# DVCAM Family 2005/2006

DVCAM

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Video production styles continue to diversify in response to the rapid and tremendous growth in visual communication. In this fast-changing environment, the need is for equipment that meets the crucial demands for both higher productivity and greater creativity in professional video production.

Since its launch in 1996, Sony DVCAM<sup>™</sup> has satisfied these demands and brought many notable benefits. Excellent picture and sound quality that only a digital format can provide, high-performance editing capabilities, and system versatility that makes it possible to migrate smoothly from analogue to digital – these are just some of the factors behind the success of DVCAM.

A full model line-up for digital acquisition, editing and programme playout has led to the rapid acceptance of DVCAM by business users, production acilities and broadcasters around the world.

The DVCAM product family is expanding with many new models added, broadening the range of applications in ENG, field acquisition/editing and simple editing.

With HDV and XDCAM also supporting the DVCAM format, you will be choosing innovative, equipment to bring both new solutions to your production demands and added performance benefits to your system. MAIN FEATURES

# The DVCAM Format

Superior performance and cost effectiveness distinguish Sony DVCAM media. Designed for professional video production, DVCAM is a durable and reliable tape format offering excellent archival stability. As well as providing enhanced picture quality with a radically lower dropout rate, DVCAM is less abrasive than DV media and reduces VTR head wear. This makes it an ideal solution for today's cost conscious professionals who want outstanding recording performance with reduced running costs.

#### Unrivalled Performance

DVCAM features advanced metal evaporated tape technology and a super thick DLC (Diamond Like Carbon) protective layer to give superior quality and exceptionally low error rates. With half the tape shrinkage and dropouts of DV media plus reduced head wear, DVCAM is setting new standards for professional video production.

Iter	ns	DV	DVCAM
DLC		Standard	1.3 times thicker
			DLC than
			DV Consumer
Edit Simulation	[pass]	>50	>150
Tape shrinkage	[%]	<0.10	< 0.05
Friction	(5000 passes)	0.45	03
coefficient	(5000 passes)	0.40	0.0
Still	(+5°C) [min]	>60	>120
Dropouts	[counts/min]	100	50
(Average)	[counts/min]	100	50
Head Wear	[um/100b]	0.65	0 19
(Average)	[ping 100h]	0.00	0.10

#### Less Head Wear means Lower Running Costs

In today's cost-conscious world, operating efficiency is crucial. DVCAM incorporates a much smoother tape surface than DV media, dramatically reducing wear on the VTR head drums. That means you won't need to change the heads so frequently, allowing you to save on running costs.

#### Always Use DVCAM Media in DVCAM

By developing DVCAM hardware and media in partnership, Sony has increased the guaranteed operational life of the VTR head drum to an exceptional level. Using DV media in professional DVCAM equipment is possible but not recommended as head wear is almost three times higher, shortening its life by almost one third.

With high head drum costs and ever-tightening budgets, it makes sound business sense to invest in media that delivers superior performance while protecting the life of your equipment. DVCAM is a stable, durable and reliable format for digital video production that offers superb cost effectiveness. Use DVCAM, the media designed for professionals!



# Unique Technology and Advantages

Playback Capability of DV (25 Mb/s) Format Recorded Tapes

#### DSR-2000AP DSR-1800AP DSR-1600AP DSR-1500AP

For maximum versatility in playback, the DVCAM VTRs are designed to playback DVCAM and DV (SP mode) tapes without a mechanical adaptor or menu adjustment. The DVCAM Master Series VTRs (DSR 2000AP/1800AP/ 1600AP/1500AP) support DVCPRO tape playback\*, and the DSR-2000AP even supports DV (LP mode) playback. Furthermore, it is possible to use these tapes directly as editing source material, improving productivity.

\* Not compatible with SDTI (QSDI) and i.LINK (DV) interfaces.

Recording Capability of the Consumer DV (25 Mb/s) Format

#### DSR-450WSP<sup>1</sup> DSR-400P<sup>2</sup> DSR-250P<sup>3</sup> DSR-PD170P<sup>2</sup> DSR-1500AP DSR-50P<sup>4</sup> DSR-45P<sup>4</sup> DSR-25<sup>4</sup> DSR-11<sup>4</sup>

In the event a longer recording time is required, the above DVCAM camcorder and VTRs are also designed to record in the DV Format. Thanks to this feature, recording of up to 276 minutes is possible with a standard-size cassette and 60 minutes with a mini-size cassette.

\* The transition from cut to cut may not be smooth when recorded in DV (SP) format. In between scenes where the recording format is changed from DV to DVCAM, or vice versa, transition may not be smooth. Not available for editing.

# Audio Cross-fade Capability DSR-2000AP DSR-1800AP

Pre-read heads also provide an audio cross-fade capability with clean audio transitions at editing points. During audio insert editing, the previously recorded audio signal is read out by pre-read heads, cross-faded with the VTR audio input signal and recorded back onto the same track. This provides excellent audio cross-fade editing performance without audio clicks at edit points and provides high quality audio to complement the video performance.

#### Pre-read Editing Capability\*

DSR-2000AP

The DSR-2000AP VTR offers pre-read editing, a function

#### Over-dubbing of audio with pre-read editing capability



No delay between video and audio

never before available on a 1/4-inch (6.35 mm) VTR. Pre-read heads are positioned ahead of the recording heads on the drum to scan previously recorded video and audio signals. These signals can then be sent to a character generator, a video switcher and/or an audio mixer, combined with signals from another source, and then recorded back onto the same tracks. Pre-read editing provides many advantages since it enables single-VTR titling, audio mix/swap and voice over with no delay between video and audio. In addition, A/B roll editing with two VTRs is available (MIX and WIPE only).

 $^{\ast}$  Not available for SDTI (QSDI) and i.LINK (DV) interfaces as these handle compressed signals.

#### • Enhanced Digital Jog Audio

#### DSR-2000AP DSR-1800AP DSR-1600AP DSR-1500AP DSR-DR1000AP

A digital jog audio function is included in the Master Series VTRs with a range of -1 to +1 (DSR-2000AP) or -0.5 to +0.5 (DSR-1800AP/1600AP/1500AP) times normal speed. With its quick and smooth response, locating editing points is very easy. This is a particularly important feature for ENG applications that usually require audio-based editing. Moreover, this function is even available on the Master Series VTRs when using DV and DVCPRO tapes.

#### Versatile Digital Interfaces

#### • SDI (Serial Digital Interface)\*

#### DSR-450WSP\*\* DSR-2000AP DSR-1800AP\*\* DSR-1600AP\*\* DSR-1500AP\*\* DSR-DR1000A

With SDI, high-quality picture and sound can be transferred between DVCAM camcorders, DVCAM VTRs and SDI-equipped devices.

- \* The SDI used in DVCAM camcorders and DVCAM VTRs supports digital component video signals.
- \*\* The DSR-450WSP/1800AP/1600AP/1500AP require an optional board for SDI.

# SDTI (QSDI™)\* DSR-2000AP DSR-1500AP\*\*

SDTI (QSDI) is a digital interface that handles compressed video as well as the sub-code data and digital audio signals of the DV/DVCAM formats. It allows virtually degradation-free transfer of both video and audio signals between SDTI (QSDI) equipped VTRs.

- \* SDTI (Serial Data Transport Interface) is defined as SMPTE 305M. SDTI (QSDI) is the DV compressed signal interface defined as SMPTE 322M.
- \*\* The DSR-1500AP requires an optional board for SDTI (QSDI).

#### i.LINK<sup>™</sup> (DV)\*



i.LINK enables a single cable to simultaneously carry digital video and audio signals, as well as data and control signals, with virtually no quality deterioration. This simple connection offers an ideal solution for connecting DVCAM equipment with consumer AV equipment and computer-related products.

\* i.LINK stands for IEEE1394-1995 standards and their revisions. Is is the logo for products that implement i.LINK.

- \* Output only from the DSR-450WSP/400P.
- Note: Sony VAIO computers are checked with Sony DV products, but not with DVCAM, concerning the i.LINK interconnection. Some VAIO application software may not work with DVCAM.

#### AES/EBU

#### DSR-2000AP DSR-1800AP\* DSR-1600AP\* DSR-1500AP\* DSR-DR1000AP

The DSR-2000AP/1800AP/1600AP/1500AP VTRs and DSR-DR1000AP are fitted with digital audio interfaces conforming to the AES/EBU standard. With a sampling frequency of 48 kHz and 20-bit quantisation, these interfaces ensure high-quality audio.

\* The DSR-1800AP/1600AP/1500AP require an optional board for AES/EBU.

#### Sophisticated Mechanisms • Quick, Responsive Mechanism DSR-2000AP OSR-1800AP OSR-1600AP OSR-1500AP

Quick mechanical response is an essential requirement for professional video production. The Master Series VTRs provide this rapid response with a combination of highly reliable direct reel drive and drum motor mechanisms. The result is a tape drive with rapid response to Jog and Shuttle commands when searching for edit points, and a rapid start in Play mode.

#### • Three-size Cassette Compartment DSR-2000AP DSR-1600AP DSR-1500AP

The Master Series VTRs incorporate a newly designed three-size cassette compartment to ensure compatibility with DV (25 Mb/s) format recorded tapes of all sizes and types. Thanks to this feature, it is possible to use standard and mini DV and DVCAM cassettes, as well as medium DVCPRO cassettes, without a mechanical adaptor.

#### • Dual-size Cassette Compartment

## DSR-450WSP DSR-400P DSR-250P DSR-45P DSR-25

#### DSR-11 DSR-50P

The above camcorders and VTRs have a dual-size cassette compartment which accepts both standard and mini cassettes without a mechanical adaptor.

# • Film-like Images with Progressive Mode

The DSR-450WSP generates a native progressive image of 25P, delivering outstanding clarity as well as a cinematic look.

Selectable Gamma Table Including Film-like Gamma
 DSR-450WSP

The DSR-450WSP provides a selectable gamma table to easily give a specific look to a picture by selecting from multiple fixed gamma patterns including so-called film-like gamma.

# DSR-450WSP/400P Series Camcorder Common Features

- Rugged and ergonomic design
- Compact and lightweight: approx. 6.5 kg (14 lb 5 oz) with the DXF-801 viewfinder, microphone, BP-GL65 battery pack and mini-size DVCAM cassette and VCL-917BY lens (supplied with the DSR-400PK package)
- Low power consumption: approx. 17 W (with DC 12 V power supply, REC mode, viewfinder off and LCD monitor off)
- 12-bit A/D conversion for faithful contrast reproduction
- Advanced digital signal processing (ADSP)
- DVCAM/DV (SP) selectable recording
- Long recording time in DV (SP) mode: up to 276 minutes with a standard-size cassette
- Digital output to external devices via an i.LINK interface
- Quick FF/REW capabilities: approx. 40 seconds for a mini-size cassette and approx. 2 minutes and 30 seconds for a standard-size cassette
- 2.5-inch type<sup>-1</sup> colour LCD monitor
- Supplied DXF-801, 1.5-inch type\*1 black and white viewfinder
- Battery remaining display in the camcorder viewfinder and LCD monitor
- Shoulder pad to be adjusted either forwards or backwards
- User-friendly menu controls
- Memory Stick<sup>™</sup> system for storage of camera setup parameters

- Four assignable buttons to enable operators to assign frequently used functions
- Turbo gain to boost up the gain level up to +36 dB
- Intelligent light system to synchronise an optional portable light (max. 50 W) on/off to the REC button
- CA-WR855 Camera Adaptor for the WRR-855B Wireless
   Microphone Receiver
- Optical ND (Neutral Density) filter and electric CC (Colour Correction) filter
- TruEye<sup>™</sup> process for faithful colour reproduction
- Triple Skin Tone Detail control
- Auto-Tracing White Balance (ATW) function
- Multi-matrix function
- Colour temperature control
- Interval recording to intermittently record signals at pre-determined intervals
- Programmable gain (-3/0/3/6/9/12/18/24/30/36 dB)
- Dual zebra (70 IRE to 90 IRE or more than 100 IRE)
- Marker (centre, safety zone, 4:3/13:9/14:9 aspect (DSR-450WSP only))
- · Edit search for easy access to edit points
- Stereo audio output (pin jacks)
- " Viewable area measured diagonally



# Camcorder DSR-450WSP

- Three wide-aspect 2/3-inch type Power HAD<sup>™</sup> EX CCDs providing high quality images with low smear level (-140 dB), high sensitivity, high S/N ratio (63 dB) and high horizontal resolution (800/850 TV lines in
- 16:9/4:3 mode)Aspect ratio switchable between 16:9 and 4:3
- Film-like shooting with progressive scan mode 25P
- Selectable gamma table including film-like gamma



- Slow shutter (1 to 8 and 16 frames accumulation)
- Versatile interfaces such as analogue composite output, SDI output (with the CBK-SD01 board), and analogue composite input (with the CBK-SC01 board)
- Camera remote control via the RM-B150/B750 Remote Control Unit

# Camcorder DSR-400P

 Three 2/3-inch type Power HAD EX CCDs providing high quality images with low smear level (-140 dB), high sensitivity, high S/N ratio (63 dB) and high horizontal resolution (920 TV lines)
 Supplied VCL -917BV



 Supplied VCL-917BY, 17x zoom lens for the DSR-400PK package

## Camcorder DSR-250P

- Compact and lightweight: 4.4 kg (9 lb 11 oz)
- Newly developed 1/3-inch type three CCDs for accurate colour reproduction
- Capable of both interlace scan, for moving images, and progressive scan, for still images or shooting a moving subject<sup>1</sup> and exporting a frame of the image as a still picture
- DSP (Digital Signal Processing)
- 2.5-inch type (200,000 dot) colour LCD monitor
- 12x lens<sup>™</sup> with Super SteadyShot<sup>™</sup> system
- New, high-resolution 1.5-inch black & white viewfinder
- 16:9 recording mode available (electronically processed)
- Superb picture quality of the DVCAM format
- Recording and playback capability with standard and mini-size DVCAM and DV tapes (SP mode only)<sup>3</sup>
- Three XLR audio input connectors for professional microphones (one at front, two at rear)
- Audio dubbing capability (48 kHz/16-bit or 32 kHz/ 12-bit selectable)
- Long recording time: 184 minutes with a standardsize cassette in DVCAM mode, or 270 minutes in DV SP mode
- Time/date data superimposition on output pictures
- Digital still camera functions with Memory Stick

- Light output (DC 12 V, max. 30 W) and additional DC 12 V out for optional accessories
- Time code pre-set capability
- i.LINK (DV) interface providing a single cable connection to simultaneously transfer audio, video and command signals
- LANC interface for simple editing with a LANC-equipped recorder or editing system
- Supplied RMT-811 Remote Commander
- \*1 When recording moving images in progressive scan mode, the motion will display some jitter since the picture is read/output every 1/12.5 second.
- \*2 Digital zoom of 24x or 48x available via menu selection.
- \*3 when recording in DV (SP) format, transitions between cut to cut may not be smooth. In addition, when the recording format is switched between DVCAM and DV, the transition may not be recorded smoothly.



# Compact Camcorder DSR-PD170P

- Compact and lightweight: Approx 1.6 kg (3 lb 6 oz) (camcorder only)
- Newly developed 1/3-inch type three CCDs for accurate colour reproduction
- Capable of both interlace scan to acquire moving images and progressive scan to capture still images
- Advanced HAD<sup>™</sup> technology for high sensitivity and excellent signal to noise ratio
- Low light shooting of 1 lx with F1.6 at 18 dB gain
- Large 180,000-dot LCD precision black and white viewfinder
- Optical 12x zoom lens<sup>\*1</sup> with Super SteadyShot<sup>™</sup> system
- 16:9 widescreen acquisition mode
- DVCAM/DV selectable recording
- 2 ch. XLR audio input and supplied directional microphone
- 16-bit/12-bit PCM digital sound and audio dub capabilities
- Newly developed hybrid LCD monitor with a high resolution of more than 210,000 pixels
- Simultaneous operation of LCD monitor and viewfinder
- Large-sized handle to allow for a better and easier grip
- On-handle zoom lever and rec. start/stop button



- Long operating time of up to ten hours with the optional NP-F970 InfoLITHIUM<sup>™</sup> battery pack
- Digital still camera functions with Memory Stick media
- Supplied lens hood with built-in lens cap
- Supplied wide conversion lens and additional lens hood
- i.LINK (DV) interface providing a single cable connection to simultaneously transfer audio, video and command signals
- <sup>1</sup> Digital zoom of 24x or 48x available via menu selection





# Master Series VTR Common Features

Since its introduction, the DVCAM format has become widely accepted in the world of video production – from industrial to broadcast markets. Recognising the increasing demands for DV-based production in broadcast applications, Sony introduced the DSR-2000P in 1999 complete with compatibility with all DV family formats and professional features, such as excellent editing performance and high-quality jog audio, inherited from analogue formats. Building on the advanced technologies of the DVCAM format and professional features of the flagship DSR-2000AP, Sony now presents the entire line-up of Master Series VTRs, our top-of-the-range DVCAM videocassette recorders and players. The Master Series VTRs (DSR-2000AP, DSR-1800AP, DSR-1600AP and DSR-1500AP) now bring the features and benefits introduced with the DSR-2000AP to a wider market, from industrial to broadcast for a wider range of applications and requirements.

- Superb picture quality of the DVCAM format
- Playback capability of DV (25 Mb/s) recorded tapes including DV tapes recorded in SP mode and DVCPRO tapes<sup>\*1</sup> without an adaptor or menu setting changes
- Long recording time: up to 184 minutes with a standard-size cassette and 40 minutes with a mini-size cassette
- Four-channel audio editing capability<sup>\*2</sup>
- Audio cross-fade function for clean audio transitions at editing points\*3
- Excellent jog audio capability
- DMC (Dynamic Motion Control) provides noiseless slow-motion playback<sup>\*4</sup>
- High-speed picture search over a range of 60 times<sup>\*2</sup> normal speed, in both forward and reverse
- Versatile digital interfaces<sup>\*5</sup>: SDI, SDTI (QSDI), i.LINK (DV) and AES/EBU digital audio
- Extensive analogue interfaces: composite, component, S-Video and XLR audio
- HD-SDI up-conversion capability<sup>\*5</sup>
- RS-422A remote control interface
- Frame accurate editing capability
- ClipLink operation
- Full tape dubbing with RS-422A interfaces
- 16:9 aspect ID signal recording

- Video process control for greater control of both analogue and digital outputs
- Built-in SMPTE/EBU time code and VITC generator/reader
- Built-in signal generator (colour bars, black burst, 1 kHz tone, silent signal)\*<sup>6</sup>
- Flexible input selection between video and audio<sup>\*7</sup>
- Universal powering system (AC 100 V to 240 V)
- Three-size cassette compartment to ensure compatibility with DV(25Mb/s) recorded tapes
- <sup>1</sup> SDTI (QSDI) and i.LINK (DV) interfaces do not support DVCPRO playback.
- <sup>2</sup> DSR-2000AP/DSR-1800AP/DSR-1600AP only.
- "3 DSR-2000AP/DSR1800AP only.
- <sup>4</sup> DSR-2000AP/DSR1800AP/DSR-1600AP only.
- <sup>15</sup> Optional Input/Output Boards required. Please check Feature Comparison of Digital VTRs (p.20) for details.
- <sup>6</sup> DSR-2000AP/DSR1800AP/DSR-1500AP only
- <sup>77</sup> i.LINK cannot be combined with other signal interfaces. When SDTI (QSDI) is selected as the audio input, the video signal is assumed to be SDTI (QSDI). However, when it is selected as the video input, other signal interfaces can be selected for the audio.

# Editing recorder DSR-2000AP

- Playback capability of DV tapes recorded in LP mode
- Pre-read editing capability<sup>\*1</sup> to perform sound-onsound capability, audio mix/swap and over-dubbing of audio with no delay between video and audio as well as A/B roll editing<sup>\*2</sup> with two VTRs
- VTR-to-VTR editing without external controllers
- Wide range of digital slow speed from

   1 to +1 times normal speed
- Channel condition monitoring function



- Audio level control in both recording and playback modes
- Dial menu operation
  Key Inhibit and Rec Inhibit functions to prevent accidental operation
- <sup>1</sup> Not available through SDTI (QSDI) and i.LINK interfaces. <sup>2</sup> MIX and WIPE only.

<u>M</u>aster

# Editing recorder DSR-1800AP

- Pre-read playback capability to perform audio mix/swap and over dubbing without any delay between video
- and audio signals
  Wide range of digital slow speed from
  -0.5 to +0.5 times normal speed
- Channel condition monitoring function
- Jog dial on front panel



# Editing player DSR-1600AP



- Wide range of digital slow speed from -0.5 to +0.5 times normal speed
- Channel condition
   monitoring function
- Jog dial on front panel

# Editing recorder DSR-1500AP

- Recording capability with standard and mini-size DV tapes.
   (SP mode only)\*
- Wide range of digital slow speed from -0.5 to +0.5 times normal speed
- Compact, half-rack size
- Menu keys on front panel for picture search
- i.LINK interface as a standard



\* Assemble or insert editing is not possible in the consumer DV format mode. However, back space editing is possible using the optional DSRM-10 Remote Control Unit. The transition from cut to cut may not be smooth when performed over a DV recording made on a different DV or DVCAM deck. In between scenes where the recording format is changed from DVCAM to consumer DV format, the transition may not be smooth either. This is a normal and expected phenomenon. The audio reference level is fixed to -12 dB at DV(SP) recording.







# Recorder DSR-45P

- Superb picture quality of the DVCAM format
- Recording and playback capability of the DV format (SP mode only)<sup>\*1</sup>
- Long recording time: up to 184 minutes with a standard-size cassette, 40 minutes with a mini-size cassette in DVCAM mode
- Full range of analogue Video IN/OUT: Component, Composite, S-Video
- Four channel independent Audio IN/OUT with XLR connectors for Audio OUT
- i.LINK(DV) interface for simultaneous transfer of audio, video, and command signals
- RS-422A remote control interface\*2
- RS-232C interface for basic control from a PC
- LANC and Control S interface
- Time code IN/OUT
- Time code/ User bit pre-set
- Time code IN through DV IN
- Duplication function (Including the duplication of Cassette Memory data)
- Compact size (half-rack size width, 2U height)
- Low power consumption (22W during playback)
- Built-in 2-inch type (123,200 dot) colour LCD monitor
- Tape counter
- Wireless remote controller RMT-DS5 supplied



- <sup>-1</sup> When recording in DV (SP) format, the transition between cut to cut may not be smooth. In addition, when the recording format is switched between DVCAM and DV, the transition may not be recorded smoothly.
- <sup>2</sup> The DSR-45P is not equipped with the synchronisation capability, therefore is recommended to be used only as a source feeder in A/B roll editing.

## Recorder DSR-25

- Superb picture quality of the DVCAM format
- Recording and playback capability of the DV format (SP mode only)\*1
- Long recording time: up to 184 minutes with a standard-size cassette, 40 minutes with a mini-size cassette in DVCAM mode
- Recording and playback capability of both NTSC/PAL signals<sup>\*2</sup>
- i.LINK(DV) interface for simultaneous transfer of audio, video, and command signals
- LANC and Control S interface
- Time code/ User bit pre-set
- Time code IN through DV IN
- Duplication function (Including the duplication of Cassette Memory data)
- Power-on recording and playback capabilities
- Compact size (half-rack size width, 2U height)
- Low power consumption (16W during playback)
- Built-in 2-inch type (123,200 dot) colour LCD monitor
- Tape counter
- Wireless remote controller RMT-DS5 supplied



- " When recording in DV (SP) format, the transition between cut to cut may not be smooth. In addition, when the recording format is switched between DVCAM and DV, the transition may not be recorded smoothly.
- <sup>2</sup> The DSR-25 is not equipped to convert signals from NTSC to PAL, or vice versa.

