DVCAM FAMILY CATALOGUE 2003/2004



CHANGING



THE WAY



BUSINESS



COMMUNICATES

SONY.

Introduction

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[™] 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 program playout has led to the rapid acceptance of DVCAM by business users, production facilities and broad-casters around the world.

Many new models have been added to the DSR Series of DVCAM equipment, broadening the range of applications in ENG, field acquisition/editing, simple editing and so on.

Select from the Sony DVCAM lineup and you will be choosing innovative equipment to bring both new solutions to your production demands and added performance benefits to your system.

For more information, please visit our website: www.sonybiz.net/dvcam



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CREATV USES THE NEW DSR-DR1000P DVCAM HARD DISK RECORDER ON ITS COVERAGE OF BLACKBURN ROVERS AND OTHER SPORTING EVENTS



Professional video production is now seeking lower-cost equipment that will bring an increase in production efficiency and a reduction in running costs. OB outfit CREATV Broadcast is no exception. Chief executive Alan Yardley is hoping that a new, low-cost DVCAMbased server will enable his facility to broadcast up to 50 hours of weekly coverage during this year's Royal Ascot event.

Using two DSR-DR1000P DVCAM hard disk recorders, Yardley's company has the contract to take live feeds from the race, mix them and show them to thousands of spectators via Ascot Race Course's internal TV system.

Yardley explains that the VTR-like server – which has a capacity of 80 GB (or over six hours) of DVCAM stream video and four channels of audio – enables quick and easy handling of footage through random access and offers simultaneous recording and playback facilities. CREATV is also taking advantage of the recorder's channels of embedded audio by operating a restrictive radio system from the course with up-to-the minute news on betting and travel.

Yardley points out that the compact size (7.5 kg) of the new recorders means that CREATV can easily fit two recorders into one rack of an OB unit and can be used to perform tasks normally associated with high-end hard disk recorders such as the MAV-555. Yardley also operates Blackburn Rovers' internal TV system, Rovervision, and it was the useful functionality of the MAV-555 to provide instant and perfect slow-motion replays of goals when playing at their Ewood Park ground in Blackburn that persuaded him to look towards a more mobile option for Rovers' away games.

He says: "The compact size of the recorder was ideal to fit into a mobile unit and the two units provide similar functionality to one MAV-555."

Both the MAV-555 and the DSR-DR1000P are controlled by Ashvale's AVM4-2 Controller which lends it the ability to create clips and playback simultaneously. Yardley predicts that with these capabilities, his production unit will be able to cut down on tape stock and record more output.

"The DSR-DR1000P will eventually replace traditional analogue systems and allow instant access to replays while still maintaining the recordings," he says.

The recorder can be used for other applications including playout of commercial spots, as a simple back-up disk server and for transferring material on a network via Ethernet or at up to four times real time via i.Link.

CREATV is also expanding the function of its Betacam SX cameras by attaching one of its three cameras to the Studio Triax Camera system so that it can be used as a fully professional studio camera.

Rovervision provides a sophisticated pre-match magazine show, with player interviews, features and previous match action, which is broadcast throughout the Ewood Park complex and on to a Sony Jumbotron screen within the stadium. The outfit also provides live coverage of the game, with half-time highlights to boot.

AT ICC CRICKET WORLD CUP 2003



SABC USES 28 DVCAM HARD DISK RECORDERS FOR OUTSIDE BROADCAST VEHICLES AND PORTABLE KITS

Broadcasting to an estimated 1.5 billion viewers worldwide, the ICC World Cup 2003 was a major event for South Africa's national public service broadcaster, SABC, and its outside broadcast division, AirTime. At the heart of AirTime's World Cup coverage was an 18-camera vehicle with sophisticated digital switching and mixing facilities.

"Two years in the planning, the new vehicle is the flagship of AirTime TV Outside Broadcasts' fleet and is adaptable to all types of productions from live sport to major musical concerts," says SABC Engineering Services broadcast consultant, Ivan Marsh.

Eight DSR-DR1000P DVCAM hard-disk recorders were included in the vehicle, primarily for the Cricket World Cup where they quickly proved to be invaluable.

The DSR-DR1000P units allow full-function playback (including slow motion) whilst recording continues uninterrupted. During World Cup matches, six cameras were each slaved to a DSR-DR1000P – four line cameras and two mat cameras directly opposite the stump positions. The high quality digital jog sound and smooth slow-motion playback (over a speed range of +/- 200%) enabled the third umpire to make conclusive lbw and run-out decisions. Other DSR-DR1000P units were used for recording, editing and playing back highlights packages during half-time breaks. Once 'in' and 'out' points are marked, the clip segment playback (CSP) feature enables continuous playback of the selected clips with seamless transitions.



The Cricket World Cup set-up has become standard for all AirTime's cricket coverage, with the DSR-DR1000P also proving popular for other sports events such as soccer, rugby, athletics etc.

"We first saw the DSR-DR1000P at IBC 2002", commented Manny Coelho, High Technology Manager at AirTime. "During the ICC Cricket World Cup they proved themselves an ideal recording and playback solution. They give us the benefits of disk-based recording while retaining the operational feel of a VTR – complete with jog/shuttle dial."

The DSR-DR1000P World Cup performance led AirTime to place an order for another twenty DSR-DR1000P units, not only for other outside broadcast vehicles but also in fly-away kits for covering remote events. In this application, the major advantage of the DSR-DR1000P is its modest weight (6kg). Five DSR-DR1000 units weigh approximately the same as a single BVW-75 VTR (30kg). Initial concerns about possible damage to the disk array during travel were proved unfounded after extensive trouble-free travelling with multiple DSR-DR1000P units for almost a year.



NEWSGATHERING TEAM FRONTLINE TV USES THE DSR-DU1 HARD DISK RECORDER AS A SECURE BACK-UP FOR SENSITIVE FOOTAGE



In February 1991 freelance camera operator Vaughan Smith disguised himself as an army officer and infiltrated the ranks at the frontline of the Gulf war. His ingenuity allowed him to film the only unrestricted footage of Desert Storm.

Much of this material on the ground war is still available through the ex-BBC cameraman's crewing agency, Frontline TV, whose team of experienced freelancers have covered events in Afghanistan, Israel, Macedonia, Zimbabwe and Iraq. When BBC Newsgathering approached Frontline recently to shoot and make several copies of an important and secret interview, Smith opted for the latest in hard disk technology.

"All I was told was that a member of Al-Qaeda wanted to speak to the press. Obviously in these sorts of circumstances all sorts of people would try and sabotage the interview or seize a copy to prevent the footage from being broadcast", he reveals.

To ensure its chances of broadcast, three copies of the 45-minute interview were made simultaneously by attaching a DSR-DU1 hard disk recorder – supplied by broadcast distributors Mitcorp – to Smith's DVCAM camcorder. The DSR-DU1 works by docking onto the rear of a camcorder by use of an optional CA-DU1 camera adaptor and then connecting an i-Link cable from the camcorder to the adaptor. Camera output is then recorded to the hard drive of the DSR-DU1 in parallel with the recording on the camera's tape. "Through the i-Link interface, the device can also interface with a variety of hand-held cameras and has the advantage of increasing recording time from the 40 minutes of a standard cassette to three hours. It's a cheap and portable method of making duplicates in the field – the only other way we would have got multiple copies would have been through daisy chaining other large recording decks together."

Frontline, whose clients include Channel 4, TV2 Danmark, TV2 Norway, RTE and ABC, also requires duplicate copies of interviews and events when it is working in association with more than one broadcaster. According to Smith, who has been shot twice during his career, there's another quite simple advantage to making duplicates in this way. "Quite often soldiers or the authorities will stop you at gunpoint and try to take your tape off you, but they never bother with hard disk recorders because they're trained to look for tape."

Smith also praises the DSR-DU1 for its useful function as a back-up when shooting material from dusty and sandy locations since it tends to be more robust than tape.

Once the shoot is complete, with the right code the device can be detached from the camcorder and used for field off-line logging of EDL creation. And because it is a fraction of the size of other hard disk recorders, freelance operators like Smith are able to take it into the field.

"For the freelance it is a versatile and useful bit of equipment which is bridging the gap between tape and the computer", Smith concludes.

DATMEDIA STREAMS LECTURES WITH DSR-DU1



Internet streaming company Datmedia in London broadcasts lectures for the Institute of Electrical Engineers using the new DSR-DU1 DVCAM compact hard disk recorder.

Bill Clee, Datmedia's technical director, says the company records the lectures with a DSR-570WSP DVCAM camcorder connected to the DSR-DU1, which were specified and supplied through broad-cast distributors Mitcorp.

"The DSR-DU1 allows us to start encoding on the fly, faster than real-time, so it's a lot easier than tapes," Clee says. "While we're still filming, we can pull off material faster than real time and upload it and we've got people working on it while the lecture is still going on. It allows us to create an archiving system viewers around the world can access."

Datmedia is also using the DSR-DU1's cue system. If a lecturer is using slides, when he or she clicks on a slide, the DSR-DU1 operator can automatically bring up the slide stored on the hard disk recorder for the web viewer.

Datmedia is also streaming video to the SonyEricsson P800 mobile phone.

DVCAM SILVER SUPPORT PACK



Sony understand that in today's fast-changing environment, the need is for both equipment and a level of service that meet the crucial demands for higher productivity in professional video production.

Setting new standards in innovation, quality and reliability

Keywords associated with the Sony DVCAM line-up are versatility and flexibility. From state-of-the art technology to sophisticated functionality, the DVCAM line-up addresses a broad range of professional video applications from electronic news gathering to corporate video productions.

As soon as equipment is switched on, it becomes absolutely mission critical. Any fault or inability to use it to its full potential will have an immediate impact on bottom-line effectiveness. Now, with the launch of a customer-focused operational and technical support pack, which has significant advantages and benefits, Sony has underscored another keyword—reliability.

Quite simply more

Because professional customers need professional service and support, Sony offers enhanced support services for DVCAM products. DVCAM products are supplied with a 2-year Silver Support Pack, in addition to warranty, as standard. That means unique extra services, for twice as long.

Supported DVCAM products

Digital Camcorders:

DSR-570WSP | DSR-390P | DSR-250P | DSR-1P DSR-PD170P | DSR-PDX10P

Digital VTRs

DSR-2000P | DSR-1800P | DSR-1600P | DSR-1500AP DSR-45P | DSR-30P | DSR-25 | DSR-11 | DSR-70AP DSR-50P

Hard Disk Units

DSR-DU1 | DSR-DR1000P

5 ADDITIONAL REASONS TO CHOOSE SONY DVCAM



2 Years Support

The Silver Support Pack extends the support period from the standard 1-year warranty to two years. Not only that, but extra features and services are also included.



Operational Phone Call Centre

Operational phone support is provided to give advice and help so that the user can get the most out of their DVCAM equipment and maximise its performance. Our telephone support is available from Monday to Friday and in 5 languages – English, French, German, Italian and Spanish.



Collection Anywhere

In the event of equipment failure, Sony will arrange collection of the faulty unit directly from, and delivery of the repaired unit directly to the customer's location – anywhere in mainland EU, Norway or Switzerland. That makes it simpler, quicker and even more convenient for the customer.



Repair within 7 days

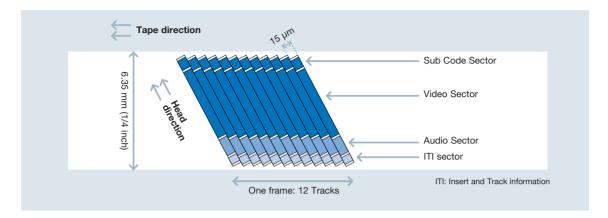
Sony will collect, repair and return the unit to the customer's preferred location within 7 working days. So, minimum downtime, increased confidence and the ability to plan your business are guaranteed.



Loan

If the faulty equipment cannot be repaired in time, the DVCAM hotline will contact the customer and arrange to have a loan unit delivered. Arrangements will be made to collect the loan unit as soon as confirmation is received that the repair has been carried out satisfactorily.

DVCAM FORMAT



DIGITAL COMPONENT RECORDING FOR EXCELLENT PICTURE QUALITY

The DVCAM format is the professional extension of the worldwide standard DV format. The DVCAM format uses 8-bit digital component recording with a 5:1 compression ratio and a sampling rate of 4:2:0. The unique compression algorithm provides excellent picture quality and superb multi-generation performance. The DVCAM format has a wider track pitch of 15 μ m (compared with 10 μ m for the DV format) which gives higher reliability for professional editing.

It also offers superior digital audio performance, providing a wide dynamic range and excellent signal-tonoise ratio, comparable to CD quality. Alternative audio channel modes can be selected: a two-channel mode with 48 kHz/16-bit recording or a four-channel mode with 32 kHz/12-bit recording.

RECORDING CAPABILITY OF UP TO THREE HOURS

DVCAM cassette tapes are available in two sizes: standard and mini. The standard-size cassette provides a recording time of up to 184 minutes, while the mini-size cassette provides up to 40 minutes. These long recording times are achieved in very compact cassettes with a 1/4-inch (6.35 mm) tape width.

EXCELLENT PERFORMANCE FROM PROFESSIONAL DVCAM TAPES

To gain maximum performance from high-density digital recording, advanced Metal Evaporated tape technology has been developed for the DVCAM format. The use of Sony pure cobalt advanced evaporated coating gives both high output and a high C/N (Carrier-to-Noise) ratio, resulting in superb quality pictures and a low error rate.

A DLC (Diamond Like Carbon) protective layer provides the enhanced protection of the tape surface that is essential to avoiding tape damage during long editing sessions. Finally, DVCAM tapes provide a low frequency of dropout and superior thermal stability.

A variety of cassettes, including tapes with IC Cassette Memory and Master Tapes, is available to suit different applications. The built-in 16-kbit Cassette Memory stores ClipLink[™] Log Data, Index Pictures, Photo mode and other shooting data, enhancing editing efficiency. Tapes without IC Cassette Memory fit a wide range of applications, at an affordable price. The Master Tapes, which use Sony Hyper Evaticle II Magnetic Particle technology to provide higher output and lower noise, are suitable for high-speed data transfer applications as well as for making master recordings.

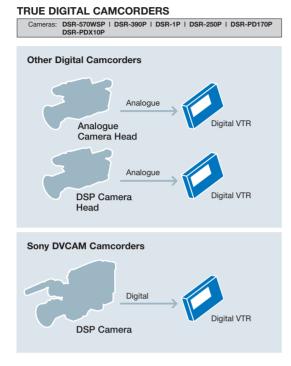
WHY DVCAM FORMAT FOR BROADCAST AND PROFESSIONAL?

Sony developed the DVCAM format with its wider 15 μ m track pitch to meet broadcast and professional customer requirements. The consumer DV format with a 10 μ m track pitch could not offer sufficient reliability for the broadcast and professional environment. Sony developed DVCAM format with a wider 15 μ m track pitch specifically to meet broadcast and professional customer requirements. Reliability is particularly important in editing and playback compatibility, where the wider track pitch of the DVCAM format eliminates the risk of block noise in playback picture.

Mini-size cassette



UNIQUE TECHNOLOGY AND ADVANTAGES



Sony DVCAM camcorders are "True Digital Camcorders". They incorporate DSP (Digital Signal Processing) for full digital processing in the camera section and digital recording in the VTR section. The camera video signal remains in its digital component format through the recording process, resulting in outstanding image quality, free of artifacts and with none of the resolution loss typical of A/D and D/A conversion.

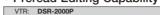
PLAYBACK CAPABILITY OF ALL DV (25 MB/S) FORMAT RECORDED TAPES

VTRs: DSR-2000P | DSR-1600P | DSR-1600P | DSR-1500AP | DSR-70AP 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 support DVCPRO tape playback*, and the DSR-2000P even supports DV (LP mode) playback. Furthermore, it is possible to use these tapes directly as editing source material, improving productivity. All DVCAM products including camcorders and VTRs can playback DV SP mode recorded tapes.

* Not compatible with SDTI (QSDI) and i.LINK (DV In/Out) interfaces. Only DSR-1500AP outputs via i.LINK.

EXCELLENT EDITING PERFORMANCE

Preread Editing Capability*



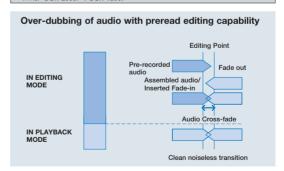


No delay between video and audio

The DSR-2000P VTR offers preread editing, a function never before available on a 1/4-inch (6.35 mm) VTR. Preread heads are positioned ahead of the record 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. Preread 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).

 * Not available for SDTI (QSDI) and i.LINK (DV In/Out) interfaces as these handle compressed signals.

Audio Cross-fade Capability VTRs: DSR-2000P | DSR-1800P



Preread 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 preread heads, cross-faded with the VTR audio input signal and recorded back onto the same track. This provides excellent audio crossfade editing performance without audio clicks at edit points and provides high quality audio to complement the video performance.

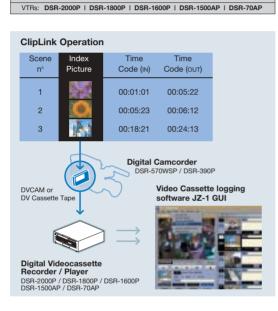
UNIQUE TECHNOLOGY AND ADVANTAGES

• Enhanced Digital Jog Audio

VTRs: DSR-2000P | DSR-1600P | DSR-1600P | DSR-1500AP | DSR-70AP A digital jog audio function is included in the Master Series VTRs with a range of -1 to +1 (DSR-2000P) or -0.5 to +0.5 (DSR-1800P/1600P/1500AP/70AP) 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 when using DV and DVCPRO tapes.

ClipLink Operation

Cameras: DSR-570WSP | DSR-390P | DSR-1P



ClipLink is a unique Sony system that conveys shooting data into the digital production process. During acquisition with a camcorder equipped with this feature, the in-point/out-point time code data of each shot and its OK/NG status are recorded in the DVCAM Cassette Memory. At the same time, a still frame of each in-point, called an 'Index Picture'*, is recorded on the DVCAM tape to provide visual information associated with the time code. ClipLink data can be imported automatically to JZ-1 videocassette logging software, modified and then be exported to almost any editing device. This greatly enhances subsequent editing operations.

* The DSR-570WSP/390P require an optional board to record Index Pictures.

VERSATILE DIGITAL INTERFACES

• SDI (Serial Digital Interface)*

VTRs:	DSR-2000P	1 0	DSR-1800P**	T	DSR-1600P**	T	DSR-1500AP**
	DSR-70AP**						

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

* The SDI used in DVCAM VTRs supports digital component video signals.

** The DSR-1800P/1600P/1500AP/70AP require an optional board for SDI.

SDTI (QSDI™)*

	· · ·	,		
VTDer	DSD-2000D	L DSD-1900D**	DSR-1600P** D	SD-1500AD**
V1115.	D3H-2000F	1 DON-1000F	DON-1000F ID	JH-IJUUAF
	DSR-70AP**	r		
	DON-TOAF			

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 equipped VTRs and between these VTRs and the EditStation in a non-linear editing configuration.

* SDTI (Serial Data Transport Interface) is defined as SMPTE 305M.SDTI

(QSDI) is the DV compressed signal interface defined as SMPTE 322M. ** The DSR-1800P/1600P/1500AP/70AP require an optional board for SDTI (QSDI).

• AES/EBU

VTRs: DSR-2000P | DSR-1800P | DSR-1600P | DSR-1500AP

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

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

SDTI-CP (MPEG Out)*

VTR: DSR-2000P*

SDTI-CP provides a direct connection to MPEG IMX[™] products (MPEG2 4:2:2P@ML, 50 Mb/s).

* SDTI-CP is defined as SMPTE 326M.

** The DSR-2000P requires an optional board for SDTI-CP.

• i.LINK[™] (DV)*

Cameras: DSR-570WSP** DSR-390P** DSR-250P DSR-PD170P DSR-PDX10P
VTRs: DSR-2000P** DSR-1800P** DSR-1600P** DSR-1500AP DSR-45P DSR-30P DSR-25 DSR-11 DSR-70AP** DSR-50P

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 IEEE 1394-1995 standards and their revisions.
 ** Output only from the DSR-570WSP/390P.
 - The DSR-2000P/1800P/1600P/70AP require an optional board for i.LINK.

SOPHISTICATED MECHANISMS

Quick, Responsive Mechanism VTRs: DSR-2000P | DSR-1600P | DSR-1600P | DSR-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 VTBs: DSB-2000P | DSB-1600P | DSB-160P | DSB-160P

VTRs: DSR-2000P | DSR-1800P | DSR-1600P | DSR-1500AP DSR-70AP

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 		
Cameras: DSR-570WSP DSR-390P DSR-1P DSR-250P		
VTBs: DSR-45P DSR-30P 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.

Dual Interface Mechanism

Camera: DSR-1P

The DSR-1P Dockable Recorder has both Pro 76-pin Digital and Pro 50-pin connectors with a unique seesaw construction. These allow direct connection of the DSR-1P to several alternative Sony digital (DXC-D30P*/D30WSP*/D35P/D35WSP/D50P/D50WSP) and analogue cameras (DXC-327B/637*/537A*/327A*).

 * These cameras are no longer sold, but current owners can still connect with the DSR-1P.

Further operational efficiency by DSR-DU1
 Cameras: DSR-570WSP | DSR-390P | DSR-250P | DSR-PD170P
 DSR-PDX10P

The DSR-DU1 is a compact video disk unit that mounts on or can be interfaced with the above camcorders. It provides up to three hours of DVCAM/DV stream recording as a file. Via an i.LINK (DV) connection, the camera output of the camcorder is recorded to the hard drive of the DSR-DU1 in parallel to the recording made on the camcorder's tape. The DSR-DU1 is an extremely versatile device. When detached from the camcorder, it is very effective for field off-line logging or EDL creation, as a player for making dubs, or as a source feeder machine for i.LINK-equipped non-linear editors. Moreover, when connected to an SBP2-compatible i.LINK-equipped nonlinear editor*, the DSR-DU1 allows its DV files to be directly accessed from the non-linear editor. The Rec. start and stop time codes of each scene are also transferred to the editor, eliminating the logging process common to non-linear editing.

* Refer to page 25.



THIS IS NOT JUST ANOTHER DIGITAL CAMCORDER

Technical advantages of DSR-570WSP / DSR-390P

As most camcorders are now digital, it is important to understand that the real benefit of a professional DVCAM camcorder is in the way the Digital Signal Processing works.

The DSR camcorders were created with the sole purpose of producing perfect pictures. From the very first shot in a production, the operator now has the power to make a unique creative contribution during shooting. Using these models, so much more can now be done "in-camera" that is a defiance of conventional wisdom. The DSR camcorders deliver outstanding "in-camera" creativity!

Issued from the well-known DVW-700 Digital Betacam camcorder technology, the DSR-570WSP and DSR-390P offer unique functionality giving the operator a unique opportunity to customise their camera settings, so that they precisely suit production requirements.

Here are some examples of the unique functions provided by the high end DVCAM camcorders.

Contrast Control with the DynaLatitude™ function



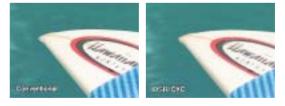
DynaLatitude, a unique feature for contrast control, minimises video level distortion. Based on video signal histograms, the DynaLatitude function aligns the contrast of each pixel individually to eliminate imbalances, such as overexposure of background image.

Black Stretch and Compress



Contrast in the black area of an image can easily be adjusted using the Black Stretch/Compress control function. Black Stretch emphasises contrast in dark areas, while Black Compress enhances or deepens darkness.

