 2 % or less         UF or remease           V/C delay: 20 no reles         V/C delay: 20 no reles           Differential gain: 2 % or less         UF or remease           Differential gain: 2 % or less         UF or remease           Sampling frequency         48 kHz (synchronised with wdeo)           Cuanitzation         16 or 24 bits/sample           Aralog input to output A/D and D/A quantization		±30°
Y/C delay       ±100 ns ( Betacam/Betacam SP playback only)         Composite input level       ±3 dB         Digital video performance       X         Sampling frequency       Y. 13.5 MHz R-Y/B-Y: 6.75 MHz         Quantization       8 bits/sample         Forr correction       Reed-Solomon code         Digital input to analog component output       Kractor (2T pulse): 1 % or less         Analog component input to analog component output       A/D and D/A quantization: 10 bits/sample         Bandwidth: Y to to 5.75 MHz - 0.5/-2.0 dB, R-Y/B-Y: 0 to 2.75 MHz + 0.5/-2.0 dB         S/N ratio: 56 dB or more       Kractor (2T pulse): 1 % or less         S/N ratio: 53 MB / e.0.57.0 MB, z+0.5/-2.0 dB       S/N ratio: 53 MB / z+0.5/-2.0 dB         Analog composite input to analog composite output       A/D and D/A quantization: 10 bits/sample         Bandwidth: to 10 or 57 MHz + 0.5/-2.0 dB       S/N ratio: 53 dB or more         S/N ratio: 53 dB or more       N/D and D/A quantization: 10 bits/sample         Bandwidth: to 10 or 57 MHz + 0.5/-2.0 dB       S/N ratio: 53 dB or more         Differential gain: 2% or less       Kractor (2T pulse): 1 % or less         V/C delay: 20 ns or less       Kractor (2T pulse): 1 % or less         Lingter start s	System sync phase	±15 µs
Composite input level       ±3 dB         Digital video performance       sampling frequency         Sampling frequency       Y: 13.5 MHz R:Y/B:Y: 6.75 MHz         Quantization       8 bits/sample         Error correction       Reed-Solomon code         Digital input to analog component output       K factor (2T pulse): 1% or less         Analog component input to analog component output       K/factor (2T pulse): 1% or less         Analog composite input to analog composite output       A/D and D/A quantization: 10 bits/sample         Bandwidth: Y. 0 to 5.75 MHz + 0.5/-2.0 dB, R-Y/B-Y: 0 to 2.75 MHz + 0.5/-2.0 dB         X/N ratio: 56 dB or more       Kfactor (2T pulse): 1% or less         Analog composite input to analog composite output       A/D and D/A quantization: 10 bits/sample         Bandwidth: 0 to 5.75 MHz + 0.5/-2.0 dB       S/Y ratio: 53 dB or more         Differential plan: 2 % or less       Differential plan: 2 % or less         Differential plan: 2 % or less       Differential plan: 2 % or less         V/C delay: 20 ns or less       Y/C delay: 20 ns or less         Analog input to output A/D and D/A quantization       20 bits/sample         Analog input to output A/D and D/A quantization       20 bits/sample         Prequency response (0 BB at 1 kHz, emphasis ON)       More than 90 dB         Dynamic range (at 1 kHz, emphasis ON, efference level)	System SC phase	±200 ns
Digital video performance       Y: 13.5 MHz R-Y/B-Y: 6.75 MHz         Sampling frequency       Y: 13.5 MHz R-Y/B-Y: 6.75 MHz         Quantization       8 bits/sample         Error correction       Reed-Solomo code         Digital input to analog component output       K-factor (2T pulse): 1 % or less         Analog component input to analog component output       K-factor (2T pulse): 1 % or less         Analog composite input to analog component output       K-factor (2T pulse): 1 % or less         LF non-linearity: 3.0 % or less       LF non-linearity: 3.0 % or less         LF non-linearity: 3.0 % or less       V/D and D/A quantization: 10 bits/sample         Bandwidth: to to 5.75 MHz - 0.5/-2.0 dB       S/N ratio: 53 dB or more         