### Recorder DSR-11

#### D2K-11

- Superb picture quality of the DVCAM format
- Recording and playback capability of the DV format (SP mode only)\*1
- Long recording time: up to 184 minutes with a standard-size cassette, 40 minutes with a mini-size cassette in DVCAM mode
- Recording and playback capability of both NTSC/PAL signals<sup>\*2</sup>
- i.LINK(DV) interface for simultaneous transfer of audio, video, and command signals
- LANC and Control S interface
- Time code IN through DV IN
- Auto-repeat function
- Compact/lightweight design for both horizontal and vertical layout
- Wireless remote controller RMT-DS11 supplied



- \*1 When recording in DV (SP) format, the transition between cut to cut may not be smooth. In addition, when the recording format is switched between DVCAM and DV, the transition may not be recorded smoothly.
- \*2 The DSR-11 is not equipped to convert signals from NTSC to PAL, or vice versa.

## Recorder DSR-50P

- Superb picture quality of the DVCAM format
- Recording and playback capability of the DV format (SP mode only)\*
- Long recording time: up to 184 minutes with a standard-size cassette, 40 minutes with a mini-size cassette in DVCAM mode.
- Analogue component video OUT
- Four channel independent Audio IN/OUT with XLR connectors for Audio OUT
- i.LINK(DV) interface for simultaneous transfer of audio, video, and command signals
- Control S and Remote control (Foot Switch) interface.
- 26-pin camera connector
- Time code IN/OUT
- Time code IN through DV IN
- Duplication function (Including the duplication of Cassette Memory data)
- Compact/lightweight design and compatibility with BP-L series batteries for portable use
- Built-in 2.5-inch type (200,000 dot) colour LCD monitor



\* When recording in DV (SP) format, the transition between cut to cut may not be smooth. In addition, when the recording format is switched between DVCAM and DV, the transition may not be recorded smoothly.

# Hard disk recorder DSR-DR1000AP

- Hard disk recorder (160 GB) with 3.5-inch large-capacity hard drive
- Up to twelve hours of 25 Mb/s DVCAM/DV video and audio recording
- Compact and lightweight (210 x 130 x 422 mm/ 8 % x 5 % x 16 % inches, 7.5 kg/ 16 lb 10 oz)
- Simultaneous recording and playback capability
  Variable speed playback within a wide range of
- -2 to +2 times normal speed
- Smooth jog sound capability for easy designation of editing points
- Clip segment playback for continuous playback of designated video segments
- Repeat function\* to allow loop playback of a selected clip or clip segment
- Continuous loop recording allows recording to continue until stopped by operator
- Interval recording to produce recordings over extended periods
- Pre-alarm recording automatically triggers cache recording to start when an external alarm signal is detected
- VTR-like control panel with Jog/Shuttle dial
- Random access to files

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- Control by external devices supporting Sony Virtual File List (VFL) disk protocol via an RS-422A interface
- Synchronous playback via an RS-422A interface
- Versatile interfaces
- i.LINK interface (6-pin) with AV/C and SBP2 protocols
- High-speed file transfer via an i.LINK interface using SBP2 protocol
- File transfer of DV video and audio using FTP via Ethernet connection
- \* The repeat function cannot be used for loop play back of multiple clips or multiple clip segments.

# Anycast Station

Anycast Station – an integrated, portable and easy to use solution to help you deliver your live event.

Designed as a highly portable and easy to use content management and delivery tool for live production, the Anycast Station combines an audio mixer, video switcher, streamer encoder, and LCD monitor in one briefcase sized unit weighing only around 17 lbs 10 oz (8kg).

The Anycast Station (AWS-G500) provides a range of inputs including DV, S-Video, Composite and RGB to allow the user to bring together both Video and PC content in an event without the need for external line converters. The Anycast Station is adaptable to your needs – giving you a choice of inputs for up to six sources, and the ability to deliver content to your audience – both at the venue and to remote audiences via a web stream. In addition live source material can be recorded on external hard disk drives for archive or later editing on a PC.

With all of these features, the Anycast Station is an ideal tool to help you deliver a wide range of events such as business conferences, seminars, press conferences, product promotions, live staging and distance learning.



# Vegas<sup>®</sup> 6

Only Vegas<sup>®</sup> 6 software combines real-time SD, DV, and HDV video editing with unrivaled audio tools to provide the ultimate all-in-one environment for creative professionals — high-definition and high-fidelity.

With its unique, visual approach to digital video and audio production, Vegas delivers tremendous power, incredible speed, and maximum productivity in an uncomplicated, efficient platform.

Key features include: HDV support, unlimited tracks for audio and video, real-time play back and editing, and over 190 video effects and 175 2D and 3D transitions.

Vegas also includes Boris<sup>®</sup> Graffiti LTD titling software and a limited-edition Sony Pictures Sound Effects<sup>™</sup> Series sampler CD.

# Vegas®+DVD Production Suite

The Vegas+DVD Production Suite combines Vegas 6, DVD Architect<sup>™</sup> 3, and Dolby Digital<sup>®</sup> AC-3 encoding software to offer an integrated environment for all phases of video, audio, DVD, and broadcast production.

A must for the professional media producer, this suite lets you edit and process DV, HDV, and SD/HD-SDI in real-time, manipulate audio with unparalleled precision, and efficiently author menubased and single-title DVDs.

Key features include: HDV support, unlimited tracks for audio and video, customisable 2D and 3D effects, project nesting, subtitles, multiple camera angle support, and advanced media management.



The Vegas+DVD Production Suite also includes a limited-edition Sony Pictures Sound Effects<sup>™</sup> Series sampler CD, and the Boris<sup>®</sup> Graffiti LTD, Boris FX LTD for Vegas, and Magic Bullet Movie Looks<sup>™</sup> HD 50 plug-ins.

### Sound Forge 8

Sound Forge<sup>®</sup> software is the leading professional digital audio-editing application for recording, editing, effects processing, and streaming media creation. Cut, paste, mix, crossfade, and delete audio with speed and precision. Edit files non-destructively in real-time at the sample level.

Synchronise audio and video frame-by-frame to create professional multimedia productions. More than 40 built-in professional audio effects and processes with over 200 pre-sets for comprehensive audio manipulation.

Supports multiple file formats and full resolution 24-bit/32-bit, 192 kHz files for the ultimate in audio fidelity.



Version 8 new features include application scripting, batch conversion, and VST effects support. Includes CD Architect software for Red Book CD burning.



## Acid<sup>®</sup> Pro 5

ACID<sup>®</sup> Pro software is the ideal loop-based music creation application. This award-winning program lets you create original songs, remix tracks, produce 5.1 surround mixes, develop music beds, score videos, and create music for Web sites and Flash<sup>™</sup> animations. Record MIDI, music, or vocals into your project, or extract audio from CDs. Edit audio and apply effects in real time.

Advanced professional features include Groove Mapping<sup>™</sup> quantisation tools, Media Manager<sup>™</sup> technology, native VST effects support, event reverse, and nestable folder tracks. Intuitive "pick, paint, and play" interface. Includes over 1,000 royalty-free loops and Native Instruments<sup>™</sup> Xpress Keyboards VSTi soft synth bundle.



# **DVStation**

# High quality, flexible, networked production for workgroups

Sony DVStation is the ideal shared storage solution for those who acquire or produce media in DV, DVCAM and now, HDV-based formats. With DVStation, material is always held centrally and streamed on demand to users. This means multiple users can concurrently access and utilise library clips.

DVStation is more than a content store - it has a full and comprehensive asset management system. This provides the tools to ingest and index material, search and browse clips - and perform simple editing.

Full programme finishing can then be completed in any of the supported non-linear editing packages, which includes both Sony Vegas and Sound Forge. Completed projects can be distributed via a choice of delivery options - from broadcast playout, DVD or tape to streaming via the web or handheld devices.

# 



# Recommended Wireless Microphone Systems for DVCAM

The UWP Series of wireless microphones have two specific packages designed for portable/camera use. Each package has been carefully compiled to meet with a range of operational requirements that are able to adapt to all your operational needs. The UWP Series excels in transmission stability. Sophisticated wireless technologies, developed for top-of-the-line Sony wireless microphone systems, have been incorporated, including the UHF PLL-synthesised system, space-diversity reception and a tone squelch function. These capabilities are typically found only on high-end wireless systems.



Photo shows wireless microphone UWP-C1 mounted on a DSR-PD170P camcorder.

# Features

#### Stable Transmission and Reception

The UWP Series Wireless Microphone System uses three core technologies to provide stable transmission and reception:

#### PLL Synthesised System

Key to achieving stable transmission and reception is the use of a stable carrier signal to avoid interference with other frequency channels and to allow the selection of a preferred channel from multiple frequencies. The UWP Series achieves this by using a UHF PLL (Phase Locked Loop) frequency synthesised system, which provides the use of accurate carrier signal frequencies. This system is used in both the transmitters and tuners, so that a stable carrier is generated at the transmitter and accurately tuned in at the tuner. This PLL-controlled system provides highly stable, user-selectable frequencies.

#### Space Diversity Reception System

In general, wireless microphone transmission systems can be subject to reception interruptions (signal dropout), but the UWP Series reduces this to a minimum. By utilising a space diversity reception system, it achieves stable reception by using dual-antenna inputs/reception circuits that receive signals over two different paths and automatically selecting the stronger RF signal for output.

#### **Tone Squelch Circuitry**

When operating a wireless microphone system, it is essential that the tuner does not pick up carrier signals transmitted from other systems. In order to avoid this, the UWP Series handheld microphone and portable transmitter transmit a 32-kHz pilot-tone signal along with the audio signal. The squelch circuit of the UWP Series tuners recognises this tone signal, and will output the audio signal only when this tone signal is received. This function virtually prevents the output of unwanted signals or noise from other signal transmissions in the air, as well as the RF noise and popping noise that occur when the transmitter is powered on or off.

#### **Pre-Programmed Operating Frequencies**

The transmitters and tuners included in the UWP Series incorporate pre-programmed frequencies that meet the wireless-communication regulations of each country. The UWP Series operates within the following frequency ranges: 798 MHz to 822 MHz or 838 MHz to 862 MHz (189 selectable frequencies).

#### Simultaneous Multi-Channel Operation

The UWP Series allows simultaneous operation of up to 16 wireless microphones. Optimum combinations of practically tested, interference-free frequencies are stored in the UWP tuners. By using the pre-programmed frequency groups, users can easily choose interference-free frequencies for the transmitters and tuners, simplifying the task of system setup.

# UWP-C1 Turnkey Package

- Consists of an omni-directional lavalier microphone, bodypack transmitter and portable diversity receiver
- Suitable for a wide range of applications, from news gathering and interviews to talk shows and conferences
- The lavalier microphone is supplied with a microphone windscreen and microphone-holder clip
- The bodypack transmitter is supplied with a belt clip
- The portable diversity receiver is supplied with a microphone stand adaptor, screw adaptor, shoemount adaptor for mounting on a camcorder and microphone cable (3-pole mini-plug/XLR-type)
- Space diversity reception system for stable RF reception
- RF squelch function virtually eliminates ambient noise and unwanted signals from other wireless microphone systems
- Compact and lightweight design
- LCD screens provide extensive information, including the operating channel number and its frequency in MHz, audio status, RF level, battery status and accumulated operating time



# UWP-C2 Turnkey Package

- Consists of a handheld microphone and portable diversity receiver
- Ideal for a variety of situations, from news gathering to interview scenarios
- The handheld microphone is supplied with a microphone holder and screw adaptor
- The portable diversity receiver is supplied with a microphone stand adaptor, screw adaptor, shoemount adaptor for mounting on a camcorder, belt clip and microphone cable (3-pole mini-plug/XLR type)
- Space diversity reception system for stable RF reception
- RF squelch function virtually eliminates ambient noise and unwanted signals from other wireless microphone systems
- Compact and lightweight design
- Uni-directional, dynamic microphone capsule
- LCD screens provide extensive information, including the operating channel number and its frequency in MHz, audio status, RF level, battery status and accumulated operating time



Developed by Sony to meet the real needs of camera operators, editors, producers, facilities houses and rental houses, Professional Disc offers all the qualities you'd expect from a rugged, reliable platform for acquisition, production and distribution.

Whether you need the outstanding picture quality of MPEG IMX or the economy and convenience of working in DVCAM, Sony XDCAM products offer the ability to record\* and play back both HD, MPEG IMX\*\* and DVCAM 8-bit digital component recording with a 5:1 compression ratio and a sampling rate of 4:2:0 streams.

\* The PDW-V1 Mobile Deck only allows recording using network and i.LINK File Access Mode. \*\* The PDW-510P Camcorder is capable of DVCAM recording only.

PDW-530P/510P MPEG IMX / DVCAM\* Switchable Camcorder

> • MPEG IMX 50, 40 & 30 Mb/s & **DVCAM** recording (\*PDW-510P: **DVCAM** recording only)



- Progressive mode (25P)
- 16:9/4:3 switchable
- Thumbnail operation on LCD display
- i.LINK In and Out & Ethernet Option (100Base-T)
- 7-year warranty supplied as standard



XDC/M

plied as standard \* FAM: File Access Mode

operations 7-year warranty sup-

PDW-1500

Compact Deck

recording

recordina

Proxy & Metadata

Slow Motion -2/+2

Versatile interface

Gigabit Ethernet

• i.LINK AV/C and FAM\* In and Out

Thumbnail and EDL

High-speed transfer



PDW-V1 Mobile Deck

- MPEG IMX & DVCAM playback
- Slow Motion -1/+2
- Thumbnail and EDL operations
- 3.5-inch LCD display
- Ethernet (100Base-T), VGA out
- i.LINK FAM\* In and Out (Files)
- Battery & AC operation
- 7-year warranty supplied as standard
- \* FAM: File Access Mode



# PDW-D1 Mobile NLE Deck

- MPEG IMX & DVCAM recording
- Proxy & Metadata recording
- i.LINK In and Out (DV Stream)
- Realtime MPEG IMX to DV conversion through i.Link
- i.LINK FAM\* In and Out (Files)
- 12V DC & AC operation
- 7-year warranty supplied as standard
- \* FAM: File Access Mode



XDC///



# HDV CAMCORDERS & VTR

The rapid transition to HD programming in broadcasting and post production has created tremendous demand for an entry-level path into the HD world. Sony have responded to this demand with the introduction of a range exciting new Digital HD products.

# HVR-Z1E HDV Handheld Camcorder

- HDV, DVCAM & DV (SP)\*1 formats recording & playback
- Three 1/3-inch type HD CCDs (16:9)
- 14-bit HD DXP (Digital Extended Processor)
- Wide-angle Carl Zeiss<sup>™</sup> lens
- 3.5-inch LCD panel (16:9)
- Large B/W & Colour switchable Viewfinder (16:9)
- On-board down conversion to DV
- 50Hz/60Hz (PAL/NTSC) switchable\*2
- Cineframe mode (24/25/30 frames)
- 2-mode Cinematone Gamma
- 2ch XLR Audio Inputs
- Independent 2ch Audio Rec Level Control
- Time code preset
- 6 assignable buttons

They adopt the all-new, 1/4-inch HD format - the HDV 1080i specification of the HDV format - while maintaining the DVCAM/DV recording and playback capabilities provided on current Sony DVCAM models.



Model shown features ECM-678 Microphone which is not included as standard.

- i.LINK (HDV/DV) interface
- Analogue Component Output
- Silver Support supplied as standard

\*1 When recording in DV (SP) format, the transition between cut to cut may not be smooth. In addition, when the recording format is switched between HDV, DVCAM and DV, the transition may not be recorded smoothly.

 $^{\ast}2$  The HVR-Z1E is not equipped to convert signals from NTSC to PAL, or vice versa.

HDV

#### HVR-A1E HDV Palm Camcorder

- HDV, DVCAM & DV (SP)\*1 formats recording & playback
- Bigger single chip ½-inch 3-mega pixel CMOS sensor
- Enhanced Imaging Processor (EIP)
- Carl Zeiss<sup>™</sup> lens
- 2.7-inch Hybrid LCD Panel (16:9) with touch panel function
- B&W / Colour switchable viewfinder (16:9)
- On-board down conversion to DV
- Still image recording onto Memory Stick
- Cineframe mode (25 frames)
- 2-mode Cinematone Gamma
- 2ch XLR Audio Inputs
- Microphone included as standard
- Time code preset

## HVR-M10E HDV Recorder

- HDV, DVCAM & DV (SP)\*1 formats recording & playback
- On-board down conversion to DV
- 50Hz/60Hz (PAL/NTSC) switchable\*2
- 3.5-inch LCD panel (16:9)
- Independent 2ch Audio Rec Level Control
- Time code preset
- i.LINK (HDV/DV) interface
- Analogue Component Output
- LANC control
- Compact & layout free design



- Assignable button
- i.LINK (HDV/DV) interface
- Analogue Component Output
- Silver Support supplied as standard
- \*1 When recording in DV (SP) format, the transition between cut to cut may not be smooth. In addition, when the recording format is switched between HDV, DVCAM and DV, the transition may not be recorded smoothly.

HDV



- Battery & DC power operation
- Silver Support supplied as standard

\*1 When recording in DV (SP) format, the transition between cut to cut may not be smooth. In addition, when the recording format is switched between HDV, DVCAM and DV, the transition may not be recorded smoothly.

 $^{\ast}2$  The HVR-M10E is not equipped to convert signals from NTSC to PAL, or vice versa.