Black Halo Free



On transition between 2 contrasted zones, the "Black Halo" phenomenon appears. It consists of excess of contrast on the border, the DSP process of the DVCAM camcorders eliminates this phenomenon.

Freeze Mix Function

The Freeze Mix function superimposes a previously recorded image on the view-finder, allowing the operator to easily frame or reposition a subject when a shot must be taken in the same framework as a previous take. Combined with the SetupLogTM function, a retake is a breeze.

Colour Precision – TruEye[™] Process



The TruEye digital signal processing is one of the most innovative features that DSP allows and makes it possible to reproduce a far more natural colour than a conventional camera, even in severe shooting conditions.

Sony TruEye digital signal processing technology virtually eliminates hue distortion, particularly obvious in extreme lighting conditions, that results from conventional RGB analogue or digital processing. By processing video signal data at three levels – brightness, hue, and saturation – similar to how the human eye works, the TruEye[™] process assists in the reproduction of natural skin tones.

Skin colour reliability, management and Skin Detail with Auto detection of Active Area









Skin Detail

Other functions available:

- H detail frequency control
- R/G Vertical detail control
- Master Black
- Master Gamma
- Detail Frequency control
- Saturation and Hue control
- TLCS (Total Level Control System)
- Preset colour temperature with 32 steps
- SetupNavi[™]
- SetupLog[™]



Skin Tone



Once again, based on the Digital Betacam camcorder technology, the DSR-570WSP and DSR-390P use a Multi Matrix function that allows a particular colour to be automatically grabbed and its hue, saturation and detail level modified independently from the rest of the picture.

For example in the case of a person's face, it gives the subject a pleasing facial complexion, while maintaining the sharpness of other areas.

The designated active area of Skin Detail can be set with the SKIN SET button on the camera's side panel. The colour range of the Skin Detail active area and Skin Detail level can also be controlled.

Lineup features

DIGITAL CAMCORDERS | ONE-PIECE CAMCORDERS

DSR-570WSP DSR-390P

Common Features

- Highly mobile one-piece design
- DSP (Digital Signal Processing)
- Studio Multicore CCU operations up to 300m
- TruEye[™] process for faithful colour reproduction
 DynaLatitude[™] process minimises video level
- distortion
- Skin Detail and Skin Tone with auto detection of active area
- · Black Stretch and Compress control functions
- Advanced Film Like Mode (Setup File)
- Superb picture quality of the DVCAM format
- Playback capability of DV recorded tapes (SP mode only)
- Long recording time: up to 184 minutes with a standard-size cassette and 40 minutes with a mini-size cassette
- Total Level Control System (TLCS) for automatically extended range of Iris control
- Auto Tracing White Balance (ATW) function
- Black Halo free
- EZ Mode and EZ Focus for quick camera setup
- DynaFit[™] shoulder pad for comfortable molding to any shoulder
- Variable colour temperature settings: 3200 K (19 steps in the range from 2200 K to 4300 K) or 5600 K (13 steps in the range from 4600 K to 12000 K)
- · Video light connector for optional light equipment
- Menu control by Jog Dial operation
- Camera Setup File System
- SetupLog™ function for automatic recording of camera setting data
- Pool Feed operation *1
- i.LINK (DV output) interface providing a single cable connection to simultaneously transfer data and control signals as well as digital video and audio signals, with virtually no generation loss
- 26-pin VTR interface
- Full colour picture playback without an external adaptor
- Edit Search function
- Time code superimposed during playback and record
- Freeze Mix function
- ClipLink operation*2
- Compact and lightweight with BP-M50/100 Ni-MH Batteries or BP-L40A/BP-IL75 Lithium-ion Batteries
- CA-WR855 Camera Adaptor for the WRR-855B Wireless Receiver
- Compact crew package with the LC-DS300SFT Soft Carrying Case or LC-DS500 Hard Carrying Case
- DXF-51 5" Studio viewfinder
- Common Setup File for DSR-570WSP and DSR-390P
- · Audio level monitoring through the side panel
- Individual cover for audio control switches
- External VTR control & monitoring via i.LINK connector
- · CA-370 Intercom adapter
- *1 The optional DSBK-501P Analogue Composite Input Board is required.
- *2 The optional DSBK-301A Index Picture Board is required.



Silver Support

DSR-570WSP

One-piece Camcorder

- 16:9 4:3 Switchable Camcorder
- Compact and lightweight: 6.3 kg (13 lb 14 oz) including viewfinder, microphone, lens, battery and tape
- Low power consumption: 24 W (without viewfinder)
- Three 2/3-inch Power HAD WS[™] 16:9 CCDs providing high quality images with low smear level, high sensitivity, high S/N ratio (61 dB) and high horizontal resolution (980/850 TV lines in 16:9/4:3 mode)
- Hyper Gain (36 dB or 42 dB selectable)
- Aspect ratio switchable between 4:3 and 16:9
- SetupNavi[™] function for camera setup file storage
- Sensitivity: F11 at 2000 lx
- Minimum illumination = 0.5 lx
- Optional remote software available
- Flexible safety zone marker In 4:3 mode: OFF, 13:9, 14:9, 15:9, 16:9 In 16:9 mode: OFF, 4:3, 13:9, 14:9, 15:9
- Silver Support supplied as standard (see page 7)



Silver Support

DSR-390P

One-piece Camcorder

- Compact and lightweight: 6.2 kg (13 lb, 10 oz) including viewfinder, microphone, lens, battery and tape
- Low power consumption: 20 W (without viewfinder)
- Three 1/2-inch Power HAD™ CCDs for low smear level, high sensitivity, high S/N ratio (62 dB) and high horizontal resolution (800 TV lines)
- Hyper Gain (36 dB)
- 4:3 aspect ratio
- Sensitivity: F13 at 2000 lx
- Minimum illumination = 0.4 lx
- Flexible safety zone marker 4:3 mode: OFF, 13:9, 14:9, 15:9, 16:9
- SetupNavi™ function for camera setup file storage
- Silver Support supplied as standard (see page 7)

Lenses for DSR-390P

VCL-719BX (for DSR-390PK1 pack)

Zoom ratio	19:1
Focal length	6.7mm x 127mm
Zoom control	Servo/manual switchable
Iris control	Servo/manual switchable
Maximum relative aperture	F1.4 (6.7 to 89mm) to F2.0 (120mm)
Minimum object distance	Wide: 772x579mm, Tele: 42x32mm
Mount type	Sony 1/2-inch type bayonet mount
Weight	1.45kg (including lens hood)
Dimensions (WxHxD)	139.8 x 99.5 x 218.9mm (including objections)

VCL-716BX (for DSR-390PK2 pack)

Zoom ratio	16:1
Focal length	7.3mm x 117mm
Zoom control	Servo/manual switchable
Iris control	Servo/manual switchable
Maximum relative aperture	F1.9 (7.3 to 98mm) to F2.3 (117mm)
Minimum object distance	Wide: 823x617mm, Tele: 51x39mm
Mount type	Sony 1/2-inch type bayonet mount
Weight	1.2kg (including lens hood)
Dimensions (WxHxD)	123 x 102 x 205mm (including objections)

Silver Bupport

DSR-250P One-piece Camcorder

- Compact and lightweight: 4.4 kg (9 lb 11 oz)
 Newly developed 1/3-inch CCDs for accurate colour
 - reproduction Capable of both interlace scan, for moving images,
- Capable of both interface scall, for moving images, and progressive scan, for still images or shooting moving subject*1 and exporting a frame of the image as a still picture
- DSP (Digital Signal Processing)
- New, high-resolution 1.5-inch black & white viewfinder
- 2.5-inch (200,000 dot) colour LCD monitor
- 12x lens^{*2} with Super SteadyShot[™] system
- 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)
- 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 preset capability
- i.LINK (DV In/Out) interface providing a single cable connection to simultaneously transfer audio, video and command signals
- LANC interface for simple editing with a LANCequipped recorder or editing system
- Supplied RMT-811 Remote Commander
- Silver Support supplied as standard (see page 7)
- *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.

Lineup features

DIGITAL CAMCORDERS





Silver Support

DXC-D50P/WSP+DSR-1P

Two-piece Camcorder

- Combination of the DXC-D50P/WSP Digital Video Camera and the DSR-1P Dockable Recorder, equivalent to a one-piece camcorder
- Compact and lightweight: 6.3 kg (13 lb 14 oz) including viewfinder, battery, joint plate and carrying handle
- Three 2/3-inch Power HAD EX CCDs for very low smear level (-140 dB), high sensitivity and high S/N ratio (63 dB), and high horizontal resolution (920 TV lines on DXC-D50P, or 850 TV lines in 4:3 mode and 800 TV lines in 16:9 mode on DXC-D50WSP)
- 4:3 only on DXC-D50P, or 16:9 / 4:3 switchable on DXC-D50WSP
- 12-bit A/D Conversion
- Creative image control with Low Key Saturation, Skin Matrix, Adaptive Highlight Control and Black Gamma functions
- Advanced DSP (Digital Signal Processing)
- Skin Detail with auto detection of active area
- Sensitivity: F11 at 2000 lx
- Minimum illumination: 0.5 lx
- Black Stretch and Compress control functions
- Superb picture quality of the DVCAM format
- Playback capability of DV recorded tapes (SP mode only)
- Long recording time: up to 184 minutes with a standard-size cassette and 40 minutes with a mini-size cassette
- Total Level Control System (TLCS) for automatically extended range of Iris control
- Auto Tracing White Balance (ATW) function
- EZ Mode and EZ Focus for quick camera setup
- Camera Setup File System
- ClipLink operation

DSR-1P Dockable Recorder

- Compact and lightweight: 3.1 kg (6 lb 13 oz) including battery
- Ideal operation as a digital camcorder by docking with the DXC-D50P Digital Video Camera
- Dual-size cassette mechanism: both standard- and mini-size cassettes accepted
- Dual interface mechanism: Pro 76-pin Digital and Pro 50-pin interfaces for direct connection with both Sony digital and analogue cameras
- Superb picture quality of the DVCAM format
- Playback capability of DV recorded tapes (SP mode only)
- Long recording time: up to 184 minutes with a standard-size cassette and 40 minutes with a mini-size cassette
- ClipLink operation
- Full colour picture playback capability without a playback adaptor
- Record review function
- · Frame accurate back-space editing
- Built-in SMPTE/EBU time code generator/reader
- Time base stabiliser
- Full VTR function control (FastForward/Rewind/Play/ Stop/Eject)
- Comprehensive 8-digit LCD
- Silver Support supplied as standard (see page 7)



Silver Support

Silver Support

DSR-PD170P

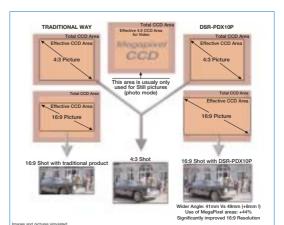
Compact Camcorder

- Compact and lightweight: 1.5 kg (3 lb 5 oz) including battery and tape
- 1/3-inch CCD for accurate colour reproduction
- Capable of both interlace scan, for moving images, and progressive scan, for still images or shooting a moving subject*1 and exporting a frame of the image as a still picture
- DSP (Digital Signal Processing)
- Two XLR audio input connectors for professional microphones
- Supplied RMT-811 Wireless Remote Commander
- Hybrid 2.5-inch (211,200 dot) colour LCD monitor
- Black & white viewfinder (180,000 dot LCD)
- On-handle zoom lever and Rec Start/Stop button
- 12x lens*2 with Super SteadyShot system
- · Manual control and a full range of auto modes
- 16:9 recording mode available (electronically processed)
- Superb picture quality of the DVCAM format
- Playback and record capability of DV recorded tapes*³ (SP mode)
- 40 minutes recording time with a mini-size cassette
- Time/date data superimposition on output pictures
- Digital still camera functions with Memory Stick
- InfoLITHIUM[™] battery system displays the remaining capacity of the battery (accurate to the minute)
- Audio dubbing capability (48 kHz/16-bit or 32 kHz/ 12-bit selectable)
- i.LINK (DV In/Out) interface providing a single cable connection to simultaneously transfer audio, video and command signals
- LANC interface for simple editing with a LANCequipped recorder or editing system
- Wide Conversion Lens VCL-HG0758 supplied as standard
- Lens Hood LSF-S58 supplied as standard
- Silver Support supplied as standard (see page 7)
- *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 Only mini-size DVCAM and DV cassettes can be used.



DSR-PDX10P

- Very compact body (the smallest 3 CCD DVCAM camcorder)
- 3 1/4.7-inch Mega pixel Advanced HAD CCD type
- 14 Bits DXP Processing (Digital Extended Processor)
- Enhanced 16:9 capability (real 16:9 shooting quality)
- 2 XLR audio input connectors for professional microphones
- USB Streaming (capability to stream Video and Audio through USB port) available in camera and VCR mode
- 3.5 inch type 240,000 colour LCD monitor with touch panel function (Spot focus, Spot AE, Playback Zoom, Memory play)
- 180,000 dot precision Black and White LCD Viewfinder
- Optical Super SteadyShot[™]
- TC and User bit preset capability
- DVCAM and DV (SP mode) recording and playback formats
- High resolution picture recording (640x480 / 1152x864 dots)
- MPEG movie recording up to 85 mins on a 128 MB Memory Stick
- i.LINK and Analogue In/Out interfaces
- Silver Support supplied as standard (see page 7)



Lineup features

DIGITAL VTRs | MASTER SERIES

Master Series VTRs



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. Sonv 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-2000P, Sony now presents the entire lineup of Master Series VTRs, our top-of-theline DVCAM videocassette recorders and players. The Master Series VTRs (DSR-2000P, DSR-1800P, DSR-1600P, DSR-1500AP and DSR-70AP) now bring the features and benefits introduced with the DSR-2000P to a wider market, from industrial to broadcast for a wider range of applications and needs.

DSR-2000P DSR-1800P DSR-1600P DSR-1500AP DSR-70AP Common Features



• 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*¹ without a mechanical adaptor or menu settings 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^{*6}
- Audio cross-fade function for clean audio transitions at editing points*²
- · Excellent jog audio capability
- DMC (Dynamic Motion Control) provides noiseless slow-motion playback
- High-speed picture search over a range of 60 times normal speed, in both forward and reverse*⁶
- Versatile digital interfaces*3: SDI, SDTI (QSDI), i.LINK (DV In/Out) and AES/EBU digital audio
- Extensive analogue interfaces: composite, component, S-Video and XLR audio
- RS-422A remote control interface
- Frame accurate editing capability
- ClipLink operation
- Full tape dubbing with ClipLink Log Data via SDTI (QSDI) and RS-422A interfaces^{*4}
- 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)*4
- Flexible input selection between video and audio*5
- Universal powering system (AC 100 V to 240 V)
- Three-size cassette compartment to ensure compatibility with DV(25Mb/s) recorded tapes
- *1 SDTI (QSDI) and i.LINK (DV In/Out) interfaces do not support DVCPRO playback.
- *2 DSR-2000P/DSR1800P only.
- *3 Optional Input/Output Boards required. Please check Feature Comparison of Studio VTRs for details.
- *4 DSR-2000P/DSR1800P/DSR-1500AP/DSR-70AP only.
 *5 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.
- *6 DSR-2000P/1800P/1600P only.



Silver Support

Master

DSR-2000P

Editing Recorder

- Playback capability of DV tapes recorded in LP mode
- Non-tracking playback*1
- Preread editing capability*² 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*³ with two VTRs
- VTR-to-VTR editing without external controllers
 Wide range of digital slow speed from -1 to +1
- times normal speed
- Optional SDTI-CP digital interface board (MPEG Out)
- 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
- Silver Support supplied as standard (see page 7)
- *1 Can cover mis-alignment tapes without picture noise
- *2 Not available through SDTI (QSDI) and i.LINK interfaces.
- *3 MIX and WIPE only.



Silver Support



DSR-1800P

Editing Recorder

- Preread 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
- Silver Support supplied as standard (see page 7)



Silver Support

Master

DSR-1600P

Editing Player

- Wide range of digital slow speed from -0.5 to +0.5 times normal speed
- Channel condition monitoring function
- Jog dial on front panel
- Silver Support supplied as standard (see page 7)



Silver Support



DSR-1500AP

Editing Recorder

- Wide range of digital slow speed from -0.5 to +0.5 times normal speed
- Recording and playback capability of the DV format (SP mode only)
- Compact, half-rack size
- Menu keys on front panel for picture search
- Silver Support supplied as standard (see page 7)

Lineup features

STUDIO VTRs



Silver Support

DSR-45P

Recorder

- 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
- 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**
- RS-232C interface for basic control from a PC
- LANC and Control S interface
- Time code IN/OUT
- Time code/ User bit preset
- 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 (22 W during playback)
- Built-in 2-inch type (123,200 dot) colour LCD monitor
- Tape counter
- Wireless remote controller RMT-DS5 supplied
- Silver Support supplied as standard (see page 7)
- *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-45P is not equipped with the synchronisation capability, therefore is recommended to be used only as a source feeder in A/B roll editing.



Silver Support

DSR-30P

Recorder

- Superb picture quality of the DVCAM format
- Playback capability of DV recorded tapes (SP mode only)
- Long recording time: up to 184 minutes with a standard-size cassette and 40 minutes with a mini-size cassette
- i.LINK (DV In/Out) interface providing a single cable connection to simultaneously transfer audio, video and command signals
- LANC interface for simple editing with a LANCequipped recorder or editing system
- Auto repeat function
- One-program playback function to automatically rewind to the beginning of a tape and enter Standby mode
- · Power-on playback/recording capabilities
- External timer recording
- Duplication mode with original time code
- Function lock to avoid accidental operation
- Built-in control tray with a Jog/Shuttle dial with a range of 1/5 to 18 times normal speed, in both forward and reverse
- Index Points search function (when using a cassette with IC Cassette Memory)
- Clear frame picture
- RMT-DS30 Wireless Remote Controller (supplied accessory) for control of basic functions
- Headphone/microphone connections
- Silver Support supplied as standard (see page 7)

STUDIO VTRs



Si/var Support

DSR-25

Recorder

- Superb picture quality of the DVCAM format
- \bullet 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
- Recording and playback capability of both NTSC/PAL signals^{*2}
- i.LINK(DV) interface for simultaneous transfer of audio, video, and command signals
- LANC and Control S interface
- Time code/ User bit preset
- 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 (16 W during playback)
- Built-in 2-inch type (123,200 dot) colour LCD
- monitor
- Tape counter
- Wireless remote controller RMT-DS5 supplied
- Silver Support supplied as standard (see page 7)
- *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-25 is not equipped to convert signals from NTSC to PAL, or vice versa.





DSR-11

Recorder

- Superb picture quality of the DVCAM format
- Long recording time: up to 184 minutes with a standard-size cassette and 40 minutes with a mini-size cassette
- Recording and playback of DV format tapes (SP mode only)
- NTSC/PAL compatible*1 in both Rec and Play mode
- Composite and S Video inputs
- i.LINK (DV In/Out) interface providing a single cable connection to simultaneously transfer audio, video and command signals
- Unique design enables both horizontal and vertical installation
- LANC and Control S terminals
- Auto repeat function
- DC power operation
- Supplied RMT-DS11 Wireless Remote Commander
- Silver Support supplied as standard (see page 7)
- *1 The DSR-11 does not convert signals from NTSC to PAL, or vice versa.

Lineup features

PORTABLE VTRs



Silver Support

<u>Master</u>

DSR-70AP

Portable Editing Recorder

- Compact, all-in-one package features a 6.4-inch VGA LCD monitor, a full cut-editing controller with a Jog/Shuttle dial and audio speaker
- Wide range of digital slow speeds from -0.5 to +0.5 times normal speed
- High-speed colour picture search over a range of 32 times normal speed, in both forward and reverse
- Audio mix/swap recording
- Cliplink operation: cue up to Mark In/Cue address, change of Mark In/Out points, change of OK/NG status and creation of new Mark In/Out points
- Edit List Memory Function
- Double Deck Editor by docking two DSR-70AP units or a DSR-70AP and a DNW-A25 Betacam SX[®] portable editing recorder
- SDI and i.LINK interfaces are provided by a single DSBK-160A optional board
- Two-camera switching recording*1
- Sequential recording for up to 6 hours in the double deck configuration
- Parallel-run recording to control two docked DSR-70AP units
- in parallel for simultaneous recording
- Two-way power supply system (AC/DC) for operation with either AC*² or DC power
- Silver Support supplied as standard (see page 7)
- *1 The optional DSBK-180P Dual Video Input Board is required. *2 AC adaptor is required.

Note: Optional interface boards (DSBK-140/150/160A/170) cannot be used in combination with each other. However, these boards can be used together with the optional DSBK-180.



Silver Support

DSR-50P

Portable Recorder

- Superb picture quality of the DVCAM format
- Playback capability of DV recorded tapes (SP mode only)
- Long recording time: up to 184 minutes with a standard-size cassette and 40 minutes with a mini-size cassette
- Four-channel independent digital audio recording
- 2.5-inch (200,000 dot) colour LCD monitor
- Duplication options (tape copy, tape copy with original time code, or tape copy with cassette memory data)
- Compact & lightweight design: 3.9 kg (8 lb 9 oz) without battery and tape
- \bullet Playback capability of both NTSC and PAL recorded tapes \ast_1
- i.LINK (DV In/Out) interface providing a single cable connection to simultaneously transfer audio, video and command signals
- 26-pin Camera Connector
- Analogue Component Output
- Timecode IN/OUT
- Silver Support supplied as standard (see page 7)
- *1 The output signal level is not standard and therefore recommended for simple monitoring only, with a monitor of the same colour system as the original source.





Silver Support

DSR-DU1

Hard Disk Unit

- Compact hard drive unit (2.5-inch, 40 GB hard drive) for use with DVCAM and Sony DV camcorders*¹
- Camera output can be recorded to the DSR-DU1's hard drive in parallel to the recordings made on the camcorder's tape via i.LINK(DV) connection.
- Recording in 25Mb/s DVCAM/DV stream for up to three hours
- Capable of docking directly to the rear of DVCAM camcorders*² by use of the CA-DU1 optional Camera Adaptor
- The camera adapter's slot-in mechanism allows easy and quick replacement of the DSR-DU1
- Can interface with a variety of i.LINK(DV) equipped Sony hand-held type DVCAM/DV camcorders via its iLINK(DV) connector
- The DSR-DU1's DV video/audio files can be accessed from a compatible i.LINK equipped non-linear editor*³
- Compact and lightweight
- VTR-like functions and operation keys
- i.LINK interface with AV/C and SBP2 protocols
- Cache recording (8 seconds)
- Interval recording
- 525(NTSC)/625(PAL) Switchable*4
- REC Trigger controlled from the REC On/Off button of Sony i.LINK(DV) equipped camcorders*⁵
- Supplied remote controller for Rec, Cue and Rec Tally controls
- Flexible DC operation (DC 12 V^{*6}, DC 8.4 V)
- Shooting Data (Time codes of the rec in and out points, Cue points from the DSR-DU1 and the supplied remote controller)
- Silver Support supplied as standard (see page 7)
- *1 Please contact your nearest Sony office or Authorised dealer for compatible DV camcorders.
- *2 DSR-570WSP/390P/370P/500WSP/300AP/250P.
- *3 Please contact your nearest Sony office or Authorised dealer for non-
- linear products that support DV file transfer between the DSR-DU1. *4 Signal conversion from 525(NTSC) to 625(PAL), or vice versa is not possible.
- *5 To use this function with camcorders other than the DSR-570WSP/390P/370P, tape should be set in the cassette compartment.
- *6 To use DC 12V, the optional CA-DU1 is required.



