



Innovative camcorders for field and studio applications

DSR-570WS/570WSP

DSR-390/390P



For

Professional

Results

A compact and powerful solution for both field and studio applications

Ever since their introduction, the Sony DSR-500WS Series and DSR-300 Series of Digital Camcorders have shown the many distinct advantages of using the DVCAM® format in the field. Today, they are in service around the world in a variety of applications, from video journalism and newsgathering to event videography, field and studio production, independent moviemaking and much more.

The DSR-570WS*1 and DSR-390*2 are the newest top-of-the-line Sony DVCAM camcorders that add further enhancements to their predecessors.

As well as combining the excellent performance of the DVCAM format with a variety of advanced camera features, these camcorders allow studio operation via CCU control. Both camcorders come equipped with the Sony 26-pin connector, which enables connection to either a Sony CCU-D50*3 for use in the studio, or to a portable VTR for high-quality EFP applications.

Special attention to their ergonomic designs has resulted in extremely lightweight and compact units, providing maximum operational comfort when used on the shoulder or mounted on a tripod.

The DSR-570WS and DSR-390 herald a new level of quality, versatility and convenience for virtually any application, ranging from ENG to EFP and to multi-camera studio operations.

*1 "DSR-570WS" refers to both the DSR-570WS (NTSC model) and DSR-570WSP (PAL model). *2 "DSR-390" refers to both the DSR-390 (NTSC model) and DSR-390P (PAL model).

*3 "CCU-D50" refers to both the CCU-D50 (NTSC model) and CCU-D50P (PAL model).



DSR-570WS

The DSR-570WS is the top-of-the-line DVCAM camcorder that shoots in both widescreen 16:9 and standard 4:3 aspect ratios. Equipped with three 2/3-inch type Power HAD WS™ CCDs, it achieves a high resolution of 850 TV lines in 4:3 mode or 800 TV lines in 16:9 mode. It delivers the superb picture quality required to support virtually any creative shooting environment.



DSR-390

The DSR-390 is a high-quality DVCAM camcorder designed specifically for 4:3 aspect ratio acquisition. With its three high-performance 1/2-inch type Power HAD™ CCDs, it boasts a high resolution of 800 TV lines and packs the same functionality as the DSR-570WS.







DSR-570WS & DSR-390 Innovative features

Two models designed to meet the stringent requirements of a variety of users



	DSR-570WS	DSR-390	
Horizontal resolution	850 TV lines (4:3 mode)/800 TV lines (16:9 mode)	800 TV lines	
CCD	Three 2/3-inch type CCDs (Power HAD WS CCD)	Three 1/2-inch type CCDs (Power HAD CCD)	
Minimum illumination	0.25 lx	0.4 lx	
Aspect ratio	16:9/4:3 switchable	4:3 only	
Lens mount	2/3-inch type bayonet mount	1/2-inch type bayonet mount dual hot-shoe	
Hyper Gain	36 dB or 42 dB	36 dB	
Weight (Camcorder body only) 3.7 kg (8 lb 2 oz) 3.5 kg (7 lb 11 oz		3.5 kg (7 lb 11 oz)	

DSR-570WS features

2/3-inch type Power HAD WS CCD

The DSR-570WS is equipped with three 2/3-inch type Power HAD WS CCDs, each with a high density of 520,000 pixels (NTSC)/570,000 pixels (PAL). These CCDs were originally designed for the 16:9 aspect ratio, therefore high-quality images can be obtained in the 16:9 mode with virtually no image loss. A high sensitivity of F11 (at 2000 lx, 3200 K), remarkable signal-to-noise ratio of 63 dB* (NTSC)/61 dB*(PAL) and a low vertical smear level of -120 dB are also key specifications of this camcorder. * Typical

Switchable aspect ratio

Wide-aspect CCDs and digital signal processing allow the DSR-570WS to operate in both widescreen (16:9) and standard (4:3) aspect ratio modes. When



shooting in 16:9 mode, it is also possible to display both 16:9 and 4:3 safety zones in the supplied DXF-801 viewfinder.