# DIGITAL CAMCORDER FEATURES COMPARISON

	DSR-450WSP	DSR-400P	DSR-250P	DSR-PD170P	
General					
CCD size	3CCD 2/3-inch	3CCD 2/3-inch	3CCD 1/3-inch	3CCD 1/3-inch	
16:9 or 4:3 commutation	4:3 Commutation	4:3, Power HAD EX	4:3 16:9 Commutation	4:3 16:9 Commutation	
Standard lens	Recommended Canon: Canon : YJ19x9BKRS Fujinon : A20x8.6BRM-SD	VCL-917BY (supplied in K package)	12x (6.0 to 72 mm)	12x (6.0 to 72 mm)	
Interchangeable lens	•	•			
Viewfinder type	BW CRT	BW CRT	BW CRT	High resolution BW LCD	
Tape size	Standard & Mini	Standard & Mini	Standard & Mini	Mini only	
Recording & playback format	DVCAM / DV	DVCAM / DV	DVCAM / DV	DVCAM / DV	
Manual iris	Yes (Ring)	Yes (Ring)	Yes (Ring)	Yes (Dial)	
Manual Zoom Focus ring	Electric or Manual				
Assignable buttons	•	•			
Adjustable shoulder pad	•	•			
On-handle zool lever & Rec button			•	•	
Memory Stick	For scene file store	For scene file store	For still image capture	For still image capture	
Mass	6.5 kg	6.5 kg	4.4 kg	1.5 kg	
Camera Specification	E11 at 2000 lx (Typical)	E11 at 2000 lx (Typical)			
S/N Ratio	63 dB Typical	63 dB Typical			
Smear Level	-140 dB	-140 dB			
Minimum illumination	0.5 lux	0.5 lux	2 lux	1 lux	
กรงเนเปท	850 lines (in 4:3 mode)	920 lines	550 lines	550 lines	
Advanced Camera Features					
25P (progressive)	•				
Silow Shutter Selectable Gamma	•				
TruEye Processor	•	•			
Adaptive Highlight Control	•	•			
Skin Tone Detail	•	•			
ATW (Auto Tracing White Balance)	•	•			
Electronic Soft Focus	•	•			
Multi-matrix Function	•	•			
Colour Temperature Control	•	•			
Interval Recording	•	•	•	•	
Super SteadyShot			•	•	
				•	
Still image recording			•		
Still image recording			•	-	
Still image recording Output connectors Composite Video	Yes (BNC)		Yes (RCA+BNC)	Yes (Jack)	
Still image recording Output connectors Composite Video Monitor	Yes (BNC) Yes (BNC)	Yes (BNC)	Yes (RCA+BNC)	Yes (Jack)	
Still image recording Output connectors Composite Video Monitor S-Video LUNC (EEEE1204)	Yes (BNC) Yes (BNC)	Yes (BNC)	Yes (RCA+BNC)	Yes (Jack)	
Still image recording Output connectors Composite Video Monitor S-Video i.LINK (IEEE1394) SDI	Yes (BNC) Yes (BNC) Yes (6-pin) Yes (option CBK-SD01)	Yes (BNC) Yes (6-pin)	Yes (RCA+BNC) Yes (6-pin)	Yes (Jack) Yes (4-pin)	
Still image recording Output connectors Composite Video Monitor S-Video i.LINK (IEEE1394) SDI Audio (2x RCA)	Yes (BNC) Yes (BNC) Yes (6-pin) Yes (option CBK-SD01)	Yes (BNC) Yes (6-pin)	Yes (RCA+BNC) • Yes (6-pin)	Yes (Jack) • Yes (4-pin)	
Still image recording Output connectors Composite Video Monitor S-Video LUNK (IEEE1394) SDI Audio (2x RCA) DC (4-pin) T	Yes (BNC) Yes (BNC) Yes (6-pin) Yes (option CBK-SD01) •	Yes (BNC) Yes (6-pin)	Yes (RCA+BNC) Yes (6-pin)	Yes (Jack) • Yes (4-pin)	
Still image recording Output connectors Composite Video Monitor S-Video i.LINK (IEEE1394) SDI Audio (2x RCA) DC (4-pin) Time Code	Yes (BNC) Yes (BNC) Yes (6-pin) Yes (option CBK-SD01) • •	Yes (BNC) Yes (6-pin) • •	Yes (RCA+BNC) • Yes (6-pin) •	Yes (Jack) • Yes (4-pin) •	
Still image recording Output connectors Composite Video Monitor S-Video i.LINK (IEEE1394) SDI Audio (2x RCA) DC (4-pin) Time Code Input connectors	Yes (BNC) Yes (BNC) Yes (6-pin) Yes (option CBK-SD01) • •	Yes (BNC) Yes (6-pin) • •	Yes (RCA+BNC) Yes (6-pin)	Yes (Jack) • Yes (4-pin) •	
Still image recording Output connectors Composite Video Monitor S-Video i.LINK (IEEE1394) SDI Audio (2x RCA) DC (4-pin) Time Code Input connectors Composite	Yes (BNC) Yes (BNC) Yes (6-pin) Yes (option CBK-SD01) • • • Yes (option CBK-SC01)	Yes (BNC) Yes (6-pin) • •	Yes (RCA+BNC) Yes (6-pin)	Yes (Jack) • Yes (4-pin) • Yes (RCA)	
Still image recording Output connectors Composite Video Monitor S-Video i.LINK (IEEE1394) SDI Audio (2x RCA) DC (4-pin) Time Code Input connectors Composite S-Video Composite S-Video Composite S-Video Composite Compo	Yes (BNC) Yes (BNC) Yes (6-pin) Yes (option CBK-SD01) • • • Yes (option CBK-SC01)	Yes (BNC) Yes (6-pin) • •	Yes (RCA+BNC) Yes (6-pin)	Yes (Jack) Yes (4-pin)	
Still image recording           Output connectors           Composite Video           Monitor           S-Video           i.LINK (IEEE1394)           SDI           Audio (2x RCA)           DC (4-pin)           Time Code           Input connectors           Composite           S-Video           Gen Lock           LANC	Yes (BNC) Yes (BNC) Yes (6-pin) Yes (option CBK-SD01) • • Yes (option CBK-SC01)	Yes (BNC) Yes (6-pin) • • •	Yes (RCA+BNC) Yes (6-pin)	Yes (Jack) Yes (4-pin) Yes (RCA)	
Still image recording           Output connectors           Composite Video           Monitor           S-Video           i.LINK (IEEE1394)           SDI           Audio (2x RCA)           DC (4-pin)           Time Code           Input connectors           Composite           S-Video           Gen Lock           LANC           Lens connector	Yes (BNC) Yes (BNC) Yes (6-pin) Yes (option CBK-SD01) • • Yes (option CBK-SC01) •	Yes (BNC) Yes (6-pin) • • • •	Yes (RCA+BNC) Yes (6-pin) • • Yes (RCA) •	Yes (Jack) • Yes (4-pin) • Yes (RCA) •	
Still image recording           Output connectors           Composite Video           Monitor           S-Video           i.LINK (IEEE1394)           SDI           Audio (2x RCA)           DC (4-pin)           Time Code           Input connectors           Composite           S-Video           Gen Lock           LANC           Lens connector           Audio XLR           Time Code	Yes (BNC) Yes (BNC) Yes (6-pin) Yes (option CBK-SD01) • • Yes (option CBK-SC01) • Yes (option CBK-SC01) • Yes (1x front + 2x rear)	Yes (BNC) Yes (6-pin) • • • • • • Yes (1x front + 2x rear)	Yes (RCA+BNC) Yes (6-pin) • Yes (RCA) • Yes (RCA) • Yes (1x front + 2x rear)	Yes (Jack) • Yes (4-pin) • Yes (RCA) • • Yes (2x)	
Still image recording           Output connectors           Composite Video           Monitor           S-Video           i.LINK (IEEE1394)           SDI           Audio (2x RCA)           DC (4-pin)           Time Code           Input connectors           Composite           S-Video           Gen Lock           LANC           Lens connector           Audio XLR           Time Code	Yes (BNC) Yes (BNC) Yes (6-pin) Yes (option CBK-SD01) • • Yes (option CBK-SC01) • Yes (option CBK-SC01) • Yes (1x front + 2x rear) •	Yes (BNC) Yes (6-pin) • • • • Yes (1x front + 2x rear)	Yes (RCA+BNC) Yes (6-pin) • • Yes (RCA) • Yes (1x front + 2x rear)	Yes (Jack) • Yes (4-pin) • Yes (RCA) • Yes (2x)	
Still image recording           Output connectors           Composite Video           Monitor           S-Video           LINK (IEEE1394)           SDI           Audio (2x RCA)           DC (4-pin)           Time Code           Input connectors           Composite           S-Video           Gen Lock           LANC           Lens connector           Audio XLR           Time Code           DC 12V (XLR 4-pin)           LLINK (IEEE1394)	Yes (BNC) Yes (BNC) Yes (6-pin) Yes (option CBK-SD01) • • Yes (option CBK-SC01) • Yes (option CBK-SC01) • • Yes (1x front + 2x rear) •	Yes (BNC) Yes (6-pin) • • • • • Yes (1x front + 2x rear) •	Yes (RCA+BNC) Yes (6-pin) • Yes (RCA) • Yes (1x front + 2x rear) Yes (6-pin)	Yes (Jack) • Yes (4-pin) • Yes (RCA) • Yes (2x) Yes (4-pin)	
Still image recording           Output connectors           Composite Video           Monitor           S-Video           i.LINK (IEEE1394)           SDI           Audio (2x RCA)           DC (4-pin)           Time Code           Input connectors           Composite           S-Video           Gen Lock           LANC           Lens connector           Audio XLR           Time Code           DC 12V (XLR 4-pin)           i.LINK (IEEE1394)	Yes (BNC) Yes (BNC) Yes (6-pin) Yes (option CBK-SD01) • • Yes (option CBK-SC01) • Yes (option CBK-SC01) • • Yes (1x front + 2x rear) •	Yes (BNC) Yes (6-pin) • • • • • • Yes (1x front + 2x rear) • •	Yes (RCA+BNC) • Yes (6-pin) • • Yes (RCA) • Yes (RCA) • Yes (1x front + 2x rear) • Yes (6-pin)	Yes (Jack) • Yes (4-pin) • Yes (RCA) • Yes (2x) Yes (4-pin)	
Still image recording           Output connectors           Composite Video           Monitor           S-Video           i.LINK (IEEE1394)           SDI           Audio (2x RCA)           DC (4-pin)           Time Code           Input connectors           Composite           S-Video           Gen Lock           LANC           Lens connector           Audio XLR           Time Code           DC 12V (XLR 4-pin)           i.LINK (IEEE1394)           Acc adoptor	Yes (BNC) Yes (BNC) Yes (6-pin) Yes (option CBK-SD01) • • Yes (option CBK-SC01) • Yes (option CBK-SC01) • • Yes (1x front + 2x rear) •	Yes (BNC) Yes (6-pin) • • • • • Yes (1x front + 2x rear) • •	Yes (RCA+BNC)   Yes (6-pin)   Yes (6-pin)  Yes (RCA)  Yes (RCA)  Yes (1x front + 2x rear)  Yes (6-pin)  AC DN10 / DN2E	Yes (Jack) • Yes (4-pin) • Yes (RCA) • Yes (RCA) • Yes (2x) Yes (4-pin)	
Still image recording           Output connectors           Composite Video           Monitor           S-Video           i.LINK (IEEE1394)           SDI           Audio (2x RCA)           DC (4-pin)           Time Code           Input connectors           Composite           S-Video           Gen Lock           LANC           Lens connector           Audio XLR           Time Code           DC 12V (XLR 4-pin)           i.LINK (IEEE1394)           Accessories           AC adaptor           Battery	Yes (BNC) Yes (BNC) Yes (6-pin) Yes (option CBK-SD01) • • Yes (option CBK-SC01) • Yes (option CBK-SC01) • • Yes (1x front + 2x rear) • • • •	Yes (BNC) Yes (6-pin) • • • • Yes (1x front + 2x rear) • • • • • • • •	Yes (RCA+BNC)   Yes (6-pin)    Yes (6-pin)   Yes (RCA)   Yes (RCA)   Yes (1x front + 2x rear)  Yes (6-pin)  AC-DN10 / DN2B BP-L60S	Yes (Jack)    Yes (4-pin)    Yes (RCA)   Yes (RCA)  Yes (2x)  Yes (4-pin)  AC-L15 (supplied) NP-F970/770/570	
Still image recording Output connectors Composite Video Monitor S-Video i.LINK (IEEE1394) SDI Audio (2x RCA) DC (4-pin) Time Code Input connectors Composite S-Video Gen Lock LANC Lens connector Audio XLR Time Code DC 12V (XLR 4-pin) i.LINK (IEEE1394) Accessories AC adaptor Battery i-LINK cable	Yes (BNC) Yes (BNC) Yes (6-pin) Yes (option CBK-SD01) • • Yes (option CBK-SC01) • Yes (option CBK-SC01) • • Yes (1x front + 2x rear) • • • • •	Yes (BNC) Yes (6-pin) • • • • Yes (1x front + 2x rear) • • • • AC-DN10 / DN2B BP-GL95/GL65/L60S CCF-3L (6P-6P)	Yes (RCA+BNC)	Yes (Jack)   Yes (4-pin)   Yes (RCA)  Yes (RCA)  Yes (2x)  Yes (4-pin)  AC-L15 (supplied) NP-F970/770/570 VMC-IL4415/4435 (4P-4P)	
Still image recording           Output connectors           Composite Video           Monitor           S-Video           i.LINK (IEEE1394)           SDI           Audio (2x RCA)           DC (4-pin)           Time Code           Input connectors           Composite           S-Video           Gen Lock           LANC           Lens connector           Audio XLR           Time Code           DC 12V (XLR 4-pin)           i.LINK (IEEE1394)           Accessories           AC adaptor           Battery           I-LINK cable	Yes (BNC) Yes (BNC) Yes (6-pin) Yes (option CBK-SD01) • • Yes (option CBK-SC01) • Yes (option CBK-SC01) • • Yes (1x front + 2x rear) • • • • • • •	Yes (BNC) Yes (6-pin) • • • Yes (6-pin) • • • • Yes (1x front + 2x rear) • • • • • • • • • • • • • • • • •	Yes (RCA+BNC) Yes (6-pin) • • Yes (6-pin) • Yes (RCA) • Yes (RCA) • Yes (1x front + 2x rear) • Yes (6-pin) • AC-DN10 / DN2B BP-L60S CCF-3L (6P-6P) CCFD-3L (4P-6P) CCFD-3L (4P-6P)	Yes (Jack)   Yes (Jack)  Yes (4-pin)  Yes (RCA)  Yes (RCA)  Yes (2x)  Yes (2x)  Yes (4-pin)  AC-L15 (supplied) NP-F970/770/570 VMC-IL4415/4435 (4P-4P) VMC-IL4415/4435 (4P-4P) VMC-IL4415/4435 (4P-4P)	
Still image recording Output connectors Composite Video Monitor S-Video i.LINK (IEEE1394) SDI Audio (2x RCA) DC (4-pin) Time Code Input connectors Composite S-Video Gen Lock LANC Lens connector Audio XLR Time Code DC 12V (XLR 4-pin) i.LINK (IEEE1394) Accessories AC adaptor Battery i-LINK cable Battery charger UHF Baceiver & Beltnack Transmitter	Yes (BNC) Yes (BNC) Yes (6-pin) Yes (option CBK-SD01) • • Yes (option CBK-SC01) • Yes (option CBK-SC01) • • Yes (1x front + 2x rear) • • • • • • • • • • • • • • • • •	Yes (BNC) Yes (6-pin) • • • • Yes (1x front + 2x rear) • • • • • • • • • • • • • • • • • • •	Yes (RCA+BNC) Yes (6-pin) • • Yes (6-pin) • Yes (RCA) • Yes (RCA) • Yes (1x front + 2x rear) • Yes (6-pin) • AC-DN10 / DN2B BP-L60S CCF-3L (6P-6P) CCFD-3L (4P-6P) BC-M150/L70 UWP-C1	Yes (Jack)   Yes (4-pin)  Yes (RCA)  Yes (RCA)  Yes (2x)  Yes (2x)  Yes (4-pin)  AC-L15 (supplied) NP-F970/770/570 VMC-IL4415/4435 (4P-4P) VMC-IL4615/4635 (4P-6P) AC-V700A/VQ1050B LIWP-C1	
Still image recording Output connectors Composite Video Monitor S-Video i.LINK (IEEE1394) SDI Audio (2x RCA) DC (4-pin) Time Code Input connectors Composite S-Video Gen Lock LANC Lens connector Audio XLR Time Code DC 12V (XLR 4-pin) i.LINK (IEEE1394) Accessories AC adaptor Battery i-LINK cable Battery charger UHF Receiver & Baltpack Transmitter UHF Receiver & Handheld Transmitter	Yes (BNC) Yes (BNC) Yes (BNC) Yes (option CBK-SD01) • • Yes (option CBK-SC01) • Yes (option CBK-SC01) • • Yes (1x front + 2x rear) • • • • • • • • • • • • • • • • • • •	Yes (BNC) Yes (6-pin) • • • Yes (6-pin) • • • • Yes (1x front + 2x rear) • • • • • • • • • • • • • • • • • • •	Yes (RCA+BNC) Yes (6-pin) • Yes (6-pin) • Yes (RCA) • Yes (1x front + 2x rear) • Yes (6-pin) • AC-DN10 / DN2B BP-L60S CCF-3L (6P-6P) CCFD-3L (4P-6P) BC-M150/L70 UWP-C1 UWP-C2	Yes (Jack) • Yes (4-pin) • Yes (RCA) • Yes (RCA) • Yes (2x) Yes (2x) Yes (2x) Yes (4-pin) AC-L15 (supplied) NP-F970/770/570 VMC-IL4415/4435 (4P-4P) VMC-IL4415/4435 (4P-4P) AC-V700A/VQ1050B UWP-C1 UWP-C2	
Still image recording           Output connectors           Composite Video           Monitor           S-Video           LINK (IEEE1394)           SDI           Audio (2x RCA)           DC (4-pin)           Time Code           Input connectors           Composite           S-Video           Gen Lock           LANC           Lens connector           Audio XLR           Time Code           DC 12V (XLR 4-pin)           LINK (IEEE1394)           Accessories           AC adaptor           Battery           H-INK cable           Battery charger           UHF Receiver & Beltpack Transmitter           UHF Receiver & Beltpack Transmitter           UHF Receiver & Handheld Transmitter           UHF Wireless Receiver_	Yes (BNC) Yes (BNC) Yes (BNC) Yes (option CBK-SD01) • • Yes (option CBK-SD01) • • Yes (option CBK-SC01) • • Yes (option CBK-SC01) • • Yes (1x front + 2x rear) • • • • • • • • • • • • • • • • • • •	Yes (BNC) Yes (6-pin) • • • • Yes (1x front + 2x rear) • • • • • • • • • • • • • • • • • • •	Yes (RCA+BNC) • Yes (6-pin) • • Yes (6-pin) • Yes (RCA) • • Yes (1x front + 2x rear) • Yes (6-pin) • CCF-3L (6P-6P) CCFD-3L (4P-6P) BC-M150/L70 UWP-C1 UWP-C2	Yes (Jack) • Yes (4-pin) • Yes (RCA) • Yes (RCA) • Yes (2x) Yes (2x) Yes (2x) Yes (4-pin) AC-L15 (supplied) NP-F970/770/570 VMC-IL4415/4435 (4P-4P) VMC-IL4415/4435 (4P-4P) AC-V700A/VQ1050B UWP-C1 UWP-C2	
Still image recording           Output connectors           Composite Video           Monitor           S-Video           LLINK (IEEE1394)           SDI           Audio (2x RCA)           DC (4-pin)           Time Code           Input connectors           Composite           S-Video           Gen Lock           LANC           Lens connector           Audio XLR           Time Code           DC 12V (XLR 4-pin)           LINK (IEEE1394)           Accessories           Acc adaptor           Battery           I-IJINK cable           Battery charger           UHF Receiver & Beltpack Transmitter           UHF Receiver & Beltpack Transmitter           UHF Wireless Receiver           UHF Wireless BeltpackTransmitter           UHF Wireless BeltpackTransmitter	Yes (BNC) Yes (BNC) Yes (6-pin) Yes (option CBK-SD01) • • Yes (option CBK-SC01) • Yes (option CBK-SC01) • Yes (option CBK-SC01) • Yes (1x front + 2x rear) • • AC-DN10 / DN2B BP-GL95/GL65/L60S CCF-3L (4P-6P) BC-M150/L70 BC-M150/L70 WRR-855B (+CA-WR855) WRT-822B WRT-822B	Yes (BNC) Yes (6-pin) • • • • • Yes (1x front + 2x rear) • • • • • • • • • • • • •	Yes (RCA+BNC)   Yes (6-pin)   Yes (6-pin)   Yes (RCA)   Yes (RCA)   Yes (1x front + 2x rear)  Yes (6-pin)  AC-DN10 / DN2B BP-L60S CCF-3L (4P-6P) BC-M150/L70 UWP-C1 UWP-C1 UWP-C2	Yes (Jack) Yes (Jack) Yes (4-pin) Yes (A-pin) Yes (RCA) Yes (2x) Yes (2x) Yes (2x) Yes (4-pin) AC-L15 (supplied) NP-F970/770/570 VMC-IL4415/4435 (4P-4P) VMC-IL4415/4435 (4P-4P) VMC-IL4415/4435 (4P-6P) AC-V700A/VQ1050B UWP-C1 UWP-C2	
Still image recording Output connectors Composite Video Monitor S-Video i.LINK (IEEE1394) SDI Audio (2x RCA) DC (4-pin) Time Code Input connectors Composite S-Video Gen Lock LANC Lens connector Audio XLR Time Code DC 12V (XLR 4-pin) i.LINK (IEEE1394) Accessories AC adaptor Battery i-LINK cable Battery charger UHF Reciever & Beltpack Transmitter UHF Wireless BeltpackTransmitter UHF Wireless Handheld Transmitter	Yes (BNC) Yes (BNC) Yes (6-pin) Yes (option CBK-SD01) • • Yes (option CBK-SC01) • Yes (option CBK-SC01) • Yes (option CBK-SC01) • Yes (1x front + 2x rear) • • AC-DN10 / DN2B BP-GL95/GL65/L60S CCF-3L (6P-6P) CCFD-3L (4P-6P) BC-M150/L70 WRR-855B (+CA-WR855) WRT-822B WRT-807B ECM-678	Yes (BNC) Yes (6-pin) • • • • • • Yes (1x front + 2x rear) • • • • • • • • • • • • • • • • • • •	Yes (RCA+BNC)   Yes (6-pin)   Yes (6-pin)  Yes (RCA)  Yes (RCA)  Yes (1x front + 2x rear)  Yes (6-pin)  AC-DN10 / DN2B BP-L60S CCF-3L (4P-6P) BC-M150/L70 UWP-C1 UWP-C1 UWP-C2  ECM-670	Yes (Jack)    Yes (4-pin)    Yes (RCA)   Yes (RCA)   Yes (2x)  Yes (2x)  Yes (2x)  Yes (4-pin)  AC-L15 (supplied) NP-F970/770/570 VMC-IL4415/4435 (4P-6P) AC-V700A/VQ1050B UWP-C1 UWP-C2  ECM-670	
Still image recording Output connectors Composite Video Monitor S-Video i.LINK (IEEE1394) SDI Audio (2x RCA) DC (4-pin) Time Code Input connectors Composite S-Video Gen Lock LANC LANC LANC LANC LANC LANC LANC LANC	Yes (BNC) Yes (BNC) Yes (6-pin) Yes (option CBK-SD01) • • Yes (option CBK-SC01) • Yes (option CBK-SC01) • Yes (option CBK-SC01) • Yes (1x front + 2x rear) • • AC-DN10 / DN2B BP-GL95/GL65/L60S CCF-3L (6P-6P) CCFD-3L (4P-6P) BC-M150/L70 BC-M150/L70 WRR-855B (+CA-WR855) WRT-822B WRT-807B ECM-678	Yes (BNC) Yes (6-pin) • • • • • Yes (1x front + 2x rear) • • • • • • • • • • • • • • • • • • •	Yes (RCA+BNC)   Yes (6-pin)   Yes (6-pin)  Yes (RCA)  Yes (RCA)  Yes (1x front + 2x rear)  Yes (6-pin)  AC-DN10 / DN2B BP-L60S CCF-3L (4P-6P) BC-M150/L70 UWP-C1 UWP-C1 UWP-C2  ECM-670	Yes (Jack) • Yes (4-pin) • Yes (4-pin) • Yes (RCA) • Yes (2x) Yes (2x) Yes (2x) Yes (2x) Yes (2x) VMC-LL415 (supplied) NP-F970/770/570 VMC-LL415/4435 (4P-6P) AC-V700A/VC1050B UWP-C1 UWP-C2 ECM-670	
Still image recording         Output connectors         Composite Video         Monitor         S-Video         i.LINK (IEEE1394)         SDI         Audio (2x RCA)         DC (4-pin)         Time Code         Input connectors         Composite         S-Video         Gen Lock         LANC         Lens connector         Audio XLR         Time Code         DC 12V (XLR 4-pin)         i.LINK (IEEE1394)    Accessories AC adaptor Battery i-LINK cable Battery UHF Receiver & Beltpack Transmitter UHF Reciever & Handheld Transmitter UHF Wireless BetpackTransmitter UHF Wireless BeltpackTransmitter	Yes (BNC) Yes (BNC) Yes (6-pin) Yes (option CBK-SD01) • • Yes (option CBK-SC01) • Yes (option CBK-SC01) • Yes (1x front + 2x rear) • * * * * * * * * * * * * * * * * * *	Yes (BNC) Yes (6-pin) • • • • • Yes (1x front + 2x rear) • • • • • • • • • • • • •	Yes (RCA+BNC)           •           <	Yes (Jack)  Yes (4-pin)  Yes (4-pin)  Yes (RCA)  Yes (RCA)  Yes (2x)  Yes (2x)  Yes (2x)  Yes (2x)  Yes (4-pin)  AC-L15 (supplied) NP-F970/770/570 VMC-IL415/4455 (4P-4P) VMC-IL415/4455 (4P-4P) VMC-IL415/4455 (4P-4P) VMC-IL415/4455 (4P-6P) AC-V700A/VQ1050B UWP-C1 UWP-C2  ECM-670 Sony VCL-HG0758 (supplied) Canon WR-58 Century Optics	
Still image recording          Output connectors         Composite Video         Monitor         S-Video         i.LINK (IEEE1394)         SDI         Audio (2x RCA)         DC (4-pin)         Time Code         Input connectors         Composite         S-Video         Gen Lock         LANC         Lens connector         Audio XLR         Time Code         DC 12V (XLR 4-pin)         i.LINK (IEEE1394)         Accessories         AC adaptor         Battery         I-LINK cable         Battery charger         UHF Receiver & Beltpack Transmitter         UHF Receiver & Beltpack Transmitter         UHF Receiver & Beltpack Transmitter         UHF Wireless BetpackTransmitter         Battery         Accessories         Accessories         Accessories	Yes (BNC) Yes (BNC) Yes (6-pin) Yes (option CBK-SD01) • • Yes (option CBK-SC01) • Yes (option CBK-SC01) • • Yes (option CBK-SC01) • • Yes (1x front + 2x rear) • • • • • • • • • • • • • • • • • • •	Yes (BNC) Yes (6-pin) • • • • Yes (6-pin) • • • • • Yes (1x front + 2x rear) • • • • • • • • • • • • • • • • • • •	Yes (RCA+BNC)  Yes (6-pin)  Yes (6-pin)  Yes (6-pin)  Yes (RCA)  Yes (RCA)  Yes (RCA)  Yes (1x front + 2x rear)  Yes (6-pin)  AC-DN10 / DN2B BP-L60S CCF-3L (6P-6P) CCFD-3L (4P-6P) BC-M150/L70 UWP-C1 UWP-C1 UWP-C2 ECM-670 option: Sony VCL-HG0758 (without lens hood) Canon WR-58 Century Optics LCR-1	Yes (Jack) • Yes (4-pin) • Yes (RCA) • Yes (RCA) • Yes (2x) Yes (2x) Yes (2x) Yes (2x) Yes (2x) Yes (4-pin) AC-L15 (supplied) NP-F970/770/570 VMC-IL4415/4435 (4P-4P) VMC-IL4415/4435 (4P-4P) VMC-IL4415/4435 (4P-4P) AC-V700A/VQ1050B UWP-C1 UWP-C1 UWP-C2 ECM-670 Sony VCL-HG0758 (supplied) Canon WR-58 Century Optics LCR-VX2000A	
Still image recording         Output connectors         Composite Video         Monitor         S-Video         LLINK (IEEE1394)         SDI         Audio (2x RCA)         DC (4-pin)         Time Code         Input connectors         Composite         S-Video         Gen Lock         LANC         Lens connector         Audio XLR         Time Code         DC 12V (XLR 4-pin)         LINK (IEEE1394)         Accessories         AC adaptor         Battery         HERceiver & Beltpack Transmitter         UHF Reciever & Beltpack Transmitter         UHF Reciever & Beltpack Transmitter         UHF Reciever & Beltpack Transmitter         UHF Wireless Receiver         UHF Wireless Handheld Transmitter         UHF Wireless Handheld Transmitter         UHF Wireless Handheld Transmitter         UHF Wireless Beltpack Transmitter         UHF Wireless Handheld Transmitter         Wide angle         Rain cover         Camcorder light	Yes (BNC) Yes (BNC) Yes (BNC) Yes (option CBK-SD01) • • Yes (option CBK-SD01) • Yes (option CBK-SC01) • Yes (option CBK-SC01) • • Yes (1x front + 2x rear) • • • • • • • • • • • • • • • • • • •	Yes (BNC) Yes (6-pin) • • • • • Yes (6-pin) • • • • • • • • • • • • •	Yes (RCA+BNC)           •           Yes (6-pin)           •	Yes (Jack)           •           Yes (4-pin)           •           •           Yes (RCA)           •           •           Yes (RCA)           •           •           Yes (2x)           Yes (2x)           Yes (2x)           Yes (4-pin)           •           Yes (4-pin)           •           Yes (4-pin)           •           Yes (4-pin)           •           •           Yes (4-pin)           •	
Still image recording         Output connectors         Composite Video         Monitor         S-Video         LLINK (IEEE1394)         SDI         Audio (2x RCA)         DC (4-pin)         Time Code         Input connectors         Composite         S-Video         Gen Lock         LANC         Lens connector         Audio XLR         Time Code         DC 12V (XLR 4-pin)         LINK (IEEE1394)         Accessories         Ac adaptor         Battery         I-IJNK cable         Battery charger         UHF Receiver & Beltpack Transmitter         UHF Receiver & BeltpackTransmitter         UHF Wireless Receiver         UHF Wireless BeltpackTransmitter         Wireless BeltpackTransmitter         Wireless BeltpackTransmitter         Wireless BeltpackTransmitter         Wireless BeltpackTransmitter         Wireless BeltpackTransmitter         Wireless Bel	Yes (BNC) Yes (BNC) Yes (6-pin) Yes (option CBK-SD01) • • Yes (option CBK-SC01) • Yes (option CBK-SC01) • Yes (option CBK-SC01) • • Yes (1x front + 2x rear) • • • • • • • • • • • • • • • • • • •	Yes (BNC) Yes (6-pin) • • • • • Yes (6-pin) • • • • • • • • • • • • •	Yes (RCA+BNC)           •           Yes (6-pin)           •	Yes (Jack)  Yes (Jack)  Yes (4-pin)  Yes (4-pin)  Yes (RCA)  Yes (2x)  Yes (2x)  Yes (2x)  Yes (2x)  Yes (2x)  Ket All (2x)  ECM-670 ECM-670 Sony VCL-HG0758 (supplied) Canon WR-58 Century Optics LCR-VX2000A HVL-20DW2	
Still image recording Output connectors Composite Video Monitor S-Video i.LINK (IEEE1394) SDI Audio (2x RCA) DC (4-pin) Time Code Input connectors Composite S-Video Gen Lock LANC Lens connector Audio XLR Time Code DC 12V (XLR 4-pin) i.LINK (IEEE1394) Accessories AC adaptor Battery i-LINK cable Battery charger UHF Reciever & Beltpack Transmitter UHF Wireless Beltpack Transmitter Wireless Beltpack Transmitter UHF Wireless Receiver Rain cover Camcorder light Tripod adaptor	Yes (BNC) Yes (BNC) Yes (6-pin) Yes (option CBK-SD01) • • Yes (option CBK-SC01) • Yes (option CBK-SC01) • Yes (option CBK-SC01) • • Yes (1x front + 2x rear) • • • • • • • • • • • • • • • • • • •	Yes (BNC) Yes (6-pin) • • • • • • • • • • • • •	Yes (RCA+BNC)           •           Yes (6-pin)           •	Yes (Jack)           •           Yes (4-pin)           •           •           Yes (RCA)           •           •           Yes (2x)           Yes (2x)           Yes (2x)           Yes (4-pin)           •           •           Yes (4-pin)           •           Yes (4-pin)           AC-L15 (supplied)           NP-F970/770/570           VMC-IL4415/4435 (4P-4P)           VMC-IL4415/4635 (4P-6P)           AC-V700A/VQ1050B           UWP-C1           UWP-C2           ECM-670           Sony VCL-HG0758           (supplied)           Canon WR-58           Century Optics           LCR-VX2000A           HVL-20DW2           (photo type)	
Still image recording Output connectors Composite Video Monitor S-Video i.LINK (IEEE1394) SDI Audio (2x RCA) DC (4-pin) Time Code Input connectors Composite S-Video Gen Lock LANC Lens connector Audio XLR Time Code DC 12V (XLR 4-pin) i.LINK (IEEE1394) Accessories AC adaptor Battery i-LINK cable Battery charger UHF Reciever & Beltpack Transmitter UHF Wireless BeltpackTransmitter UHF Wireless BeltpackTransmiter UHF Wireless Belt	Yes (BNC) Yes (BNC) Yes (6-pin) Yes (option CBK-SD01) • • • Yes (option CBK-SC01) • Yes (option CBK-SC01) • Yes (option CBK-SC01) • * * * * * * * * * * * * * * * * * *	Yes (BNC) Yes (6-pin) • • • • • • • • • • • • •	Yes (RCA+BNC)           •           <	Yes (Jack)           •           Yes (4-pin)           •	
Still image recording Output connectors Composite Video Monitor S-Video i.LINK (IEEE1394) SDI Audio (2x RCA) DC (4-pin) Time Code Input connectors Composite S-Video Gen Lock LANC Lens connector Audio XLR Time Code DC 12V (XLR 4-pin) i.LINK (IEEE1394) Accessories AC adaptor Battery i-LINK cable Battery charger UHF Receiver & Beltpack Transmitter UHF Wireless BeltpackTransmitter UHF Wireless Handheld Transmitter High Quality Shotgun Microphone Wide angle Rain cover Camcorder light Tripod adaptor Hard carrying case Soft carrying case Soft carrying case	Yes (BNC) Yes (BNC) Yes (6-pin) Yes (option CBK-SD01) • • • Yes (option CBK-SC01) • Yes (option CBK-SC01) • Yes (1x front + 2x rear) • • • • • • • • • • • • • • • • • • •	Yes (BNC) Yes (6-pin) • • • • • • • • • • • • •	Yes (RCA+BNC)           •           <	Yes (Jack)  Yes (Jack)  Yes (4-pin)  Yes (4-pin)  Yes (RCA)  Yes (2x)  Yes (2x)  Yes (2x)  Yes (2x)  Yes (4-pin)  AC-L15 (supplied) NP-F970/770/570 VMC-IL415/4035 (4P-4P) VMC-IL4615/4035 (4P-4P) VMC-IL4615/4035 (4P-4P) VMC-IL4615/4035 (4P-6P) AC-V700A/V01050B UWP-C1 UWP-C2  ECM-670 Sony VCL-HG0758 (supplied) Canon WR-58 Century Optics LCR-VX2000A HVL-20DW2  (photo type) LCH-VX2000A LCS-VCB	
Still image recording Output connectors Composite Video Monitor S-Video i.LINK (IEEE1394) SDI Audio (2x RCA) DC (4-pin) Time Code Input connectors Composite S-Video Gen Lock LANC Lens connector Audio XLR Time Code DC 12V (XLR 4-pin) i.LINK (IEEE1394) Accessories AC adaptor Battery i-LINK cable Battery charger UHF Receiver & Beltpack Transmitter UHF Receiver & Beltpack Transmitter UHF Wireless Receiver UHF Wireless Beltpack Transmitter UHF Wireless Handheld Transmiter UHF Wireless Handheld Transmiter UHF Wireless Handheld Transmiter UHF Wireless	Yes (BNC) Yes (BNC) Yes (BNC) Yes (option CBK-SD01) • • • Yes (option CBK-SD01) • • Yes (option CBK-SC01) • • Yes (option CBK-SC01) • • Yes (1x front + 2x rear) • • • • • • • • • • • • • • • • • • •	Yes (BNC) Yes (6-pin) • • • • • • • • • • • • •	Yes (RCA+BNC)           Yes (6-pin)           •	Yes (Jack)  Yes (4-pin)  Yes (4-pin)  Yes (RCA)  Yes (RCA)  Yes (2x)  Yes (2x)  Yes (2x)  Yes (2x)  Yes (4-pin)  AC-L15 (supplied) NP-F970/770/570 VMC-IL4415/4435 (4P-4P) VMC-IL4415/4435 (4P-4P) VMC-IL4415/4435 (4P-4P) VMC-IL4415/4435 (4P-4P) C2  ECM-670 ECM-670 ECM-670 ECM-670 Canon WR-58 Century Optics LCR-VX2000A HVL-20DW2 (photo type) LCH-VX2000A LCS-VCB	
Still image recording         Output connectors         Composite Video         Monitor         S-Video         i.LINK (IEEE1394)         SDI         Audio (2x RCA)         DC (4-pin)         Time Code         Input connectors         Composite         S-Video         Gen Lock         LANC         Lens connector         Audio XLR         Time Code         DC 12V (XLR 4-pin)         i.LINK (IEEE1394)         Accessories         AC adaptor         Battery         i-LINK cable         Battery charger         UHF Receiver & Beltpack Transmitter         UHF Wireless Receiver         UHF Wireless BeltpackTransmitter	Yes (BNC) Yes (BNC) Yes (option CBK-SD01) • • • Yes (option CBK-SD01) • • Yes (option CBK-SC01) • • Yes (option CBK-SC01) • • Yes (1x front + 2x rear) • • • • • • • • • • • • • • • • • • •	Yes (BNC) Yes (6-pin) • • • • • Yes (1x front + 2x rear) • • • • • • • • • • • • •	Yes (RCA+BNC)           Yes (6-pin)           •	Yes (Jack)  Yes (4-pin)  Yes (RCA)  Yes (RCA)  Yes (RCA)  Yes (2x)  Yes (2x)  Yes (2x)  Yes (2x)  Yes (4-pin)  AC-L15 (supplied) NP-F970/770/570 VMC-IL4415/4435 (4P-4P) VMC-IL4415/4435 (4P-4P) VMC-IL4415/4435 (4P-4P) VMC-IL4415/4435 (4P-4P) C2  ECM-670 ECM-670 ECM-670 Sony VCL-HG0758 (supplied) Canon WR-58 Century Optics LCR-VX2000A HVL-20DW2  (photo type) LCR-VX2000A LCS-VCB	