Silver Support

DSR-DR1000P

Hard Disk Recorder

- DVCAM recording for over 6 hours (80 GB hard drive)
- · Compact & lightweight (Half-rack size, 6 kg)
- Simultaneous recording & playback
- Clip segment playback for playout of designated video segment
- DMC playback with the range of ± x2 times normal speed
- Continuous loop recording
 - Pre-alarm recording (automatic recording triggered by an external alarm signal)
 - Interval recording
 - i.LINK interface with AV/C and SBP2 protocols
 - Versatile interfaces (i.LINK, SDI, Component, Y/C, Composite, AES/EBU, Analogue audio, TC I/O, RS-422A, Ethernet)
 - VTR-like control panel with a Jog/Shuttle dial
 - Network capability (file transfer using FTP via 100Base-T Ethernet)
 - Silver Support supplied as standard (see page 7)

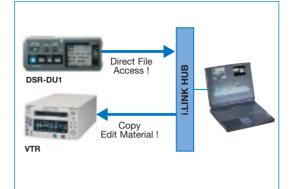


4

SOFTWARE | EDITING SOLUTIONS

DSR-DU1

Workflow Acceleration



Three key benefits with compatible NLE

No digitisation delays

Direct import of time code & clip info in seconds.

No ingest hold-ups

Edit directly on the DSR-DU1 hard drive.

No rewiring hassle

Plug & play with an IEEE1394 hub (not included) to import clip info & export content to tape in real-time.

Non Linear Editing softwares supporting DSR-DU1/DR1000P file format (as of Nov. 2003) are:

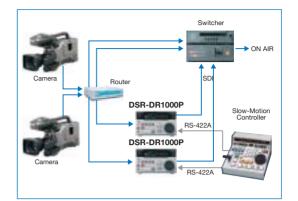
- Adobe Premiere Pro (www.adobe.com)
- Apple Final Cut Pro 4 (www.apple.com)
- Pinnacle Liquid Edition 5.5 (www.pinnaclesys.com)
- Canopus CWS-30/50/100 (www.canopus.com)
- Incite Remote Producer and Newsmaker (www.inciteonline.com)
- Sonic Foundry Vegas 4.0 (mediasoftware.sonypictures.com)

File converter supporting DSR-DU1/DR1000P file format (as of Nov. 2003) is:

- aDVanced DV File Conveter Pro
- (www.dvunlimited.com)

DSR-DR1000P

For Sports Application



Sports / Live events (OB Van) – with Slow-Motion Controller

Cost effective solution

- Simultaneous rec & play with less than 1 sec delay
- +/-200% Dynamic Motion Control
- Instant cue-up & replay

Slow Motion controllers supporting DSR-DR1000P are:

- Ash Vale Marketing AVM-4a (www.avm4.com)
- Hi Tech Systems HT-800s series (www.hitechsys.co.uk)
- DNF ST300-DSR1K (www.dnfcontrols.com)
- Kurrer S4 (www.kurrer.de)

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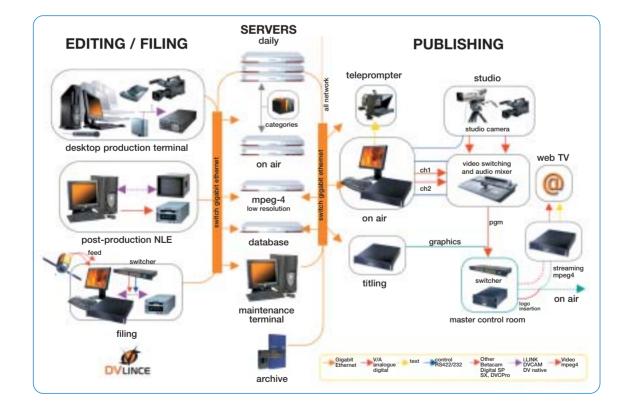
DVLince

DVLince is a complete, integrated, and managed solution for the planning, production and distribution of video and audio content. Built on the vast experience that Sony has gained with high-end solutions such as Newsbase, it is an affordable, flexible and scalable system that leverages both consumer DV and professional DVCAM acquisition while replacing individual video cassettes with shared assets.

In simple terms, DVLince is a 'content factory', covering the newsroom, editing, broadcasting, archiving and the internet. It has been especially designed to meet the needs of local broadcasters and TV stations, universities, media schools, agencies, webcasters and corporate clients.

For more information please visit www.dvlince.com





PRODUCTION SYSTEMS

DV Station

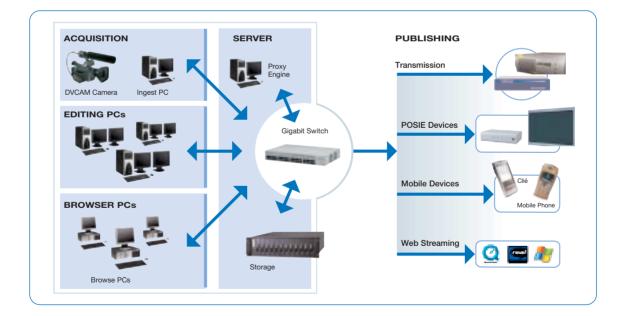
As a world leader in digital media solutions for broadcasters, Sony has designed DV Station to be simple and intuitive to operate – even for non-specialists with little or no video editing experience.

With DV Station, all content is stored and managed using the industry standard DV compression format to assure great-looking pictures and sound without the need for expensive, high capacity storage solutions and bandwidth-hungry networking resources.

Stored and edited clips can be viewed using any PC running QuickTime[™] - with no need for special viewing software or powerful graphics hardware.

Content is stored centrally for browsing, sharing and editing across your standard IT network. From there it's easy to publish edited content anywhere you want – whether it's terrestrial broadcasting, business TV or the Web.





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 portable tuner mounted on a camera.

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 in increments of 125 kHz.

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. The space diversity reception system is adopted in all UWP tuners – the portable tuner, half rack-size tuner and tuner module alike. What's more, the antennas of the portable and half-rack-size tuners each allow for angle adjustments, which helps to further eliminate signal dropout.

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 preprogrammed 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 interferencefree frequencies for the transmitters and tuners, simplifying the task of system setup.

WIRELESS MICROPHONE SYSTEMS



Lavalier Microphone and Bodypack Transmitter

Bodypack Transmitter:

- Compact and lightweight design
- Attenuator function allows adjustment of the microphone-input level to suit each user's voice
- Selectable RF-output level: 5 mW output is suitable for simultaneous multi-channel operation, while 30 mW output is intended for long-distance transmission

Lavalier Microphones:

- Omni-directional type for the UWP-C1 package
- 1.2 m (3.9 feet) microphone cable
- Supplied with a microphone windscreen and microphone-holder clip
- Approximately six hours of continuous operation with two AA-size alkaline (LR6) batteries
- An LCD screen provides extensive information, including the operating channel number and its frequency in MHz, attenuator level, RF-output level setting (High/Low), audio-input status, RF-output status, transmitter-battery status and accumulated operating time
- A 3.5-mm dia., 3-pole mini-jack input connector with lock mechanism accepts the output of any lavalier microphones equipped with a 3.5 mm dia. mini plug, as well as the output of the supplied lavalier microphone
- · Supplied with a belt clip



Handheld Microphone

- Uni-directional, dynamic microphone capsule
- Internal antenna design
- Attenuator function allows adjustment of the audio-input level to suit each user's voice
- Selectable RF-output level: 5 mW output is suitable for simultaneous multichannel operation, while 30 mW output is intended for long-distance transmission
- Approximately six hours of continuous operation with two AA-size alkaline (LR6) batteries
- An internal LCD screen provides extensive information, including the operating channel number and its frequency in MHz, attenuator level, RFoutput level setting (High/Low), audio-input status, RF-output status, transmitter-battery status and accumulated operating time
- Supplied with a microphone holder and a screw adaptor

WIRELESS MICROPHONE SYSTEMS





Portable Tuner

- Space diversity reception system for stable RF reception
- Angle-adjustable antennas to help eliminate signal dropout. This feature also allows mounting position flexibility when the portable tuner is mounted on a camcorder
- RF squelch function virtually eliminates ambient noise and unwanted signals from other wireless microphone systems
- An LCD screen provides extensive information, including the operating channel number and its frequency in MHz, audio-output status, RF-input level, tuner-battery status and accumulated operating time
- A green LED indicator illuminates when RF-input signals are appropriately received
- Approximately six hours of continuous operation with two AA-size alkaline (LR6) batteries
- · Stereo mini jack with monitor-volume control
- Supplied shoe-mount adaptor enables easy mounting on Sony camcorders. A microphone stand adaptor, screw adaptor, microphone cable and belt clip are also provided

UWP-C1 Turnkey Package

Consists of an omni-directional laval

- Consists of an omni-directional lavalier microphone, bodypack transmitter and portable tuner
- 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 tuner is supplied with a microphone stand adaptor, screw adaptor, shoe-mount adaptor for mounting on a camcorder and microphone cable (3-pole mini-plug/XLR-type)



UWP-C2 Turnkey Package

- i unikey i ackage
- Consists of a handheld microphone and portable tuner
- 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 tuner is supplied with a microphone stand adaptor, screw adaptor, shoe-mount adaptor for mounting on a camcorder, belt clip and microphone cable (3-pole mini-plug/XLR type)

Feature Comparison

DIGITAL CAMCORDERS

	DSR-570WSP	DSR-390P	DSR-250P	DSR-PD170P	DSR-PDX10P
General					
General					
CCD size	3CCD 2/3 inch	3CCD 1/2 inch	3CCD 1/3 inch	3CCD 1/3 inch	3CCD 1/4.7 inch
CCD type	16:9	4:3	4:3	4:3	4:3
16:9 commutation capability	4/3 Commutation		•	•	•
					(with high resolution
					capability)
PowerHAD CCD	•	•			
Standard lens	Recommended Canon:	APK version: YH18x6.7	12x (6.0 to 72 mm)	12x (6.0 to 72 mm)	12x (3.6 to 43.2 mm)
	YJ18x9KRS,	KRS			
	Fujinon: A19x8.7BRM-28				
Interchangeable lens	•	•	Large range of high	Large range of high	VCK-HG0237X and
			quality lenses are	quality lenses are	VCL-HG0737X
			available at	available at	(consumer accessories)
			Century Optics	Century Optics	
Super SteadyShot			•	•	•
Resolution	980 in 16/9 & 850 in 4/3	800 lines	530 lines	530 lines	530 lines
Minimum illumination	0.25 lux	0.4 lux	2 lux	1 lux	7 lux
S/N Ratio	61 dB Typical	62 dB Typical			
Viewfinder type	BW CRT	BW CRT	BW CRT	High resolution BW LCD	High resolution BW LCD
Tape size	Std and Mini DV/DVCAM	Std and Mini DV/DVCAM	Std and Mini DV/DVCAM	Mini DV and DVCAM	Mini DV and DVCAM
Recording mode	DVCAM	DVCAM	DV or DVCAM	DV or DVCAM	DV and DVCAM
Playback	DV and DVCAM	DV and DVCAM	DV and DVCAM	DV and DVCAM	DV and DVCAM
PCM Audio 16bits/12 bits	•	•	•	•	•
Audio dubbing			•	•	•
Time code preset	•	•	•	•	•
Colour LCD screen			Yes 2.5-inch	Yes 2.5-inch, Hybrid	Yes 3.5-inch
Memory Stick (MSA-4A/8A/					
16A/32A/64A/128A)			•	•	•
Manual iris	Yes (Ring)	Yes (Ring)	Yes (Ring)	Yes (Dial)	Yes (Dial)
Manual zoom	Electric or manual	Electric or manual	Electric or manual	Electric or manual	Electric
Focus ring	•	•	•	•	•
On-handle zoom lever & Rec button				•	
DynaFit Shoulder pad	•	•	•		
Mass	6.3 kg	6 kg	4.4 kg	1.5 kg	0.95 kg
Studio operations CCU	•	•			
control capability					

Advanced DSP Features

TruEye Process	•	•			
Dynalatitude Process	•	•			
Skin Detail	•	•			
SkinTone	•	•			
TSCS (Total Level Control System)	•	•			
ATW (Auto Tracing White Balance)	•	•			
EZ Mode	•	•			
EZ Focus	•	•			
Camera Setup File	•				
Setup Navigation	•				
Setup Log	•	•			
Freeze Mix	•	•			
ClipLink	•	•			
Photo mode			•	•	•
Progressive still picture mode			•	•	•
High resolution still pictures				• (640x480)	• (1152x768)
Long MPEG movie					•
recording on MS					

Output connectors

Composite	Yes (2xBNC)	Yes (2xBNC)	Yes (RCA+BNC)	Yes (Jack)	Yes (Jack)
S-Video	•	•	•	•	•
Y, R-Y, B-Y component	Yes w 26-pin	Yes w 26-pin			
i-LINK IEEE-1394	Yes (6-pin)	Yes (6-pin)	Yes (6-pin)	Yes (4-pin)	Yes (4-pin)
USB Connector (streaming)					•
Audio RCA x 2	•	•	•	•	•
DC-12V - 4-pin	•	•	•		
Time Code	•	•			

Input connectors

Composite	Yes (option DSBK-501)	Yes (option DSBK-501)	Yes (RCA)	Yes (RCA)	Yes (RCA)
S-Video			•	•	•
Remote (RS-232)	•	•			
Gen Lock	•	•			
LANC			•	•	•
Lens connector	•	•			
Audio XLR	Yes (1 front + 2 rear)	Yes (1 front + 2 rear)	Yes (1 front + 2 rear)	Yes (2)	Yes (2)
Time Code	•	•			
Power through 4-pin XLR	•	•	•		
Specific power plug				•	•
i-LINK IEEE-1394			Yes (6-pin)	Yes (4-pin)	Yes (4-pin)

DIGITAL CAMCORDERS

	DSR-570WSP	DSR-390P	DSR-250P	DSR-PD170P	DSR-PDX10P
Accessories					
1.0000001100					
AC Adaptor	AC-DN1/2	AC-DN1/2	AC-DN1/2	supplied (AC-L15)	supplied (AC-L10)
Batteries	BP-L40A/IL75/M50/M100	BP-L40A/IL75/M50/M100	BP-L40A/IL75/M50/M100	NPF-330/550/750/960	NP-FM50/NP-QM71/NP-QM9
i-LINK cable	CCF-3L (6P-6P)	CCF-3L (6P-6P)	CCF-3L (6P-6P)	VMC-IL4415/4435 (4P-4P)	VMC-IL4415/4435 (4P-4P)
	CCFD-3L (4P-6P)	CCFD-3L (4P-6P)	CCFD-3L (4P-6P)	VMC-IL4615/4635 (4P-6P)	VMC-IL4615/4635 (4P-6P)
Optional charger	BC-M50/BC-M150/AC-DN1	BC-M50/BC-M150/AC-DN1	BC-M50/BC-M150/AC-DN1	AC-V700A	AC-SQ950D
Audio HF transmitter	WRT-822B	WRT-822B	WRT-805B or WRT-822B	WRT-805B	WRT-805B
Wide angle	Canon YJ12x6.5 KRS	Canon YH12x4.8KRS,	option: Sony VCL-HG0758	Sony VCL-HG0758 supplied	Century Optics
	Fujinon A12x6.8	Fujinon S12x5	(without lens hood)	with lens hood LSF-S58	
			Canon WR-58/	Canon WR-58	
			Century Optics	Century Optics	
Rain cover	LCR-1	LCR-1	LCR-1	LCR-VX2000A	
Camcorder light	Anton Bauer Ultra	Anton Bauer Ultra	Anton Bauer Ultra	HVL-20DW2	HVL-S3D
atteries LINK cable ptional charger udio HF transmitter //ide angle ain cover amcorder light udio HF receiver emote panel ripod adaptor ard carrying case arge viewfinder	Light2 20W (UL2-6)+	Light2 20W (UL2-6)+	Light2 20W(UL2-6)+	(+NP-550/750	(+NP-550/750
	(DIFFUSION FILTER uld-f)	(DIFFUSION FILTER uld-f)	(DIFFUSION FILTER uld-f)	not supplied)	not supplied)
Audio HF receiver	WRR-855B (+CA-WR855)	WRR-855B (+CA-WR855)	WRR-805A/B or WRR-855B	WRR-805A/B	WRR-805A/0B
			(+BTA 801)		
Remote panel	Yes RM-M7G/F	Yes RM-M7G/F		photo type	photo type
Tripod adaptor	VCT-U14 supplied	VCT-U14 supplied	option : VCT-U14		
Hard carrying case	LC-421 / LC-DS500	LC-421 / LC-DS500	LC-421	LCH-VX2000A	LCH-TRV950
Soft carrying case	LC-300SFT	LC-300SFT	LC-300SFT		
Large viewfinder	DXF-51 + accessories*	DXF-51 + accessories*	DXF-51 + accessories*		
Silver Support included	•	•	•	٠	•

* Spare part ref. for assembling kit = A-8278-177-A.

Feature Comparison

DIGITAL VTRs

	DSR-2000P	DSR-1800P	DSR-1600P	DSR-1500AP	DSR-70AP
Cassette Size					
Standard-size	•	•	•	•	•
Mini-size	•	•	•	•	•
DVCPRO Medium-size	•	•	•	•	•

Recording/Playback Capability

DV-SP Recording				•	
DV-SP Playback	•	•	•	•	•
DV-LP Playback	•				
DVCPRO Playback	•	•	•	•	•
NTSC Recording					
NTSC Playback					

Digital Interface

SDI	•	0	O *2	0	0
SDTI (QSDI)	•	0	O *2	0	0
SDTI-CP	o *2				
i.LINK (DV In/Out)	0	0	0	•	0
AES/EBU	•	0	o *2	0	

Analogue Interface

Composite	•	•	• *2	O *1 / ● *2	•
Component	•	•	• *2	0 *1 / • *2	0
S-Video	•	•	• *2	0 *1 / • *2	•
Analogue Audio	• (4ch)	• (4ch)	• *² (4ch)	○ *1 / ● *2 (2ch)	• (2ch)
Time Code In/Out	•	•	• *2	•	•

Control Interface

RS-422A	•	•	•	•	•
RS-232C					
LANC					
Control S		•	•	•	•
26-pin Camera					

Key Function

Non-Tracking	•				
Pre-read Editing					
(Video/Audio)	•				
VTR-to-VTR Editing	•				•
Audio Pre-read Editing	•	•			
Channel Condition					
Indicator	•	•	•		
Jog/Shuttle Dial	•	•	•		•
4ch Audio Insert					
independently	•	•			
Audio Cross Fade	•	•			
Assemble/Insert Editing	•	•		•	•
16:9 Aspect ID Recording	•	•		•	•
Analogue-like Jog Audio	•	•	•	•	•
Professional Slow					
Motion Picture *4	•	•	•	•	•
Quick Response					
Mechanism	•	•	•	•	•
Power On Playback/					
Recording		• *4	• *4	• *4	
Time Counter Display					
on Front Panel	•	•	•	•	•
Digital Slow Range	x+-1.0	x+-0.5	x+-0.5	x+-0.5	x+-0.5

Power

AC	• (100-240V)	• (100-240V)	• (100-240V)	• (100-240V)	
DC					• (12V)
Battery Operation					 (BP-L series)

 Standard Option
 *1 Input only
 *2 Output only

*3 As player only
 *4 The same filter as Digital BETACAM
 *5 Power On Playback only
 *1 forma accurate

*6 Not frame accurate

DIGITAL VTRs

	DSR-50P	DSR-45P	DSR-30P	DSR-25	DSR-11
Cassette Size					
	1	1			
Standard-size	•	•	•	•	•
Mini-size	•	•	•	•	•
DVCPRO Medium-size					

Recording/Playback Capability

DV-SP Recording	•	•		•	•
DV-SP Playback	•	•	•	•	•
DV-LP Playback					
DVCPRO Playback					
NTSC Recording				•	•
NTSC Playback	•			•	•

Digital Interface

SDI					
SDTI (QSDI)					
SDTI-CP					
i.LINK (DV In/Out)	•	•	•	•	•
AES/EBU					

Analogue Interface

Composite	•	•	•	•	•
Component	•	•			
S-Video	•	•	•	•	•
Analogue Audio	• (4ch)	• (4ch)	• (2ch)	• (2ch)	• (2ch)
Time Code In/Out	•	•			

Control Interface

RS-422A		• * ³			
RS-232C		•			
LANC	•	•	•	•	•
Control S	•	• *1	•	•*1	•
26-pin Camera					

Key Function

Non-Tracking					
Pre-read Editing					
(Video/Audio)					
VTR-to-VTR Editing				•	
Audio Pre-read Editing					
Channel Condition					
Indicator					
Jog/Shuttle Dial					
4ch Audio Insert					
independently					
Audio Cross Fade					
Assemble/Insert Editing			•* ⁶		
16:9 Aspect ID Recording					
Analogue-like Jog Audio					
Professional Slow					
Motion Picture *4					
Quick Response					
Mechanism					
Power On Playback/					
Recording		• *4	•	•	• *4
Time Counter Display	•	•	•	•	
on Front Panel					
Digital Slow Range	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

Power

AC		• (100-240V)	• (220-240V)	• (100-240V)	
DC	• (12V)				• (12V)
Battery Operation	 (BP-L series) 				

BATTERIES, CHARGERS & AC ADAPTORS



BP-L40A Li-ion Rechargeable Battery Pack

NP-F750

Rechargeable Battery Pack

Camera: DSR-PD170P

Hard Disk: DSR-DU1

Cameras: DSR-570WSP | DSR-390P | DSR-1P | DSR-250P VTRs: DSR-70AP | DSR-50P



Cameras: DSR-570WSP | DSR-390P | DSR-1P | DSR-250P VTRs: DSR-70AP | DSR-50P







Battery Adaptor for BP-L40A/IL75

Cameras: **DSR-1P** Serial No for DSR-1P is 14151



Cameras: DSR-570WSP | DSR-390P | DSR-250P



AC-DN2B AC Adaptor

NP-F960/B

Rechargeable Battery Pack

Cameras: DSR-570WSP | DSR-390P | DSR-250P VTR: DSR-70AP



Camera: DSR-PD170P Hard Disk: DSR-DU1



Ni-MH Rechargeable Battery Pack

Cameras: DSR-570WSP | DSR-390P | DSR-1P | DSR-250P VTRs: DSR-70AP | DSR-50P



BC-M50 Battery Charger for BP-L40A/IL75/M50/M100

Cameras: DSR-570WSP | DSR-390P | DSR-1P | DSR-250P VTRs: DSR-70AP | DSR-50P



Camera: DSR-PDX10P



Battery Charger for BP-L40A/IL75/M50/M100 Cameras: DSR-570WSP | DSR-390P | DSR-1P | DSR-250P VTRs: DSR-70AP | DSR-50P



NP-QM71/QM91 Camera: DSR-PDX10P



Rechargeable Battery Pack for DSR-PDX10P





Cameras: DSR-PDX10P

DSRM-10 Remote Control Unit

VTRs: DSR-1500AP | DSR-45P | DSR-25 DSR-11 | DSR-50P



VTRs: DSR-45P | DSR-25 | DSR-11 | DSR-50P

Optional Accessories & Peripheral Equipment

RECORDING MEDIA



PDV-12CL Cleaning Cassette Tape (Standard size)

Cameras: DSR-570WSP | DSR-390P | DSR-1P | DSR-250P VTRs: DSR-200P | DSR-1800P | DSR-1600P DSR-1500AP | DSR-30P | DSR-30P | DSR-250 DSR-11 | DSR-70AP | DSR-50P