16:9 ID pulse

When shooting 16:9 images, the DSR-570WS automatically adds a wide-aspect ID pulse to the video output signal, indicating the aspect ratio of the picture. The 16:9 information is also recorded onto the Video Auxiliary (VAUX) area of a DVCAM tape, together with the video signals.

Encoding circuit

The DSR-570WS performs digital-to-analog encoding in a wide signal-bandwidth range. This contributes to its high horizontal resolutions of 850 TV lines (in 4:3 mode) and 800 TV lines (in 16:9 mode).

DSR-390 features

1/2-inch type Power HAD CCD

The DSR-390 is equipped with three 1/2-inch type Power HAD CCDs, each with a high density of 380,000 pixels (NTSC)/430,000 pixels (PAL). These extremely high-performance 1/2-inch type CCDs provide

an outstanding sensitivity of F13 (at 2000 lx, 3200 K), a remarkable signal-to-noise ratio of 65 dB (NTSC)/62 dB (PAL), and a low vertical smear level of -115 dB.

DSR-570WS & DSR-390 Common features

Individual cover for audio control switches

An individual cover for the audio control switches allows audio input selections to be made while the main camera control area is kept concealed.



Hyper Gain

At the flick of a switch, the Hyper Gain function enables shooting in the dark by drastically boosting the electronic gain. Using the Viewfinder (VF) Menu system, the Hyper Gain level can be set to a maximum of 42 dB for the DSR-570WS, or 36 dB for the DSR-390. This allows shooting in as low as 0.25 lx and 0.4 lx respectively.









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Camera Setup Files

A total of eight camera-setup files are provided and displayed by the Viewfinder Menu system. The five factory preset files – Standard, High Saturation, Fluorescent, Film-like and S-VHS/VHS – allow operators to instantly setup the camera to match particular shooting conditions. For instance, by selecting the Film-like mode, camera settings including camera gamma and color matrix are automatically setup to give the output a film-like look. In addition to these five factory settings, three user files are available to customize camera parameters for frequently used shooting environments. With the SetUpNavi™ function, the user files and factory-preset files can also be stored on the VAUX portion of a DVCAM tape.

High-quality DVCAM recorder

DSR-570WS/390 Features

Delivering high-quality, efficient, DVCAM recording

DVCAM recording

The VTR sections of both the DSR-570WS and DSR-390 use the Sony DVCAM format, providing the video and audio quality, and the reliability necessary for professional use. For excellent picture quality, superb multi-generation capabilities and excellent production flexibility, these camcorders feature 8-bit component digital recording, with a 5:1 compression ratio and a sampling rate of 4:1:1 (NTSC)/4:2:0 (PAL).

The DSR-570WS and DSR-390 can use both mini (PDVM Series) and standard (PDV Series) cassettes. Using the standard PDV-184ME cassette, these camcorders provide a maximum recording time of 184 minutes. They can also playback the consumer DV format – another great advantage of these DVCAM camcorders.

Freeze Mix function

The Freeze Mix function superimposes a previously recorded image on the viewfinder. This allows the operator to quickly and easily frame or reposition a subject when a shot must be taken from the same position or in the same framework as a previous take. Combined with the SetUpLogTM function, this simplifies retakes.

Digital output to external devices

The DSR-570W and DSR-390 are equipped with a 6-pin i.LINK* interface (DV output only) for digital signal output. This enables recording to compatible DV and DVCAM VTRs using just one i.LINK cable, which carries digital video/audio and control signals simultaneously. Connect the DSR-570WS or DSR-390 to the Sony DSR-70A/70AP Field Editor or DSR-2000/2000P Studio VTR**, for instance, and simple cut editing can be performed without signal deterioration.