: Available



# DIGITAL VTR FEATURES COMPARISON

	DSR-2000AP	DSR-1800AP	DSR-1600AP	DSR-1500AP	DSR-50P	DSR-45P	DSR-25	DSR-11
Cassette								
Standard-size Cassette	•	•	•	•	•	•	•	•
Mini-size Cassette	•	•	•	•	•	•	•	•
DVCPRO Medium-size Cassette	•	•	•	•	-	•	_	-
Digital Interface								
SDI	•	(Option)	(Option)	(Option)	-	-	-	-
SDTI (QSDI)	•	-	-	-	-	-	-	-
i.LINK (DV)	•	•	• *1	•	•	•	•	•
AES/EBU	•	• (Option)	• *1 (Option)	• (Option)	-	-	-	-
HD-SDI	• <sup>*1</sup> (Option)	• *1 (Option)	• *1 (Option)	-	-	-	-	-
Analogue Interface	(0   2 )	(opasity	(0   )					
Composite	•	•	• *1	• <sup>*2</sup> (Option)	•	•	•	•
Component	•	•	• *1	• *2	• "	•	-	•
	•	•	• *1	(Option) • <sup>*2</sup>	•	•	•	•
S-video				(Option)				
Remote Control Interface						- *3		
RS-422A	•	•	•	•	-	• •	-	-
RS-232C	-	-	-	-	-	•	-	-
LANC	-	-	-	-	• "4	•	•	•
Control S	-	•	•	•	• ^5	• *5	•	• *5
Foot Switch	-	-	-	-	•	-	-	-
Wireless Remote Control	-	-	-	-	-	•	•	•
Editing Capability								
Pre-read Editing/Playback	•	• *6	-	-	-	-	-	-
Assemble Editing	•	•	•	-	-	-	-	-
Insert Editing	• (Video/Audio/TC)	• (Video/Audio/TC)	-	• (Video/Audio/TC)	-	-	-	-
VITC	•	•	•	•	-	-	-	-
Time Code Input/Output	•	•	•	•	-	•	-	-
ClipLink	•	•	•	•	-	-	-	-
High-speed Data Transfer	-	-	-	-	-	-	-	-
Search Speed	x ±60	x ±60	x ±60	x ±60	x ±17.48	x ±17.48	x ±14.48 (NTSC) x ±17.48 (PAL)	x ±14.48 (NTSC) x ±17.48 (PAL)
Digital Slow	x ±1	x ±0.5	x ±0.5	x ±1/10, 1/3	x ±1/10, 1/3	x ±1/10, 1/5	x ±1/10, 1/3	x ±1/10, 1/3
Others								
DV Playback Capability	• (SP/LP)	• (SP only)	• (SP only)	• (SP only)	• (SP only)	• (SP only)	• (SP only)	• (SP only)
DVCPRO Playback Capability	•	•	•	•	–	- (Or Orlig)		
DV (SP mode) Recording Capability	_	_	-	• *7	• *8	• *8	• *8	• *8
Auto Repeat/ Power-on Playback/Recording	-	• *9	• *9	• *9	-	•	•	• *10
Index Points Search	_	_	_	-	•	•	•	•
Closed Caption	-	-	-	-	-	-	-	_
•								

\* 1 Output only.

\* 8 When recording in DV (SP) format, transitions between cut to cut may not be smooth. In addition, when the recording format is switched between DVCAM and DV, the transition may not be recorded smoothly.

• : Available : Not available

\*9 Auto repeat/Power-on playback only. \*10 Auto repeat only.

<sup>1</sup> Output only.
2 These signals share the same BNC connectors.
3 As a player only.
4 Control Jack (accepts LANC command as player)
5 Input only.
6 Playback only.
7 Assemble or insert editing is not possible in the consumer DV format mode. However, back space editing is possible using the optional DSRM-10 Remote Control Unit. The transition from cut to cut may not be smooth when performed over a DV recording made on a different DV or DVCAM deck. In between scenes where the recording format is changed from DVCAM to consumer DV format, the transition may not be smooth either. This is a normal and expected phenomenon. The audio reference level is fixed to -12 dB at DV(SP) recording.

# **DVCAM OPTIONAL ACCESSORIES & PERIPHERAL EQUIPMENT**









VCT-U14 Tripod Adaptor

WRR-862B

Dual UHF Synthesized Tuner

DSR-450WSP DSR-400P

DSR-450WSP DSR-400P DSR-250P



VCT-PG11RMB Video Tripod DSR-PD170P Available Dec. 2005



USR-450WSP DSR-400P DSR-250P DSR-PD170P

UWP-C1







VCL-HG1758

ble Dec. 2005

Tele Conversion Lens 1.7x

DSR-250P DSR-PD170P

UWP-C2 Wireless Microphone Package DSR-450WSP DSR-400P DSR-250 DSR-PD170P





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DSR-250P DSR-PD170P



DSR-450WSP DSR-400P





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DSBK-1501

DSR-1500AP

DSR-1800AP

CBK-SD01

DSR-450WSP

SDI Output Board

Digital Input/Output Board

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DSBK-1801 SDI/AES/EBU Input/Output Board

RMM-131

Rack Mount Kit

DSBK-1601

DSR-1600AP

CBK-SC01

DSR-450WSP

Analogue Composite Input Board

SDI/AES/EBU Output Board

DSR-2000AP DSR-1800AP DSR-1600AP

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DSBK-1505

DSBK-2020,

DSR-2000AP

RCC-5G

Remote Control Cable (5 m)

DSR-45P DSR-DR1000AP

DSR-2000AP DSR-1800AP DSR-1600AP DSR-1500AP

HD Up-conversion Boards \*Not pictured here

DSBK-1820\*

DSR-1800AP DSR-1600AP

DSR-1500AP

Analogue Input Board

# **DVCAM OPTIONAL ACCESSORIES & PERIPHERAL EQUIPMENT**







DSR-450WSP DSR-400P DSR-250P DSR-PD170P

DSR-450WSP DSR-400P DSR-250P DSR-PD170P

DSR-2000AP DSR-1800AP DSR-1600AP DSR-1500AP

DSR-45P DSR-25 DSR-11 DSR-50P

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# Sony Professional Services

Services from Sony: working with you, working for you.

Recognising that every company and every challenge is unique, we offer a complete and comprehensive range of services all the way through consulting, planning, financing, implementation, training, servicing, maintenance and support. Choose exactly what's right for you, when and where you need it.

Sony Professional Services: Tailor-made design, installation and project management of audio-visual and IT (AV/IT) systems using skills developed over 25 years of systems integration.

Sony Financial Services: Innovative and flexible finance solutions designed to meet budgetary and financial requirements and constraints, enabling businesses to always have the most current technology.

Sony Training Services: A range of off-the-shelf or customised training services from basic operation through to highlevel technical maintenance.

Sony Support Services: Fully integrated and customised support for products and systems throughout their operational life, combining proactive and reactive technical services

Not all services are available in all countries. If you'd like to find out more about what we do, who we do it for and how we do it, visit www.sonybiz.net or contact your local Sony office.

Silver Support



Silver Support for DVCAM and HDV



#### 2-year Support

The Silver Support Pack extends the support period from the standard 1-year warranty to 2 years with the option to extend to a 3-year period. Not only that, extra features and services are also included.



#### **Operational Helpdesk**

Operational phone support is provided to give advice and help so that you can get the most out of your HDV and DVCAM equipment and maximise its performance. The multi-lingual helpdesk is available from Monday to Friday.



#### **Collection Anywhere**

In the event of equipment failure, Sony will arrange for the collection, repair and return of the unit directly to your location, anywhere in mainland EU, Norway or Switzerland. That makes it simpler, quicker and even more convenient for you.



#### Repair within 7 days

Sony will collect, repair and return the unit to your preferred location within 7 working days. So, minimum downtime, increased confidence and the ability to plan your business are guaranteed.



If the repair is likely to exceed 7 working days, Sony will contact you and offer to send a loan unit for the remainder of the repair.



Loan



7-year warranty for XDCAM optical drive.

How do you make a great product even greater? Easy. Give it the best warranty available for even more peace of mind.

To further emphasise the robustness and long life-span of the optical drive components used in XDCAM hardware, Sony is offering a unique 7-year warranty on XDCAM optical drive components, parts and labour for 7 years from the date of purchase. The warranty applies to the optical drive in both Camcorder and Deck XDCAM products, while for other component parts of XDCAM products, the standard Sony warranty of 1 year parts and labour from the date of purchase applies.

Intensive worldwide testing has proven the robustness of XDCAM hardware to be at the very least equivalent to the toughest tape-based products.

There is no charge for the 7-year optical drive warranty and a registration form is included with every XDCAM product.

XDCAM provides you with an unprecedented level of reliability from your equipment.