V/D delay: 20 ns or less       V/D coless         Liferential phase: 2'or less       Differential phase: 2'or less         Differential phase: 2'or less       V/C delay: 20 ns or less         K-factor (2T pulse): 1 % or less       V/D delay: 20 ns or less         V/C delay: 20 ns or less       K-factor (2T pulse): 1 % or less         Differential phase: 2'or less       V/D delay: 20 ns or less         V/D duantization       20 bits/sample         Sampling frequency       48 kHz (synchronised with video)         Ouantization       20 bits/sample         Differential phase: 30 MB       D/	Y/C delay	±100 ns (Betacam/Betacam SP playback only)
Digital video performance       Y: 13.5 MHz R-Y/B-Y: 6.75 MHz         Sampling frequency       Y: 13.5 MHz R-Y/B-Y: 6.75 MHz         Quantization       8 bits/sample         Error correction       Reed-Solomo code         Digital input to analog component output       K-factor (2T pulse): 1 % or less         Analog component input to analog component output       K-factor (2T pulse): 1 % or less         Analog composite input to analog component output       K-factor (2T pulse): 1 % or less         LF non-linearity: 3.0 % or less       LF non-linearity: 3.0 % or less         LF non-linearity: 3.0 % or less       V/D and D/A quantization: 10 bits/sample         Bandwidth: to to 5.75 MHz - 0.5/-2.0 dB       S/N ratio: 53 dB or more         V/D delay: 20 ns or less       V/D coless         Liferential phase: 2'or less       Differential phase: 2'or less         Differential phase: 2'or less       V/C delay: 20 ns or less         K-factor (2T pulse): 1 % or less       V/D delay: 20 ns or less         V/C delay: 20 ns or less       K-factor (2T pulse): 1 % or less         Differential phase: 2'or less       V/D delay: 20 ns or less         V/D duantization       20 bits/sample         Sampling frequency       48 kHz (synchronised with video)         Ouantization       20 bits/sample         Differential phase: 30 MB       D/	Composite input level	
Sampling frequencyY: 13.5 MHz R-Y/B-Y: 6.75 MHzQuantization8 bits/sampleEror correctionReed-Soloon codeDigital input to analog component outputK-factor (2T pulse): 1 % or lessAnalog component linput to analog component outputA/D and D/A quantization: 10 bits/sampleBandwidth: V: 0 to 5.75 MHz + 0.5/-2.0 dB, R-Y/B-Y: 0 to 2.75 MHz + 0.5/-2.0 dBS/N ratio: 56 dB or moreK-factor (2T pulse): 1 % or lessAnalog composite input to analog composite outputAnalog composite input to analog composite outputAnalog composite input to analog composite outputAnalog normoreK-factor (2T pulse): 1 % or lessLF non-linearity: 3.0 % or lessAnalog normoreS/N ratio: 53 dB or moreDifferential gain: 2 % or lessV/C delay: 20 ns or lessK-factor (2T pulse): 1 % or lessV/C delay: 20 ns or lessK-factor (2T pulse): 1 % or lessV/C delay: 20 ns or lessK-factor (2T pulse): 1 % or lessV/C delay: 20 ns or lessK-factor (2T pulse): 1 % or lessV/C delay: 20 ns or lessK-factor (2T pulse): 1 % or lessDifferential gain: 2 % or lessV/C delay: 20 ns or lessK-factor (2T pulse): 1 % or lessDifferential gain: 2 % or lessV/C delay: 20 ns or lessK-factor (2T pulse): 1 % or lessDifferential gain: 2 % or lessV/C delay: 20 ns or lessK-factor (2T pulse): 1 % or lessDifferential gain: 2 % or lessMore tar 0 dBDistris (at 1 kHz, emphasis		