Or connect to a Sony DSR-50/50P portable DVCAM recorder, and control its Rec On/Off function remotely with the Rec On/Off button of the DSR-570WS or DSR-390.



* i.LINK is a Sony trademark used only to designate that a product is equipped with an IEEE 1394 connector. All products with an i.LINK connector may not communicate with each other. Please refer to the documentation that comes with any device having an i.LINK connector for information on compatibility, operating conditions, and proper connection.

** For this application, an optional board should be installed in the DSR-70A/70AP or the DSR-2000/2000P.

Useful features for recording

The DSR-570WS and DSR-390 include a variety of features to simplify recording:

- 26-pin VTR interface feeds camera output signals to a portable recorder equipped with a 26-pin connector
- Pool-Feed operation with Optional DSBK-501
 Analog Composite Input Board
- Edit Search function for easy access to edit points
- SetUpLog function automatically records camera-setting data for each shot onto the VAUX portion of a DVCAM tape
- ClipLink[™] operation

Digital-processing camera

DSR-570WS/390 Features

Capturing superior pictures with full Digital Signal Processing (DSP)

Advanced DSP technology

The optimized digital-signal processing provides excellent picture quality. Innovative camera features such as TruEye™ and DynaLatitude™ functions are also incorporated.

TruEye process

Sony's TruEye digital signal-processing technology virtually eliminates the hue distortion of conventional RGB analog or digital processing – particularly obvious in extreme lighting conditions. By processing video signal data at three levels – brightness, hue, and saturation – in a similar way to the human eye, the TruEye process assists in the reproduction of natural skin tones.

DynaLatitude function

DynaLatitude, a unique feature based on the TruEye process, minimizes video-level distortion. Based on video-signal histograms, the DynaLatitude function aligns the contrast of each pixel to eliminate imbalances such as the overexposure of background images.







DSR-570WS (TruEye)







DSR-570WS (DynaLatitude)

Skin Tone Detail with auto-detection of active area

The Skin Tone Detail function gives the subject a pleasing facial complexion, while maintaining the sharpness of other areas. The designated active area of Skin Tone Detail can be set with the "Skin Set" button on the camera's side panel. The color range of the active Skin Tone Detail area and Skin Detail level can also be controlled.

Black Stretch/Compress

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

Convenient and comfortable

DSR-570WS/390 Features

Combining comfort, operational convenience and simplicity

Compact and lightweight

The DSR-570WS and DSR-390 are remarkably small, thanks to high density circuit boards and a smaller recording head drum. They weigh just 3.7 kg (8 lb 3 oz) and 3.5 kg (7 lb 11 oz) respectively (camcorder only).

Low power consumption

The DSR-570WS and DSR-390 camera heads consume just 24 W and 20 W respectively. The BP-M100 nickel-metal hydride battery provides the DSR-570WS with approximately 200 minutes of recording time, and the DSR-390 with approximately 230 minutes.

DynaFit™ shoulder pad

The DSR-570WS and DSR-390 are equipped with a DynaFit shoulder pad. It molds to any shoulder without slipping and maintains excellent balance, free from the painful pressure points common to harder shoulder pads.

Variable color temperature setting

In addition to four built-in filters, the DSR-570WS and DSR-390 enable small step adjustments to the color temperature. When the filter is set to 3200 K, color temperature can be chosen from 19 steps in the range from 2200 K to 4300 K using the viewfinder menu. Similarly, 13 steps are available, ranging from 4600 K to 12000 K, when the filter is set to 5600 K. The set color can be recalled with the filter position. Using this function, artistic painting effects, such as adding a "sunset", can be easily performed without any special equipment.

Dual zebra

The DSR-570WS has two types of zebra patterns – ZEBRA 1 and ZEBRA 2. ZEBRA 1 can be set within a range of 70 IRE to 90 IRE, in one-IRE steps. ZEBRA 2 provides a zebra pattern in any area with a video level of more than 100%.