# DSR-450WSP/DSR-400P Camcorders

		DSR-450WSP	DSR-400P		
General					
Power requirements		DC 12 V (	11 to 17V)		
Power consumption		Approx. 17 W (with DC 12 V power supply, REC mode, viewfinder off, LCD monitor off)			
Operating temperature		0 to +40 °C (+	32 to +104 °F)		
Storage temperature		-20 to +60 °C	(-4 to +140 °F)		
Operating humidity		25 to Approx 6.5 kg (14 lb 5 oz) (with view	85% finder microphone PR CL65 batten/		
IVIdSS		mini-size DVCAM case	sette, VCL-917BY lens)		
Continuous operating	g time	Approx. 300 min. with BP	-GL95 battery, REC mode		
Signal inputs/output	s				
Video inputs	Analogue composite	BNC, 1.0 Vp-p, 75 $\Omega$ (with the CBK-SC01)	-		
	Genlock video	BNC, 1.0 V	/p-p, 75 Ω		
Audio input (CH-1/2)		XLR-3 (2), female, -60 dBu	/+4 dBu, 10 kΩ , balanced		
Microphone input		XLR-3, fem	ale, -60 dBu		
Video outputo	2DI	BNC, 0.9 V/a a. 75 O. (with the CBK 2001)	3 Vp-p, 10 KΩ		
video outputs		i LINK 6-pip IE	- FE 1301-based		
	Analogue composite	BNC. 1.0 Vp-p. 75 Ω	-		
Audio output (CH-1/2	2)	Pin-jacks (2),	10dBu, 47kΩ		
Time code output		BNC, 1.0 \	/p-p, 75 Ω		
Monitor output		BNC, 1.0 \	/p-p, 75 Ω		
Earphone output		Mini	-jack		
Other inputs/outputs	3				
Lens		12-	pin		
VF Demot		20	pin		
Wiroloop microphara		8-pin	-		
Light			V max 50 W		
DC input		Z-PIR, DC 12 XI R-4-nin, mak	> DC 11 to 17 V		
DC output		4-pin (for wireless microphone	receiver), DC 12 V (max. 0.2 A)		
Battery terminal		5-	pin		
Camera performance	9				
Pickup device	Pickup device	3-chip 2/3-inch type	Power HAD EX CCD		
	Aspect ratio	16:9/4:3 switchable	4:3		
	Total picture elements (H x V)	1038	< 1188		
	Effective picture elements (H x V)	980 ×	1064		
Optical system	Spectral system	F1.4 prism (wi	th quarts filter)		
	Built-in filters	1: Clear, 2: 1/4ND, 3	: 1/16ND, 4: 1/64ND		
	Lens mount	2/3-inch type So	ny bayonet mount		
Electrical characteristics	Signal system	PAL colo	ur system		
	Scan format	625/50i, 625/25P	625/501		
	A/D conversion	Internal and External w	th the VBS of BS signal		
	A D CUIVEISIUIT	2			
	Sensitivity	E11 (typical) (2000 l	x 89.9% reflectance)		
	Sensitivity Minimum illumination	F11 (typical) (2000   0.5 k /F1.4 lens. +36 dB gain_shutter.off)	κ, 89.9% reflectance) 0.5 k/(E1.4 lens. +36 dB gain_shutter.off)		
	Sensitivity Minimum illumination	F11 (typical) (2000 l 0.5 lx (F1.4 lens, +36 dB gain, shutter off) 0.03 lx (with slow shutter, 16 frames accumulation)	k, 89.9% reflectance) 0.5 lx (F1.4 lens, +36 dB gain, shutter off)		
	Sensitivity Minimum illumination Smear level	F11 (typical) (2000 l 0.5 lx (F1.4 lens, +36 dB gain, shutter off) 0.03 lx (with slow shutter, 16 frames accumulation) -140 dE	<ul> <li>k, 89.9% reflectance)</li> <li>0.5 lx (F1.4 lens, +36 dB gain, shutter off)</li> <li>(typical)</li> </ul>		
	Sensitivity Minimum illumination Smear level Video S/N ratio	F11 (typical) (2000 l 0.5 lx (F1.4 lens, +36 dB gain, shutter off) 0.03 lx (with slow shutter, 16 frames accumulation) -140 dE 63 dB	<ul> <li>k, 89.9% reflectance)</li> <li>0.5 lx (F1.4 lens, +36 dB gain, shutter off)</li> <li>(typical)</li> <li>typical)</li> </ul>		
	Sensitivity Minimum illumination Smear level Video S/N ratio Horizontal resolution	F11 (typical) (2000 l 0.5 lx (F1.4 lens, +36 dB gain, shutter off) 0.03 lx (with slow shutter, 16 frames accumulation) -140 dE 63 dB 850 TV lines (4:3 mode), 800 TV lines (16:9 mode)	(1998) reflectance) 0.5 lx (F1.4 lens, +36 dB gain, shutter off) (typical) ypical) 920 TV lines		
	Sensitivity Minimum illumination Smear level Video S/N ratio Horizontal resolution Vertical resolution	F11 (typical) (2000 I 0.5 lx (F1.4 lens, +36 dB gain, shutter off) 0.03 lx (with slow shutter, 16 frames accumulation) -140 dB 63 dB 850 TV lines (4:3 mode), 800 TV lines (16:9 mode) 480 TV lines (with EVS) and 530 TV lines (without EVS) at 625/50i mode 575 TV lines et 625/55 mode	(typical) (typical) 920 TV lines 480 TV lines (with EVS), 530 TV lines (without EVS)		
	Sensitivity Minimum illumination Smear level Video S/N ratio Horizontal resolution Vertical resolution Shutter speed	F11 (typical) (2000 I 0.5 lx (F1.4 lens, +36 dB gain, shutter off) 0.03 lx (with slow shutter, 16 frames accumulation) -140 dB 63 dB 850 TV lines (4:3 mode), 800 TV lines (16:9 mode) 480 TV lines (with EVS) and 530 TV lines (without EVS) at 625/50i mode 575 TV lines at 625/25P mode 1/60, 1/125, 1/250, 1/1000, 1/2000, s at 625/50i mode	0.5         kx (B1.9) kx (F1.4 lens, +36 dB gain, shutter off)           (typical)         (typical)           920 TV lines         480 TV lines (with EVS), 530 TV lines (without EVS)           1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s         1/2000 s		
	Sensitivity Minimum illumination Smear level Video S/N ratio Horizontal resolution Vertical resolution Shutter speed	F11 (typical)         F11 (typical)           0.5 lx (F1.4 lens, +36 dB gain, shutter off)         -140 dB           0.3 lx (with slow shutter, 16 frames accumulation)         -140 dB           63 dB         850 TV lines (4:3 mode), 800 TV lines (16:9 mode)           480 TV lines (with EVS) and 530 TV lines (without EVS) at 625/50i mode         575 TV lines at 625/25P mode           1/60, 1/125, 1/250, 1/1000, 1/2000 s at 625/50i mode         1/33, 1/50, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode	x, 89.9% reflectance)           0.5 lx (F1.4 lens, +36 dB gain, shutter off)           (typical)           1/50, 1/125, 1/250, 1/500, 1/1000, 1/2000 s		
	Sensitivity Minimum illumination Smear level Video S/N ratio Horizontal resolution Vertical resolution Shutter speed ECS	F11 (typical) (2000 I 0.5 lx (F1.4 lens, +36 dB gain, shutter off) 0.03 lx (with slow shutter, 16 frames accumulation) -140 dB 63 dB 850 TV lines (4:3 mode), 800 TV lines (16:9 mode) 480 TV lines (with EVS) and 530 TV lines (without EVS) at 625/50i mode 575 TV lines at 625/25P mode 1/60, 1/125, 1/250, 1/1000, 1/2000 s at 625/50i mode 1/33, 1/50, 1/100, 1/125, 1/250, 1/1000, 1/2000 s at 625/25P mode 50 to 6000 Hz at 625/50i mode	x, 89.9% reflectance)           0.5 lx (F1.4 lens, +36 dB gain, shutter off)           (typical)           typical)           920 TV lines           480 TV lines (with EVS), 530 TV lines (without EVS)           1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s           50 to 6000 Hz		
	Sensitivity Minimum illumination Smear level Video S/N ratio Horizontal resolution Vertical resolution Shutter speed ECS	F11 (typical)         (2000 I           0.5 lx (F1.4 lens, +36 dB gain, shutter off)         -140 dE           0.3 lx (with slow shutter, 16 frames accumulation)         -140 dE           63 dB         63 dB           850 TV lines (4:3 mode), 800 TV lines (16:9 mode)         63 dB           480 TV lines (with EVS) and 530 TV lines (without EVS) at 625/50i mode         575 TV lines at 625/25P mode           1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/50i mode         1/33, 1/50, 1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode           50 to 6000 Hz at 625/50i mode         25 to 6000 Hz at 625/25P mode           1/25, 1/250, 1/500, 1/1004, 1/2005 at 625/25P mode         1/25 to 6000 Hz at 625/25P mode	x, 89.9% reflectance)           0.5 lx (F1.4 lens, +36 dB gain, shutter off)           (typical)           typical)           920 TV lines           480 TV lines (with EVS), 530 TV lines (without EVS)           1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s           50 to 6000 Hz		
	Sensitivity Minimum illumination Smear level Video S/N ratio Horizontal resolution Vertical resolution Shutter speed ECS Slow shutter Gain selection	F11 (typical)         (2000 I           0.5 lx (F1.4 lens, +36 dB gain, shutter off)         0.03 lx (with slow shutter, 16 frames accumulation)           -140 dE         63 dB           850 TV lines (4:3 mode), 800 TV lines (16:9 mode)         63 dB           480 TV lines (with EVS) and 530 TV lines (without EVS) at 625/50i mode         575 TV lines at 625/25P mode           1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/50i mode         1/33, 1/50, 1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode           1/33, 1/50, 1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode         50 to 6000 Hz at 625/25P mode           1/25, 1/25, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode         50 to 6000 Hz at 625/25P mode           1/25, 1/12.5, 1/8.3, 1/6.3, 1/5, 1/4.2, 1/3.6, 1/3, 1/1.6 s (1 to 8, 16 frames)         -30 0.8 0.10 19 0.4 0.20 cm frames)	K, 89.9% reflectance)           0.5 lx (F1.4 lens, +36 dB gain, shutter off)           (typical)           1/2000 register           480 TV lines (with EVS), 530 TV lines (without EVS)           1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s           50 to 6000 Hz		
Video performance	Sensitivity Minimum illumination Smear level Video S/N ratio Horizontal resolution Vertical resolution Shutter speed ECS Slow shutter Gain selection	F11 (typical)         F11 (typical)           0.5 lx (F1.4 lens, +36 dB gain, shutter off)         0.03 lx (with slow shutter, 16 frames accumulation)           -140 dE         63 dB           850 TV lines (4:3 mode), 800 TV lines (16:9 mode)         63 dB           480 TV lines (with EVS) and 530 TV lines (without EVS) at 625/50i mode         575 TV lines at 625/25P mode           1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/50i mode         1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode           50 to 6000 Hz at 625/50i mode         25 to 6000 Hz at 625/25P mode           1/25, 1/12.5, 1/8.3, 1/6.3, 1/5, 1/4.2, 1/3.6, 1/3., 1/1.6 s (1 to 8, 16 frames)         -3, 0, 3, 6, 9, 12, 18, 24, 30, 36 dB (for	x, 89.9% reflectance) 0.5 lx (F1.4 lens, +36 dB gain, shutter off) (typical) 920 TV lines 480 TV lines (with EVS), 530 TV lines (without EVS) 1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s 50 to 6000 Hz - GAIN LOW, GAIN MID, GAIN HIGH and GAIN TURBO positions)		
Video performance Recording format	Sensitivity Minimum illumination Smear level Video S/N ratio Horizontal resolution Vertical resolution Shutter speed ECS Slow shutter Gain selection	F11 (typical) (2000 I 0.5 lx (F1.4 lens, +36 dB gain, shutter off) 0.03 lx (with slow shutter, 16 frames accumulation) -140 dB 63 dB 850 TV lines (4:3 mode), 800 TV lines (16:9 mode) 480 TV lines (with EVS) and 530 TV lines (without EVS) at 625/50 i mode 575 TV lines at 625/25P mode 1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode 1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode 50 to 6000 Hz at 625/25P mode 25 to 6000 Hz at 625/25P mode 1/25, 1/12.5, 1/8.3, 1/6.3, 1/5, 1/4.2, 1/3.6, 1/3., 1/1.6 s (1 to 8, 16 frames) -3, 0, 3, 6, 9, 12, 18, 24, 30, 36 dB (for	., 89.9% reflectance)           0.5 lx (F1.4 lens, +36 dB gain, shutter off)           (typical)           typical)           920 TV lines           480 TV lines (with EVS), 530 TV lines (without EVS)           1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s           50 to 6000 Hz           -           GAIN LOW, GAIN MID, GAIN HIGH and GAIN TURBO positions)           SP) (25 Mb/s)		
Video performance Recording format	Sensitivity Minimum illumination Smear level Video S/N ratio Horizontal resolution Vertical resolution Shutter speed ECS Slow shutter Gain selection Video Audio	F11 (typical) (2000 I 0.5 lx (F1.4 lens, +36 dB gain, shutter off) 0.03 lx (with slow shutter, 16 frames accumulation) -140 dB 63 dB 850 TV lines (4:3 mode), 800 TV lines (16:9 mode) 480 TV lines (with EVS) and 530 TV lines (without EVS) at 625/50i mode 575 TV lines at 625/25P mode 1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode 1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode 50 to 6000 Hz at 625/50i mode 25 to 6000 Hz at 625/50 mode 1/25, 1/12.5, 1/8.3, 1/6.3, 1/5, 1/4.2, 1/3.6, 1/3., 1/1.6 s (1 to 8, 16 frames) -3, 0, 3, 6, 9, 12, 18, 24, 30, 36 dB (for DVCAM/DV ( 2 ch/16-bit/48 kHz, 2 ch/12-bit/32 kHz,	., 89.9% reflectance)           0.5 lx (F1.4 lens, +36 dB gain, shutter off)           (typical)           1           920 TV lines           480 TV lines (with EVS), 530 TV lines (without EVS)           1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s           50 to 6000 Hz           -           GAIN LOW, GAIN MID, GAIN HIGH and GAIN TURBO positions)           SP) (25 Mb/s)           4 ch/12-bit/32 kHz (for use with a studio VTR)		
Video performance Recording format Record/playback tim	Sensitivity Minimum illumination Smear level Video S/N ratio Horizontal resolution Vertical resolution Shutter speed ECS Slow shutter Gain selection Video Audio e	F11 (typical) (2000 I 0.5 lx (F1.4 lens, +36 dB gain, shutter off) 0.03 lx (with slow shutter, 16 frames accumulation) -140 dB 63 dB 850 TV lines (4:3 mode), 800 TV lines (16:9 mode) 480 TV lines (with EVS) and 530 TV lines (without EVS) at 625/50i mode 575 TV lines at 625/25P mode 1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode 1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode 50 to 6000 Hz at 625/50i mode 25 to 6000 Hz at 625/50 mode 1/25, 1/12.5, 1/8.3, 1/6.3, 1/5, 1/4.2, 1/3.6, 1/3, 1/1.6 s (1 to 8, 16 frames) -3, 0, 3, 6, 9, 12, 18, 24, 30, 36 dB (for DVCAM/DV ( 2 ch/16-bit/48 kHz, 2 ch/12-bit/32 kHz, DVCAM: 184 min (with the PDV-184ME	., 89.9% reflectance)           0.5 lx (F1.4 lens, +36 dB gain, shutter off)           (typical)           1           920 TV lines           480 TV lines (with EVS), 530 TV lines (without EVS)           1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s           50 to 6000 Hz           -           GAIN LOW, GAIN MID, GAIN HIGH and GAIN TURBO positions)           SP) (25 Mb/s)           4 ch/12-bit/32 kHz (for use with a studio VTR)           , DV SP: 276 min (with the PDV-184ME)		
Video performance Recording format Record/playback tim Fast forward time	Sensitivity Minimum illumination Smear level Video S/N ratio Horizontal resolution Vertical resolution Shutter speed ECS Slow shutter Gain selection Video Audio e	F11 (typical) (2000 I           0.5 lx (F1.4 lens, +36 dB gain, shutter off)           0.03 lx (with slow shutter, 16 frames accumulation)           -140 dE           63 dB           850 TV lines (4:3 mode), 800 TV lines (16:9 mode)           480 TV lines (with EVS) and 530 TV lines (without EVS) at 625/50i mode           1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/50i mode           1/33, 1/50, 1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode           1/33, 1/50, 1/100, 1/2000 s at 625/25P mode           50 to 6000 Hz at 625/25P mode           1/25, 1/12.5, 1/25, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode           50 to 6000 Hz at 625/25P mode           1/25, 1/12.5, 1/25, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode           1/25, 1/12.5, 1/8.3, 1/6.3, 1/5, 1/4.2, 1/3.6, 1/3, 1/1.6 s (1 to 8, 16 frames)           -3, 0, 3, 6, 9, 12, 18, 24, 30, 36 dB (for           DVCAM//DV (           2 ch/16-bit/48 kHz, 2 ch/12-bit/32 kHz,           DVCAM: 184 min (with the PDV-184ME           Approx. 45 s (with the PDVM-40ME), a	., 89.9% reflectance)           0.5 lx (F1.4 lens, +36 dB gain, shutter off)           (typical)           1/2000 year           480 TV lines (with EVS), 530 TV lines (without EVS)           1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s           50 to 6000 Hz           -           GAIN LOW, GAIN MID, GAIN HIGH and GAIN TURBO positions)           SP) (25 Mb/s)           4 ch/12-bit/32 kHz (for use with a studio VTR)           ,D VSP: 276 min (with the PDV-184ME)           pprox. 2 min 30 s (with the PDV-184ME)		
Video performance Recording format Record/playback time Fast forward time Rewind time	Sensitivity Minimum illumination Smear level Video S/N ratio Horizontal resolution Vertical resolution Shutter speed ECS Slow shutter Gain selection Video Audio e	F11 (typical) (2000 I           0.5 kx (F1.4 lens, +36 dB gain, shutter off)           0.03 lx (with slow shutter, 16 frames accumulation)           -140 dB           63 dB           850 TV lines (4:3 mode), 800 TV lines (16:9 mode)           480 TV lines (with EVS) at 625/50i mode           1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/50i mode           1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode           1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode           1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode           50 to 6000 Hz at 625/25P mode           1/25, 1/125, 1/250, 1/300, 1/100, 1/2000 s at 625/25P mode           25 to 6000 Hz at 625/25P mode           1/25, 1/12.5, 1/8.3, 1/6.3, 1/5, 1/4.2, 1/3.6, 1/3, 1/1.6 s (1 to 8, 16 frames)           -3, 0, 3, 6, 9, 12, 18, 24, 30, 36 dB (for           DVCAM/DV (           2 ch/16-bit/48 kHz, 2 ch/12-bit/32 kHz,           DVCAM/DV (           2 ch/16-bit/48 kHz, 2 ch/12-bit/32 kHz,           DVCAM: 184 min (with the PDV-184ME, a)           Approx. 45 s (with the PDVM-40ME), a)           Approx. 45 s (with the PDVM-40ME), a) <td>AB 30         x, 89.9% reflectance)         0.5 lx (F1.4 lens, +36 dB gain, shutter off)         (typical)         typical)         920 TV lines         480 TV lines (with EVS), 530 TV lines (without EVS)         1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s         50 to 6000 Hz         -         GAIN LOW, GAIN MID, GAIN HIGH and GAIN TURBO positions)         SP) (25 Mb/s)         4 ch/12-bit/32 kHz (for use with a studio VTR)         0, DV SP: 276 min (with the PDV-184ME)         pprox. 2 min 30 s (with the PDV-184ME)         pprox. 2 min 30 s (with the PDV-184ME)</td>	AB 30         x, 89.9% reflectance)         0.5 lx (F1.4 lens, +36 dB gain, shutter off)         (typical)         typical)         920 TV lines         480 TV lines (with EVS), 530 TV lines (without EVS)         1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s         50 to 6000 Hz         -         GAIN LOW, GAIN MID, GAIN HIGH and GAIN TURBO positions)         SP) (25 Mb/s)         4 ch/12-bit/32 kHz (for use with a studio VTR)         0, DV SP: 276 min (with the PDV-184ME)         pprox. 2 min 30 s (with the PDV-184ME)         pprox. 2 min 30 s (with the PDV-184ME)		
Video performance Recording format Record/playback time Fast forward time Rewind time Recommended recor	Sensitivity Minimum illumination Smear level Video S/N ratio Horizontal resolution Vertical resolution Shutter speed ECS Slow shutter Gain selection Video Audio e Cding media	F11 (typical)         [2000 I]           0.5 lx (F1.4 lens, +36 dB gain, shutter off)         0.03 lx (with slow shutter, 16 frames accumulation)           -140 dE         63 dB           63 dB         850 TV lines (4:3 mode), 800 TV lines (16:9 mode)           480 TV lines (with EVS) and 530 TV lines at 625/25P mode         575 TV lines at 625/25P mode           1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/50i mode         50 to 6000 Hz at 625/25P mode           1/33, 1/50, 1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode         50 to 6000 Hz at 625/25P mode           1/25, 1/12.5, 1/8.3, 1/6.3, 1/5, 1/4.2, 1/3.6, 1/3., 1/1.6 s (1 to 8, 16 frames)         -3, 0, 3, 6, 9, 12, 18, 24, 30, 36 dB (for           UVCAM/DV (         2 ch/16-bit/48 kHz, 2 ch/12-bit/32 kHz,         DVCAM/DV (           2 ch/16-bit/48 kHz, 2 ch/12-bit/32 kHz,         DVCAM/ID (           Approx. 45 s (with the PDV-184ME         Approx. 45 s (with the PDV-40ME), a)           Approx. 45 s (with the PDVM-40ME), a)         Approx. 45 s (with the PDVM-40ME), a)	., 89.9% reflectance)           0.5 lx (F1.4 lens, +36 dB gain, shutter off)           (typical)           typical)           920 TV lines           480 TV lines (with EVS), 530 TV lines (without EVS)           1/60, 1/125, 1/250, 1/1000, 1/2000 s           50 to 6000 Hz           -           GAIN LOW, GAIN MID, GAIN HIGH and GAIN TURBO positions)           SP) (25 Mb/s)           4 ch/12-bit/32 kHz (for use with a studio VTR)           , DV SP: 276 min (with the PDV-184ME)           oprox. 2 min 30 s (with the PDV-184ME)           yorx. 2 min 30 s (with the PDV-184ME)           /34ME/184N/124N/94N/64N/34N,		
Video performance Recording format Record/playback time Fast forward time Rewind time Recommended recor	Sensitivity Minimum illumination Smear level Video S/N ratio Horizontal resolution Vertical resolution Shutter speed ECS Slow shutter Gain selection Video Audio e ding media	F11 (typical)         [2000 I           0.5 Ix (F1.4 lens, +36 dB gain, shutter off)         0.03 lx (with slow shutter, 16 frames accumulation)           -140 dB         63 dB           63 dB         63 dB           850 TV lines (4:3 mode), 800 TV lines (16:9 mode)         63 dB           480 TV lines (with EVS) and 530 TV lines (without EVS) at 625/50i mode         57 TV lines at 625/25P mode           1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/50i mode         50 to 6000 Hz at 625/50i mode           25 to 6000 Hz at 625/50i mode         25 to 6000 Hz at 625/25P mode           1/25, 1/12.5, 1/8.3, 1/6.3, 1/5, 1/4.2, 1/3.6, 1/3., 1/1.6 s (1 to 8, 16 frames)         -3, 0, 3, 6, 9, 12, 18, 24, 30, 36 dB (for           DVCAM/DV (         2 ch/16-bit/48 kHz, 2 ch/12-bit/32 kHz,         DVCAM/DV (           2 ch/16-bit/48 kHz, 2 ch/12-bit/32 kHz,         DVCAM: 184 min (with the PDV-184ME           Approx. 45 s (with the PDVM-40ME), at         Approx. 45 s (with the PDVM-40ME), at           PDVN-184ME/124ME/94ME/64ME         PDVM-184ME/124ME/94ME/64ME	., 89.9% reflectance)         0.5 lx (F1.4 lens, +36 dB gain, shutter off)         (typical)         typical)         920 TV lines         480 TV lines (with EVS), 530 TV lines (without EVS)         1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s         50 to 6000 Hz         -         GAIN LOW, GAIN MID, GAIN HIGH and GAIN TURBO positions)         SP) (25 Mb/s)         4 ch/12-bit/32 kHz (for use with a studio VTR)         ), DV SP: 276 min (with the PDV-184ME)         oprox. 2 min 30 s (with the PDV-184ME)         34ME/184N/124N/94N/64N/34N,         £/34ME/184N/124N/94N/64N/34N		
Video performance Recording format Record/playback time Fast forward time Rewind time Recommended recor Sampling frequency	Sensitivity Minimum illumination Smear level Video S/N ratio Horizontal resolution Vertical resolution Shutter speed ECS Slow shutter Gain selection Video Audio e ding media	F11 (typical) (2000 I 0.5 lx (F1.4 lens, +36 dB gain, shutter off) 0.03 lx (with slow shutter, 16 frames accumulation) -140 dB 63 dB 850 TV lines (4:3 mode), 800 TV lines (16:9 mode) 480 TV lines (with EVS) and 530 TV lines (without EVS) at 625/50i mode 575 TV lines at 625/25P mode 1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode 1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode 50 to 6000 Hz at 625/25P mode 25 to 6000 Hz at 625/25P mode 1/25, 1/12.5, 1/8.3, 1/6.3, 1/5, 1/4.2, 1/3.6, 1/3., 1/1.6 s (1 to 8, 16 frames) -3, 0, 3, 6, 9, 12, 18, 24, 30, 36 dB (for DVCAM/DV ( 2 ch/16-bit/48 kHz, 2 ch/12-bit/32 kHz, DVCAM: 184 min (with the PDV-184ME Approx. 45 s (with the PDVM-40ME), aj Approx. 45 s (with the PDVM-40ME), aj PDV-184ME/124ME/94ME/64ME	0.5 Ix (F1.4 lens, +36 dB gain, shutter off)         (typical)         1/2000 VI lines         480 TV lines (with EVS), 530 TV lines (without EVS)         1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s         50 to 6000 Hz         -         GAIN LOW, GAIN MID, GAIN HIGH and GAIN TURBO positions)         SP) (25 Mb/s)         4 ch/12-bit/32 kHz (for use with a studio VTR)         ), DV SP: 276 min (with the PDV-184ME)         oprox. 2 min 30 s (with the PDV-184ME)         yaME/184N/124N/94N/64N/34N,         E/34ME/184N/124N/94N/64N/34N         Y/B-Y: 6.75 MHz		
Video performance Recording format Record/playback time Fast forward time Rewind time Recommended recor Sampling frequency Quantization	Sensitivity Minimum illumination Smear level Video S/N ratio Horizontal resolution Vertical resolution Shutter speed ECS Slow shutter Gain selection Video Audio e Cding media	F11 (typical)         [2000 I           0.5 lx (F1.4 lens, +36 dB gain, shutter off)         -140 dB           0.03 lx (with slow shutter, 16 frames accumulation)         -140 dB           63 dB         63 dB           850 TV lines (4:3 mode), 800 TV lines (16:9 mode)         63 dB           480 TV lines (with EVS) and 530 TV lines (without EVS) at 625/50i mode         575 TV lines at 625/25P mode           1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode         50 to 6000 Hz at 625/50i mode           25 to 6000 Hz at 625/50 mode         25 to 6000 Hz at 625/50 mode           25 to 6000 Hz at 625/50 mode         -3, 0, 3, 6, 9, 12, 18, 24, 30, 36 dB (for           -000 CAM: 184 min (with the PDV-184ME         Approx. 45 s (with the PDV-184ME           Approx. 45 s (with the PDVM-40ME), at         Approx. 45 s (with the PDV-184ME/24ME/94ME/64ME           PDV-184ME/124ME/124ME/124ME/24ME/64ME         PDV-184ME/124ME/24ME/64ME           8 DVCM-184 ME/124ME/124ME/24ME/64ME         8 S (with the PDVM-40ME), at	0.13         x, 89.9% reflectance)         0.5 lx (F1.4 lens, +36 dB gain, shutter off)         (typical)         1         920 TV lines         480 TV lines (with EVS), 530 TV lines (without EVS)         1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s         50 to 6000 Hz         -         GAIN LOW, GAIN MID, GAIN HIGH and GAIN TURBO positions)         SP) (25 Mb/s)         4 ch/12-bit/32 kHz (for use with a studio VTR)         ), DV SP: 276 min (with the PDV-184ME)         pprox. 2 min 30 s (with the PDV-184ME)         /34ME/184N/124N/94N/64N/34N,         //34ME/184N/124N/94N/64N/34N         Y/B-Y: 6.75 MHz		
Video performance Recording format Record/playback time Fast forward time Recommended recor Sampling frequency Quantization Audio performance Erequency resource	Sensitivity Minimum illumination Smear level Video S/N ratio Horizontal resolution Vertical resolution Shutter speed ECS Slow shutter Gain selection Video Audio e cding media	F11 (typical) (2000 I           0.5 kx (F1.4 lens, +36 dB gain, shutter off)           0.03 lx (with slow shutter, 16 frames accumulation)           -140 dB           63 dB           850 TV lines (4:3 mode), 800 TV lines (16:9 mode)           480 TV lines (without EVS) at 625/50i mode           1/60, 1/125, 1/250, 1/300, 1/1000, 1/2000 s at 625/50i mode           1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode           1/25, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode           1/25, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode           1/25, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode           1/25, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode           1/25, 1/12, 1/12, 1/2, 1/3, 6, 1/3, 1/1, 6 s (1 to 8, 16 frames)           -3, 0, 3, 6, 9, 12, 18, 24, 30, 36 dB (for           DVCAM: 184 min (with the PDV-184ME           DVCAM: 184 min (with the PDVM-40ME), a           Approx. 45 s (with the PDVM-40ME), a           Approx. 45 s (with the PDVM-40ME), a           PDV-184ME/64ME           PDV-184ME/64ME           PDV-184ME/64ME           PDV-184ME/64ME           PDV-184ME/64ME	0.13         x, 89.9% reflectance)         0.5 lx (F1.4 lens, +36 dB gain, shutter off)         (typical)         typical)         920 TV lines         480 TV lines (with EVS), 530 TV lines (without EVS)         1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s         50 to 6000 Hz         -         GAIN LOW, GAIN MID, GAIN HIGH and GAIN TURBO positions)         SP) (25 Mb/s)         4 ch/12-bit/32 kHz (for use with a studio VTR)         ), DV SP: 276 min (with the PDV-184ME)         oprox. 2 min 30 s (with the PDV-184ME)         34ME/184N/124N/94N/64N/34N,         E/34ME/184N/124N/94N/64N/34N,         E/34ME/184N/124N/94N/64N/34N,         E/34ME/184N/124N/94N/64N/34N,         S2 kHz: 20 Hz to 14.5 kHz ±0.5/-1.0 dB		
Video performance Recording format Record/playback time Fast forward time Rewind time Recommended recor Sampling frequency Quantization Audio performance Frequency response Dunamic rance	Sensitivity Minimum illumination Smear level Video S/N ratio Horizontal resolution Vertical resolution Shutter speed ECS Slow shutter Gain selection Video Audio e Cding media	F11 (typical)         (2000 I           0.5 lx (F1.4 lens, +36 dB gain, shutter off)         0.03 lx (with slow shutter, 16 frames accumulation)           -140 dE         63 dB           850 TV lines (4:3 mode), 800 TV lines (16:9 mode)         63 dB           480 TV lines (with EVS) and 530 TV lines at 625/25P mode         57 TV lines at 625/25P mode           1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/50i mode         57 to 1000, 1/2000 s at 625/25P mode           1/33, 1/50, 1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode         50 to 6000 Hz at 625/25P mode           1/25, 1/12.5, 1/8.3, 1/6.3, 1/5, 1/4.2, 1/3.6, 1/3., 1/1.6 s (1 to 8, 16 frames)         -3, 0, 3, 6, 9, 12, 18, 24, 30, 36 dB (for           2         ch/16-bit/48 kHz, 2 ch/12-bit/32 kHz,         DVCAM/DV (           2         ch/16-bit/48 kHz, 2 ch/12-bit/32 kHz,         DVCAM/DV (           4         Approx. 45 s (with the PDV-184ME         Approx. 45 s (with the PDVM-40ME), a           PDV-184ME/124ME/94ME/64ME         PDVM-184ME/124ME/94ME/64ME         Y: 13.5 MHz, R           8         48 kHz: 20 Hz to 20 kHz +0.5/-1.0 dB,         More th	0.13         x, 89.9% reflectance)         0.5 lx (F1.4 lens, +36 dB gain, shutter off)         (typical)         typical)         920 TV lines         480 TV lines (with EVS), 530 TV lines (without EVS)         1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s         50 to 6000 Hz         -         GAIN LOW, GAIN MID, GAIN HIGH and GAIN TURBO positions)         SP) (25 Mb/s)         4 ch/12-bit/32 kHz (for use with a studio VTR)         ), DV SP: 276 min (with the PDV-184ME)         poprox. 2 min 30 s (with the PDV-184ME)         yoprox. 2 min 30 s (with the PDV-184ME)         /34ME/184N/124N/94N/64N/34N,         £/34ME/184N/124N/94N/64N/34N,         £/34ME/184N/124N/94N/64N/34N,         £/34ME/184N/124N/94N/64N/34N,         5/2 kHz: 20 Hz to 14.5 kHz +0.5/-1.0 dB         an 80 dB		
Video performance Recording format Record/playback tim Fast forward time Rewind time Recommended recor Sampling frequency Quantization Audio performance Frequency response Dynamic range Distortion (at 1 kHz et al.	Sensitivity Minimum illumination Smear level Video S/N ratio Horizontal resolution Vertical resolution Shutter speed ECS Slow shutter Gain selection Video Audio e cding media	F11 (typical) (2000 I 0.5 kx (F1.4 lens, +36 dB gain, shutter off) 0.03 kx (with slow shutter, 16 frames accumulation) -140 dB 63 dB 850 TV lines (4:3 mode), 800 TV lines (16:9 mode) 480 TV lines (with EVS) and 530 TV lines (without EVS) at 625/50i mode 575 TV lines at 625/25P mode 1/33, 1/50, 1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode 50 to 6000 Hz at 625/25P mode 1/25, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode 25 to 6000 Hz at 625/25P mode 1/25, 1/12.5, 1/8.3, 1/6.3, 1/5, 1/4.2, 1/3.6, 1/3., 1/1.6 s (1 to 8, 16 frames) -3, 0, 3, 6, 9, 12, 18, 24, 30, 36 dB (for DVCAM/DV ( 2 ch/16-bit/48 kHz, 2 ch/12-bit/32 kHz, DVCAM/DV ( 2 ch/16-bit/48 kHz, 2 ch/12-bit/32 kHz, DVCAM/DV 5 s (with the PDV-184ME Approx. 45 s (with the PDV-184ME Approx. 45 s (with the PDW-40ME), aj Approx. 45 s (with the PDW-40ME), ag PDV-184ME/124ME/94ME/64ME PDVM-184ME/124ME/94ME/64ME PDVM-184ME/124ME/94ME/64ME 8 l 48 kHz: 20 Hz to 20 kHz +0.5/-1.0 dB, More th	0.13         x, 89.9% reflectance)         0.5 lx (F1.4 lens, +36 dB gain, shutter off)         (typical)         typical)         920 TV lines         480 TV lines (with EVS), 530 TV lines (without EVS)         1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s         50 to 6000 Hz         -         GAIN LOW, GAIN MID, GAIN HIGH and GAIN TURBO positions)         SP) (25 Mb/s)         4 ch/12-bit/32 kHz (for use with a studio VTR)         ), DV SP: 276 min (with the PDV-184ME)         pprox. 2 min 30 s (with the PDV-184ME)         3/34ME/184N/124N/94N/64N/34N,         F/34ME/184N/124N/94N/64N/34N,         Y/B-Y: 6.75 MHz         its         32 kHz: 20 Hz to 14.5 kHz +0.5/-1.0 dB         an 80 dB         z reference level 48 kHz)		