Sampling frequencyY: 13.5 MHz R-Y/B-Y: 6.75 MHzQuantization8 bits/sampleEror correctionReed-Soloon codeDigital input to analog component outputK-factor (2T pulse): 1 % or lessAnalog component linput to analog component outputA/D and D/A quantization: 10 bits/sampleBandwidth: V: 0 to 5.75 MHz + 0.5/-2.0 dB, R-Y/B-Y: 0 to 2.75 MHz + 0.5/-2.0 dBS/N ratio: 56 dB or moreK-factor (2T pulse): 1 % or lessAnalog composite input to analog composite outputAnalog composite input to analog composite outputAnalog composite input to analog composite outputAnalog normoreK-factor (2T pulse): 1 % or lessLF non-linearity: 3.0 % or lessAnalog normoreS/N ratio: 53 dB or moreDifferential gain: 2 % or lessV/C delay: 20 ns or lessK-factor (2T pulse): 1 % or lessV/C delay: 20 ns or lessK-factor (2T pulse): 1 % or lessV/C delay: 20 ns or lessK-factor (2T pulse): 1 % or lessV/C delay: 20 ns or lessK-factor (2T pulse): 1 % or lessV/C delay: 20 ns or lessK-factor (2T pulse): 1 % or lessDifferential gain: 2 % or lessV/C delay: 20 ns or lessK-factor (2T pulse): 1 % or lessDifferential gain: 2 % or lessV/C delay: 20 ns or lessK-factor (2T pulse): 1 % or lessDifferential gain: 2 % or lessV/C delay: 20 ns or lessK-factor (2T pulse): 1 % or lessDifferential gain: 2 % or lessMore tar 0 dBDistris (at 1 kHz, emphasis	Digital video performance	
Quantization       B bits/sample         Error correction       Reed-Solomon code         Digital input to analog component output       K-factor (2T pulse): 1 % or less         Analog component input to analog component output       A/D and D/A quantization: 10 bits/sample         Bandwidth: Y: 0 to 5.75 MHz +0.5/-2.0 dB, R-Y/B-Y: 0 to 2.75 MHz +0.5/-2.0 dB         S/N ratio: 56 dB or more         K-factor (2T pulse): 1 % or less         LF non-linearity: 3.0 % or less         Analog composite input to analog composite output         Analog composite input to analog composite output         AvD and D/A quantization: 10 bits/sample         Bandwidth: 0 to 5.75 MHz +0.5/-2.0 dB         S/N ratio: 53 dB or more         Differential gain: 2 % or less         V/C delay: 20 ns or less         K-factor (2T pulse): 1 % or less         Sampling frequency         48 kHz (synchronised with video)         Quantization         16 or 24 bits/sample (selectable)         Analog input to output A/D and D/A quantization         10 for 24 bits/sample (selectable)         Analog input to output A/D and D/A quantization         10 for 24 bits/sample (selectable)		
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Operation manual x 1	Frequency response (0 dB at 1 kHz) Dynamic range (at 1 kHz, emphasis ON) Distortion (at 1 kHz, emphasis ON, reference level) Cross talk (at 1 kHz, between any two channels) Wow & flutter Head room Emphasis (ON/OFF selectable in REC mode) Supplied accessories	More than 90 dB Less than 0.05% Less than -80 dB Below measurable level 20 dB (18 dB selectable) T1=50 µs, T2=15 µs
	Frequency response (0 dB at 1 kHz) Dynamic range (at 1 kHz, emphasis ON) Distortion (at 1 kHz, emphasis ON, reference level) Cross talk (at 1 kHz, between any two channels) Wow & flutter Head room Emphasis (ON/OFF selectable in REC mode) Supplied accessories Remote cable (RCC-5G)	More than 90 dB Less than 0.05% Less than -80 dB Below measurable level 20 dB (18 dB selectable) T1=50 μs, T2=15 μs x 1
Installation manual x 1	Frequency response (0 dB at 1 kHz) Dynamic range (at 1 kHz, emphasis ON) Distortion (at 1 kHz, emphasis ON, reference level) Cross talk (at 1 kHz, between any two channels) Wow & flutter Head room Emphasis (ON/OFF selectable in REC mode) Supplied accessories Remote cable (RCC-5G) PSW 4 x 16 Rack mount screws	More than 90 dB Less than 0.05% Less than -80 dB Below measurable level 20 dB (18 dB selectable) T1=50 µs, T2=15 µs x 1 x 4
	Frequency response (0 dB at 1 kHz) Dynamic range (at 1 kHz, emphasis ON) Distortion (at 1 kHz, emphasis ON, reference level) Cross talk (at 1 kHz, between any two channels) Wow & flutter Head room Emphasis (ON/OFF selectable in REC mode) Supplied accessories Remote cable (RCC-5G) PSW 4 x 16 Rack mount screws Operation manual	More than 90 dB Less than 0.05% Less than -80 dB Below measurable level 20 dB (18 dB selectable) T1=50 µs, T2=15 µs x 1 x 4 x 4 x 1

\*ISR: Interactive Status Reporting

## SONY

### Sony Broadcast & Professional Europe Studio Editing Recorders