PDV-64MEM/124MEM/184MEM Digital Video Cassette (Master tape/Standard size)

Cameras: DSR-570WSP | DSR-390P | DSR-1P | DSR-250P VTRs: DSR-200P | DSR-1800P | DSR-1600P DSR-1500AP | DSR-30P | DSR-30P | DSR-250 DSR-11 | DSR-70AP | DSR-50P



Digital Video Cassette (Master tape/Mini size)

Cameras: DSR-570WSP | DSR-390P | DSR-1P | DSR-250P DSR-PD170P | DSR-PDX10P VTRs: DSR-2000P | DSR-1800P | DSR-1600P DSR-1500AP | DSR-45P | DSR-30P DSR-25 DSR-11 | DSR-70AP | DSR-50P



MSAC-FD2 Floppy Disc Adaptor for Memory Stick Cameras: DSR-250P | DSR-PD170P | DSR-PDX10P



PDV-34ME/64ME/94ME/124ME/184ME Digital Video Cassette (Standard size)

Cameras: DSR-570WSP | DSR-390P | DSR-1P | DSR-250P VTRs: DSR-2000P | DSR-1800P | DSR-4600P DSR-1500AP | DSR-45P | DSR-30P | DSR-25 DSR-11 | DSR-70AP | DSR-50P



PDVM-12CL Cleaning Cassette Tape (Mini size)

- Cameras: DSR-570WSP | DSR-390P | DSR-1P | DSR-250P DSR-PD170P | DSR-PDX10P
- VTRs: DSR-2000P | DSR-1600P | DSR-1600P DSR-1500AP | DSR-45P | DSR-30P | DSR-25 DSR-11 | DSR-70AP | DSR-50P



PDVM-12N/22N/32N/40 Digital Video Casette (Non IC type Mini Size)

- Cameras: DSR-570WSP | DSR-390P | DSR-1P | DSR-250P DSR-PD170P | DSR-PDX10P
- VTRs: DSR-2000P | DSR-1600P | DSR-1600P DSR-1500AP | DSR-45P | DSR-30P | DSR-25 DSR-11 | DSR-70AP | DSR-50P



Cameras: DSR-250P | DSR-PD170AP | DSR-PDX10P



PDV-34N/64N/94N/124N/184N Digital Video Cassette (Non IC type/Standard size)

Cameras: DSR-570WSP | DSR-390P | DSR-1P | DSR-250P VTRs: DSR-200P | DSR-1800P | DSR-1600P DSR-1500AP | DSR-30P | DSR-30P | DSR-25 DSR-11 | DSR-70AP | DSR-50P



PDVM-12ME/22ME/32ME/40M Digital Video Cassette (Mini size)

- Cameras: DSR-570WSP | DSR-390P | DSR-1P | DSR-250P DSR-PD170P | DSR-PDX10P
- VTRs: DSR-2000P | DSR-1800P | DSR-1600P DSR-1500AP | DSR-45P | DSR-30P | DSR-25 DSR-11 | DSR-70AP | DSR-50P



Memory Stick (8 MB/16 MB/32 MB/64 MB/128 MB)

Cameras: DSR-250P | DSR-PD170P | DSR-PDX10P



Cameras: DSR-250P | DSR-PD170P | DSR-PDX10P





BOARDS



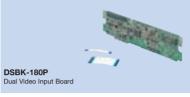
VTR: DSR-1500AP



DSBK-1504P Analogue Input Board

VTR: DSR-1500AP





VTR: DSR-70AP



DSBK-1601 SDI/AES/EBU Output Board

VTR: DSR-1600P



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

VTR: DSR-1800P

Ste d

DSBK-1802 SDTI (QSDI) Input/Output Board

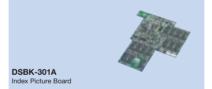
VTR: DSR-1800P



VTRs: DSR-1800P | DSR-1600P



VTR: DSR-2000P

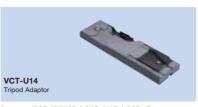


Cameras: DSR-570WSP | DSR-390P

MOUNTING & CARRYING ACCESSORIES



Cameras: DSR-PD170P | DSR-PDX10P



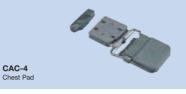
Cameras: DSR-570WSP | DSR-390P | DSR-1P



Camera: DSR-PD170P



Cameras: DSR-570WSP | DSR-390P



Camera: DSR-1P



Cameras: DSR-570WSP | DSR-390P | DSR-250P



VTR: DSR-70AP



Cameras: DSR-570WSP | DSR-390P | DSR-250P DSR-PD170P | DSR-PDX10P



Camera: DSR-PD170P



Cameras: DSR-570WSP | DSR-390P | DSR-250P



LC-DS500 Carrying Case (Hard type)

Cameras: DSR-570WSP | DSR-390P



Camera: DSR-PDX10P



Cameras: DSR-570WSP | DSR-390P | DSR-250P



Cameras: DSR-570WSP | DSR-390P



Cameras: DSR-570WSP | DSR-390P | DSR-1P



Turnkey packages for wireless microphones (please see p. 29 for details)