Video performance Recording format Record/playback time Rewind time Recommended recor Sampling frequency Quantization Audio performance Frequency response Dynamic range Distortion (at 1 kHz, e Built-in LCD monitor	Sensitivity Minimum illumination Smear level Video S/N ratio Horizontal resolution Vertical resolution Shutter speed ECS Slow shutter Gain selection Video Audio e ding media mphasis ON, reference level)	F11 (typical) (2000 I           0.5 lx (F1.4 lens, +36 dB gain, shutter off)           0.03 lx (with slow shutter, 16 frames accumulation)           -140 dB           63 dB           850 TV lines (4:3 mode), 800 TV lines (16:9 mode)           480 TV lines (with EVS) and 530 TV lines (without EVS) at 625/50i mode           575 TV lines at 625/25P mode           1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode           50 to 6000 Hz at 625/25P mode           25 to 6000 Hz at 625/25P mode           25 to 6000 Hz at 625/25P mode           1/25, 1/12.5, 1/8.3, 1/6.3, 1/5, 1/4.2, 1/3.6, 1/3., 1/1.6 s (1 to 8, 16 frames)           -3, 0, 3, 6, 9, 12, 18, 24, 30, 36 dB (for           DVCAM/DV (           2 ch/16-bit/48 kHz, 2 ch/12-bit/32 kHz,           0 DVCAM/DV (           2 ch/16-bit/48 kHz, 2 ch/12-bit/32 kHz,           0 DVCAM/DV (           2 ch/16-bit/48 kHz, 2 ch/12-bit/32 kHz,           0 Approx. 45 s (with the PDVM-40ME), a           0 Approx. 45 s (with t	., 89.9% reflectance)         0.5 lx (F1.4 lens, +36 dB gain, shutter off)         (typical)         1/920 TV lines         480 TV lines (with EVS), 530 TV lines (without EVS)         1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s         50 to 6000 Hz         -         GAIN LOW, GAIN MID, GAIN HIGH and GAIN TURBO positions)         SP) (25 Mb/s)         4 ch/12-bit/32 kHz (for use with a studio VTR)         ), DV SP: 276 min (with the PDV-184ME)         oprox. 2 min 30 s (with the PDV-184ME)         3/34ME/184N/124N/94N/64N/34N,         E/34ME/184N/124N/94N/64N/34N         Y/B-Y: 6.75 MHz         oits         32 kHz: 20 Hz to 14.5 kHz +0.5/-1.0 dB         an 80 dB         z, reference level, 48 kHz)		
Video performance Recording format Record/playback time Fast forward time Rewind time Recommended recor Sampling frequency Quantization Audio performance Frequency response Dynamic range Distortion (at 1 kHz, e Built-in LCD monitor	Sensitivity Minimum illumination Smear level Video S/N ratio Horizontal resolution Vertical resolution Shutter speed ECS Slow shutter Gain selection Video Audio e ding media mphasis ON, reference level)	F11 (typical) (2000 I           0.5 lx (F1.4 lens, +36 dB gain, shutter off)           0.03 lx (with slow shutter, 16 frames accumulation)           -140 dB           63 dB           850 TV lines (4:3 mode), 800 TV lines (16:9 mode)           480 TV lines (with EVS) and 530 TV lines (without EVS) at 625/50i mode           575 TV lines at 625/25P mode           1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode           50 to 6000 Hz at 625/25P mode           25 to 6000 Hz at 625/25P mode           1/25, 1/12.5, 1/8.3, 1/6.3, 1/5, 1/4.2, 1/3.6, 1/3., 1/1.6 s (1 to 8, 16 frames)           -3, 0, 3, 6, 9, 12, 18, 24, 30, 36 dB (for           DVCAM/DV (           2 ch/16-bit/48 kHz, 2 ch/12-bit/32 kHz,           DVCAM: 184 min (with the PDV-184ME           Approx. 45 s (with the PDVM-40ME), a           Approx. 45 s (with the PDVM-40ME), a           PDV-184ME/124ME/94ME/64M           Y: 13.5 MHz, R-           8 1           48 kHz: 20 Hz to 20 kHz +0.5/-1.0 dB,           More th           Less than 0.12% (at 1 kH	0.13         x, 89.9% reflectance)         0.5 lx (F1.4 lens, +36 dB gain, shutter off)         (typical)         1         ypical)         920 TV lines         480 TV lines (with EVS), 530 TV lines (without EVS)         1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s         50 to 6000 Hz         -         GAIN LOW, GAIN MID, GAIN HIGH and GAIN TURBO positions)         SP) (25 Mb/s)         4 ch/12-bit/32 kHz (for use with a studio VTR)         ), DV SP: 276 min (with the PDV-184ME)         yprox. 2 min 30 s (with the PDV-184ME)         yprox. 2 min 30 s (with the PDV-184ME)         3/4ME/184N/124N/94N/64N/34N,         E/34ME/184N/124N/94N/64N/34N,         E/34ME/184N/124N/94N/64N/34N,         Y/B-Y: 6.75 MHz         oits         32 kHz: 20 Hz to 14.5 kHz +0.5/-1.0 dB         an 80 dB         z, reference level, 48 kHz)         ssolution: 214,000 (964 x 222) pixels		
Video performance Recording format Record/playback time Fast forward time Rewind time Recommended recor Sampling frequency Quantization Audio performance Frequency response Dynamic range Distortion (at 1 kHz, e Built-in LCD monitor Viewfinder	Sensitivity Minimum illumination Smear level Video S/N ratio Horizontal resolution Vertical resolution Shutter speed ECS Slow shutter Gain selection Video Audio e ding media mphasis ON, reference level)	F11 (typical) (2000 I           0.05 kx (F1.4 lens, +36 dB gain, shutter off)           0.03 lx (with slow shutter, 16 frames accumulation)           -140 dE           63 dB           850 TV lines (4:3 mode), 800 TV lines (16:9 mode)           480 TV lines (4:3 mode), 800 TV lines (16:9 mode)           480 TV lines (without EVS) at 625/50i mode           1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode           1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode           1/25, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode           1/25, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode           1/25, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode           1/25, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode           1/25, 1/12.5, 1/250, 1/500, 1/100, 1/2000 s at 625/25P mode           1/25, 1/12.5, 1/8.3, 1/5, 1/4.2, 1/3.6, 1/3, 1/1.6 s (1 to 8, 16 frames)           -3, 0, 3, 6, 9, 12, 18, 24, 30, 36 dB (for           DVCAM: 184 min (with the PDVM-40ME), at           DVCAM: 184 min (with the PDVM-40ME), at           Approx. 45 s (with the PDVM-40ME), at           PDV-184ME/24ME/94ME/64M           Y: 13.5 MHz, R-           8     <	0.5 Ix (F1.4 lens, +36 dB gain, shutter off)         (typical)         1         920 TV lines         480 TV lines (with EVS), 530 TV lines (without EVS)         1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s         50 to 6000 Hz         GAIN LOW, GAIN MID, GAIN HIGH and GAIN TURBO positions)         SP) (25 Mb/s)         4 ch/12-bit/32 kHz (for use with a studio VTR)         0, DV SP: 276 min (with the PDV-184ME)         optrox. 2 min 30 s (with the PDV-184ME)         optrox. 2 min 30 s (with the PDV-184ME)         ofAME/184N/124N/94N/64N/34N         Y/B-Y: 6.75 MHz         bits         32 kHz: 20 Hz to 14.5 kHz +0.5/-1.0 dB         an 80 dB         z, reference level, 48 kHz)         assolution: 214,000 (964 x 222) pixels		
Video performance Record/playback time Fast forward time Rewind time Recommended recor Sampling frequency Quantization Audio performance Frequency response Dynamic range Distortion (at 1 kHz, e Built-in LCD monitor Viewfinder CRT	Sensitivity Minimum illumination Smear level Video S/N ratio Horizontal resolution Vertical resolution Shutter speed ECS Slow shutter Gain selection Video Audio e ding media mphasis ON, reference level)	F11 (typical) (2000 I           0.5 lx (F1.4 lens, +36 dB gain, shutter off)           0.03 lx (with slow shutter, 16 frames accumulation)           -140 dB           63 dB           850 TV lines (4:3 mode), 800 TV lines (16:9 mode)           480 TV lines (with EVS) and 530 TV lines (without EVS) at 625/50i mode           1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/50i mode           1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/50i mode           1/33, 1/50, 1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode           1/25, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode           1/25, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode           50 to 6000 Hz at 625/25P mode           1/25, 1/12.5, 1/8.3, 1/6.3, 1/5, 1/4.2, 1/3.6, 1/3, 1/1.6 s (1 to 8, 16 frames)           -3, 0, 3, 6, 9, 12, 18, 24, 30, 36 dB (for           DVCAM/DV (           2 ch/16-bit/48 kHz, 2 ch/12-bit/32 kHz,           DVCAM/DV (           2 ch/16-bit/48 kHz, 2 ch/12-bit/32 kHz,           DVCAM/DV (           2 ch/14-bit/48 kHz, 2 ch/12-bit/32 kHz,           0VCAM: 184 min (with the PDVH-84MEF,           Approx. 45 s (with the PDVM-40ME), at           PDV-184ME/124ME/94ME/64ME           PDV-184ME           PDV-184ME           48 kHz: 20 Hz to 20 kHz +0.5/-1.0 dB,           More th </td <td>0.13         x, 89.9% reflectance)         0.5 lx (F1.4 lens, +36 dB gain, shutter off)         (typical)         typical)         920 TV lines         480 TV lines (with EVS), 530 TV lines (without EVS)         1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s         50 to 6000 Hz         -         GAIN LOW, GAIN MID, GAIN HIGH and GAIN TURBO positions)         SP) (25 Mb/s)         4 ch/12-bit/32 kHz (for use with a studio VTR)         ), DV SP: 276 min (with the PDV-184ME)         pprox. 2 min 30 s (with the PDV-184ME)         234ME/184N/124N/94N/64N/34N,         E/34ME/184N/124N/94N/64N/34N,         52 kHz: 20 Hz to 14.5 kHz +0.5/-1.0 dB         an 80 dB         z, reference level, 48 kHz)         =         monochrome</td>	0.13         x, 89.9% reflectance)         0.5 lx (F1.4 lens, +36 dB gain, shutter off)         (typical)         typical)         920 TV lines         480 TV lines (with EVS), 530 TV lines (without EVS)         1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s         50 to 6000 Hz         -         GAIN LOW, GAIN MID, GAIN HIGH and GAIN TURBO positions)         SP) (25 Mb/s)         4 ch/12-bit/32 kHz (for use with a studio VTR)         ), DV SP: 276 min (with the PDV-184ME)         pprox. 2 min 30 s (with the PDV-184ME)         234ME/184N/124N/94N/64N/34N,         E/34ME/184N/124N/94N/64N/34N,         52 kHz: 20 Hz to 14.5 kHz +0.5/-1.0 dB         an 80 dB         z, reference level, 48 kHz)         =         monochrome		
Video performance Recording format Record/playback time Fast forward time Rewind time Recommended recor Sampling frequency Quantization Audio performance Frequency response Dynamic range Distortion (at 1 kHz, e Built-in LCD monitor Viewfinder CRT Indicators	Sensitivity Minimum illumination Smear level Video S/N ratio Horizontal resolution Vertical resolution Shutter speed ECS Slow shutter Gain selection Video Audio e ding media mphasis ON, reference level)	F11 (typical)         (2000 I           0.5 tx (F1.4 lens, +36 dB gain, shutter off)         0.03 lx (with slow shutter, 16 frames accumulation)           -140 dB         63 dB           850 TV lines (4:3 mode), 800 TV lines (16:9 mode)         63 dB           480 TV lines (with EVS) and 530 TV lines at 625/25P mode         575 TV lines at 625/25P mode           1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/50i mode         575 TV lines at 625/25P mode           1/33, 1/50, 1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode         50 to 6000 Hz at 625/50i mode           1/25, 1/12.5, 1/8.3, 1/6.3, 1/5, 1/4.2, 1/3.6, 1/3., 1/1.6 s (1 to 8, 16 frames)         -3, 0, 3, 6, 9, 12, 18, 24, 30, 36 dB (for           2         bvCAM/DV (         2 ch/16-bit/48 kHz, 2 ch/12-bit/32 kHz,           DVCAM/DV (         2 ch/16-bit/48 kHz, 2 ch/12-bit/32 kHz,           DVCAM/DV (         2 ch/16-bit/48 kHz, 2 ch/12-bit/32 kHz,           Approx. 45 s (with the PDVM-40ME), at           Approx. 45 s (with the PDVM-40ME), at           PDV-184ME/124ME/94ME/64ME           PDV-184ME/124ME/94ME/64ME           PDV-184ME/124ME/94ME/64ME           PDV-184ME/124ME/94ME/64ME           PDV-184ME/124ME/94ME/64ME           Y: 13.5 MHz, R-           48 kHz: 20 Hz to 20 kHz +0.5/-1.0 dB,           More th           Less than 0.12% (at 1 kH	0.13         x, 89.9% reflectance)         0.5 lx (F1.4 lens, +36 dB gain, shutter off)         (typical)         typical)         920 TV lines         480 TV lines (with EVS), 530 TV lines (without EVS)         1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s         50 to 6000 Hz         -         GAIN LOW, GAIN MID, GAIN HIGH and GAIN TURBO positions)         SP) (25 Mb/s)         4 ch/12-bit/32 kHz (for use with a studio VTR)         ), DV SP: 276 min (with the PDV-184ME)         oprox. 2 min 30 s (with the PDV-184ME)         yoprox. 2 min 30 s (with the PDV-184ME)         //34ME/184N/124N/94N/64N/34N,         £/24ME/184N/124N/94N/64N/34N,         £/24ME/184N/124N/94N/64N/34N,         £/24ME/184N/124N/94N/64N/34N,         źz kHz: 20 Hz to 14.5 kHz +0.5/-1.0 dB         an 80 dB         z, reference level, 48 kHz)         asolution: 214,000 (964 x 222) pixels         monochrome         r, BATT, SHUTTER, GAIN UP		
Video performance Recording format Record/playback tim Fast forward time Rewind time Recommended recor Sampling frequency Quantization Audio performance Frequency response Distortion (at 1 kHz, e Built-in LC monitor Viewfinder CRT Indicators Horizontal resolution	Sensitivity Minimum illumination Smear level Video S/N ratio Horizontal resolution Vertical resolution Shutter speed ECS Slow shutter Gain selection Video Audio e 	F11 (typical)         (2000 I           0.5 lx (F1.4 lens, +36 dB gain, shutter off)         0.03 lx (with slow shutter, 16 frames accumulation)           -140 dE         63 dB           850 TV lines (4:3 mode), 800 TV lines (16:9 mode)         63 dB           480 TV lines (with EVS) and 530 TV lines (without EVS) at 625/50i mode         575 TV lines at 625/25P mode           1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/50i mode         1/33, 1/50, 1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode           50 to 6000 Hz at 625/50F mode         25 to 6000 Hz at 625/25P mode         25 to 6000 Hz at 625/25P mode           1/25, 1/12.5, 1/8.3, 1/6.3, 1/5, 1/4.2, 1/3.6, 1/3., 1/1.6 s (1 to 8, 16 frames)         -3, 0, 3, 6, 9, 12, 18, 24, 30, 36 dB (for           DVCAM/DV (         2 ch/16-bit/48 kHz, 2 ch/12-bit/32 kHz,         DVCAM/DV (           2 ch/16-bit/48 kHz, 2 ch/12-bit/32 kHz,         DVCAM/DV (         2 ch/16-bit/48 kHz, 2 ch/12-bit/32 kHz,           0 DVCAM/DV (         2 ch/16-bit/48 kHz, 2 ch/12-bit/32 kHz,         DVCAM/DV (           2 ch/16-bit/48 kHz, 2 ch/12-bit/32 kHz,         DVCAM/DV (         2 ch/16-bit/48 kHz, 2 ch/12-bit/32 kHz,           0 DVCAM/DV (         2 ch/16-bit/48 kHz, 2 ch/12-bit/32 kHz,         RA           0 Approx. 45 s (with the PDVM-40ME), at         Approx. 45 s (with the PDVM-40ME), at           0 Approx. 45 s (with the PDVM-40ME), at         S lat           1	0.13         x, 89.9% reflectance)         0.5 lx (F1.4 lens, +36 dB gain, shutter off)         (typical)         1         920 TV lines         480 TV lines (with EVS), 530 TV lines (without EVS)         1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s         50 to 6000 Hz         -         GAIN LOW, GAIN MID, GAIN HIGH and GAIN TURBO positions)         SP) (25 Mb/s)         4 ch/12-bit/32 kHz (for use with a studio VTR)         ), DV SP: 276 min (with the PDV-184ME)         oprox. 2 min 30 s (with the PDV-184ME)         34ME/184N/124N/94N/64N/34N,         K/34ME/184N/124N/94N/64N/34N,         K/34ME/184N/124N/94N/64N/34N,         Y/B-Y: 6.75 MHz         sits         32 kHz: 20 Hz to 14.5 kHz +0.5/-1.0 dB         an 80 dB         z, reference level, 48 kHz)         asolution: 214,000 (964 x 222) pixels         monochrome         ', BATT, SHUTTER, GAIN UP         V lines		
Video performance Recording format Record/playback time Rewind time Recommended recor Sampling frequency Quantization Audio performance Frequency response Dynamic range Distortion (at 1 kHz, e Built-in LCD monitor Viewfinder CRT Indicators Horizontal resolution Microphone	Sensitivity Minimum illumination Smear level Video S/N ratio Horizontal resolution Vertical resolution Shutter speed ECS Slow shutter Gain selection Video Audio e  ding media	F11 (typical) (2000 I           0.5 lx (F1.4 lens, +36 dB gain, shutter off)           0.03 lx (with slow shutter, 16 frames accumulation)           -140 dB           63 dB           850 TV lines (4:3 mode), 800 TV lines (16:9 mode)           480 TV lines (with EVS) and 530 TV lines (without EVS) at 625/50i mode           575 TV lines at 625/25P mode           1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode           50 to 6000 Hz at 625/25P mode           1/25, 1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode           25 to 6000 Hz at 625/25P mode           1/25, 1/12.5, 1/8.3, 1/6.3, 1/5, 1/4.2, 1/3.6, 1/3., 1/1.6 s (1 to 8, 16 frames)           -3, 0, 3, 6, 9, 12, 18, 24, 30, 36 dB (for           DVCAM/DV (           2 ch/16-bit/48 kHz, 2 ch/12-bit/32 kHz,           Approx. 45 s (with the PDW-40ME), at           PDV-184ME/124ME/94ME/64ME           PDV-184ME/124ME/94ME/64ME	0.13         x, 89.9% reflectance)         0.5 lx (F1.4 lens, +36 dB gain, shutter off)         (typical)         1         ypical)         920 TV lines         480 TV lines (with EVS), 530 TV lines (without EVS)         1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s         50 to 6000 Hz         -         GAIN LOW, GAIN MID, GAIN HIGH and GAIN TURBO positions)         SP) (25 Mb/s)         4 ch/12-bit/32 kHz (for use with a studio VTR)         ), DV SP: 276 min (with the PDV-184ME)         pprox. 2 min 30 s (with the PDV-184ME)         yaME/184N/124N/94N/64N/34N,         z/34ME/184N/124N/94N/64N/34N,         z/34ME/184N/124N/94N/64N/24N/94N/64N/		
Video performance Recording format Record/playback tim Fast forward time Recommended recor Sampling frequency Quantization Audio performance Frequency response Dynamic range Distortion (at 1 kHz, e Built-in LCD monitor Viewfinder CRT Indicators Horizontal resolution Microphone	Sensitivity Minimum illumination Smear level Video S/N ratio Horizontal resolution Vertical resolution Shutter speed ECS Slow shutter Gain selection Video Audio e  ding media	F11 (typical) (2000 I           0.5 lx (F1.4 lens, +36 dB gain, shutter off)           0.03 lx (with slow shutter, 16 frames accumulation)           -140 dE           63 dB           850 TV lines (4:3 mode), 800 TV lines (16:9 mode)           480 TV lines (with EVS) and 530 TV lines (without EVS) at 625/50i mode           575 TV lines at 625/25P mode           1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode           1/33, 1/50, 1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode           50 to 6000 Hz at 625/25P mode           1/25, 1/12.5, 1/250, 1/50, 1/1000, 1/2000 s at 625/25P mode           1/25, 1/12.5, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode           1/25, 1/12.5, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode           1/25, 1/12.5, 1/8.3, 1/6.3, 1/5, 1/4.2, 1/3.6, 1/3, 1/1.6 s (1 to 8, 16 frames)           -3, 0, 3, 6, 9, 12, 18, 24, 30, 36 dB (for           DVCAM/DV (           2 ch/16-bit/48 kHz, 2 ch/12-bit/32 kHz,           DVCAM: 184 min (with the PDVM-40ME), at           Approx. 45 s (with the PDVM-40ME), at           Approx. 45 s (with the PDVM-40ME), at           PDV-184ME/124ME/94ME/64M           Y: 13.5 MHz, R-           81           48 kHz: 20 Hz to 20 kHz +0.5/-1.0 dB,           More th           Less than 0.12% (at 1 kH           2.5-inch type colo	0.5       Ix       (F1.4 lens, +36 dB gain, shutter off)         (typical)       920 TV lines         480 TV lines (with EVS), 530 TV lines (without EVS)         1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s         50 to 6000 Hz         -         GAIN LOW, GAIN MID, GAIN HIGH and GAIN TURBO positions)         SP) (25 Mb/s)         4 ch/12-bit/32 kHz (for use with a studio VTR)         ), DV SP: 276 min (with the PDV-184ME)         oprox. 2 min 30 s (with the PDV-184ME)         3/3ME/184N/124N/94N/64N/34N         K/B-Y184N/124N/94N/64N/34N         Y/P-Y: 6.75 MHz         oits         32 kHz: 20 Hz to 14.5 kHz +0.5/-1.0 dB         an 80 dB         z, reference level, 48 kHz)         monochrome         ', BATT, SHUTTER, GAIN UP         V lines         crophone (detachable)		
Video performance Record/playback tim Fast forward time Recommended recor Sampling frequency Quantization Audio performance Frequency response Dynamic range Distortion (at 1 kHz, e Built-in LCD monitor Viewfinder CRT Indicators Horizontal resolution Microphone Eco-info	Sensitivity Minimum illumination Smear level Video S/N ratio Horizontal resolution Vertical resolution Shutter speed ECS Slow shutter Gain selection Video Audio e  rding media mphasis ON, reference level)	F11 (typical) (2000 I           0.5 lx (F1.4 lens, +36 dB gain, shutter off)           0.03 lx (with slow shutter, 16 frames accumulation)           -140 dE           63 dB           850 TV lines (4:3 mode), 800 TV lines (16:9 mode)           480 TV lines (with EVS) and 530 TV lines (without EVS) at 625/50i mode           575 TV lines at 625/25P mode           1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/50i mode           50 to 6000 Hz at 625/25P mode           1/25, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode           1/25, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode           1/25, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode           1/25, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode           1/25, 1/125, 1/25, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode           1/25, 1/12, 1/8, 3, 1/6, 3, 1/5, 1/4, 2, 1/3, 6, 1/3, 1/1.6 s (1 to 8, 16 frames)           -3, 0, 3, 6, 9, 12, 18, 24, 30, 36 dB (for           DVCAM/DV (           2 ch/16-bit/48 kHz, 2 ch/12-bit/32 kHz,           DVCAM/DV H           4 pprox. 45 s (with the PDVM-40ME), a           Approx. 45 s (with the PDVM-40ME), a           PDV-184ME/124ME/94ME/64M           Y: 13.5 MHz, R-           8 l           48 kHz: 20 Hz to 20 kHz +0.5/-1.0 dB,           More th           Less than 0.12% (at	0.13         x, 89.9% reflectance)         0.5 lx (F1.4 lens, +36 dB gain, shutter off)         (typical)         typical)         920 TV lines         480 TV lines (with EVS), 530 TV lines (without EVS)         1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s         50 to 6000 Hz         -         GAIN LOW, GAIN MID, GAIN HIGH and GAIN TURBO positions)         SP) (25 Mb/s)         4 ch/12-bit/32 kHz (for use with a studio VTR)         ), DV SP: 276 min (with the PDV-184ME)         oprox. 2 min 30 s (with the PDV-184ME)         34ME/184N/124N/94N/64N/34N,         K/34ME/184N/124N/94N/64N/34N,         K/9-Y: 6.75 MHz         oits         32 kHz: 20 Hz to 14.5 kHz +0.5/-1.0 dB         an 80 dB         z, reference level, 48 kHz)         sesolution: 214,000 (964 x 222) pixels         monochrome         , BATT, SHUTTER, GAIN UP         V lines         crophone (detachable)		
Video performance Record/playback time Fast forward time Rewind time Recommended recor Sampling frequency Quantization Audio performance Frequency response Dynamic range Distortion (at 1 kHz, e Built-in LCD monitor Viewfinder CRT Indicators Horizontal resolution Microphone Eco-info	Sensitivity Minimum illumination Smear level Video S/N ratio Horizontal resolution Vertical resolution Shutter speed ECS Slow shutter Gain selection Video Audio e ding media	F11 (typical)         (2000 I           0.5 tx (F1.4 lens, +36 dB gain, shutter off)         0.03 lx (with slow shutter, 16 frames accumulation)           -140 dB         63 dB           850 TV lines (4:3 mode), 800 TV lines (16:9 mode)         63 dB           480 TV lines (with EVS) and 530 TV lines at 625/25P mode         1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/50i mode           1/33, 1/50, 1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode         50 to 6000 Hz at 625/25P mode           1/25, 1/25, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode         50 to 6000 Hz at 625/25P mode           1/25, 1/12.5, 1/8.3, 1/5, 1/4.2, 1/3.6, 1/3, 1/1.6 s (1 to 8, 16 frames)         -3, 0, 3, 6, 9, 12, 18, 24, 30, 36 dB (for           0VCAM/DV (         2 ch/16-bit/48 kHz, 2 ch/12-bit/32 kHz,         DVCAM/DV (           2 ch/16-bit/48 kHz, 2 ch/12-bit/32 kHz,         DVCAM/DV (           4 pprox. 45 s (with the PDVM-40ME), at         Approx. 45 s (with the PDVM-40ME), at           PDV-184ME/124ME/94ME/64ME         PDVM-184ME/124ME/94ME/64ME           PDVM-184ME/124ME/94ME/64ME         PDVM-184ME/124ME/94ME/64ME           92 48 kHz: 20 Hz to 20 kHz +0.5/-1.0 dB,         More th           48 kHz: 20 Hz to 20 kHz +0.5/-1.0 dB,         More th           1.5-inch type         REC TALLY (2), TAKE TALLY           600 T         Electret condenser min           1.6ad-free solder is used for	0.13         x, 89.9% reflectance)         0.5 lx (F1.4 lens, +36 dB gain, shutter off)         (typical)         typical)         920 TV lines         480 TV lines (with EVS), 530 TV lines (without EVS)         1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s         50 to 6000 Hz         -         GAIN LOW, GAIN MID, GAIN HIGH and GAIN TURBO positions)         SP) (25 Mb/s)         4 ch/12-bit/32 kHz (for use with a studio VTR)         ), DV SP: 276 min (with the PDV-184ME)         poprox. 2 min 30 s (with the PDV-184ME)         970x2. 2 min 30 s (with the PDV-184ME)         970x2. 4 min 30 s (with the PDV-184ME)         974ME/184N/124N/94N/64N/34N,         8/34ME/184N/124N/94N/64N/34N,         974ME/184N/124N/94N/64N/34N,         974ME         980 dB         2, reference level, 48 kHz)         990         990         990         900         901         901         902         903         904         905         905         906         907         907         900         904         904		
Video performance Recording format Record/playback time Fast forward time Rewind time Recommended recor Sampling frequency Quantization Audio performance Frequency response Dynamic range Distortion (at 1 kHz, e Built-in LCD monitor Viewfinder CRT Indicators Horizontal resolution Microphone Eco-info	Sensitivity Minimum illumination Smear level Video S/N ratio Horizontal resolution Vertical resolution Shutter speed ECS Slow shutter Gain selection Video Audio e  rding media mphasis ON, reference level)	F11 (typical)         (2000 I           0.5 tx (F1.4 lens, +36 dB gain, shutter off)         -140 dE           63 dB         -140 dE           63 dB         850 TV lines (4:3 mode), 800 TV lines (16:9 mode)           480 TV lines (with EVS) and 530 TV lines at 625/25P mode         1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/50i mode           1/33, 1/50, 1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/50i mode         50 to 6000 Hz at 625/25P mode           1/25, 1/25, 1/250, 1/500, 1/1000, 1/2000 s at 625/50i mode         50 to 6000 Hz at 625/25P mode           1/25, 1/12.5, 1/8.3, 1/5, 1/4.2, 1/3.6, 1/3, 1/1.6 s (1 to 8, 16 frames)         -3, 0, 3, 6, 9, 12, 18, 24, 30, 36 dB (for           0VCAM/DV (         2 ch/16-bit/48 kHz, 2 ch/12-bit/32 kHz,         DVCAM/DV (           2 ch/16-bit/48 kHz, 2 ch/12-bit/32 kHz,         DVCAM/DV (         2 ch/16-bit/48 kHz, 2 ch/12-bit/32 kHz,           0VCAM: 184 min (with the PDVM-40ME), at         Approx. 45 s (with the PDVM-40ME), at         PDV-184ME/124ME/94ME/64ME           PDV-184ME/124ME/94ME/64ME         PDVM-184ME/124ME/94ME/64ME         Y: 13.5 MHz, R-         8 I           48 kHz: 20 Hz to 20 kHz +0.5/-1.0 dB,         More th         Less than 0.12% (at 1 kH         2.5-inch type colour LCD monitor, r         1.5-inch type         600 T	0.13         x, 89.9% reflectance)         0.5 lx (F1.4 lens, +36 dB gain, shutter off)         (typical)         typical)         920 TV lines         480 TV lines (with EVS), 530 TV lines (without EVS)         1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s         50 to 6000 Hz		
Video performance Recording format Record/playback tim Fast forward time Rewind time Recommended recor Sampling frequency Quantization Audio performance Frequency response Dynamic range Distortion (at 1 kHz, e Built-in LCD monitor Viewfinder CRT Indicators Horizontal resolution Microphone Eco-info	Sensitivity Minimum illumination Smear level Video S/N ratio Horizontal resolution Vertical resolution Shutter speed ECS Slow shutter Gain selection Video Audio e 	F11 (typical) (2000 I           0.5 tx (F1.4 lens, +36 dB gain, shutter off)           0.03 lx (with slow shutter, 16 frames accumulation)           -140 dE           63 dB           850 TV lines (4:3 mode), 800 TV lines (16:9 mode)           480 TV lines (with EVS) and 530 TV lines at 625/25P mode           1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/50i mode           50 to 6000 Hz at 625/50 mode           50 to 6000 Hz at 625/25P mode           1/25, 1/12.5, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode           50 to 6000 Hz at 625/25P mode           1/25, 1/12.5, 1/8.3, 1/5, 1/4.2, 1/3.6, 1/3., 1/1.6 s (1 to 8, 16 frames)           -3, 0, 3, 6, 9, 12, 18, 24, 30, 36 dB (for           DVCAM/DV (           2 ch/16-bit/48 kHz, 2 ch/12-bit/32 kHz,           Approx. 45 s (with the PDVM-40ME), at           PDV-184ME/124ME/9	0.13         x, 89.9% reflectance)         0.5 lx (F1.4 lens, +36 dB gain, shutter off)         (typical)         1         920 TV lines         480 TV lines (with EVS), 530 TV lines (without EVS)         1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s         50 to 6000 Hz         -         GAIN LOW, GAIN MID, GAIN HIGH and GAIN TURBO positions)         SP) (25 Mb/s)         4 ch/12-bit/32 kHz (for use with a studio VTR)         ), DV SP: 276 min (with the PDV-184ME)         oprox. 2 min 30 s (with the PDV-184ME)         yoprox. 2 min 30 s (with the PDV-184ME)         /34ME/184N/124N/94N/64N/34N,         Z/34ME/184N/124N/94N/64N/34N,         Z/34ME/184N/124N/94N/64N/34N,         Z/34ME/184N/124N/94N/64N/34N,         Z/34ME/184N/124N/94N/64N/34N,         Z/34ME/184N/124N/94N/64N/34N,         Z/34ME/184N/124N/94N/64N/34N,         Z/34ME/184N/124N/94N/64N/34N,         Z/34ME         32 kHz: 20 Hz to 14.5 kHz +0.5/-1.0 dB         an 80 dB         z, reference level, 48 kHz)         assolution: 214,000 (964 x 222) pixels         monochrome         ', BATT, SHUTTER, GAIN UP         V lines         crophone (detachable)         II the parts includin		
Video performance Recording format Record/playback tim Fast forward time Rewind time Recommended recor Sampling frequency Quantization Audio performance Frequency response Distortion (at 1 kHz, e Built-in LCD monitor Viewfinder CRT Indicators Horizontal resolution Microphone Eco-info	Sensitivity Minimum illumination Smear level Video S/N ratio Horizontal resolution Vertical resolution Shutter speed ECS Slow shutter Gain selection Video Audio e  rding media	F11 (typical) (2000 I           0.5 tx (F1.4 lens, +36 dB gain, shutter off)           0.03 lx (with slow shutter, 16 frames accumulation)           -140 dE           63 dB           850 TV lines (4:3 mode), 800 TV lines (16:9 mode)           480 TV lines (with EVS) and 530 TV lines (without EVS) at 625/50i mode           1760, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/50i mode           1733, 1/50, 1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/25P mode           50 to 6000 Hz at 625/50i mode           25 to 6000 Hz at 625/25P mode           1/25, 1/12.5, 1/8.3, 1/6.3, 1/5, 1/4.2, 1/3.6, 1/3., 1/1.6 s (1 to 8, 16 frames)           -3, 0, 3, 6, 9, 12, 18, 24, 30, 36 dB (for           DVCAM/DV (           2 ch/16-bit/48 kHz, 2 ch/12-bit/32 kHz,	0.13         x, 89.9% reflectance)         0.5 lx (F1.4 lens, +36 dB gain, shutter off)         (typical)         1         920 TV lines         480 TV lines (with EVS), 530 TV lines (without EVS)         1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s         50 to 6000 Hz         -         GAIN LOW, GAIN MID, GAIN HIGH and GAIN TURBO positions)         SP) (25 Mb/s)         4 ch/12-bit/32 kHz (for use with a studio VTR)         ), DV SP: 276 min (with the PDV-184ME)         pprox. 2 min 30 s (with the PDV-184ME)         34ME/184N/124N/94N/64N/34N,         Z/34ME/184N/124N/94N/64N/34N,         Z/34ME/184N/124		