Video Disk Unit DSR-DU1

The DSR-DU1 is a compact videodisk unit that can be mounted on the rear of the DSR-570WS or DSR-390 camcorder via its associated CA-DU1 Camera Adaptor. The DSR-DU1 contains a 40GB hard drive which provides up to three hours of DVCAM/DV stream recording. The DSR-DU1 is an effective tool that can be used in many different ways. Since recordings to the camcorder's tape and the DSR-DU1 can be made in parallel, either the cassette tape or the DSR-DU1 can serve as an effective back-up recording device. Operators can also choose to continuously record to the cassette tape, while starting and pausing the recording made to the DSR-DU1 hard drive, or vice versa. Or, by alternating the recording between the camcorder tape and the DSR-DU1, a maximum of six hours of continuous recording becomes available. Finally, by using the cache recording function of the DSR-DU1, 8 seconds of loop recording is possible – a feature only provided on high-end camcorders.

The DSR-DU1 is also an extremely versatile device. When detached from the camcorder, it becomes an effective tool for field off-line logging or EDL creation, or as a source feeder machine to i.LINK equipped compatible nonlinear editors*¹. In addition, the record start and stop time codes stored in the DSR-DU1 can also be transferred to the compatible editor, eliminating

the logging process common to nonlinear editing. The DSR-DU1 also provides the following features.

- Excellent shock resistant mechanism
- 525 (NTSC)/625 (PAL) Switchable recording*2
- Interval recording
- *1 Please contact your nearest Sony office or Authorized dealer for nonlinear products that support DV file transfer from/to the DSR-DU1.
- *2 Signal conversion from 525 (NTSC) to 625 (PAL), or vice versa is not possible.



Photo shows DSR-DU1, CA-DU1 and Battery pack

Remote control system

Via a 10-pin REMOTE connector, the DSR-570WS and DSR-390 can be directly controlled from an optional Sony RCP-D50/D51 Remote Control Panel.

Scene file operation from the RCP-D50/D51

Up to 20 scene files can be created and stored in the memory of the RCP-D50/D51. Key DSP-functions and camera-setup parameters are stored in each scene file. The desired scene file can be instantly recalled using the RCP-D50/D51 menu button.

Video Light Connector

Optional light equipment can be directly attached to the DSR-570WS and DSR-390 and powered from the video light connector. It can be turned on manually using the LIGHT switch on the front-right side of the camcorder, or synchronized with the REC start function.

DXF-801 Viewfinder

The DXF-801 is a 1.5-inch* type monochrome viewfinder supplied with the DSR-570WS and DSR-390, and includes the following features:

- Automatic scan-size swapping between 16:9 and 4:3 (DSR-570WS only)
- VF Light (LED) lights up the iris ring area of the lens for operation in dark conditions (high/low/off)
- DISPLAY switch turns off the character superimposition on the viewfinder
- Tally lamp levels (high/low/off)
- Vertical and horizontal detail-level control using a PEAKING potentiometer
- Two red REC tally lamps
- TAKE tally lamp for ClipLink operation, with a second tally lamp for CCU operations
- Diecast aluminum body
- Wide range of diopter adjustments
- * Viewable area measured diagonally.

Camera adaptor for wireless receiver

The optional CA-WR855 is an adaptor to hold a Sony WRR-855*1 Wireless Microphone Receiver. It can be directly attached to the

DSR-570WS or DSR-390 via a V-shoe attachment, providing a direct connection interface for audio/power. A Lithium-ion battery can also be attached to the rear panel of the CA-WR855 via a V-shoe attachment, allowing easy battery replacement even when the WRR-855 is mounted. The DSR-570WS and DSR-390 can also accommodate the WRR-861*2 Wireless Receiver using the A-8278-057-A.



*2 The 'WRR-861' refers to both WRR-861A and WRR-861B.