Cameras: DSR-250P | DSR-PD170P



Cameras: DSR-250P | DSR-PD170P



Cameras: DSR-250P | DSR-PD170P



lecret Condenser Microphone

Cameras: DSR-570WSP | DSR-390P | DSR-250P DSR-PDX10P



Cameras: DSR-1P



Cameras: DSR-570WSP | DSR-390P

CA-WR855





Cameras: DSR-570WSP | DSR-390P | DSR-250P Hard Disk: DSR-DU1





Cameras: DSR-570WSP | DSR-390P





Camera: DSR-PD170P

LSF-S58

Lens Hood



Camera: DSR-PDX10P



VF-37CPKS PL Filter and MC Protector

Camera: DSR-PDX10P



Camera: DSR-PDX10P



Camera: DSR-PDX10P

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DIGITAL CAMCORDERS

DSR-570WSP / DSR-390P / DXC-D50P/WSP Camcorders

DSR-1P Dockable Recorder

	DSR-570WSP	DSR-390P	DXC-D50P/WSP	DSR-1P
General				
ower requirements		DC 12 V (11 to 17 V)		DC 12 V +5/-1 V
ower consumption	26.1 W (with VF), 24 W (without VF)	22.1 W (with VF), 20 W (without VF)	26 W (with VF)	12 W
Operating temperature Storage temperature	0 °C to 40 °C	32 °F to 104 °F) -20 °C to 60 °C (-4 °F to 140 °F)	-10 °C to 45 °C (14 °F to 113 °F)	0 °C to 40 °C (32 °F to 104 °F) -20 °C to 60 °C (-4 °F to 140 °F)
ape speed		28.221 mm/s		28.221 mm/s
ecording/Playback time				
Standard size Mini size		184 min. 40 min.		184 min. 40 min.
ast forward/Rewind time		40 mm.		40 mm.
Standard size		Approx. 12 min.		Approx. 12 min.
Mini size	Approx. 70 min. with BP-L40A	Approx. 3 min.	Approx. 75 min with BP-L40A	Approx. 3 min. Approx. 75 min. with BP-L40A
Continuous recording time	Approx. 90 min. with BP-M50	Approx. 80 min. with BP-L40A Approx. 100 min. with BP-M50	Approx. 75 min with BF=E40A	(DSR-1P + DXC-D35P)
	Approx. 140 min. with BP-IL75	Approx. 180 min. with BP-IL75		(
lass	Approx. 200 min. with BP-M100 6.4 kg (14.1 lb 225.7 oz)	Approx. 230 min. with BP-M100 6.2 kg (13 lb 10 oz)	7.3 kg (16 lb 1 oz) (with VF, microphone, lens,	3.1 kg (6 lb 13 oz) (with battery)
1000	(with VF, microphone, lens, battery and tape)	(with VF, microphone, lens, battery and tape)	battery, tape and carrying handle)	3.1 kg (0 ib 13 02) (with battery)
Dimensions (W x H x D)	121 x 192 x 280 mm	121 x 192 x 270 mm	121 x 206 x 344 mm	118 x 185 x 185 mm
	(4 7/8 x 7 5/8 x 11 1/8 inches) (without projections) 242 x 247 x 547 mm	(4 7/8 x 7 5/8 x 10 3/4 inches) (without projections) 242 x 247 x 536 mm	(4 7/8 x 8 1/8 x 13 5/8 inches)	(4 3/4 x 7 3/8 x 7 3/8 inches)
	(9 5/8 x 9 3/4 x 21 5/8 inches) (with projections)	(9 5/8 x 9 3/4 x 21 1/8 inches) (with projections)		
Camera Section				
mage device	3-chip 2/3-inch, Interline-Transfer CCD	3-chip 1/2-inch, Interline-Transfer CCD	3-chip 2/3-inch, Interline-Transfer CCD	
Dptics		F1.4 medium index prism system		
ffective picture elements	980 (H) × 582 (V)	752 (H) x 582 (V)	980 (H) x 586 (V)	
otal picture elements	1038 (H) x 594 (V)	795 (H) x 596 (V)	1038 (H) x 1188 (V)	_
ensing area uilt-in filters	9.6 mm x 5.4 mm 1: 3200 K 2: 5600 K+1/8 ND	6.4 mm x 4.8 mm 1: 3200 K 2: 5600 K+1/8 ND	8.8 mm x 6.6 mm (D50P), 9.6 mm x 5.4 mm (D50WSP) 1: Clear 2: 1/4 ND	
ount-IN IIIters	1: 3200 K 2: 5600 K+1/8 ND 3: 5600 K 4: 5600 K+1/64 ND	1: 3200 K 2: 5600 K+1/8 ND 3: 5600 K 4: 5600 K+1/64 ND	1: Clear 2: 1/4 ND 3: 1/16 ND 4: 1/64 ND	—
ens mount	Sony 2/3-type bayonet mount	Sony 1/2-type bayonet mount	Sony 2/3-type bayonet mount	
ignal system		PAL colour system		
canning system orizontal frequency		2:1 interlaced, 625 lines, 50 fields/s 15.625 kHz		
ertical frequency		50 Hz		
ync system		Internal and external with VBS or BS signal		
lorizontal resolution	16:9 mode: 980 TV lines 4:3 mode: 850 TV lines	800 TV lines	920 TV lines (D50P), 850 TV lines in 4:3 mode and 800 TV lines in 16:9 mode (D50WSP)	
/ertical resolution		480 TV lines (without EVS), 530 TV lines (with EVS)		
finimum illumination	0.25 lx with F1.4, Hyper gain (36 dB+DPR)	0.4 lx with F1.4, Hyper gain (30 dB+DPR)*	0.5 lx with F1.4, Hyper gain (36 dB)	
ensitivity	0.4 lx with F1.8, Hyper gain (36 dB+DPR) F11 at 2000 lx (3200 K, 89.9% reflectance) (typical)	0.6 lx with F1.8, Hyper gain (30 dB+DPR)*1 F13 at 2000 lx (3200 K, 89.9% reflectance) (typical)	0.8 lx with F1.8, Hyper gain (36 dB) F11 at 2000 lx (3200 K, 89.9% reflectance) (typical)	
ain selection	-3 dB, 0 dB, 3 dB, 6 dB, 9 dB, 12 dB, 18 dB,	-3 dB, 0 dB, 3 dB, 6 dB, 9 dB, 12 dB, 18 dB,	-3 dB, 0 dB, 3 dB, 6 dB, 9 dB, 12 dB, 18 dB,	
	18 dB+DPR, 24 dB, 24 dB+DPR, Hyper gain (36 dB or 42 dB selectable)	18 dB+DPR, 24 dB, 24 dB+DPR, Hyper gain (30 dB+DPR)*1	24 dB, 30 dB, 36 dB	
Shutter speed selection		OFF, 1/60, 1/250, 1/500, 1/1000, 1/2000 s		
S/N ratio	61 dB (typical)	60 dB (typical)	63 dB (typical)	_
Registration Geometric distortion		0.05% (all zones, without lens) Below measurable level		
VTR Section	I			
	1			Luminance: 25 Hz to 5.5 MHz +1.0/-2.0 dB
		Luminance: 25 Hz to 5.5 MHz +1.0/-2.0 dB		5.75 MHz +0/-3.0 dB (Typical measerement
/ideo performance*2 Bandwidth		Chrominance: 25 Hz to 2.0 MHz +1.0/-2.0 dB		5.75 MHz +0/-3.0 dB (Typical measerement Chrominance: 25 Hz to 2.0 MHz +1.0/-2.0 dB
/ideo performance*2 Bandwidth S/N ratio		Chrominance: 25 Hz to 2.0 MHz +1.0/-2.0 dB More than 55 dB		5.75 MHz +0/-3.0 dB (Typical measerement Chrominance: 25 Hz to 2.0 MHz +1.0/-2.0 dE More than 55 dB
/ideo performance*2 Bandwidth S/N ratio K-factor (K2T, KPB)		Chrominance: 25 Hz to 2.0 MHz +1.0/-2.0 dB More than 55 dB Less than 2.0%		5.75 MHz +0/-3.0 dB (Typical measerement Chrominance: 25 Hz to 2.0 MHz +1.0/-2.0 dE More than 55 dB Less than 2.0%
/ideo performance*2 Bandwidth S/N ratio K-factor (K2T, KPB) Y/C delay Audio performance*2		Chrominance: 25 Hz to 2.0 MHz +1.0/-2.0 dB More than 55 dB Less than 2.0% Less than 30 ns		5.75 MHz +0/-3.0 dB (Typical measurement Chrominance: 25 Hz to 2.0 MHz +1.0/-2.0 dE More than 55 dB Less than 2.0% Less than 30 ns 2 CH mode (48 kHz/16-bit):
Video performance*2 Bandwidth S/N ratio K-factor (K2T, KPB) Y/C delay		Chrominance: 25 Hz to 2.0 MHz +1.0/-2.0 dB More than 55 dB Less than 2.0%		5.75 MHz +0/-3.0 dB (Typical measement) Chrominance: 25 Hz to 2.0 MHz +1.0/-2.0 dB More than 55 dB Less than 2.0% Less than 30 ns 2 CH mode (48 kHz/16-bit): 20 Hz to 20 kHz/12-bit): 20 Hz to 20 kHz/12-bit):
fideo performance** Bandwidth S/N ratio K-factor (K2T, KPB) Y/C delay Audio performance** Frequency response Dynamic range		Chrominance: 25 Hz to 2.0 MHz +1.0/-2.0 dB More than 55 dB Less than 2.0% Less than 20% less than 30 ns H mode (48 kHz/16-bit): 20 Hz to 12.0 kHz +0.5/-1. H mode (32 kHz/12-bit): 20 Hz to 14.5 kHz +0.5/-1 More than 80 dB		5.75 MHz +0/-3.0 dB (Typical measerement) Chrominance: 25 Hz to 20 MHz +1.0/-2.0 dE More than 55 dB Less than 3.0% 2 CH mode (48 KHz/16-bit); 20 Hz to 20 KHz +0.5/-1.0 dB 4 CH mode (32 KHz/12-bit); 20 Hz to 14.5 KHz +0.5/-1.0 dB More than 80 dB
/ideo performance*2 Bandwidth S/N ratio K-factor (K2T, KPB) Y/C delay Audio performance*2 Frequency response		Chrominance: 25 Hz to 2.0 MHz +1.0/-2.0 dB More than 55 dB Less than 2.0% Less than 30 ns H mode (48 kHz/16-bit): 20 Hz to 20 kHz +0.5/-1. H mode (32 kHz/12-bit): 20 Hz to 14.5 kHz +0.5/-1		5.75 MHz +0/-3.0 dB (Typical measement) Chrominane: 25 Hz to 20 MHz +1.0/-20 dB More than 55 dB Less than 2.0% Less than 30 ns 2 CH mode (48 kHz/16-bit): 20 Hz to 20 kHz -0.5/-1.0 dB 4 CH mode (32 kHz/12-bit): 20 Hz to 14.5 kHz -0.5/-1.0 dB
Video performance** Bandwidth S/N ratio K-factor (K2T, KPB) Y/C delay Audio performance** Frequency response Dynamic range	4 Ci	Chrominance: 25 Hz to 2.0 MHz +1.0/-2.0 dB More than 55 dB Less than 2.0% Less than 20% less than 30 ns H mode (48 kHz/16-bit): 20 Hz to 12.0 kHz +0.5/-1. H mode (32 kHz/12-bit): 20 Hz to 14.5 kHz +0.5/-1 More than 80 dB		Less than 2.0% Less than 30 ns 2 CH mode (48 kHz/16-bit): 20 Hz to 20 kHz +0.5/-1.0 dB 4 CH mode (32 kHz/12-bit): 20 Hz to 14.5 kHz +0.5/-1.0 dB More than 80 dB
Video performance** Bandwidth S/N ratio K-factor (K2T, KPB) Y/C delay Audio performance** Frequency response Dynamic range Distortion (THD)	4 Cl	Chrominance: 25 Hz to 2.0 MHz +1.0/-2.0 dB More than 55 dB Less than 2.0% Less than 2.0% Less than 30 ns H mode (48 kHz/16-bit): 20 Hz to 20 kHz +0.5/-1. H mode (32 kHz/12-bit): 20 Hz to 14.5 kHz +0.5/-1 More than 80 dB Less than 0.08% (1 kHz reference level, 48 kHz)	.0 dB	5.75 MHz +0/-3.0 dB (Typical measement) Chrominance: 25 Hz to 20 MHz +1.0/-2.0 dB More than 55 dB Less than 2.0% Less than 30 ns 2 CH mode (48 KH2/16-bit): 20 Hz to 20 KHz +0.5/-1.0 dB More than 80 dB Less than 0.08%
fideo performance** Bandwidth S/N ratio K-factor (K2T, KPB) Y/C delay Audio performance** Frequency response Dynamic range Distortion (THD)	4 Cl ctors Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Analogue Video In: BNC, 1.0 Vp-p, 75 Ω	Chrominance: 25 Hz to 2.0 MHz +1.0/-2.0 dB More than 55 dB Less than 2.0% Less than 2.0% H mode (48 kHz/16-bit): 20 Hz to 20 kHz +0.5/-1. H mode (32 kHz/12-bit): 20 Hz to 14.5 kHz +0.5/-1 More than 80 dB Less than 0.08% (1 kHz reference level, 48 kHz) Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2: XLR 3-pin female x2	Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2: XLR 3-pin female x2	5.75 MHz +0/-3.0 dB (Typical measerement) Chrominance: 25 Hz to 20 MHz +1.0/-2.0 dE More than 55 dB Less than 3.0 ns 2 CH mode (48 kHz/16-bit); 20 Hz to 20 kHz +0.5/-1.0 dB 4 CH mode (32 kHz/12-bit); 20 Hz to 14.5 kHz +0.5/-1.0 dB More than 80 dB Less than 0.08%
fideo performance** Bandwidth S/N ratio K-factor (K2T, KPB) Y/C delay Audio performance** Frequency response Dynamic range Distortion (THD) nput/Output Conne	4 Cl ctors Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Analogue Video In: BNC, 1.0 Vp-p, 75 Ω (with DSBK-501P optional board installed)	More than 55 dB Less than 2.0% Less than 2.0% Less than 30 ns H mode (48 kHz/16-bit): 20 Hz to 20 kHz +0.5/-1. H mode (32 kHz/12-bit): 20 Hz to 14.5 kHz +0.5/-1. More than 80 dB Less than 0.08% (1 kHz reference level, 48 kHz) Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2: XLR 3-pin female x2 -60 dBU, 3 KΩ ±4 dBu, 10 KΩ	0 dB Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2: XLR 3-pin female x2 -60 dBu, 3 Kα ±4 dBu, 10 kΩ	5.75 MHz +0/-3.0 dB (Typical measerement) Chrominane: 25 Hz to 20 MHz +1.0/-20 dB More than 55 dB Less than 2.0% Less than 30 ns 2 CH mode (48 kHz/16-bit): 20 Hz to 20 kHz -0.5/-1.0 dB 4 CH mode (32 kHz/12-bit): 20 Hz to 14.5 kHz -0.5/-1.0 dB More than 80 dB Less than 0.08% Genlock Video In: BNC, 1.0 Vp-p. 75 Q Ext Audio CH-1/2: XLR 3-pin female x2
fideo performance** Bandwidth S/N ratio K-factor (K2T, KPB) Y/C delay Audio performance** Frequency response Dynamic range Distortion (THD) nput/Output Conne	4 Cl ctors Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Analogue Video In: BNC, 1.0 Vp-p, 75 Ω (with DSBK-501P optional board installed) Ext Audio CH-1/2: XLR 3-pin female x2 -60 dBu, 3 kΩ ± 4 dBu, 10 kΩ	Chrominance: 25 Hz to 2.0 MHz +1.0/-2.0 dB More than 55 dB Less than 2.0% Less than 30 ns H mode (48 kHz/16-bit): 20 Hz to 20 kHz +0.5/-1. H mode (32 kHz/12-bit): 20 Hz to 14.5 kHz +0.5/-1 More than 80 dB Less than 0.08% (1 kHz reference level, 48 kHz) Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2: XLR 3-pin female x2 -60 dBu, 3 kΩ ± 4 dBu, 10 kΩ MIC In: XLR 3-pin female	Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2: XLR 3-pin female x2	$ \begin{array}{c} 5.75 \text{ MHz} + 0^{1}.3.0 \text{ dB} (Typical measurement Chrominane: 25 Hz to 20 MHz + 1.0/-2.0 \text{ dE} \\ \hline More than 55 dB \\ \hline Less than 2.0\% \\ Less than 30 ns \\ 2 \text{ CH mode} (48 \text{ KHz}/16-bit): \\ 20 \text{ Hz to 20 \text{ KHz}} + 0.5/-1.0 \text{ dB} \\ 4 \text{ CH mode} (32 \text{ KHz}/12-bit): \\ 20 \text{ Hz to 20 \text{ KHz}} + 0.5/-1.0 \text{ dB} \\ \hline Less than 0.08\% \\ \hline \\ $
fideo performance** Bandwidth S/N ratio K-factor (K2T, KPB) Y/C delay Audio performance** Frequency response Dynamic range Distortion (THD)	4 Cl ctors Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Analogue Video In: BNC, 1.0 Vp-p, 75 Ω (with DSBK-501P optional board installed) Ext Audio CH-12: XLR 3-pin female x2 -60 dBu, 3 kΩ ±4 dBu, 10 kΩ MiC In: XLR 3-pin female	More than 55 dB Less than 2.0% Less than 2.0% Less than 30 ns H mode (48 kHz/16-bit): 20 Hz to 20 kHz +0.5/-1. H mode (32 kHz/12-bit): 20 Hz to 14.5 kHz +0.5/-1. More than 80 dB Less than 0.08% (1 kHz reference level, 48 kHz) Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2: XLR 3-pin female x2 -60 dBU, 3 KΩ ±4 dBu, 10 KΩ	0 dB Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2: XLR 3-pin female x2 -60 dBu, 3 Kα ±4 dBu, 10 kΩ	5.75 MHz +0/-3.0 dB (Typical measerement <u>Chrominance: 26 Hz to 20 MHz +1.0/-20 dB</u> <u>More than 55 dB</u> <u>Less than 2.0%</u> <u>Less than 30 ns</u> <u>2 CH mode (48 kHz/16-bit)</u> ; 20 Hz to 20 kHz -0.5/-1.0 dB <u>4 CH mode (32 kHz/12-bit)</u> ; <u>20 Hz to 14.5 kHz -0.5/-1.0 dB</u> <u>More than 80 dB</u> <u>Less than 0.08%</u> <u>Genlock Video In: BNC,</u> <u>1.0 Vp-p. 75 Q</u> Ext Audio CH-112: XLR 3-pin female x2
ideo performance* Bandwidth S/N ratio K-factor (K2T, KPB) Y/C delay udio performance* Frequency response Dynamic range Distortion (THD) nput/Output Conne ignal inputs	4 Cl ctors Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Analogue Video In: BNC, 1.0 Vp-p, 75 Ω (with DSBK-501P optional board installed) Ext Audio CH-1/2: XLR 3-pin female x2 -60 dBu, 3 kΩ ±4 dBu, 10 kΩ MIC In: XLR 3-pin female TC In: BNC, 0.5 Vp-p to 18 Vp-p, 10 kΩ	More than 55 dB Less than 2.0% Less than 30 ns H mode (48 kHz/16-bit): 20 Hz to 20 kHz +0.5/-1. H mode (32 kHz/12-bit): 20 Hz to 14.5 kHz +0.5/-1. More than 80 dB Less than 0.08% (1 kHz reference level, 48 kHz) Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2: XLR 3-pin female x2 -60 dBu, 3 kΩ ±4 dBu, 10 kΩ MIC In: XLR 3-pin female TC In: BNC, 0.5 Vp-p to 18 Vp-p, 10 kΩ	0 dB Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2: XLR 3-pin female x2 -60 dBu, 3 KΩ ±4 dBu, 10 kΩ TC In: BNC, 0.5 Vp-p to 18 Vp-p, 10 kΩ	
ideo performance* Bandwidth S/N ratio K-factor (K2T, KPB) Y/C delay udio performance* Frequency response Dynamic range Distortion (THD) nput/Output Conne ignal inputs	4 Cl ctors Geniock Video In: BNC, 1.0 Vp-p, 75 Ω Analogue Video In: BNC, 1.0 Vp-p, 75 Ω (with DSBK-501P optional board installed) Ext Audio CH-1/2: XLR 3-pin female x2 -80 dBu, 3 kΩ ±4 dBu, 10 kΩ MiC In: XLR 3-pin female TC In: BNC, 1.0 Vp-p, sync negative, 75 Ω 26-pin male	More than 55 dB Less than 2.0% Less than 30 ns H mode (48 kHz/16-bit): 20 Hz to 20 kHz +0.5/-1. H mode (32 kHz/12-bit): 20 Hz to 14.5 kHz +0.5/-1 More than 80 dB Less than 0.08% (1 kHz reference level, 48 kHz) Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2: XLR 3-pin female x2 -60 dBu, 3 kΩ ±4 dBu, 10 kΩ MIC In: XLR 3-pin female TC In: BNC, 0.5 Vp-p to 18 Vp-p, 10 kΩ Video Out: BNC, 0.1 Vp-p, sync negative, 75 Ω 26-pin male	Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2: XLR 3-pin female x2 -60 dBu, 3 KΩ ±4 dBu, 10 kΩ TC In: BNC, 0.5 Vp-p to 18 Vp-p, 10 kΩ Camera head BNC connector: VBS: 1.0 Vp-p, sync negative	5.75 MHz +0/-3.0 dB (Typical measerment Chrominance: 25 Hz to 20 MHz + 1.0/-2.0 df More than 55 dB Less than 2.0% Less than 30 ns 2 CH mode (48 kHz/16-bit); 20 Hz to 20 kHz + 0.5/-1.0 dB A CH mode (32 kHz/12-bit); 20 Hz to 14.5 kHz + 0.5/-1.0 dB More than 80 dB Less than 0.08% Genlock Video In: BNC, 1.0 Vp-p.75 Ω Ext Audio CH-1/2: XLR 3-pin female x2 -690 dBu, 3K ± 4 dBu, 10 kΩ TC In: BNC, 0.5 Vp-p to 18 Vp-p, 10 kΩ Video Out: BNC, 1.0 Vp-p, sync negative, 75 Ω
ideo performance* Bandwidth S/N ratio K-factor (K2T, KPB) Y/C delay udio performance* Frequency response Dynamic range Distortion (THD) nput/Output Conne ignal inputs	4 Cl ctors Geniock Video In: BNC, 1.0 Vp-p, 75 Ω Analogue Video In: BNC, 1.0 Vp-p, 75 Ω (with DSBK-501P optional board installed) Ext Audio CH-1/2: XLR 3-pin female x2 -80 dBu, 3 kΩ ±4 dBu, 10 kΩ MiC In: XLR 3-pin female TC In: BNC, 1.0 Vp-p, sync negative, 75 Ω 26-pin male	More than 55 dB Less than 2.0% Less than 30 ns H mode (48 kHz/16-bit): 20 Hz to 20 kHz +0.5/-1. H mode (32 kHz/12-bit): 20 Hz to 14.5 kHz +0.5/-1 More than 80 dB Less than 0.08% (1 kHz reference level, 48 kHz) Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2: XLR 3-pin female x2 -60 dBu, 3 kΩ ±4 dBu, 10 kΩ MIC In: XLR 3-pin female TC In: BNC, 0.5 Vp-p to 18 Vp-p, 10 kΩ Video Out: BNC, 0.1 Vp-p, sync negative, 75 Ω 26-pin male	0 dB Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2: XLR 3-pin female x2 -60 dBu, 3 KΩ ±4 dBu, 10 KΩ TC In: BNC, 0.5 Vp-p to 18 Vp-p, 10 KΩ Camera head BNC connector: VBS: 1.0 Vp-p, sync negative 26-pin connector of CA-537 docked to DXC-D35P:	$ \begin{array}{c} 5.75 \text{ MHz} + 0'-3.0 \text{ dB (Typical measurement Chrominance: 25 Hz to 20 MHz + 10/-2.0 df \\ More than 55 dB \\ \hline \\ \text{Less than 3.0 s} \\ 2 \text{ CH mode (48 \text{ KHZ/16-bit):} \\ 2 0 \text{ Hz to 20 \text{ KHz} + 0.5/-1.0 dB } \\ 4 \text{ CH mode (48 \text{ KHZ/16-bit):} \\ 20 \text{ Hz to 20 \text{ KHz} + 0.5/-1.0 dB } \\ 4 \text{ CH mode (32 \text{ KHZ/12-bit):} \\ 20 \text{ Hz to 14.5 \text{ KHz} + 0.5/-1.0 dB } \\ \hline \\ \text{More than 80 dB } \\ \hline \\ \text{Less than 0.08\%} \\ \end{array} $
ideo performance* Bandwidth S/N ratio K-factor (K2T, KPB) Y/C delay udio performance* Frequency response Dynamic range Distortion (THD) nput/Output Conne ignal inputs	4 Cl ctors Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Analogue Video In: BNC, 1.0 Vp-p, 75 Ω Analogue Video In: BNC, 1.0 Vp-p, 75 Ω (with DSBK-501P optional board installed) Ext Audio CH-1/2: XLR 3-pin fernale x2 -60 dBu, 3 k2 ±4 dBu, 10 kΩ MiC In: XLR 3-pin fernale TC In: BNC, 0.5 Vp-p to 18 Vp-p, 10 kΩ Video Out: BNC, 1.0 Vp-p, sync negative 26-pin male VBS: 1.0 Vp-p, sync negative Y/R-Y/B-Y: Y: 1.0 Vp-p, sync negative Y/R-Y/B-Y: Y: 1.0 Vp-p, sync negative H=Y/B-Y: 0.52 Vp-p	More than 55 dB Less than 20% Less than 30 ns H mode (48 kHz/16-bit): 20 Hz to 20 kHz +0.5/-1. mode (32 kHz/12-bit): 20 Hz to 14.5 kHz +0.5/-1 More than 80 dB Less than 0.08% (1 kHz reference level, 48 kHz) Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2: XLR 3-pin female x2 -60 dBu, 3 kΩ ± 4 dBu, 10 kΩ MC In: XLR 3-pin female TC In: BNC, 0.5 Vp-p to 18 Vp-p, 10 kΩ Video Out: BNC, 1.0 Vp-p, sync negative, 75 Ω 26-pin male YRS: 1.0 Vp-p, sync negative +YR-YC-95 Kp-p	0 dB Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2: XLR 3-pin female x2 -60 dBu, 3 KΩ ±4 dBu, 10 KΩ TC In: BNC, 0.5 Vp-p to 18 Vp-p, 10 KΩ Camera head BNC connector: VBS: 1.0 Vp-p, sync negative Z6-pin connector of CA-37P docked to DXC-D35P: VBS: 10 Vp-p, sync negative VBS: 10 Vp-p, syn	5.75 MHz +0/-3.0 dB (Typical messeremen Chrominance: 25 Hz to 20 MHz + 1.0/-2.0 d More than 55 dB Less than 2.0% Less than 3.0 ns 2 CH mode (48 KHz/16-bit): 20 Hz to 20 KHz + 0.5/-1.0 dB 4 CH mode (32 KHz/12-bit): 20 Hz to 21 KHz + 0.5/-1.0 dB More than 80 dB Less than 0.08% Genicok Video In: BNC, 1.0 Vp-p.75 Ω Ext Audio CH-1/2: XLR 3-pin female x2 -e00 dBu, 3 kΩ ± 4 dBu, 10 kΩ Video Out: BNC, 1.0 Vp-p, sync negative, 75 Ω S-Video: DIM 4-pin Y: 1.0 Vp-p. 75 Ω
ideo performance* Bandwidth S/N ratio K-factor (K2T, KPB) Y/C delay udio performance* Frequency response Dynamic range Distortion (THD) nput/Output Conne ignal inputs	4 Cl ctors Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Analogue Video In: BNC, 1.0 Vp-p, 75 Ω Analogue Video In: BNC, 1.0 Vp-p, 75 Ω (with DSBK-501P optional board installed) Ext Audio CH-1/2: XLR 3-pin fernale x2 -60 dBu, 3 k2 ±4 dBu, 10 kΩ MiC In: XLR 3-pin fernale TC In: BNC, 0.5 Vp-p to 18 Vp-p, 10 kΩ Video Out: BNC, 1.0 Vp-p, sync negative 26-pin male VBS: 1.0 Vp-p, sync negative Y/R-Y/B-Y: Y: 1.0 Vp-p, sync negative Y/R-Y/B-Y: Y: 1.0 Vp-p, sync negative H=Y/B-Y: 0.52 Vp-p	More than 55 dB Less than 20% Less than 30 ns H mode (48 kHz/16-bit): 20 Hz to 20 kHz +0.5/-1. mode (32 kHz/12-bit): 20 Hz to 14.5 kHz +0.5/-1 More than 80 dB Less than 0.08% (1 kHz reference level, 48 kHz) Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2: XLR 3-pin female x2 -60 dBu, 3 kΩ ± 4 dBu, 10 kΩ MC In: XLR 3-pin female TC In: BNC, 0.5 Vp-p to 18 Vp-p, 10 kΩ Video Out: BNC, 1.0 Vp-p, sync negative, 75 Ω 26-pin male YRS: 1.0 Vp-p, sync negative +YR-YC-95 Kp-p	0 dB Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2: XLR 3-pin female x2 -60 dBu, 3 KΩ ±4 dBu, 10 KΩ TC In: BNC, 0.5 Vp-p to 18 Vp-p, 10 KΩ Camera head BNC connector: VBS: 1.0 Vp-p, sync negative Z6-pin connector of CA-37P docked to DXC-D35P: VBS: 10 Vp-p, sync negative VBS: 10 Vp-p, syn	5.75 MHz +0/-3.0 dB (Typical measerment Chrominance: 25 Hz to 20 MHz + 1.0/-2.0 df More than 55 dB Less than 2.0% Less than 30 ns 2 CH mode (48 kHz/16-bit): 20 Hz to 20 kHz +0.5/-1.0 dB 4 CH mode (32 kHz/12-bit): 20 Hz to 20 kHz +0.5/-1.0 dB 4 CH mode (32 kHz/12-bit): 20 Hz to 14.5 kHz +0.5/-1.0 dB More than 80 dB Less than 0.08% Geniock Video In: BNC, 1.0 Vp-p, 75 Ω Audio CH-1/2: XLR 3-pin female x2 -60 dBu, 3K ± 4 dBu, 10 kΩ TC In: BNC, 0.5 Vp-p to 18 Vp-p, 10 kΩ Video Out: BNC, 1.0 Vp-p, ync negative, 75 Ω S-Video: DIN 4-pin Y: 10 Vp-p, sync negative, 75 Ω Audio CH-1/2: RCA PIN, -10 dBu, 47 kΩ
ideo performance* Bandwidth S/N ratio K-factor (K2T, KPB) Y/C delay udio performance* Frequency response Dynamic range Distortion (THD) nput/Output Conne ignal inputs	4 Cl ctors Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Analogue Video In: BNC, 1.0 Vp-p, 75 Ω (with DSBK-501P optional board installed) Ext Audio CH-1/2: XLR 3-pin female x2 -60 dBu, 3 kΩ ±4 dBu, 10 kΩ MIC In: XLR 3-pin female x2 -60 dBu, 3 kΩ ±4 dBu, 10 kΩ MIC In: SNC, 0.5 Vp-p to 18 Vp-p, 10 kΩ Video Out: BNC, 10 Vp-p, syncn regative YR-Y/B-Y: Y: 1.0 Vp-p, syncn regative -R-Y/B-Y. 252 Vp-p Y(C: Y: 1.0 Vp-p, syncn regative C: 0.3 Vp-p (burst level)	More than 55 dB Less than 20% Less than 30 ns H mode (48 kHz/16-bit): 20 Hz to 20 kHz +0.5/-1. mode (32 kHz/12-bit): 20 Hz to 14.5 kHz +0.5/-1 More than 80 dB Less than 0.08% (1 kHz reference level, 48 kHz) Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2: XLR 3-pin female x2 -60 dBu, 3 kΩ ± 4 dBu, 10 kΩ MC In: XLR 3-pin female TC In: BNC, 0.5 Vp-p to 18 Vp-p, 10 kΩ Video Out: BNC, 1.0 Vp-p, sync negative, 75 Ω 26-pin male YRS: 1.0 Vp-p, sync negative +YR-YC-95 Kp-p	0 dB Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2: XLR 3-pin female x2 -60 dBu, 3 KΩ ±4 dBu, 10 KΩ TC In: BNC, 0.5 Vp-p to 18 Vp-p, 10 KΩ Camera head BNC connector: VBS: 1.0 Vp-p, sync negative Z6-pin connector of CA-37P docked to DXC-D35P: VBS: 10 Vp-p, sync negative VBS: 10 Vp-p, syn	5.75 MHz +0/-3.0 dB (Typical measerment Chrominance: 25 Hz to 20 MHz + 1.0/-2.0 df More than 55 dB Less than 2.0% Less than 3.0 ns 2 CH mode (48 KHz/16-bit): 20 Hz to 20 KHz + 0.5/-1.0 dB 4 CH mode (32 KHz/12-bit): 20 Hz to 21 KHz + 0.5/-1.0 dB 4 CH mode (32 KHz/12-bit): 20 Hz to 14.5 KHz + 0.5/-1.0 dB More than 80 dB Less than 0.08% Statulo: CH-1/2: XLR 3-pin female x2 +60 dBu, 3 k2 ± 4 dBu, 10 k2 Tc In: BNC, 0.5 Vp-p to 18 Vp-p, 10 k2 Video Out: BNC, 1.0 Vp-p, sync negative, 75 Ω S-Video: DIN 4-pin Y: 1.0 Vp-p, 75 Ω
ideo performance** Bandwidth S/N ratio K-factor (K2T, KPB) Y/C delay udio performance** Frequency response Dynamic range Distortion (THD) nput/Output Conne signal inputs	4 Cl Centors Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Analogue Video In: BNC, 1.0 Vp-p, 75 Ω (with DSBK-501P optional board installed) Ext Audio CH-1/2: XLB 3-pin female x2 MIC In: XLR 3-pin female x2 MIC In: SNC, 0.5 Vp-p to 18 Vp-p, 10 kΩ Video Out: BNC, 10 Vp-p, sync negative YR-Y/B-Y: Y: 1.0 Vp-p, sync negative YR-Y/B-Y: Y: 1.0 Vp-p, sync negative R-Y/B-Y. Oxp- (burst leve) S-Video: DIN 4-pin, 1.0 Vp-p, 75 Ω DV Out: 6-oni, IEEE1394-based	More than 55 dB Less than 2.0% Less than 2.0% Less than 30 ns H mode (48 kHz/16-bit): 20 Hz to 20 kHz +0.5/-1. H mode (32 kHz/12-bit): 20 Hz to 14.5 kHz +0.5/-1. More than 80 dB Less than 0.08% (1 kHz reference level, 48 kHz) Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2: XLR 3-pin female x2 -60 dBu, 3 K2 ±4 dBu, 10 kΩ MIC In: XLR 3-pin female TC In: SNC, 0.5 Vp-p to 18 Vp-p, 10 kΩ Video Out: BNC, 1.0 Vp-p, sync negative YR-Y/B-Y: Y. 1.0 Vp-p, sync negative Y-R-Y: Y. 1.0 Vp-p, sync negative Y-R-Y: Y. 1.0 Vp-p, sync negative YR-Y: Y. 1.0 Vp-p, sync negative YR-Y: Y. 1.0 Vp-p, sync negative YY: 1.0 Vp-p, sync negative	0 dB Genlock Video In: ENC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2: XLR 3-pin female x2 -60 dBu, 3 KΩ ±4 dBu, 10 kΩ TC In: BNC, 0.5 Vp-p to 18 Vp-p, 10 kΩ Camera head BNC connector: VBS: 1.0 Vp-p, sync negative 26-pin connector of CA-537P docked to DXC-D35P: VBS: 1.0 Vp-p, sync negative, C: 0.3 Vp-p fourst level) RGB: 1.4 Vp-p VIR-VIS-Y: 1.0 Vp-p, sync negative, C: 0.3 Vp-p fourst level) RGB: 1.4 Vp-p VIC8: VI.10 Vp-p, sync negative, C: 0.3 Vp-p fourst level) RGB: 1.4 Vp-p VIC8: DIN 4-pin	5.75 MHz +0/-3.0 dB (Typical measerement Chrominance: 25 Hz to 20 MHz + 1.0/-2.0 df More than 55 dB Less than 2.0% Less than 30 ns 2 CH mode (48 kHz/16-bit); 20 Hz to 20 kHz +0.5/-1.0 dB 4 CH mode (32 kHz/12-bit); 20 Hz to 20 kHz +0.5/-1.0 dB 4 CH mode (32 kHz/12-bit); 20 Hz to 14.5 kHz +0.5/-1.0 dB More than 80 dB Less than 0.08% Geniock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2; XLR 3-pin female x2 -60 dBu, 3K ± 4 dBu, 10 kΩ TC In: BNC, 0.5 Vp-p to 18 Vp-p, 10 kΩ Video Out: BNC, 1.0 Vp-p, ync negative, 75 Ω S-Video: DIN 4-pin Y: 10 Vp-p, sync negative, 75 Ω C: 0.3 Vp-p, 75 Ω Audio CH-1/2; RCA PIN, -10 dBu, 47 kΩ