# DSR-250P/DSR-PD170P Camcorders

	DSR-250P	DSR-PD170P	
General			
Power requirements	DC 12 V(11 V to 17 V)	DC 7.2 V (Battery), DC 8.4 V (AC adaptor)	
Power consumption	10.5 W ( with VF), 12.1 W ( with VF and LCD)	4.7 W (with VF), 5.7 W (with VF and LCD)	
Operating temperature			
Storage temperature	-20 C to 0 40 F)		
	Approx. 28.2 mm/ Approx. 18.8 mm	s (DVCAM mode) //s (DV SP mode)	
Recording/Playback time	184 minutes (DVCAM mode), 270 minutes (DV SP mode with PDV-184MB) cassette, 40 minutes (DVCAM mode) 60 minutes (DV SP mode with PDVM-40ME)	40 minutes (DVCAM mode) 60 minutes (DV SP mode, with PDVM-40ME)	
Mass	Approx. 4.4 kg (9 lb 11 oz)	(camcorder only) Approx. 1.6 kg (3 lb 8 oz)	
Dimensions (W x H x D)	214.7 x 251.25 x 508.8 mm (9 5/8 x 10 x 20 1/8 inches)	133 x 180 x 456 mm (5 1/4 x 7 1/8 x 18 inches) including microphone	
Lens			
Zoom	12:1 Variable Sp F =6.0 to 72.0 r	peed zoom lens nm; F1.6 to 2.4	
Filter diameter	58 mm (2 3	3/8 inches)	
Focus	Auto/Manual (ring)/In	finity/One push auto	
Camera			
Image device	Three 1/3-inch type C	CCDs, 450,000 pixels	
Signal system	CCIR Standard, P	AL colour system	
Scanning system	Progressive/Ir	nterlace Scan	
Horizontal resolution	530 TV	/ lines	
Minimum illumination	2 lx	1 lx	
Gain selection	+0, +3, +6, +9, +	12, +15, +18 dB	
Shutter speed selection	1/3, 1/6, 1/12, 1/25, 1/50, 1/60, 1/10/ 1/600, 1/1000, 1/1250, 1/1750, 1/	0, 1/120, 1/150, 1/215, 1/300, 1/425, /2500, 1/3500, 1/6000, 1/10000 s	
Exposure	Auto/Manual (Iris ring)	Auto/Manual (Iris dial)	
White balance	Auto/One-push(Memory A, B)/Out door(5800 K)/Indoor(3200 K)	Auto/One-push/Outdoor(5800K)/Indoor(3200K)	
Viewfinder	1.5-inch black and white CRT, Zebra Pattern	180,000 dot Black & White LCD, Zebra Pattern	
Built-in microphone	-	-	
Built-in speaker	Dynamic	speaker	
LCD	TFT Active Matrix 2.5-inch type, 200,640 dots (880 x 228)	Hybrid, 2.5-inch type, 211,200 dots (960 x 220)	
Memory card slot	Memor Recording signals: Cam Image compr Image size: VC	y Stick era signals, VTR signals ession: JPEG GA (640 x 480)	
Input/Output Connectors			
Signal inputs/outputs	Video IN/OUT: RCA pin x 1, Y:1 Vp-p, 75 Ω, unbalanced, sync negative Video OUT: BNC pin x 1, Y:1 Vp-p, 75Ω , unbalanced, sync negative Audio IN/OUT: RCA pin x 2,245 m Output impedance with less than 2.2 kΩ Input impedance with more than 47 kΩ S-Video IN/OUT: Mini-DIN 4 pin x 1 Y:1 Vp-p, 75 Ω, unbalanced, C: 0.3 Vp-p Audio IN: XLR 3-pin (female) x 3, -60 dBu, 6.8 kΩ, +4 dBu, 6.8 kΩ (0 dBu = 0.775 V rms) i.LINK (DV): 6 pin (with lock) x 1	Video IN/OUT: RCA pin x 1 Y: 1 Vp-p, 75 Ω, unbalanced, sync negative Audio IN/OUT: RCA pin x 2, 327 mV Output impedance with less than 2.2 k Input impedance with more than 47 k S-Video IN/OUT: Mini-DIN 4 pin x 1 Y: 1 Vp-p, 75 Ω, unbalanced C: 0.3 Vp-p Audio IN: XLR 3-pin female x 2, -60 dBu, 3 kΩ, +4 dBu, 10 kΩ (0 dBu = 0.775 V rms) i.LINK (DV): 4-pin x 1	
Others	LANC: Stereo mini-mini jack (0.25 mm) x 1 Headphone: Stereo mini jack (0.35 mm) x 1 External DC IN: 12 V, XLR 4-pin (male) DC OUT for Light: 12 V, max. 30 W DC OUT: 12 V, 4 pin	LANC: Stereo mini-mini jack (0.25 mm) x 1 Headphone: Stereo mini jack (0.35 mm) x 1 External DC IN: 8.4 V for AC-L10 AC adaptor	
Supplied Accessories			
	ECM-NV1 Monaural Microphone RMT-811 Remote Commander and R6 Batteries (2) Hood Cap	ECM-NV1 Monaural Microphone AC-L15 AC Adaptor NP-F570 InfoLITHUM Rechargeable Battery Pack RMT-811 Remote Commander and B6 Batteries (2) VCL-HG0758 Wide Conversion Lens LSF-S58 Lens Hood for Wide Conversion Lens and Hood Cap Lens Hood with Built-in Lens Cap Carrying Belt i.LINK Cable Strap Stereo AV Cable	