Photo shows CA-WR855, WRR-855 and Battery pack

Easy operation

DSR-570WS/390 Features

Providing superior results with simple operation

Assist functions

In response to increasing demands for more automatic functions in a professional camera, the DSR-570WS and DSR-390 support camera operators with:

- Total Level Control System (TLCS) offering proper exposure automatically
- EZ Focus* to make manual focusing easier
- EZ Mode to set the camera to a standard position instantly
- Auto-Tracing White Balance (ATW) to adjust white balance in real time

■ Flexible safety zone marker

The DSR-570WS and DSR-390 can display a 'safety zone marker' in a variety of selectable aspect ratios. This function comes in handy when shooting 16:9 material for 4:3 transmission or vice versa. The following shows the safety zone aspect ratios that are available when the camcorder is operated in 16:9 or 4:3 mode.

In 16:9 mode: OFF, 4:3, 13:9, 14:9, 15:9 (DSR-570WS only) In 4:3 mode: OFF, 13:9, 14:9, 15:9, 16:9 (DSR-570WS and DSR-390)

* Not automatic focus

Integration into the studio

DSR-570WS/390 Features

A cost-effective studio solution

Multicore CCU operation with CCU-D50

In addition to enabling connection with portable VTRs, the 26-pin connector which is standard on the DSR-570WS and DSR-390 allows remote control from a Sony CCU-D50 Multicore Camera Control Unit. This affordable unit provides sophisticated remote controls for EFP or studio operators, and can be used for a wide range of applications.

- Maximum 300 m control distance between the DSR-570WS/390 and the CCU-D50 via a Sony CCZ-A 26-pin cable
- Maximum 150 m of return video and genlock signal transmissions
- Analog Y/R-Y/B-Y and VBS signals transferred to and output from the CCU-D50
- Control functions via the CCU-D50:

IRIS (auto/manual), White/Black Balance (auto/manual/preset), Gain Select (low/mid/high), R/B White, R/B Black, Master Black, Sub-carrier Phase, Horizontal Phase, Output Mode (color bar/camera), Knee Point (auto/manual), Detail Level, Tally/Intercom, Shutter Speed Selection, Clear Scan, ATW (ON/OFF)

■ Video light power supplied from the CCU-D50

When using a video light such as in on-air interview applications, the power for the video light can be supplied from the CCU-D50 via the CCZ-A cable as follows:

- Maximum 20 W when using a 1.5-inch type viewfinder (DXF-801)
- Maximum 10 W when using a 5-inch type viewfinder (DXF-51)



CCU-D50



26-pin connector

Intercom adaptor CA-370*

The DSR-570WS and DSR-390 offer intercom capability with the addition of an optional CA-370 Intercom adaptor, for communication between the camera operator and CCU-D50 operator. The CA-370 also allows

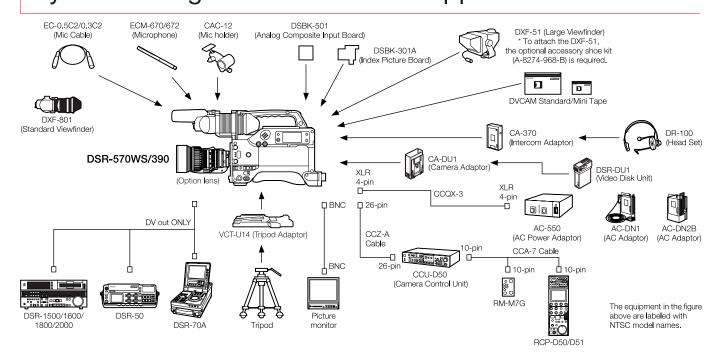
connection of a Sony DR-100 headset and provides the associated audio volume controls. The convenient 'V-shoe mount' provides quick and stable connection between the camcorder and adaptor.

* The CA-370 cannot be used in combination with the CA-WR855.