fideo performance** Bandwidth S/N ratio K-factor (K2T, KPB) Y/C delay Audio performance** Frequency response Dynamic range Distortion (THD) nput/Output Conne Signal inputs	4 Cl Ctors Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Analogue Video In: BNC, 1.0 Vp-p, 75 Ω (with DSBK-501P optional board installed) Ext Audio CH-12: XLR 3-pin female x2 -60 dBu, 3 kΩ ±4 dBu, 10 kΩ Wideo Out: BNC, 1.0 Vp-p, sync negative TC In: BNC, 0.5 Vp-p to 18 Vp-p, 10 kΩ Video Out: BNC, 1.0 Vp-p, sync negative 70 dBu, 26-pin male VBS: 1.0 Vp-p, sync negative R-Y/B-Y: 0.525 Vp-p Y/C: Y: 1.0 Vp-p, sync negative R-Y/B-Y: 0.525 Vp-p Y/C: Y: 1.0 Vp-p, sync negative C: 0.3 Vp-p (burst level) S-Video: DIN 4-pin, 10 Vp-p, 75 Ω DV Out: 6-pin, IEEE1394-based Audio CH-12: Phono10 dBu, 47 kΩ	More than 55 dB Less than 20% Less than 30 ns H mode (48 kHz/16-bit): 20 Hz to 20 kHz +0.5/-1. I mode (32 kHz/12-bit): 20 Hz to 14.5 kHz +0.5/-1 More than 80 dB Less than 0.08% (1 kHz reference level, 48 kHz) Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2: XLR 3-pin female x2 -60 dBu, 3 kQ ± 4 dBu, 10 kQ MCI In: SLR 3-pin female z1 -60 dBu, 3 kQ ± 4 dBu, 10 kQ WIC In: SLR 3-pin female z2 -60 dBu, 3 kQ ± 4 dBu, 10 kQ WIC In: SLR 7-pin female z2 -60 dBu, 3 kQ ± 4 dBu, 10 kQ WIC In: SURC, 0.5 Vp-p to 18 Vp-p, 10 kQ Video Out: BNC, 1.0 Vp-p, sync negative -7VIB-Y: 1.0 Vp-p, sync negative -8V/B-Y: 0.525 Vp-p -9V, Y: Y: 1.0 Vp-p, sync negative -7VIB-Y: 0.525 Vp-p SVC: Y: 1.0 Vp-p, sync negative C: 0.3 Vp-p (burst level) -Video: DIN 4-pin, 1.0 Vp-p, 75 Ω DV Out: 6-pin, IEEE1394-based Audio CH-1/2: Phono, -10 dBu, 47 kQ	Q dB Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2: XLR 3-pin female x2 -60 dBu, 3 KΩ ±4 dBu, 10 KΩ TC In: BNC, 0.5 Vp-p to 18 Vp-p, 10 kΩ Camera head BNC connector: VBS: 1.0 Vp-p, sync negative 26-pin connector of CA-537P docked to DXC-D35P: VBS: 1.0 Vp-p, sync negative 27(Y-Y: 1.0 Vp-p, sync negative, R-Y/B-Y: 0.525 Vp-p Y(Y: Y: 1.0 Vp-p, sync negative, C: 0.3 Vp-p (burst level) RGB: 1.4 Vp-p Video UL: BNC, 1.0 Vp-p, sync negative, 75 Ω S-Video: DIN 4-pin Y: 1.0 Vp-p, sync negative	5.75 MHz +0/-3.0 dB (Typical measerement Chrominance: 25 Hz to 20 MHz + 1.0/-2.0 df More than 55 dB Less than 2.0% Less than 30 ns 2 CH mode (48 kHz/16-bit); 20 Hz to 20 kHz +0.5/-1.0 dB 4 CH mode (32 kHz/12-bit); 20 Hz to 20 kHz +0.5/-1.0 dB 4 CH mode (32 kHz/12-bit); 20 Hz to 14.5 kHz +0.5/-1.0 dB More than 80 dB Less than 0.08% Geniock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2; XLR 3-pin female x2 -60 dBu, 3K ± 4 dBu, 10 kΩ TC In: BNC, 0.5 Vp-p to 18 Vp-p, 10 kΩ Video Out: BNC, 1.0 Vp-p, ync negative, 75 Ω S-Video: DIN 4-pin Y: 10 Vp-p, sync negative, 75 Ω C: 0.3 Vp-p, 75 Ω Audio CH-1/2; RCA PIN, -10 dBu, 47 kΩ
ideo performance* Bandwidth S/N ratio K-factor (K2T, KPB) Y/C delay udio performance* Frequency response Dynamic range Distortion (THD) nput/Output Conne ignal inputs	4 Cl Centors Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Analogue Video In: BNC, 1.0 Vp-p, 75 Ω (with DSBK-501P optional board installed) Ext Audio CH-1/2: XLB 3-pin female x2 MIC In: XLR 3-pin female x2 MIC In: SNC, 0.5 Vp-p to 18 Vp-p, 10 kΩ Video Out: BNC, 10 Vp-p, sync negative YR-Y/B-Y: Y: 1.0 Vp-p, sync negative YR-Y/B-Y: Y: 1.0 Vp-p, sync negative R-Y/B-Y. Oxp- (burst leve) S-Video: DIN 4-pin, 1.0 Vp-p, 75 Ω DV Out: 6-oni, IEEE1394-based	More than 55 dB Less than 2.0% Less than 2.0% Less than 30 ns H mode (48 kHz/16-bit): 20 Hz to 20 kHz +0.5/-1. H mode (32 kHz/12-bit): 20 Hz to 14.5 kHz +0.5/-1. More than 80 dB Less than 0.08% (1 kHz reference level, 48 kHz) Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2: XLR 3-pin female x2 -60 dBu, 3 K2 ±4 dBu, 10 kΩ MIC In: XLR 3-pin female TC In: SNC, 0.5 Vp-p to 18 Vp-p, 10 kΩ Video Out: BNC, 1.0 Vp-p, sync negative YR-Y/B-Y: Y. 1.0 Vp-p, sync negative Y-R-Y: Y. 1.0 Vp-p, sync negative Y-R-Y: Y. 1.0 Vp-p, sync negative YR-Y: Y. 1.0 Vp-p, sync negative YR-Y: Y. 1.0 Vp-p, sync negative YY: 1.0 Vp-p, sync negative	0 dB Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2: XLR 3-pin female x2 -60 dBu, 3 KΩ ±4 dBu, 10 KΩ TC In: BNC, 0.5 Vp-p to 18 Vp-p, 10 KΩ Camera head BNC connector: VBS: 1.0 Vp-p, sync negative 26-pin connector of CA-537 docked to DXC-D35P: VBS: 1.0 Vp-p, sync negative, C. 03 Vp-p furst level RGB: 1.4 Vp-p Sync negative, C. 03 Vp-p furst level RGB: 1.4 Vp-p, sync negative, C. 03 Vp-p furst level RGB: 1.4 Vp-p, sync negative S-Video ULI SNC, 1.0 Vp-p, sync negative, 75 Ω S-Video: DIN 4-pin Y: 1.0 Vp-p, sync negative C: 0.3 Vp-p (burst level) Audio CH-1/2: Phono, -10 dBu, 47 KΩ	5.75 MHz +0/-3.0 dB (Typical measerment Chrominance: 25 Hz to 20 MHz + 1.0/-2.0 df More than 55 dB Less than 2.0% Less than 30 ns 2 CH mode (48 kHz/16-bit): 20 Hz to 20 kHz +0.5/-1.0 dB 4 CH mode (32 kHz/12-bit): 20 Hz to 20 kHz +0.5/-1.0 dB 4 CH mode (32 kHz/12-bit): 20 Hz to 14.5 kHz +0.5/-1.0 dB More than 80 dB Less than 0.08% Geniock Video In: BNC, 1.0 Vp-p, 75 Ω Audio CH-1/2: XLR 3-pin female x2 -60 dBu, 3K ± 4 dBu, 10 kΩ TC In: BNC, 0.5 Vp-p to 18 Vp-p, 10 kΩ Video Out: BNC, 1.0 Vp-p, ync negative, 75 Ω S-Video: DIN 4-pin Y: 10 Vp-p, sync negative, 75 Ω Audio CH-1/2: RCA PIN, -10 dBu, 47 kΩ
ideo performance ^{*2} Bandwidth S/N ratio K-factor (K2T, KPB) Y/C delay widio performance ^{*2} Frequency response Dynamic range Distortion (THD) nput/Output Conne ignal inputs	4 Cl ctors Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Analogue Video In: BNC, 1.0 Vp-p, 75 Ω (with DSBK-501P optional board installed) Ext Audio CH-1/2: XLR 3-pin female x2 -80 dBu, 3 kΩ ±4 dBu, 10 kΩ MC In: XLR 3-pin female x2 ±4 dBu, 10 kΩ Video Out: BNC, 1.0 Vp-p, sync negative, 75 Ω 26-pin male VBS: 1.0 Vp-p, sync negative -75 Ω 26-pin male VBS: 1.0 Vp-p, sync negative -75 Ω 26-pin male VBS: 1.0 Vp-p, sync negative -75 Ω 26-pin, 1.0 Vp-p, 57 Ω DV Out: 6-pin, IEEET394-based Audio CH-1/2: Phono, -10 dBu, 47 kΩ Monitor Out: BNC, 1.0 Vp-p, 57 Ω	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	0 dB Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2: XLR 3-pin female x2 -60 dBu, 3 KΩ ±4 dBu, 10 kΩ TC In: BNC, 0.5 Vp-p to 18 Vp-p, 10 kΩ Camera head BNC connector: VBS: 1.0 Vp-p, sync negative 26-pin connector of CA-37P docked to DXC-D35P: VBS: 1.0 Vp-p, sync negative, C: 0.3 Vp-p fourst level RGB: 1.4 Vp-p VR-VB: Y: 1.0 Vp-p, sync negative, C: 0.3 Vp-p fourst level RGB: 1.4 Vp-p VIC: VI: 10 Vp-p, sync negative, C: 0.3 Vp-p fourst level RGB: 1.4 Vp-p VIC: DI A-pin YIC: UN 4-pin YIC: 10 Vp-p, sync negative C: 0.3 Vp-p fourst level R: 0.3 Vp-p fourst level C: 0.3 Vp-p fourst level Audio CH-1/2: Phono, -10 dBu, 47 KΩ TC Out: BNC, 1.0 Vp-7 5Ω	$ \begin{array}{c} 5.75 \text{ MHz} + 0/-3.0 \text{ dB (Typical measurement Chrominane: 25 Hz to 20 MHz + 1.0/-2.0 \text{ df} \\ \hline \\ \hline More than 55 \text{ dB} \\ \hline \\ \text{Less than 2.0\% \\ \text{Less than 30 ns} \\ 2 \text{ CH mode (48 \text{ KHZ/16-bit):} \\ 20 \text{ Hz to 20 \text{ KHz} - 0.5/-1.0 \text{ dB} \\ 4 \text{ CH mode (32 \text{ KHZ/12-bit):} \\ 20 \text{ Hz to 20 \text{ KHz} - 0.5/-1.0 \text{ dB} \\ \text{4 CH mode (32 \text{ KHZ/12-bit):} \\ 20 \text{ Hz to 14.5 \text{ KHz} - 0.5/-1.0 \text{ dB} \\ \hline \\ \hline \\ \text{More than 80 \text{ dB} \\ \hline \\ \text{Less than 0.08\% } \end{array} $ \\ \\ \hline
ideo performance ^{*2} Bandwidth S/N ratio K-factor (K2T, KPB) Y/C delay widio performance ^{*2} Frequency response Dynamic range Distortion (THD) nput/Output Conne ignal inputs		More than 55 dB Less than 20% Less than 30 ns H mode (48 kHz/16-bit): 20 Hz to 20 kHz +0.5/-1. I mode (32 kHz/12-bit): 20 Hz to 14.5 kHz +0.5/-1 More than 80 dB Less than 0.08% (1 kHz reference level, 48 kHz) Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2: XLR 3-pin female x2 -60 dBu, 3 kQ ±4 dBu, 10 kQ MCI In: SLR, 3-pin female x2 -60 dBu, 3 kQ ±4 dBu, 10 kQ MCI In: SLR, 5-pin female x2 -70 HZ, 10 Vp-p, sync negative, 75 Ω Video Out: BNC, 1.0 Vp-p, sync negative, 75 Ω Video Out: BNC, 1.0 Vp-p, sync negative, 75 Ω Video In: BNC, 1.0 Vp-p, sync negative -70 HZ, 10 Vp-p, sync negative -71.0 Vp-p, sync negative -72.0 Vp-p (burst level) S-Video: DN +pin, 10 Vp-p, 75 Ω DV Out: 6-pin, IEEE1394-based Audio CH-12: Phono, -10 dBu, 47 kΩ Monitor Out: BNC, 1.0 Vp-p, 52 Ω DV Out: 6-Nin, 10 H2, P5 Ω DC In: XLR 4-pin male	0 dB Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2: XLR 3-pin female ×2 -60 dBu, 3 KQ ±4 dBu, 10 KQ TC In: BNC, 0.5 Vp-p to 18 Vp-p, 10 KQ Camera head BNC connector: VBS: 1.0 Vp-p, sync negative 26-pin connector of CA-37P docked to DXC-D35P: VBS: 1.0 Vp-p, sync negative V/R-V/B-Y: 1.0 Vp-p, sync negative V/R-Y/B-Y: 1.0 Vp-p, sync negative, 75 Ω V/GeO UL: BNC, 1.0 Vp-p, sync negative, 75 Ω S-Video: DIN 4-pin Y: 1.0 Vp-p, sync negative C: 0.3 Vp-p (burst level) Audio CH-1/2: Phono, -10 dBu, 47 KQ TC Out: BNC, 1.0 Vp-p, 75 Ω DC In: XLR 4-pin male	5.75 MHz +0/-3.0 dB (Typical measerement Chrominane: 25 Hz to 20 MHz +1.0/-2.0 df More than 55 dB Less than 3.0 ns 2 CH mode (48 kHz/16-bit); 20 Hz to 20 kHz +0.0/-2.0 df 2 CH mode (48 kHz/16-bit); 20 Hz to 20 kHz +0.0/-1.0 dB 4 CH mode (32 kHz/12-bit); 20 Hz to 14.5 kHz +0.5/-1.0 dB 4 CH mode (32 kHz/12-bit); 20 Hz to 14.5 kHz +0.5/-1.0 dB More than 80 dB Less than 0.08% Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2; XLR 3-pin female x2 -60 dBu, 3K2 ±4 dBu, 10 K2 TC In: BNC, 0.5 Vp-p to 18 Vp-p, 10 k2 Video Out: BNC, 1.0 Vp-p, sync negative, 75 Ω S-Video: DIM 4-pin Y: 1.0 Vp-p, 75 Ω Audio CH-1/2; RCA PIN, -10 dBu, 47 kΩ TC Out: BNC, 1.0 Vp-p, 75 Ω Analogue Interface: Pro 50-pin
ideo performance ^{*2} Bandwidth S/N ratio K-factor (K2T, KPB) Y/C delay widio performance ^{*2} Frequency response Dynamic range Distortion (THD) nput/Output Conne ignal inputs	4 Cl ctors Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Analogue Video In: BNC, 1.0 Vp-p, 75 Ω Analogue Video In: BNC, 1.0 Vp-p, 75 Ω (with DSBK-501P optional board installed) Ext Audio CH-1/2: XLR 3-pin fernale x2 -60 dBu, 3 k2 ±4 dBu, 10 kΩ MiC In: XLR 3-pin fernale k2 -70 in: BNC, 0.5 Vp-p to 18 Vp-p, 10 kΩ Video UL: BNC, 1.0 Vp-p, sync negative -70 P, sync negative -70 P, 90, sync negative -70 P, 10 Vp-p, sync negative -70 P, 10 Vp-p, 50 Ω -75 Ω	More than 55 dB Less than 20% Less than 30 ns H mode (48 kHz/16-bit): 20 Hz to 20 kHz +0.5/-1 I mode (32 kHz/12-bit): 20 Hz to 14.5 kHz +0.5/-1 More than 80 dB Less than 0.08% (1 kHz reference level, 48 kHz) Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2: XLR 3-pin female x2 -60 dBu, 3 KQ ±4 dBu, 10 kΩ MIC In: XLR 3-pin female TC In: BNC, 0.5 Vp-p to 18 Vp-p, 10 kΩ Video Out: BNC, 1.0 Vp-p, sync negative, 75 Ω Video Out: BNC, 1.0 Vp-p, sync negative, 75 Ω Video Out: C, 0.10 Vp-p, sync negative, 75 Ω Video Out: C, 0.10 Vp-p, sync negative, 75 Ω Video Out: C, 0.10 Vp-p, sync negative, 75 Ω TC Out: BNC, 1.0 Vp-p, sync negative, 75 Ω DV Out: G-pin, IEEE 1384-based Audio CH-12: Phono, -10 dBu, 47 kΩ Monitor Out: BNC, 1.0 Vp-p, 75 Ω DV Out: C, 0.10 Vp-p, 75 Ω DC Out: XLR 4-pin female DC C In: XLR 4-pin female Battery Terminal: 5-pin	0 dB Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2: XLR 3-pin female x2 -60 dBu, 3 kΩ ±4 dBu, 10 kΩ TC In: BNC, 0.5 Vp-p to 18 Vp-p, 10 kΩ Camera head BNC connector: VBS: 1.0 Vp-p, sync negative 26-pin connector of CA-537 docked to DXC-D35P: VBS: 1.0 Vp-p, sync negative V/R-VB-Y: 10 Vp-p, sync negative, 75 Ω SVIdeo: DIN 4-pin Y: 1.0 Vp-p, sync negative, 75 Ω SVIdeo: DIN 4-pin Y: 1.0 Vp-p, sync negative Cout: BNC, 1.0 Vp-p, sync negative, 75 Ω SVIdeo: DIN 4-pin Y: 1.0 Vp-p, sync negative DC un: LR 4-pin male DC Un: LR 4-pin female Earphone: Nimi jack	5.75 MHz +0/-3.0 dB (Typical measerment Chrominane: 25 Hz to 20 MHz + 1.0/-2.0 df More than 55 dB Less than 2.0% Less than 30 ns 2 CH mode (48 kHz/16-bit); 20 Hz to 20 kHz + 0.5/-1.0 dB 4 CH mode (32 kHz/12-bit); 20 Hz to 20 kHz + 0.5/-1.0 dB 4 CH mode (32 kHz/12-bit); 20 Hz to 14.5 kHz +0.5/-1.0 dB More than 80 dB Less than 0.08% Gentock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2; XLR 3-pin female x2 -60 dBu, 3 k2 ±4 dBu, 10 k2 TC In: BNC, 0.5 Vp to 18 Vp-p, 10 k2 Video Out: BNC, 1.0 Vp-p, sync negative, 75 Ω S-Video: DIM 4-pin Y: 1.0 Vp-p, 75 Ω Audio CH-1/2; RCA PIN, -10 dBu, 47 k2 TC Out: BNC, 1.0 Vp-p, 75 Ω Analogue Interface: Pro 76-pin Digital DC In: XLR 4-pin male
fideo performance ^{*2} Bandwidth S/N ratio K-factor (K2T, KPB) Y/C delay V/C delay Prequency response Dynamic range Distortion (THD) nput/Output Conne Signal inputs	4 Cl ctors Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Analogue Video In: BNC, 1.0 Vp-p, 75 Ω (with DSBK-501P optional board installed) Ext Audio CH-1/2: XLR 3-pin female x2 -00 dBu, 3 kΩ ±4 dBu, 10 kΩ MC In: XLR 3-pin female X2 Video Out: BNC, 0.5 Vp-p to 18 Vp-p, 10 kΩ Video Out: BNC, 1.0 Vp-p, sync negative YR-V/B-Y: Y: 1.0 Vp-p, sync negative WBS: 1.0 Vp-p, sync negative C: 0.3 Vp-p (burst level) S-Video: DIN 4-pin, 1.0 Vp-p, 5Ω DV Out: 6-pin, IEEE1394-based Audio CH-1/2: Phono, -10 dBu, 47 kΩ Monitor Out: BNC, 1.0 Vp-p, 75 Ω DC Out: XLR 4-pin male Battery Terminal: 5-pin Battery Terminal: 5-pin Battery Terminal: 5-pin	More than 55 dB Less than 2.0% Less than 30 ns H mode (48 kHz/16-bit): 20 Hz to 20 kHz +0.5/-1. I mode (32 kHz/12-bit): 20 Hz to 14.5 kHz +0.5/-1. More than 80 dB Less than 0.08% (1 kHz reference level, 48 kHz) Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2: XLR 3-pin female x2 -60 dBu, 3 kΩ ±4 dBu, 10 kΩ MIC In: XLR 3-pin female TC In: BNC, 0.5 Vp-p to 18 Vp-p, 10 kΩ Video Out: BNC, 1.0 Vp-p, sync negative R-YR-YK 'V. 5.25 Vp-p YR: YLB-Y': 1.0 Vp-p, sync negative R-YR-YG-S25 Vp-p YC: Y: 1.0 Vp-p, sync negative R-YB-Y: 0.525 Vp-p DV Out: BNC, 1.0 Vp-p, 75 Ω DV Out: BNC, 1.0 Vp-p, 75 Ω DV Out: BNC, 1.0 Vp-p, 75 Ω DC Out: XLR 4-pin male DC Out: XLR 4-pin female Battery Terminal: 5-pi	Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2: XLR 3-pin female x2 -60 dBu, 3 KΩ ±4 dBu, 10 kΩ TC In: BNC, 0.5 Vp-p to 18 Vp-p, 10 kΩ Camera head BNC connector: VBS: 1.0 Vp-p, sync negative 26-pin connector of CA-37P docked to DXC-D35P: VBS: 1.0 Vp-p, sync negative, 7.0 Sync Picture VR-VBS: Y: 1.0 Vp-p, sync negative, 7.0 Sync Picture VIC: 0.1 Vp-p, sync negative C: 0.3 Vp-p lourst level Audio CH-1/2: Phono, -10 dBu, 47 kΩ TC Out: BNC, 1.0 Vp-p, 52 Ω DC Out: XLR 4-pin male DC Out: XLR 4-pin female Earphone: Mini jack	5.75 MHz +0/-3.0 dB (Typical measerement Chrominanc: 25 Hz to 20 MHz +1.0/-2.0 dE More than 55 dB Less than 2.0% Less than 30 ns 2 CH mode (48 KHZ/16-bit): 2 0 H zo 20 KHz + 20/5/1.0 dB 4 CH mode (32 KHZ/12-bit): 2 0 Hz to 14.5 KHz +20/5/1.0 dB More than 80 dB Less than 0.08% Genicok Video In: BNC, 1.0 Vp-p. 75 Ω Ext Audio CH-12: XLR 3-pin female x2 -60 dBu, 3 kΩ ±4 dBu, 10 kΩ TC In: BNC, 0.5 Vp-p to 18 Vp-p, 10 kΩ Video Cut: BNC, 1.0 Vp-p, sync negative, 75 Ω S-Video: DIN 4-pin, Y1 0 Vp-9, xre negative, 75 Ω Ci 0.3 Vp-p, 75 Ω Audio CH-12: ACA PIN, -10 dBu, 47 kΩ TC Out: BNC, 1.0 Vp-p, 75 Ω Audio CH-12: RCA PIN, -10 dBu, 47 kΩ TC Out: BNC, 1.0 Vp-p, 75 Ω Audio CH-12: RCA PIN, -10 dBu, 47 kΩ TC Out: BNC, 1.0 Vp-p, 75 Ω
ideo performance ^{*2} Bandwidth S/N ratio K-factor (K2T, KPB) Y/C delay Widio performance ^{*2} Frequency response Dynamic range Distortion (THD) nput/Output Conne ignal inputs	4 Cl ctors Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Analogue Video In: BNC, 1.0 Vp-p, 75 Ω (with DSBK-501P optional board installed) Ext Audio CH-1/2: XLR 3-pin female x2 -00 dBu, 3 kΩ ±4 dBu, 10 kΩ MC In: XLR 3-pin female X2 Video Out: BNC, 0.5 Vp-p to 18 Vp-p, 10 kΩ Video Out: BNC, 1.0 Vp-p, sync negative YR-V/B-Y: Y: 1.0 Vp-p, sync negative WBS: 1.0 Vp-p, sync negative C: 0.3 Vp-p (burst level) S-Video: DIN 4-pin, 1.0 Vp-p, 5Ω DV Out: 6-pin, IEEE1394-based Audio CH-1/2: Phono, -10 dBu, 47 kΩ Monitor Out: BNC, 1.0 Vp-p, 75 Ω DC Out: XLR 4-pin male Battery Terminal: 5-pin Earthone: Mini lack	More than 55 dB Less than 20% Less than 30 ns H mode (48 kHz/16-bit): 20 Hz to 20 kHz +0.5/-1. I mode (32 kHz/12-bit): 20 Hz to 14.5 kHz +0.5/-1. More than 80 dB Less than 0.08% (1 kHz reference level, 48 kHz) Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2: XLR 3-pin female x2 -60 dBu, 3 kΩ ±4 dBu, 10 kΩ MIC In: XLR 3-pin female x2 -60 dBu, 3 kΩ ±4 dBu, 10 kΩ TC In: BNC, 5. Vp-p to 18 Vp-p, 10 kΩ Video Out: BNC, 1.0 Vp-p, sync negative R-YR-Y: 1.0 Vp-p, sync negative R-YR-Y: 1.0 Vp-p, sync negative R-YR-Y: 1.0 Vp-p, sync negative C: 0.3 Vp-p (Durst level) S-Video: DIN 4-pin, 1.0 Vp-p, 5Ω DV Out: BNC, 1.0 Vp-p, sync negative C: 0.3 Vp-p (Durst level) S-Video: DIN 4-pin, 1.0 Vp-p, sync negative C: 0.3 Vp-p (Durst level) S-Video: DIN 4-pin, 1.0 Vp-p, sync negative C: 0.1 SUR, 1.0 Vp-p, sync negative C: 0.2 Wp-p, sync negative C: 0.3 Wp-p (Durst level) S-Video: DIN 4-pin, 1.0 Vp-p, sync negative, 75 Ω DV Out: BNC, 1.	Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2: XLR 3-pin female x2 -60 dBu, 3 KΩ ±4 dBu, 10 kΩ TC In: BNC, 0.5 Vp-p to 18 Vp-p, 10 kΩ Camera head BNC connector: VBS: 1.0 Vp-p, sync negative 26-pin connector of CA-37P docked to DXC-D35P: VBS: 1.0 Vp-p, sync negative, 7.0 Sync Picture VR-VBS: Y: 1.0 Vp-p, sync negative, 7.0 Sync Picture VIC: 0.1 Vp-p, sync negative C: 0.3 Vp-p lourst level Audio CH-1/2: Phono, -10 dBu, 47 kΩ TC Out: BNC, 1.0 Vp-p, 52 Ω DC Out: XLR 4-pin male DC Out: XLR 4-pin female Earphone: Mini jack	5.75 MHz +0/-3.0 dB (Typical measerement Chrominane: 25 Hz to 20 MHz +1.0/-2.0 df More than 55 dB Less than 3.0 ns 2 CH mode (48 kHz/16-bit); 20 Hz to 20 kHz +0.0/-2.0 df 2 CH mode (48 kHz/16-bit); 20 Hz to 20 kHz +0.0/-1.0 dB 4 CH mode (32 kHz/12-bit); 20 Hz to 14.5 kHz +0.5/-1.0 dB More than 80 dB Less than 0.08% Gentock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2; XLR 3-pin female x2 -90 dBu, 3 k2 ±4 dBu, 10 k2 TC In: BNC, 0.5 Vp-p to 18 Vp-p, 10 k2 Video Out: BNC, 1.0 Vp-p, sync negative, 75 Ω S-Video: DIM 4-pin Y: 1.0 Vp-p, 75 Ω Audio CH-1/2: RCA PIN, -10 dBu, 47 k2 TC Out: BNC, 1.0 Vp-p, 75 Ω Analogue Interface: Pro 50-pin Digital Interface: Pro 76-pin Digital DC In: XLR 4-pin male
ideo performance ^{*2} Bandwidth S/N ratio K-factor (K2T, KPB) Y/C delay Widio performance ^{*2} Frequency response Dynamic range Distortion (THD) nput/Output Conne ignal inputs	4 Cl Centrock Video In: BNC, 1.0 Vp-p, 75 Ω Analogue Video In: BNC, 1.0 Vp-p, 75 Ω (with DSBK-501P optional board installed) Ext Audio CH-1/2: XLR 3-pin female x2 → 60 dBu, 3 K2 ±4 dBu, 10 KΩ MIC In: XLR 3-pin female x2 → 00 dBu, 3 K2 ±4 dBu, 10 KΩ Video Out: BNC, 1.0 Vp-p, 10 KΩ Video Ut: BNC, 1.0 Vp-p, sync negative R-Y/B-Y: 0.0 Vp-p, sync negative R-Y/B-Y: 0.0 Vp-p, sync negative R-Y/B-Y: 0.0 Z5 Vp-p VC: Y: 1.0 Vp-p, sync negative C: 0.3 Vp-p (burst level) S-Video: DIN 4-pin, 1.0 Vp-p, 75 Ω DV Out: 6-pin. [EEE1394-based Audio CH-1/2: Phono, -10 dBu, 47 kΩ Monitor Out: BNC, 1.0 Vp-p, 75 Ω DC In: XLR 4-pin female Battery Terminal: 5-pin Earphone: Mini jack Light Out: 2-pin female WRR Out: 7-pin	More than 55 dB Less than 20% Less than 30 ns H mode (48 kHz/16-bit): 20 Hz to 20 kHz +0.5/-1 I mode (32 kHz/12-bit): 20 Hz to 14.5 kHz +0.5/-1 More than 80 dB Less than 0.08% (1 kHz reference level, 48 kHz) Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2: XLR 3-pin female x2 -60 dBu, 3 kQ ± 4 dBu, 10 kQ MC In: XLR 3-pin female TC In: BNC, 0.5 Vp-p to 18 Vp-p, 10 kQ Video Out: BNC, 1.0 Vp-p, sync negative, 75 Ω Video Out: BNC, 1.0 Vp-p, sync negative, 75 Ω Video: DIN 4-pin, 1.0 Vp-p, sync negative, 75 Ω Video: DIN 4-pin, 1.0 Vp-p, sync negative, 75 Ω TC Out: BNC, 1.0 Vp-p, sync negative, 75 Ω DV Out: 6-pin, IEEE 1394-based Audio CH-1/2: Khnon, -1 0 dBu, 47 kQ Montor Out: BNC, 1.0 Vp-p, 55 Ω DC Out: XLR 4-pin female Battery Terminal: 5-pin Earther Ch Cin: XLR 4-pin female Battery Terminal: 5-pin Earther Less 12-pin	0 dB Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2: XLR 3-pin female x2 -60 dBu, 3 kΩ ±4 dBu, 10 kΩ TC In: BNC, 0.5 Vp-p to 18 Vp-p, 10 kΩ Camera head BNC connector: VBS: 1.0 Vp-p, sync negative 26-pin connector of CA-537 docked to DXC-D35P: VBS: 1.0 Vp-p, sync negative V/R-VB-Y: 10 Vp-p, sync negative, 75 Ω SVIdeo: DIN 4-pin Y: 1.0 Vp-p, sync negative, 75 Ω SVIdeo: DIN 4-pin Y: 1.0 Vp-p, sync negative Cout: BNC, 1.0 Vp-p, sync negative, 75 Ω SVIdeo: DIN 4-pin Y: 1.0 Vp-p, sync negative DC un: LR 4-pin male DC Un: LR 4-pin female Earphone: Nimi jack	5.75 MHz +0/-3.0 dB (Typical measerement Chrominane: 25 Hz to 20 MHz +1.0/-2.0 df More than 55 dB Less than 2.0% Less than 30 ns 2 CH mode (48 KHz/16-bit): 2 0 H zo 20 KHz + 20.5/-1.0 dB 4 CH mode (32 KHz/12-bit): 2 0 Hz to 20 KHz + 20.5/-1.0 dB 4 CH mode (32 KHz/12-bit): 2 0 Hz to 14.5 KHz + 20.5/-1.0 dB More than 80 dB Less than 0.08% Ext Audio CH-12: XLR 3-pin female x2 +60 dBu, 3 kΩ ± 4 dBu, 10 kΩ TC In: BNC, 0.5 Vp-p to 18 Vp-p, 10 kΩ Video Cut: BNC, 1.0 Vp-p, sync negative, 75 Ω S-Vidae: DIN 4-pin, regative, 75 Ω Cidae: DIN 4-pin, regative, 75 Ω Audio CH-12: RCA PIN, -10 dBu, 47 kΩ TC Out: BNC, 1.0 Vp-p, 75 Ω Audio CH-12: RCA PIN, -10 dBu, 47 kΩ TC Out: BNC, 1.0 Vp-p, 75 Ω Audio CH-12: RCA PIN, -10 dBu, 47 kΩ TC Out: BNC, 1.0 Vp-p, 75 Ω Audio CH-12: RCA PIN, -10 dBu, 47 kΩ TC Out: BNC, 1.0 Vp-p, 75 Ω
fideo performance** Bandwidth S/N ratio K-factor (K2T, KPB) Y/C delay Audio performance** Frequency response Dynamic range Distortion (THD)	4 Cl ctors Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Analogue Video In: BNC, 1.0 Vp-p, 75 Ω (with DSRK-501P optional board installed) Ext Audio CH-1/2: XLR 3-pin female x2 -60 dBu, 3 kΩ ± 4 dBu, 10 kΩ MC In: XLR 3-pin female x2 TC In: BNC, 1.0 Vp-p, sync negative, 75 Ω Video Out: BNC, 1.0 Vp-p, sync negative Y/R-Y/B-Y: 1.0 Vp-p, sync negative R-Y/B-Y: 0.525 Vp-p Y/C: Y: 1.0 Vp-p, sync negative R-Y/B-Y: 0.525 Vp-p Y/C: Y: 1.0 Vp-p, sync negative C: 0.3 Vp-p (burst leve) S-Video: DIN 4-pin, 1.0 Vp-p, 52 Ω DV Out: 6-pin, IEEET394-based Audio CH-1/2: Phono, -10 dBu, 47 kΩ Monitor Out: BNC, 1.0 Vp-p, 75 Ω DC In: XLR 4-pin female Battery Terminal: 5-pin Earphone: Mini jack Light Out: 2-pin female WRR Out: 7-pin	More than 55 dB Less than 20% Less than 30 ns H mode (48 kHz/16-bit): 20 Hz to 20 kHz +0.5/-1. I mode (32 kHz/12-bit): 20 Hz to 14.5 kHz +0.5/-1. More than 80 dB Less than 0.08% (1 kHz reference level, 48 kHz) Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2: XLR 3-pin female x2 -60 dBu, 3 kΩ ±4 dBu, 10 kΩ MIC In: XLR 3-pin female x2 -60 dBu, 3 kΩ ±4 dBu, 10 kΩ TC In: BNC, 5. Vp-p to 18 Vp-p, 10 kΩ Video Out: BNC, 1.0 Vp-p, sync negative R-YR-Y: 1.0 Vp-p, sync negative R-YR-Y: 1.0 Vp-p, sync negative R-YR-Y: 1.0 Vp-p, sync negative C: 0.3 Vp-p (Durst level) S-Video: DIN 4-pin, 1.0 Vp-p, 5Ω DV Out: BNC, 1.0 Vp-p, sync negative C: 0.3 Vp-p (Durst level) S-Video: DIN 4-pin, 1.0 Vp-p, sync negative C: 0.3 Vp-p (Durst level) S-Video: DIN 4-pin, 1.0 Vp-p, sync negative C: 0.1 SUR, 1.0 Vp-p, sync negative C: 0.2 Wp-p, sync negative C: 0.3 Wp-p (Durst level) S-Video: DIN 4-pin, 1.0 Vp-p, sync negative, 75 Ω DV Out: BNC, 1.	Genlock Video In: BNC, 1.0 Vp-p, 75 Ω Ext Audio CH-1/2: XLR 3-pin female x2 -60 dBu, 3 KΩ ±4 dBu, 10 KΩ TC In: BNC, 0.5 Vp-p to 18 Vp-p, 10 KΩ Camera head BNC connector: VBS: 1.0 Vp-p, sync negative 26-pin connector of CA-337P docked to DXC-D35P: VBS: 1.0 Vp-p, sync negative (PA-VIAS': Y-1.0 Vp-p, sync negative, C. 0.3 Vp-p fourst level) RGB: 1.4 Vp-p Video ULI SNC, 1.0 Vp-p, sync negative, C. 0.3 Vp-p fourst level) RGB: 1.4 Vp-p Video ULI SNC, 1.0 Vp-p, sync negative C. 0.3 Vp-p (burst level) Audio CH-1/2: Phono, -10 dBu, 47 kΩ TC Out: BNC, 1.0 Vp-p, 75 Ω DC Out: XLR 4-pin female Earphone: Mini Jack Lens: 12-pin VF: 8-pin, 20-pin Femotel: Stereo mini Jack	5.75 MHz +0/-3.0 dB (Typical measement) Chrominane: 25 Hz to 20 MHz +1.0/-20 dB Chrominane: 25 Hz to 20 MHz +1.0/-20 dB Less than 2.0% Less than 2.0% Less than 30 ns 2 CH mode (48 KH2/16-bit): 20 Hz to 20 KHz -0.0/-1.0 dB 4 CH mode (32 KH2/12-bit): 20 Hz to 14.5 KHz -0.5/-1.0 dB More than 80 dB Less than 0.08% Geniock Video In: BNC, 1.0 Vp-p. 75 Ω Ext Audio CH-12: XLR 3-pin female x2 -60 dBu, 3 kΩ ±4 dBu, 10 kΩ TC In: BNC, 0.5 Vp-p to 18 Vp-p, 10 kΩ Video Cut: BNC, 1.0 Vp-p, sync negative, 75 Ω S-Video: DIN 4-pin Y: 1.0 Vp-p, sregative, 75 Ω C: 0.3 Vp-p, 75 Ω Audio CH-12: RCA PIN, -10 dBu, 47 kΩ TC Out: BNC, 1.0 Vp-p, 75 Ω Audio CH-12: RCA PIN, -10 dBu, 47 kΩ TC Out: BNC, 1.0 Vp-p, 75 Ω Analogue Interface: Pro 50-pin Digital Interface: Pro 76-pin Digital DC In: XLR 4-pin male DC Out: XLR 4-pin male