# DSR-2000AP/DSR-1800AP/DSR-1600AP/DSR-1500AP Studio VTRs

	DSR-2000AP	DSR-1800AP	DSR-1600AP	DSR-1500AP
General Power requirements		۸ <u>۲ ۱۵۵ ۷ to ۵</u>	40 V 50/60 Hz	
Power consumption (Max.)	120 W	100 W	70 W	55 W
Operating temperature		5 °C to 40 °C (4	11 °F to 104 °F)	
Operating humidity		-20 C to 80 C	an 80%	
Storage humidity	Less than 90%			
Recording/Playback time	28.221 mm/s Standard size: 184 min.(DVCAM mode). 276 min.(DV SP mode)* with PDV-184MF/184N/184MFM.			
5 1/2 1/2	Mini size: 40 min.(DVCAM mode), 60 min.(DV SP mode)* with PDVM-40ME/40N/40MEM			
Fast forward/Rewind time Search speed	Standard size: Less that	n 3 min. with PDV-184ME/184N/184MEM, Mini s	size: Less than 1 min. with PDVM-40ME/40N/40	JMEM
	still to ±60 times normal speed Digital slow mode: ±1 times normal speed		Shuttle mode: still to $\pm 60$ times normal speed Digital slow mode: $\pm 0.5$ times normal speed	
Mass	18 kg (39 lb 10 oz)	13 kg (28	lb 10 oz)	6 kg (13 lb 3 oz)
Dimensions (W x H x D, excluding projections) Video Performance	427 x 175 x 495.5 mm (16 7/8 x 7 x 19 5/8 inches)	427 x 174 (16 7/8 x 6 7/8 x	x 400 mm x 15 3/4 inches)	210 x 130 x 420 mm (8 3/8 x 5 1/8 x 16 5/8 inches)
Bandwidth Luminance	25 Hz to 5.0 MHz ±1.0dB	25 Hz to 5.0	MHz ±1.0 dB	25 Hz to 5.0 MHz +1.0/-1.5 dB
component I/O)	(Typical measurement)			
Chrominance S/N ratio (via analogue component I/O)		25 Hz to 2.0 MH	tz + 1.0/-2.0 dB	
K-factor (K2T, KPB)		Less that	an 2.0%	
Y/C delay		Less that	an 30 ns	
Frequency response				
2 CH mode (48 kHz/16-bit) 4 CH mode (32 kHz/12-bit)		20 Hz to 20 kHz +0.5/-1.0 dB		20 Hz to 20 kHz ±1.0 dB 20 Hz to 14.5 kHz ±1.0 dB
Dynamic range		More than 90 dB		More than 87 dB
Distortion (THD+N)		Less than 0.05%		Less than 0.07%
Analogue				
Ref. Video	0.3 Vp-p, 75 Ω	, sync negative	—	0.3Vp-p, 75Ω , sync negative
Video (BNC x2, loop-through connection) <sup>11</sup>	Composite, 1.0 Vp-p,	75 $\Omega$ , sync negative	_	Composite, 1.0 Vp-p, 75 Ω,
Component Y	1 0 Vp-p 75 9	sync negative		sync negative
(BNC x3) T	0.7 Vp-p, 75	Ω (100 %)	_	0.7 Vp-p, 75 Ω (100 %)
B-Y S-Video	0.7 Vp-p, 75	Ω (100 %)		0.7 Vp-p, 75 Ω (100 %) BNC x 2
	Y: 1.0 Vp-p, 75 Ω C: 0.3 Vp-p, 75 Ω	2 , sync negative 2 (at burst level)		Y: 1.0 Vp-p, 75 Ω , sync negative C: 0.3 Vp-p, 75 Ω (at burst level)
Digital	BNC x 2 active-th	rough connection		BNC v 1
	Conforms to Serial Digi	ital Interface (270 Mb/s), ITU-R BT.656		Conforms to Serial Digital Interface (270 Mb/s), ITU-RBT.656
SDTI (QSDI) (BNC x1) 3	Conforms to SDTI (270 Mb/s), SMPTE 305M/322M	_	_	Conforms to SDTI (270 Mb/s), SMPTE 305M/322M
i.LINK (DV) (6-pin x1)	IEEE	1394 BNO 0 OMPTE 000M	_	IEEE1394
Audio Signal Inputs		BING X 2, SMIPTE-292M		
Analogue	VID 0 min	famala vi		VID 0 pip famala v0
Audio	-6/0/+4 dBu, 600 Ω on/off/	-6/-3/0/+4 dBu, 600 Ω on/off/	_	-6/-3/0/+4 dBu,
Digital	-60 dBu, high impedance	-60 dBu, high impedance		high impedance
AES/EBU "2."3	BNC	x 2	-	BNC x 2
Video Signal Outputs	75 Ω , unl	balanced		75 Ω , unbalanced
Analogue				
Ref. Video (BNC x1)	Video 1/2/3 (super) BNC x 3	0.3 Vp-p, 75 Ω , sync negative	per) BNC x 2	Video 1/2/3 (super) BNC x 3
		Composite, 1.0 Vp-p,	75 Ω , sync negative	
Component (BNC x3) S-Video		Y: 1.0 Vp-p, 75 Ω , sync negative R-Y: 0.7 Vp DIN 4-pin x 1	-p, 75 Ω (100%) B-Y: 0.7 Vp-p, 75 Ω (1009	%) BNC × 2
	, ,	Y: 1.0 Vp-p, 75 Ω , sync negative C: 0.3 Vp-p, 7	5 Ω (at burst level)	,
Digital SDI 2.3	BNC × 3		BNC × 2	
		Conforms to Serial Digit	al Interface (270 Mb/s), ITU-R BT.656	
SUTI (QSDI) 3	BNC x 1	Conforms to SDTI /270	- Mb/s), SMPTE 305M/322M	BNC x 2
i.LINK (DV) (6-pin x1)		IEEE	1394	
Audio Signal Outputs				
Audio		XLR 3-pin male x4		XLR 3-pin male x2
	-6/0/+4 dBu (selectable by menu) 600Ω loading, low impedance, balanced	-6/-3/0/+4 dBu (se	electable by menu)	
Monitor	Phono x 1		RCA x1	
	-9 dBu, 47 kΩ , unbalanced (-18 dBFS)	-9 dBu, unbalanced	47 kΩ , (-18 dBFS)	-∞to -9 dBu, 47 kΩ , unbalanced (-18 dBFS)
Headphone	-∞to -11 dBu, 8 Ω ,	-∞to -11 (	dBu, 8 Ω,	-∞to -11 dBu, 8 Ω ,
Digital	unparanced (-18 dBFS)	unpalanced	(-10 UDF3)	unbalanced (-18 dBFS)
AES/EBU "2,"3		BNC x 2 75 s	2, unbalanced	
In (BNC x1)		0.5 Vp-p to 18 Vn-n.	3.3 kΩ , unbalanced	
Out (BNC x1)		2.2 Vp-p, 75 Ω	2, unbalanced	
Remote	RS-422A; D-sub 9-pin female x2	RS-499A. D-sub	9-pin female x1	RS-422A; D-sub 9-nin female x1
	Video Control: D-sub 15-pin male x1	Video Control: D-su	ub 15-pin male x1	Control S (SIRCS): Stereo mini jack x1
Supplied Accessories	Control Pariel: D-sub 15-pin female x1	Control S (SIRCS):		
	AC Power Cord BCC-5G 9-pin Remote Control Cable	AC Pow	rer Cord Juctions (CD-B)	
	Operating Instructions (CD-R)			
L	1			

\*1: The DSR-1500AP only for recording and playback. The optional DSBK-1504 is required for the DSR-1500AP.
\*2: The optional DSBK1801 is required for the DSR-1800AP.
\*3: The optional DSBK-1601 is required for the DSR-1500AP.
\*4: The optional DSBK-1601 is required for the DSR-2000AP and DSBK-1820 for the DSR-1800AP.

# DSR-45P/DSR-25/DSR-11 Studio VTRs

		DSB-45P	DSB-25	DSB-11			
General			50.120	201111			
System		PAL	NTSC/PAL	Switchable			
Power requirements		AC100 to 240V, 50 to 60Hz	AC100 to 240V, 50 to 60Hz	AC100 to 240V, 50 to 60Hz			
Power consumption		22 W	16 W	15 W			
Operating temperature			5 °C to 40 °C (41 °F to 104 °F)				
Storage temperature			-20 °C to 60 °C (-4 °F to 140 °F)				
Tape speed	DVCAM mode		28.2 mm/s				
	DV SP mode		18.8 mm/s				
Recording/Playback time	Standard size	184 min. with PDV-184ME/184N/184MEM					
in DVCAM mode	Mini size		40 min. with PDVM-40ME/40N/40MEM				
Tape rewind time		Less than 2 min. with PD	V-184ME/184N/184MEM	-			
Search speed		When controlling via optional DSRM-20: or supplied RMT-DS5 ± x1/10, x1/3, x1,x2,x11, x17 (DVCAM) ± x1/10, x1/3, x1,x2,x11, x24 (DV SP)	When controlling via optional DSRM-20 or supplied RMT-DS5: ± x1/10, x1/3, x1,x2,x9, x14 (DVCAM NTSC) ± x1/10, x1/3, x1,x2,x9, x24 (DV SP NTSC) ± x1/10, x1/3, x1,x2,x11, x17 (DVCAM PAL) ± x1/10, x1/3, x1,x2,x11, x24 (DV SP PAL)	When controlling via optional DSRM-20 or supplied RMT-DS11: ± x1/10, x1/3, x1,x2,x9, x14 (DVCAM NTSC) ± x1/10, x1/3, x1,x2,x9, x24 (DV SP NTSC) ± x1/10, x1/3, x1,x2,x11, x17 (DVCAM PAL) ± x1/10, x1/3, x1,x2,x11, x24 (DV SP PAL)			
Mass		Approx. 4.6 kg (10 lb 2 oz)	Approx. 4.3 kg (9 lb 8 oz)	Approx. 2.8 kg (6 lb 2 oz)			
Dimensions (W x H x D, including proje	ections)	212 x 98 x 392.8 mm (8 3/8 x 3 7/8 x 15 1/2 inches)	212 x 98 x 392.8 mm (8 3/8 x 3 7/8 x 15 1/2 inches)	180 x 73 x 265 mm (7 1/8 x 2 7/8 x 10 1/2 inches)			
Video Signal Inputs							
Rec mode		DVCAM/DV (SP mode only)	DVCAM/DV (	SP mode only)			
PB mode			DVCAM/DV (SP mode only)				
Ref. Video		BNC x1 'Black burst: 75 Ω , sync negative	<b>D</b> 10 4	-			
Composite		1.0Vp-p, 75 Ω , Sync Negative	1.0Vp-p, 75 Ω , Sync Negative	1.0Vp-p, 75 Ω , Sync Negative			
S-Video		Y: 1.0Vp-p (subcarrier burst) 75 Ω	4-pint minut plin (x1) Y: 1.0Vp-p, 75 Ω, Sync Negative C: 0.286Vp-p (NTSC Mode)(subcarrier burst) 75 Ω C: 0.3Vp-p (PAL Mode)(subcarrier burst) 75 Ω	$\begin{array}{c} \begin{array}{c} \text{4-pin frim } \Omega, \text{Work}(X) \\ \text{Y: } 1.0V_{\text{P}-P}, 75 \Omega, \text{Sync Negative} \\ \text{C: } 0.286V_{\text{P}-P} (\text{NTSC Mode}) (subcarrier burst) 75 \Omega \\ \text{C: } 0.3V_{\text{P}-P} (\text{PAL Mode}) (subcarrier burst) 75 \Omega \end{array}$			
Component		BNC x3 Y: 1.0 Vp-p, 75 Ω , sync negative R-Y/B-Y: 0.7 Vp-p, 75 Ω , (with 100 % colour bar)					
Audio Signal Inputs				1			
Audio		PIN Jack x4 -10/-2/+4 dBu (full bits -18dB)	PIN Jack (L/R x1) -10/-2/+4 dBu (full bits -20dB)	PIN Jack (L/R x1) 2 Vrms (full bits)			
Video Signal Outputs							
Composite		BNCx1 1.0Vp-p, 75 Ω , Sync Negative	${\sf BNCx1}$ 1.0Vp-p, 75 $\Omega$ , Sync Negative	PIN Jack x1 1.0Vp-p, 75 Ω , Sync Negative			
S-Video		4-pin mini DIN (x1) Y: 1.0Vp-p, 75 Ω, Sync Negative C: 0.3Vp-p (subcarrier burst) 75 Ω	4-pin mini DIN (x1) Y: 1.0Vp-p, 75 $\Omega$ , Sync Negative C: 0.286Vp-p (NTSC Mode)(subcarrier burst) 75 $\Omega$ C: 0.3Vp-p (PAL Mode)(subcarrier burst) 75 $\Omega$	$\begin{array}{c} -\text{cpin mini DIN (x1)} \\ Y: 1.0Vp-p, 75 \Omega, Sync Negative \\ C: 0.286Vp-p (NTSC Mode)(subcarrier burst) 75 \Omega \\ C: 0.3Vp-p (PAL Mode)(subcarrier burst) 75 \Omega \end{array}$			
Component		BNC x3, Y: 1.0 Vp-p, 75 $\Omega$ , sync negative R-Y/B-Y: 0.7 Vp-p, 75 $\Omega$ , (with 100 % colour bar)		_			
Monitor		PIN Jack x1, 1.0Vp-p, 75 $\Omega$ , Sync Negative		_			
Audio Signal Outputs							
Audio		XLR 3pin x4 (Male) +4dBu(full bits -18dB) <sup>∞</sup>	PIN Jack (L/R x1) 2 Vrms (full bits)	PIN Jack (L/R x1) 2 Vrms (full bits)			
Monitor		PIN Jack x1, 2 Vrms (maximum)		-			
Digital Input/Output							
i.LINK (DV)			4-pin x1, IEEE1394				
Time Code Input/Output							
In		BNC x1, 0.5 to 18 Vp-p (time code input), 0.5 to 4 Vp-p (through output)	· _				
Out		BNC x1, 2.2 Vp-p, 600 Ω /1.2 Vp-p, 75 Ω , 0.5 to 4 Vp-p (through output)		_			
Utners							
LCD Monitor		LANC: Stereo mini-mini jack x1 Control S <sup>a</sup> (SIRCS) In: Stereo mini jack x1 Headphone: Stereo mini jack x1 RS-422A: D-sub 9-pin female x1 RS-232C: D-sub 9-pin male x1 2-inch type, 123,200 dots	LANC: Stereo mini-mini jack x1 Control 5'3 (SIRCS) In: Stereo mini jack x1 Headphone: Stereo mini jack x1 2-inch type, 123,200 dots	LANC: Stereo mini-mini jack x1 Control S <sup>a</sup> (SIRCS): Stereo mini jack x1 —			
Supplied Accessories							
		RMT-DS5 wireless Remote Controller Size AA (R6) Battery for Remote (2) AC Power Cord Cleaning Cassette Operating Manual Interface Manual for Programmers (RS-232C)	RMT-DS5 Wireless Remote Controller Size AA (R6) Batteries for Remote (2) AC Power Cord Cleaning Cassette Operating Manual	AC Adaptor, Power Controller RMT-DS11 Wireless Remote Commander Size AA (R6) Batteries for Remote (2) Cleaning Cassette Operating Manual Rack			

\*1 Shared between composite IN and REF-IN.
\*2 The audio output level of the DSR-45P will be reduced by half when connected to an Unbalanced XLR input device.
\*3 Recommended remote control unit: DSRM-20
\*4 Priority on front LANC.



# **DSR-50P** Portable Recorder

General	
DC input	XLR 4-pin (male), +12 V
Power consumption	15 W
Operating temperature	5 °C to 40 °C (41 °F to 104 °F)
Storage temperature	-20 °C to 60 °C (-4 °F to 140 °F)
Tape speed	Approx. 28.2 mm/s (DVCAM mode), Approx. 18.8 mm/s (DV SP mode)
Recording/Playback time	184 minutes (DVCAM mode), 270 minutes (DV SP mode), with PDV-184ME cassette
	40 minutes (DVCAM mode), 60 minutes (DV SP mode), with PDVM-40ME cassette
Mass	3.9 kg (8 lb 9 oz), excluding battery and tape
Dimensions (W x H x D)	247 x 92.5 x 311 mm (9 3/4 x 3 3/4 x 12 1/4 inches), excluding projections 279 x 99 x 315 mm (11 x 4 x 12 1/2 inches), including projections
Video	
Recording mode	DVCAM/DV (SP mode only)
Playback mode	DVCAM/DV (SP mode only)
Audio	
Recording mode	48.0 kHz/16-bit (2CH)/ 32.0 kHz/12-bit (4CH)/automatic (DV IN)
Playback mode	48.0 kHz/16-bit (2CH)/32.0 kHz/12-bit (4CH)/ 32.0 kHz/16-bit (2CH)/44.1 kHz/16-bit (2CH) (automatically selected)
Input/Output Terminals	
Video IN Composite	1.0 Vp-p, 75 $\Omega$ , Sync negative
S (4-pin mini DIN)	Y: 1.0 Vp-p, 75 $\Omega$ , Sync negative C: 0.3 Vp-p (subcarrier burst) 75 $\Omega$

Audio IN	XLR 3-pin (female) (+4 dBu/-20 dBu/-60 dBu) x 4, impedance more than 3 k $\Omega$ with +48 V power supply (independently switched for each channel)
Camera IN	26-pin camera connector
Composite	1.0 Vp-p, 75 $\Omega$ , Sync negative
Component	Y: 1.0 Vp-p, 75 $\Omega$ , Sync negative B-Y: 0.7 Vp-p, 75 $\Omega$ , R-Y: 0.7 Vp-p, 75 $\Omega$
Reference IN	BNC, Black Burst 75 $\Omega$ , Sync negative (use Video IN)
Video OUT 1 (Monitor)	BNC, 1.0 Vp-p, 75 $\Omega$ , Sync negative Composite Superimpose On/Off
Video OUT 2 Composite	BNC, 1.0 Vp-p, 75 $\Omega$ , Sync negative
S (4-pin mini DIN)	Y: 1.0 Vp-p, 75 $\Omega$ , Sync negative C: 0.3 Vp-p (subcarrier burst) 75 $\Omega$
Component OUT	BNC x 3 Y: 1.0 Vp-p, 75 Ω , Sync negative B-Y/R-Y: 0.7 Vp-p, 75 Ω
Audio OUT	PIN Jack x 4, -10 dBu Standard output level -18 dB from full bit
Audio OUT (Monitor)	PIN Jack
DV IN/OUT	6-pin (with lock)
Timecode IN	BNC, 0.5 to 18 Vp-p, 10 kΩ
Timecode OUT	BNC, 2.2 Vp-p, 600 Ω /1.2 Vp-p, 75 Ω
Control S	Stereo mini jack
Remote	Stereo mini jack (Edge High/Edge Low/ Level High/Level Low) (Tally)
Control	Stereo mini-mini jack (compatible with LANC as a player)
Headphone jack (left side)	Stereo standard jack, -19 dBu, Control with Level
Other	
Colour LCD monitor	2.5-inch type, 200,000 dots
Supplied accessories	LCD Protection Cover, Cleaning Cassette

# DSR-DR1000AP Hard Disk Recorder

Genera		
Power r	equirements	AC 100 V to 240 V, 50/60 Hz
Power of	consumption	75 W
Recordi	ng Time	Up to 12 hours
Hard Dr	ive	160GB
Operati	ng temperature	5 °C to 40 °C (41 °F to 104 °F)
Storage	temperature	-20 °C to 60 °C (-4 °F to 140 °F)
Operati	ng humidity	Less than 80%
Storage	humidity	Less than 90%
Mass		7.5 kg (16 lb 10 oz)
Dimens	ions (W x H x D)	210 x 130 x 422 mm (8 3/8 x 5 1/8 x 16 5/8 inches, without projection)
Video F	Performance	
Bandwi (via anal	dth ogue component I/O)	Luminance         25 Hz to 5.0 MHz ±1.0           Chrominance         25 Hz to 2.0 MHz +1.0/-2.0 dB
S/N rati (via analo	o ogue component I/O)	More than 54 dB
K-facto	r (K2T, KPB)	Less than 2.0%
Y/C del	ay	Less than 30 ns
Audio F	Performance	
Frequer	ncy response	2CH mode (48 kHz/16-bit) 20 Hz to 20 kHz ±1.0 dB 4CH mode (32 kHz/12-bit) 20 Hz to 14.5 kHz ±1.0 dB
Dynami	c range	More than 87 dB
Distortio	on (THD + N)	Less than 0.07% (48 kHz)
Video S	ignal Inputs	
Analog	le	
REF. Vi	deo (BNC x 2)	0.3 Vp-p, 75 Ω sync negative
Compos loop-thr	ite Video (BNC x 2), rough connection <sup>*1</sup>	1.0 Vp-p, 75 $\Omega$ , sync negative
Compo	nent (BNC x 3) <sup>™</sup>	Y: 1.0 Vp-p, 75 Ω , sync negative R-Y: 0.7 Vp-p, 75 Ω (100% colour bar) B-Y: 0.7 Vp-p, 75 Ω (100% colour bar)
S-Video	(BNC x 2) <sup>-1</sup>	Y: 1.0 Vp-p, 75 $\Omega$ , sync negative C: 0.3 Vp-p, 75 $\Omega$ (at burst level)
Digital		
SDI (BN	IC x 1)	Conforms to Serial Digital Interface (270 Mb/s), ITU-R BT.656
i.LINK(D	V) (6-pin x 1)	IEEE 1394-based

Audio Signal Inputs	
Analogue	
Audio (XLR 3-pin female x 2)	-6/-3/+4 dBu (selectable by menu), high impedance
Digital	· · · · · ·
AES/EBU (BNC x 2)	75 Ω, unbalanced
Video Signal Outputs	
Analogue	
Composite 1/2(SUPER) (BNC x2)*2	1.0 Vp-p, 75 $\Omega$ , sync negative
Component (BNC x 3) <sup>2</sup>	Y: 1.0 Vp-p, 75 Ω, sync negative
	R-Y: 0.7 Vp-p, 75 Ω (100% colour bar)
	B-Y: 0.7 Vp-p, 75 Ω (100% colour bar)
S-Video (BNC x 2) <sup>2</sup>	Y: 1.0 Vp-p, 75 Ω, sync negative
	C: 0.3 Vp-p, 75 Ω (at burst level)
Digital	
SDI (BNC x 2)	Conforms to Serial Digital Interface (270 Mb/s), ITU-R BT.656
i.LINK (DV) (6-pin x 1)	IEEE 1394-based
Audio Signal Outputs	
Analogue	
Audio (XLR 3-pin male x 2)	-6/0/+4 dBu (selectable by menu)
Monitor (RCA x 1) <sup>3</sup>	- ∞to -9 dBu, 47 k $\Omega$ , unbalanced (-18 dBFS)
Headphone (JM-60 headphone jack x 1)	- $\infty to$ -11 dBu, 8 $\Omega$ , unbalanced (-18 dBFS)
Digital	
AES/EBU (BNC x 2)	75 $\Omega$ , unbalanced
Time Code	
Time Code In (BNC x 1)	0.5 Vp-p to 18.0 Vp-p, 3 k $\Omega$ , unbalanced
Time Code Out (BNC x 1)	2.2 Vp-p, 600 $\Omega$ , unbalanced
Remote	
RS-422A	D-sub 9-pin, female x 2
Control	Mini jack x 1
Network	
Ethernet (x 1)	10/100 Base-T Ethernet, RJ-45 modular jack
Supplied Accessories	
	AC power cord x 1, RM-LG2 (Remote Control Unit) x 1, Operation manual (CD-ROM) x 1, Warranty card x 1

\*1: Composite, Component and S-video inputs share the same BNC connectors.
\*2: Composite, Component and S-video outputs share the same BNC connectors.
\*3: The volume of monitor can be controlled by the PHONE LEVEL control knob.

#### HVR-M10E



DSR-50P



DSR-1600AP



DSR-1800AP





DSR-2000AP

**SPECIFICATIONS** 

VTR Rear connector panels



DSR-1500AP



ö Ö ٥



DSR-25



DSR-45P



DSR-DR1000AP



# SONY



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