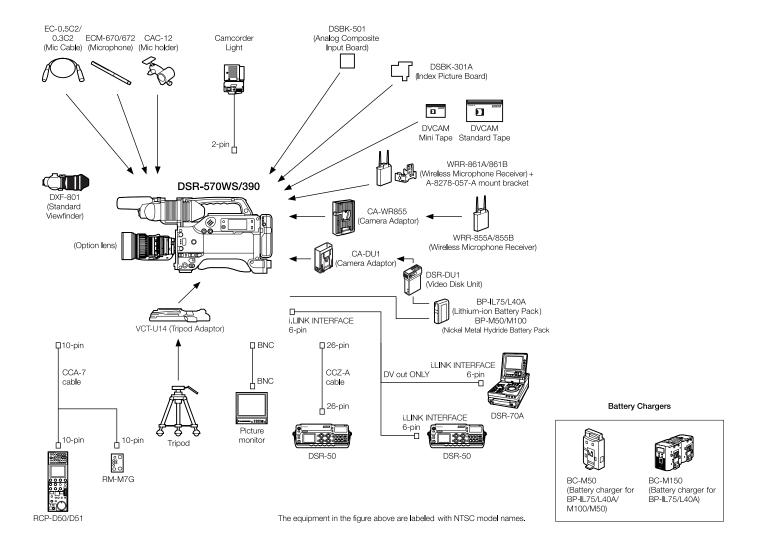


Studio System with the CA-370 and DR-100

System configurations for studio applications



System configurations for field applications



Product configurations

	DSR-570WSL (NTSC) or DSR-570WSPL (PAL)	DSR-390L (NTSC) or DSR-390PL (PAL)	DSR-390K1 (NTSC) or DSR-390PK1 (PAL)	DSR-390K2 (NTSC) or DSR-390PK2 (PAL)
Camcorder DSR-570WS (NTSC) or DSR-570WSP (PAL)	Yes	-	_	-
Camcorder DSR-390 (NTSC) or DSR-390P (PAL)	_	Yes	Yes	Yes
Viewfinder DXF-801 (with Microphone holder)	Yes	Yes	Yes	Yes
Tripod adaptor VCT-U14	Yes	Yes	Yes	Yes
External microphone	Yes	Yes	Yes	Yes
Shoulder strap	Yes	Yes	Yes	Yes
Zoom lens VCL-719BX	_	<u>-</u>	Yes	_
Zoom lens VCL-716BX	_	-	-	Yes

Optional accessories





Remote Control Panel for DSR-570WS/390 only

























(A-8274-968-B) included in the CA-370 is required.





























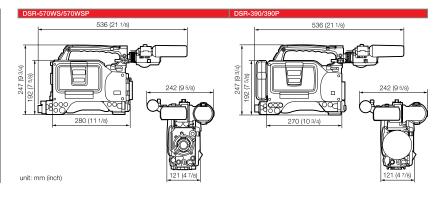
^{*}¹ The RCP-D50/D51 includes CCA-7-5 cable.
*² The A-8278-D57-A bracket is required to mount on the DSR-570WS/390.
*³ The recommended use for the BP-L40A is 30 W or less.
*³ The connector on one end of the cable has a lock mechanism, and is connected to a i.LIMK connector with the same lock mechanism, such as the DSR-570WS.