Supplied Accessories

1.5-inch B/W Viewfinder (DXF-801) Shoulder Strap Microphone with Wind Screen (except PH version) Connector Cap Tripod Adaptor VCT-U14 Microphone with Wind Screen (except PH version) Lithium Battery (type CR2032) Shoulder Strap. Lens Mount Cap Tripod Adaptor VCT-U14 Microphone with Wind Screen (except PH version) Lithium Battery (type CR2032) Flange Focal Length Adjustment Test Chart Shoulder Strap. Lens Mount Cap Mix 42 Screws (2) Switch Guard, Binding Tie Operating Instructions Operating Instructions
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*1 DPR is equivalent to +6 dB gain up. 18 dB+DPR: Equivalent to +24 dB gain up. 24 dB+DPR: Equivalent to +30 dB gain up. Hyper gain (30 dB+DPR): Equivalent to +36 dB gain up. *2 The specifications for "Video/Audio performance" were measured by playing back material on the DSR-85P (via analogue component out) that had been recorded on the DSR-570WSP.

DSR-250P / DSR-PD170P / DSR-PDX10P Camcorders

	DSR-250P	DSR-PD170P	DSR-PDX10P	
General				
Power requirements	DC 12 V(11 V to 17 V)	DC 7.2 V (Battery), DC 8.4 V (AC adaptor)	DC 7.2 V (Battery operation), 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), 5.4 W (with LCD)	5 W (with VF), 5.3 W (with LCD)	
Operating temperature		0 °C to 40 °C (32 °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 40 minutes (DVCAM mode) with PDV-184ME) cassette, 40 minutes (DVCAM mode) 60 minutes (DV SP mode with PDVM-40ME) 60 minutes (DV SP mode with PDVM-40ME) 60 minutes (DV SP mode with PDVM-40ME)			
Mass	Approx. 4.4 kg (9 lb 11 oz)	(camcorder only) Approx. 1.5 kg (3 lb 5 oz)	camcorder only (approx 950 g)	
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 x 18 inches) including microphone	93 x 99 x 202 mm (3 3/4x 4 x 8 inches)	

Lens

Zoom	12:1 Variable Speed (1.2-22 s) zoom lens F = 6.0 to 72.0 mm; F1.6 to 2.4	12:1 Variable speed (1.83 to 26.5 s) zoom lens F = 3.6 to 43.2 mm
Filter diameter	58 mm (2 3/8 inches)	37 mm
Focus	Auto/Manual (ring)/Infinity/One push auto	

Camera

Image device	Three 1/3-inch CC	Three 1/4.7-inch CCDs, 1,070,000 pixels		
Signal system	CCIR Standard, PAL colour system			
Scanning system		Progressive/Interlace Scan		
Horizontal resolution	530 TV lines			
Minimum illumination	2 lx	1 lx	7 lx	
Gain selection		_		
Shutter speed selection	1/3, 1/6, 1/12, 1/25, 1/50, 1/60, 1/100, 1/120, 1/150, 1/215, 1/300, 1/425, 1/300, 1/1000, 1/1000, 1/1000, 1/1000, 1/1000, 1/1000 s		1/3 to 1/10000 s	
Exposure	Auto/Manual (Exposure ring)	Auto/Manual (Exposure ring) Auto/Manual (Exposure dial)		
White balance		Auto/One-push/Out door (5800 K)/Indoor (3200 K)	1	
Viewfinder	1.5-inch black and white CRT, Zebra Pattern	180,000 dot Black & V	Vhite LCD, Zebra Pattern	
Built-in microphone	Electret conder	ser microphone	Stereo electret condenser microphone	
Built-in speaker		Dynamic speaker		
LCD	TFT Active Matrix 2.5-inch 200,640 dots (880 x 228)	Hybrid 2.5-inch 211,200 dots (960H x 200V)	TFT Active Matrix, 3.5-inch 246,000 dots with touch screen function	
Memory card slot	Memory Stick Recording signals: Camera signals, VTR signals Image size: VGA (640 x 480) Image compression: JPEG		Memory Stick Recording signals: Camera signals, VTR signal Image size: VGA (1152 x 864) Image compression: JPEG	

Input/Output Connectors

Signal inputs/outputs			Audio/Video In/Out: Special AV mini jack (converts to Phono) x1, 1.0 Vp-p, 75 Ω, sync negative S-Video In/Out: Mini DIN 4-pin x1 Y: 1.0 Vp-p, 75 Ω, unbalanced C: 0.3 Vp-p (subcarrier burst), 75 Ω, unbalanced MIC In: Stereo mini jack x1 (XLR 3-pin x1, via adaptor) i.LINK (DV In/Out): 4-pin x1, IEEE1394-based USB mini-B x1
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	LANC: Stereo mini-mini jack x1 External DC In: 8.4 V (AC-L10 AC Adaptor) Headphone: Stereo mini jack x1

Supplied Accessories

ECM-NV1 Monaural Microphone RMT-811 Remote Commander and R6 Batteries (2) MSA-4A IC Recording Media Memory Stick MSAC-US1 Memory Stick Reader/Writer Picture Gear 4.1 Lens Hood Lite Hood Cap	ECM-NV1 Monaural Microphone AC-L15 AC Adaptor NP-F330 InfoLITHIUM Rechargeable Battery Pack RMT-811 Remote Commander and R6 Batteries (2) VCL-HG0758 Wide Conversion Lens LSF-S58 Lens Hood (for Wide Conversion Lens) Lens Cap built in Hood Lens Cap i.LINK Cable Strap Special Streo AV Cable Carrying Belt	ECM-NV1 monaural microphone AC-L10 AC Adaptor NP-FM50 InfoLITHIUM Rechargeable Battery Pack RMT-811 Remote Commander and R6 Batteries (2) MSA-8A Recording Media Memory Stick Memory Stick/PC Card Adaptor XLR Adaptor Special Stereo AV Cable, Lens Hood, Lens Cap, Carrying Belt i.LINK Cable USB driver

DIGITAL VTRs

DSR-2000P / DSR-1800P / DSR-1600P / DSR-1500AP Editing Recorders / Players

	DSR-2000P	DSR-1800P	DSR-1600P	DSR-1500AP
General				
Power requirements		AC 100 V to 240 V, 50/60 Hz		1
Power consumption (Max.) Operating temperature	110 W	100 W	70 W (41 °F to 104 °F)	60 W
Storage temperature Operating humidity		-20 °C to 60 °C	(41 °F to 104 °F) C (-4 °F to 140 °F) han 80%	
Storage humidity		Less t	han 90%	
Tape speed Recording/Playback time	2821 mm/s Standard size: 184 min. with PDV-184ME/184N/184MEM Mini size: 40 min. with PDVM-40ME/40N/40MEM			IOMEM
Fast forward/Rewind time Search speed		e: Less than 3 min. with PDV-184ME/184N/184N	MEM Mini size: Less than 1 min. with PDVM-40N	
Search speed	still to ±60 times normal speed		Shuttle mode: still to ±60 times normal speed Digital slow mode: ±0.5 times normal speed	
	Digital slow mode: ±1 times normal speed		-	
Mass	18 kg (39 lb 10 oz)		28 lb 10 oz)	6 kg (13 lb 3 oz)
Dimensions (W x H x D, excluding projections)	427 x 175 x 496.5 mm (16 7/8 x 7 x 19 5/8 inches)		4 x 400 mm 3 x 15 3/4 inches)	210 x 130 x 420 mm (8 3/8 x 5 1/8 x 16 5/8 inches)
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Video Performance				
Bandwidth Luminance	25 Hz to 5.0 MHz +1.0/-2.0 dB	25 Hz to 50	0 MHz ±1.0 dB	25 Hz to 5.0 MHz +1.0/-1.5 dB
(via analogue component I/O)	5.75 MHz +0/-3.0 dB	2012/000	Sin Lindab	
Chrominance	(Typical measurement)	25 Hz to 2.0 M	1Hz + 1.0/-2.0 dB	
S/N ratio (via analogue component I/O) K-factor (K2T, KPB)			nan 55 dB han 2.0%	
//C delay 0			han 30 ns	
Audio Performance				
requency 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 14.5 kHz +0.5/-1.0 dB		20 Hz to 20 kHz ±1.0 dB 20 Hz to 14.5 kHz ±1.0 dB
Ovnamic range		More than 90 dB		More than 87 dB
Distortion (THD+N)		Less than 0.05%		Less than 0.07%
Video Signal Inputs				
Analogue				
Ref. Video BNC x2, loop-through connection)	Composite, 1.0 Vp-p, 75 Ω , sync negative	0.3 Vp-p, 75 Ω , sync negative	-	Composite, 1.0 Vp-p, 75 Ω , sync negative
/ideo (BNC x2, loop-through connection)*1	Composite, 1.0 Vp-p	o, 75 Ω, sync negative	_	Composite, 1.0 Vp-p, 75 Ω, sync negative
Component Y (BNC x3) *1 R-Y	0.7 Vp-p, 75 Q	2, sync negative 5 Ω (100 %)		0.7 Vp-p, 75 Ω , sync negative
B-Y S-Video *1	0.7 Vp-p, 7	5 Ω (100 %) 5 Ω (100 %) -pin x 1		Composite, 1.0 Vp-p, 75 Ω, sync negative 1.0 Vp-p, 75 Ω, sync negative 0.7 Vp-p, 75 Ω (100 %) 0.7 Vp-p, 75 Ω (100 %) BNC x 2
3-1000	Y: 1.0 Vp-p, 75 9	Ω , sync negative Ω (at burst level)	Y: 1.0 Vp-p, 75 Ω , sync negative C: 0.3 Vp-p, 75 Ω (at burst level)	BING X 2
Digital	C: 0.3 Vp-p, 75	Ω (at burst level)	C: 0.3 Vp-p, 75 Ω (at burst level)	
Digital SDI *2 *3	BNC x 2, active-t	hrough connection	_	BNC x 1
	Conforms to Serial Digital Inte	erface (270 Mb/s), ITU-R BT.656		Conforms to Serial Digital Interface (270 Mb/s), ITU-RBT.656
SDTI (QSDI) (BNC x1) *3 *4	Conforms to SDTI (270 N	/lb/s), SMPTE 305M/322M	_	Conforms to SDTI (270 Mb/s),
LINK (DV In/Out) (6-pin x1)*5 *6 *7	IEEE139	94-based		SMPTE 305M/322M IEEE1394-based
			·	· ·
Audio Signal Inputs				
Analogue				
Audio *1		female x4	-	XLR 3-pin female x2
	-6/0/+4 dBu, 600 Ω on/off/ -60 dBu, high impedance	-6/-3/0/+4 dBu, 600 Ω on/off/ -60 dBu, high impedance	—	-6/-3/0/+4 dBu, high impedance
Digital AES/EBU *2 *3		C x 2	1	BNC x 2
AES/EBU TE		o x 2 nbalanced	—	75 Ω, unbalanced
Video Signal Outputs				
Analogue				
Ref. Video (BNC x1)		0.3 Vp-p, 75 S	2, sync negative	
Video	Video 1/2/3 (super) BNC x 3	Composite, 1.0 Vp-	uper) BNC x 2 p, 75 Ω , sync negative	Video 1/2/3 (super) BNC x 3
Component (BNC x3) S-Video		Y: 1.0 Vp-p, 75 Ω , sync negative R-Y: 0.7 V	p-p, 75 Ω (100%) B-Y: 0.7 Vp-p, 75 Ω (1009	%)
S-video		DIN 4-pin x 1 Y: 1.0 Vp-p, 75 Ω, sync negativ	e C: 0.3 Vp-p, 75 Ω (at burst level)	BNC x 2
	PNC × 2	1		
	BNC x 3	Conforms to Serial Digital Inte	BNC x 2 erface (270 Mb/s), ITU-R BT.656	
SDTI (QSDI) *3 *4 *9		BNC x 1	Mb/s), SMPTE 305M/322M	BNC x 2
i.LINK (DV In/Out) (6-pin x1) *5 *6 *7		IEEE13	194-based	
Audio Signal Outputs				
Analogue				
Audio	6/0/. / dD://	XLR 3-pin male x4	C/ 2/0/. 4 - D.: /I	XLR 3-pin male x2
Monitor	-6/0/+4 dBu (selectable by menu) Phono x 1		-6/-3/0/+4 dBu (selectable by menu) RCA x1	
	 -11 dBu, 47 kΩ, unbalanced 	-9 dBu	u. 47 kΩ .	-∞ to +1 dBu, 47 kΩ , unbalanced (-20 dBES)
Headphone	(-18 dBFS) -∞to -13 dBu, 8 Ω ,	-∞to -11	d (-18 dBFS) dBu, 8 Ω ,	unbalanced (-20 dBFS) -∞to -13 dBu, 8 Ω ,
(JM-60 headphone jack x1) Digital	unbalanced (-18 dBFS)	unbalance	ed (-18 dBFS)	unbalanced (-20 dBFS)
AES/EBU *2 *3 *9		BNC x 2 75	Ω, unbalanced	
Time Code Input/Output				
In (BNC x1)		0.5 Vp-p to 18 Vp-	-p, 3 kΩ , unbalanced	
Out (BNC x1)		2.2 Vp-p, 75	Ω, unbalanced	
Remote				
	RS-422A: D-sub 9-pin female x2		ib 9-pin female x1	RS-422A: D-sub 9-pin female x1
	Video Control: D-sub 15-pin male x1 Control Panel: D-sub 15-pin female x1	Video Control: D Control S (SIRCS)	-sub 15-pin male x1): Stereo mini jack x1	Control S (SIRCS): Stereo mini jack x1
				1
Supplied Accessories				
		1		
	AC Power Cord RCC-5G 9-pin Remote Control Cable		AC Power Cord Operating Instructions	
	Operating Instructions			
*1 The opti	onal DSBK-1504 is required for the DSR-1500A	AP *4 The optional DSBK1802 is requi	ired for the DSR-1800P *7 The opti	onal DSBK1503 is required for the DSR-1500/
	onal DSBK1801 is required for the DSR-1800P onal DSBK1501 is required for the DSR-1500Al			onal DSBK-1601 is required for the DSR-1600 onal DSBK-1602 is required for the DSR-1600
3 The opti	onal DODK 1001 IS required for the DSK-1500AI	 o The optional DOB/Cloud IS require 		una DODK-1002 is required for the DSR-1600

DSR-45P / DSR-30P / DSR-25 / DSR-11 Recorders

		DSR-45P	DSR-30P	DSR-25	DSR-11
System		PAL	PAL	NTSC/PAL Switchable	NTSC/PAL Switchable
Power requirements		AC 100 V to 240 V, 50/60 Hz	AC: 220 V to 240 V, 50 Hz	AC: 100 V to 2	40 V, 50/60 Hz
Power consumption		22 W	37 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		28.221	mm/s	
	DV SP mode		18.831	mm/s	
Recording/Playback time	Standard size		184 min. with PDV-1	84ME/184N/184MEM	
	Mini size		40 min. with PDVM	-40ME/40N/40MEM	
Tape rewind time		Less than 2 min. with PDV-184ME/184N/184MEM			
Search speed		When controlling via optional DSRM-20:	Still, ±1/5, 1, 2 times, Cue/Review	When controlling via optional	When controlling via optional
		Shuttle mode: ±1/10, 1/5, 1, 2,	(±10 or 18 times)	DSRM-20 or supplied RMT-DS20:	DSRM-20 or supplied RMT-DS11:
		approx. 10, approx. 17 times		Still, ±1/5, 1, 2 times, Cue/Review	Still, ±1/5, 1, 2 times, Cue/Review
		Jog mode: ±1/10, 1/5, 1, 2 times		(±10 or 18 times)	(±10 or 18 times)
Mass		Approx. 4.5 kg (10 lb 2 oz)	Approx. 9.2 kg (20 lb 4 oz)	Approx. 4.3 kg (9 lb 8 oz)	Approx. 2.8 kg (6 lb 2 oz)
Dimensions		212 x 98 x 392 mm	430 x 129 x 374 mm	212 x 98 x 392 mm	180 x 73 x 265 mm
(W x H x D, including projections)		(8 3/8 x 3 7/8 x 15 1/2 inches)	(17 x 5 1/8 x 14 3/4 inches)	(8 3/8 x 3 7/8 x 15 1/2 inches)	(7 1/8 x 2 7/8 x 10 1/2 inches)

Video Signal Inputs

Rec mode	DVCAM/DV (SP mode only)	DVCAM	DVCAM/DV (SP mode only)	
PB mode		DVCAM/DV	(SP mode only)	
Ref. Video (BNC x1)	Black burst: 75 Ω , sync negative	Black burst: 75 Ω, sync negative —		
Video (DSR-45P/25: BNC x1)*1				
(DSR-30P: BNC x1, Phono jack x1)		Composite, 1.0 Vp-p, 75 Ω , sync negative		
(DSR-11: Phono jack x1)				
S-Video				
(DSR-45P/25/11: Mini DIN 4-pin x1)	Y: 1.0 Vp-p, 75 Ω , sync negative			
(DSR-30P: Mini DIN 4-pin x2,	C: 0.3 Vp-p (subcarrier burst), 75 Ω			
front x1/rear x1)				
Component (BNC x3)	Y: 1.0 Vp-p, 75 Ω , sync negative			
	R-Y/B-Y: 0.7 Vp-p (with 100 % colour burst)		_	

Audio Signal Inputs

Audio (DSR-45P/25/11:	
Phono jack x2/stereo L/R)	2 Vrms (full bit)
(DSR-30P: Phono jack x2/	
stereo L/R, front x1/rear x1)	

Video Signal Outputs

Video (DSR-45P/25: BNC x1)	Composite, 1.0 Vp-p, 75 Ω , sync negative			
(DSR-30P: BNC x2, Phono jack x1)				
(DSR-11: Phono jack x1)				
S-Video		Y: 1.0 Vp-p, 75 Ω, sync negative		
(DSR-45P/25/11: Mini DIN 4-pin x1)		C: 0.3 Vp-p (subcarrier burst), 75 Ω		
(DSR-30P: Mini DIN 4-pin x2)				
Component (BNC x3)	Y: 1.0 Vp-p, 75 Ω , sync negative	igative —		
	R-Y/B-Y: 0.7 Vp-p (with 100 % colour burst)			
Monitor (BNC x1)	Composite, 1.0 Vp-p, 75 Ω , sync negative —			

Audio Signal Outputs

Audio (DSR-40P: XLR 3-pin male x2, stereo L/R) (DSR-20P/11: RCA pin x2/stereo L/R)	4 dBu, balanced		2 Vrms (full bit)	
Monitor	2 Vrms (full bit)	—	2 Vrms (full bit)	—
(RCA pin x2, stereo L/R)				

Digital Input/Output

i.LINK (DV In/Out) (4-pin x1)	IEEE1394-based

Others

	RS-422A: D-sub 9-pin female x1 Control S (SIRCS) In: Stereo mini jack x1 Headphone: Stereo mini jack x1 LANC: Stereo mini-mini jack x1 RS-232C: D-sub 9-pin male x1		LANC: Stereo mini-mini jack x1 Headphone: Stereo mini jack x1 Control S (SIRCS) In: Stereo mini jack x1	LANC: Stereo mini-mini jack Control S: Stereo mini jack
LCD Monitor	2-inch type 123,200 dots	_	2-inch type 123,200 dots	—

Supplied Accessories

AC Power Cord	RMT-DS30 Wireless Remote Controller	RMT-DS20 Wireless Remote Controller	AC Adaptor, Power Cord
Cleaning Cassette	Size AA (R6) Batteries for Remote (2)	Size AA (R6) Batteries for Remote (2)	RMT-DS11 Wireless Remote Commander
Operating Instructions	AC Power Cord	AC Power Cord	Size AA (R6) Batteries for Remote (2)
RMT-DS11 Wireless Remote Commander	LANC Cable	Cleaning Cassette	Rack
Size AA (R6) Batteries for Remote (2)	Cleaning Cassette	Operating Instructions	Cleaning Cassette
Interface manual for programmers (RS-232C)	Operating Instructions		Operation Manual

*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.

Specifications

VTR REAR CONNECTOR PANELS

DSR-2000P



DSR-1800P



DSR-1600P



DSR-30P





DSR-1500AP



DSR-DR1000P



DSR-45P



DSR-25



DSR-11



DSR-70AP



DSR-70AP Portable Editing Recorder

General

Power requirements	DC 12 V (DC 12	V In: XLR 4-pin male x1)
Power consumption	46 W (without o	ptions)
Operating temperature	0 °C to 40 °C (3	2 °F to 104 °F)
Storage temperature	-20 °C to 60 °C	(-4 °F to 140 °F)
Operating humidity	Less than 80%	-
Storage humidity	Less than 90%	
Tape speed	28.221 mm/s	
Recording/Playback time	Standard size: Mini size:	184 min. with PDV-184ME/184N/184MEM 40 min. with PDVM-40ME/40N/40MEM
Fast forward/Rewind time	Standard size: Mini size:	Less than 3 min. with PDV-184ME/184N/184MEM Less than 1 min. with PDVM-40ME/40N/40MEM
Search speed	x ±32	
Mass	5.8 kg (12 lb 12	oz)
Dimensions (W x H x D)	211 x 149 x 443	mm (8 3/8 x 5 7/8 x 17 1/2 inches)
LCD display (x1)	6.4-inch VGA, 6	40 (H) x 480 (V)
Built-in speaker (x1)	Monaural	
Remote	RS-422A: D-sub	9-pin female x1

Analogue		
Ref. Video (BNC x1)	0.3 Vp-p, 75 Ω, sync negative	
Video 1/2(SUPER) (BNC x2)	Composite, 1.0 Vp-p, 75 Ω , sync negative	
Component (BNC x3)*1	Y: 1.0 Vp-p, 75 Ω, sync negative R-Y: 0.7 Vp-p, 75 Ω (100%) B-Y: 0.7 Vp-p, 75 Ω (100%)	
S-Video (DIN 4-pin x1)	Y: 1.0 Vp-p, 75 Ω , sync negative C: 0.3 Vp-p, 75 Ω (at burst level)	
Digital		
SDI (BNC x2)*2	Conforms to Serial Digital Interface (270 Mb/s), ITU-R BT.656	
SDTI (QSDI) (BNC x1)*3	Conforms to SDTI (270 Mb/s), SMPTE 305M/322M	
i.LINK (DV) (6-pin x1)*2	IEEE 1394	

Audio Signal Outputs

Video Signal Outputs

Analogue	
Audio (CH-1,2 or CH-3,4) XLR 3-pin male x2	+4/0/-6 dBu (selectable by menu)
Monitor (R/L) (Phono x1)	-6 dBu, 47 kΩ , unbalanced
Headphone (JM-60 headphone jack x1)	- ∞ to -20 dBu, 8 Ω , unbalanced

Video Signal Inputs

Analogue		
Ref. Video (BNC x2, loop-through connection)	0.3 Vp-p, 75 Ω , sync negative	
Video (BNC x2, loop-through connection)	Composite, 1.0 Vp-p, 75 Ω , sync negative	
Component (BNC x3)*1	Y: 1.0 Vp-p, 75 Ω , sync negative R-Y: 0.7 Vp-p, 75 Ω (100%) B-Y: 0.7 Vp-p, 75 Ω (100%)	
S-Video (DIN 4-pin x1)	Y: 1.0 Vp-p, 75 Ω , sync negative C: 0.3 Vp-p, 75 Ω (at burst level)	
Digital		
SDI (BNC x1)*2	Conforms to Serial Digital Interface (270 Mb/s), ITU-R BT.656	
SDTI (QSDI) (BNC x1)*3	Conforms to SDTI (270 Mb/s), SMPTE 305M/322M	
i.LINK (DV) (6-pin x1)*2	IEEE 1394	

Time Code Input/Output

Time Code In (BNC x1)	0.5 to 18 Vp-p, 3.3 kΩ , unbalanced
Time Code Out (BNC x1)	2.2 Vp-p, ±3.0 dBu, 600 Ω , unbalanced

Supplied Accessories

Input/Output Terminals

_	Carrying Belt
_	Connector Cap (per interface)
	Operating Instructions
_	Warranty Card

Audio Signal Inputs

Audio Signal Inputs		*1 The optional DSBK-170 Analogue Component Input/Output Board is required. *2 The optional DSBK-160A SDI & i.LINK/DV Input/Output Board is required.
Analogue		*3 The optional DSBK-150 SDTI (QSDI) Input/Output Board is required.
Audio (CH-1,2) (XLR 3-pin female x2)	+4/0/-60dBu, high impedence, balanced	

DSR-50P Portable Recorder

General

System	PAL
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

Rec mode	DVCAM/DV (SP mode only)
PB mode	DVCAM/DV (SP mode only)

Audio

Rec mode	48.0 kHz/16-bit (2CH)/ 32.0 kHz/12-bit (4CH)/automatic (DV IN)
PB 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)

Video IN Composite	1.0 Vp-p, 75 Ω , Sync negative
S(4-pin mini DIN)	Y: 1.0 Vp-p, 75 Ω , Sync negative C: 0.3 Vp-p (subcarrier burst) 75 Ω
Audio IN	XLR 3-pin (female) (+4 dBu/-20 dBu/-60 dBu) x 4, impedance more than 3 k Ω with +48 V power supply (independently switched for each channel)
Camera IN	26-pin camera connector
Composite	1.0 Vp-p, 75 Ω , Sync negative
Component	Y: 1.0 Vp-p, 75 Ω , Sync negative B-Y: 0.7 Vp-p, 75 Ω , R-Y: 0.7 Vp-p, 75 Ω
Reference IN	BNC, Black Burst 75 Ω , Sync negative (use Video IN)
Video OUT 1 (Monitor) Composite	BNC, 1.0 Vp-p, 75 Ω , Sync negative Superimpose On/Off
Video OUT 2 Composite	BNC, 1.0 Vp-p, 75 Ω , Sync negative
S (4-pin mini DIN)	Y: 1.0 Vp-p, 75 Ω , Sync negative C: 0.3 Vp-p (subcarrier burst) 75 Ω
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	RCA pin x 4, -10 dBu Standard output level -18 dB from full bit
Audio OUT (Monitor)	RCA pin
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, with Level Control

Other

Colour LCD monitor	2.5-inch, 200,000 dots
Supplied accessories	LCD Protection Cover, Cleaning Cassette

HARD DISK RECORDERS / FLEXICART

DSR-DR1000P Hard Disk Recorder

General

Power requirements	AC 100 V to 240 V, 50/60 Hz
Power consumption	60 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)
Operating humidity	Less than 80%
Storage humidity	Less than 90%
Mass	7.5 kg (16 lb 10 oz)
Dimensions (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 Performance	
Bandwidth	Luminance: 25 Hz to 5.0 MHz +1.0
(via analogue component I/O)	Chrominance: 25 Hz to 2.0 MHz +1.0/-2.0 dB
S/N ratio (via analogue component I/O)	More than 54 dB
· · · · · · · · · · · · · · · · · · ·	Less than 2%
K-factor (K2T, KPB)	Less man 2%
K-factor (K2T, KPB) Y/C delay Audio Performance	Less than 30 ns
Y/C delay	Less than 30 ns 2CH mode (48 kHz/16-bit): 20 Hz to 20 kHz ±1.0 dB
Y/C delay Audio Performance Frequency response	Less than 30 ns 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
Y/C delay Audio Performance Frequency response Dynamic range	Less than 30 ns 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 More than 87 dB
Y/C delay Audio Performance Frequency response Dynamic range Distortion (THD + N)	Less than 30 ns 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
Y/C delay Audio Performance Frequency response Dynamic range	Less than 30 ns 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 More than 87 dB
Y/C delay Audio Performance Frequency response Dynamic range Distortion (THD + N)	Less than 30 ns 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 More than 87 dB
Y/C delay Audio Performance Frequency response Dynamic range Distortion (THD + N) Input Signals	Less than 30 ns 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 More than 87 dB Less than 0.07% (48 kHz) REF. Video: BNC (2) 0.3 Vp-p, 75 Ω sync negative Composite Video: BNC (2), loop-through connection (*') 1.0 Vp-p, 75 Ω, sync negative
Y/C delay Audio Performance Frequency response Dynamic range Distortion (THD + N) Input Signals	Less than 30 ns 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 More than 87 dB Less than 0.07% (48 kHz) REF. Video: BNC (2) 0.3 Vp-p, 75 Ω sync negative Composite Video: BNC (2), loop-through connection (*)

VIDEO (DIGITAL)	SDI: BNC (1)
	Conforms to Serial Digital Interface (270 Mb/s), ITU-R BT.656
	i.LINK (DV): 6-pin (1) IFFE 1394-based
AUDIO (ANALOGUE)	Audio: XLR 3-pin female (2) -6/-3/0/+4 dBu (selectable by menu), high impedance
AUDIO (DIGITAL)	AES/EBU: BNC (2)
AUDIO (DIGITAL)	75 Ω , unbalanced
Time Code	BNC (1), 0.5 Vp-p to 18.0 Vp-p, 3 kΩ unbalanced
Output Signals	
VIDEO (ANALOGUE)	Video 1/2 (SUPER): BNC (2) (*2)
	Composite, 1.0 Vp-p, 75 Ω, sync negative
	Component: BNC (3) (*²) Y: 1.0 Vp-p, 75 Ω, sync negative
	$R-Y$, $B-Y$: 0.7 Vp-p, 75 Ω (100% colour bar)
	S-Video: BNC (2) (*2)
	Y: 1.0 Vp-p, 75 Ω, sync negative
	C: 0.3 Vp-p, 75 Ω (at burst level)
VIDEO (DIGITAL)	SDI: BNC (2)
	Conforms to Serial Digital Interface (270 Mb/s), ITU-R BT.656
	i.LINK (DV): 6-pin (1) IEEE 1394-based
AUDIO (ANALOGUE)	Audio: XLR 3-pin male (2)
(10010 (/111 (E000E)	-6/-3//0/+4 dBu (selectable by menu)
	Monitor: RCA (1)
	-9 dBu, 47 kΩ, unbalanced (-18 dBFS), volume center
	Headphone: JM-60 headphone jack (1)
	- ∞to -11 dBu, 8 Ω, unbalanced (-18 dBFS)
AUDIO (DIGITAL)	AES/EBU: BNC (2), 75 Ω, unbalanced
TIME CODE	BNC (1), 2.2 Vp-p, 600 Ω, unbalanced
REMOTE	RS-422A: D-sub 9-pin, female (2)
	Control: Mini jack (1)
Network	Ethernet (1): 10Base-T/100Base-TX Ethernet, RJ-45 modular jack

DSR-DU1 Hard Disk Recorder

General

Power requirements	DC 7.2 V (battery), DC 8.4 V (AC adaptor)	
Power consumption	5.6 W	
Mass	500 g (1 lb 1 oz)	
Dimensions	(W x H x D) 44 x 101 x 142 mm	
Operating temperature	0 °C to 40 °C	
Storage temperature	-20 °C to 60 °C	
Operating Humidity	Less than 85 % (without dew condensation)	

Input/Output Terminals

DV IN/OUT	i.LINK x1 (IEEE1394 4-pin)
Remote	4-pin Stereo mini Jack x1
DC IN	x1

Supplied Accessories

Warranty card
Operation manual
i.LINK cable (4-pin to 4-pin)
Remote controller (RM-LG2)
Battery (CR2032)
Case

UWP Series Bodypack Transmitter / Handheld Microphone / Portable Tuner

Bodypack	Transmitter

Portable Tuner

Oscillator	Crystal-controlled PLL synthesizer
Type of emission	F3E
Carrier frequencies CE model	798 MHz to 822 MHz (TV channels 62 to 64) or 838 MHz to 862 MHz (TV channels 67 to 69) Users may choose from 189 frequencies on each model.
RF power output	30 mW or 5 mW (selectable)
Antenna	1/4 I wave length wire
Pilot tone signal	32 kHz
Frequency response	50 Hz to 18 kHz (typical)
Reference deviation	±5 kHz (-60 dBV, 1kHz input)
Signal-to-noise ratio	60 dB or more (±5 kHz deviation at 1 kHz modulation, A-weighted)
Audio attenuator adjustment range	0 to 21 dB (in 3 dB steps)
Audio input level	-60 dBV (at 0 dB attenuator level)
Audio input connector	3.5 mm (5/32 inch) dia., 3-pole mini jack
Indicators	
LCD	Operating channel number/frequency, attenuator level, RF-output level (High/Low), audio-input status, RF-output status, transmitter battery status, and accumulated operating time
LED	Power status
Power requirements	DC 3.0 V (with two AA-size alkaline (LR6) batteries)
Battery life	Approx. 6 hours with Sony AA-size alkaline (LR6) batteries at 25 °C (77 °F) at 30 mW output
Dimensions (W x H x D)	63 x 100 x 27 mm (2 1/2 x 4 x 1 1/8 inches)
Mass	Approx. 140 g (4.9 oz) including batteries
Supplied accessories	Omni-directional (UWP-C1)/Uni-directional (UWP-S1/X1) lavalier microphone (x 1), windscreen (x 1), microphone-holder clip (x 1), belt clip (x 1)

Oscillator	Crystal-controlled PLL synthesizer
Type of reception	Space diversity
Receiving frequencies CE model	798 MHz to 822 MHz (TV channels 62 to 64) or 838 MHz to 862 MHz (TV channels 67 to 69) Users may choose from 189 frequencies on each model
Antenna	1/4 I wave length wire
Pilot-tone signal	32 kHz
RF squelch level	15 dBµ
Frequency response	50 Hz to 18 kHz (typical)
Reference deviation	±5 kHz (at 1kHz modulation)
Signal-to-noise ratio	60 dB or more (±5 kHz deviation at 1 kHz modulation, A-weighted)
Audio output connector	3.5 mm (5/32 inch) dia., 3-pole mini jack (x 1), unbalanced
Audio output level	-58 dBm
Monitor output connector	3.5 mm (5/32 inch) dia., stereo mini jack (x 1)
Monitor output level	5 mW (at 16 Ω)
Indicators	
LCD	Operating channel number/frequency, audio-output status, RF-input level, tuner battery status, and accumulated operating time
LED	RF-input status
Power requirements	DC 3.0 V (two AA-size alkaline (LR6) batteries)
Battery life	Approx. 6 hours with Sony AA-size alkaline (LR6) batteries at 25 °C (77 °F)
Dimensions (W x H x D)	63.0 x 100.0 x 30.0 mm (2 1/2 x 4 x 1 3/16 inches)
Mass	Approx. 180 g (6 oz) including batteries
Supplied accessories	Microphone stand adaptor (x 1), screw adaptor (x 1), shoe-mount adaptor (x 1), belt clip (x 1), output cable (x 1, 3-pole mini-plug/XLR-type)

Handheld Microphone

Oscillator	Crystal-controlled PLL synthesizer
Type of emission	F3E
Carrier frequencies CE model	798 MHz to 822 MHz (TV channels 62 to 64) or 838 MHz to 862 MHz (TV channels 67 to 69) Users may choose from 189 frequencies on each model.
RF power output	30 mW or 5 mW (selectable)
Antenna	1/4 I wave length wire (internal)
Pilot tone signal	32 kHz
Frequency response	100 Hz to 18 kHz (typical)
Reference deviation	±5 kHz (94 dB SPL, 1 kHz input)
Signal-to-noise ratio	60 dB or more (±5 kHz deviation at 1 kHz modulation, A-weighted)
Microphone capsule	Dynamic capsule (uni-directional)
Audio attenuator adjustment range	0 to 21 dB (in 3 dB steps)
Max. input sound pressure level	151 dB SPL (at 21 dB attenuator level)
Indicators	
LCD	Operating channel number/frequency, attenuator level, RF-output level (High/Low), audio-input status, RF-output status, transmitter battery status, and accumulated operating time
LED	Power status
Power requirements	DC 3.0 V (two AA-size alkaline (LR6) batteries)
Battery life	Approx. 6 hours with Sony AA-size alkaline (LR6) batteries at 25 °C (77 °F) at 30 mW output
Dimensions	ø52 x 240 mm (ø2 1/8 x 9 1/2 inches)
Mass	Approx. 300 g (10.6 oz) including batteries
Supplied accessories	Microphone holder (x 1), screw adaptor (x 1)

0 dBV = 1 Vrms 0 dB SPL = 20µ Pa.





Sony address/contact details/dealer stamp



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