Specifications

GENERAL		DSR-570WS	DSR-570WSP	DSR-390	DSR-390P	
Power requirements		041817		11 to 17 V)	004111/211/5	
Power consumption		24 W (without VF), 26.1 W (with VF)	20 W (without VF),	22.1 W (with VF)	
Operating temperature				32 °F to 104 °F)		
Storage temperature				(-4 °F to 140 °F)		
Operating humidity				an 85%		
Storage humidity			Less th	an 90%		
Tape speed		28.193 mm/s	28,221 mm/s	28.193 mm/s	28.221 mm/s	
Recording/Playback time	Standard size		184 min. with	h PDV184ME		
riocordingir laybacit arrio				PDVM40ME		
Mini size		+				
Fast forward/Rewind time	Standard size	Approx. 12 min. with PDV184ME Approx. 3 min. with PDVM40ME				
	Mini size					
Continuous recording time		Approx. 70 min. with BP-L40A, 90 min. with BP-M50, Approx. 80 min. with BP-L40A, 100 min. with BP-M50,				
		140 min. with BP-IL75, 200 min. with BP-M100 180 min. with BP-IL75, 230 min. with BP-M100				
Weight		Approx. 14.1 lb 225.7 oz (6.4 kg) with VF, microphone, Approx. 6.2 kg (13.6 lb 218.6 oz) with VF, microphone,				
		lens, battery (BP-L40A) and miniDV tape lens (VCL-719BX), battery (BP-L40A) and miniDV tape				
Dimensions (w/h/d)			4 7/8 x 7 5/8 x 11 1/8 inches (121 x 192 x 280 mm) (without projections) 121 x 192 x 270 mm (4 7/8 x 7 5/8 x 10 3/4 inches) (without projections)			
, ,		4 7/3 x 7 3/3 x 1 1 1/3 licales (121 x 1 2/2 x 201 lini) (willout projections) 121 x 1 3/2 x 2/3 1 lini (+ 1/3 x 1 - 3/3 x 1 3/4 t 1 3/4 linches) (willout projections) 242 x 247 x 536 mm (9 5/8 x 9 3/4 x 21 1/8 linches) (with projections)				
CAMERA		0 0/0 // 0 0/ // // // // // // // // //	The first of the state of the s		(11111111111111111111111111111111111111	
Image device		2 ohin 2/2 inch tuno	Interline-Transfer CCD	2 ohin 1/2 inch type	Interline-Transfer CCD	
		3-Grilp 2/3-iricit type,			illeriille-Transier GGD	
Optics				dex prism system		
Effective picture elements		980 x 494 (H x V)	980 x 582 (H x V)	768 x 494 (H x V)	752 x 582 (H x V)	
Total picture elements		1038 x 504 (H x V)	1038 x 594 (H x V)	811 x 508 (H x V)	795 x 596 (H x V)	
Sensing area		9.6 mm	x 5.4 mm	6.4 mm >	: 4.8 mm	
Built-in filters			1: 3200 K, 2: 5600 K+1/8 ND,	3: 5600 K, 4: 5600 K+1/64 ND		
Lens mount			pe Bayonet mount	Sony 1/2-inch typ	e Bayonet mount	
Signal system		NTSC color system	PAL color system	NTSC color system	PAL color system	
Scanning system		2:1 interlaced, 525 lines, 60 fields/s	2:1 interlaced, 625 lines, 50 fields/s	2:1 interlaced, 525 lines, 60 fields/s	2:1 interlaced, 625 lines, 50 fields/s	
Horizontal frequency		15.734 kHz	15.625 kHz	15.734 kHz	15.625 kHz	
Vertical frequency		59.94 Hz	50 Hz	59.94 Hz	50 Hz	
Sync system				VBS or BS) External Sync, VTR/CCU IN		
Horizontal resolution), 4:3 mode : 850 TV lines (center)		es (center)	
Vertical resolution		400 TV lines (without EVS),	480 TV lines (without EVS),	400 TV lines (without EVS),	480 TV lines (without EVS),	
		450 TV lines (with EVS)	530 TV lines (with EVS)	450 TV lines (with EVS)	530 TV lines (with EVS)	
Minimum illumination		0.25 lx with F1.4. Hyper gain (42 dF	0.4 lx with F1.8, Hyper gain (42 dB)	0.4 lx with F1.4, Hyper gain (36 dB)	0.6 lx with F1.8, Hyper gain (36 dB)	
Sensitivity			9.9 % reflectance) (typical)		9.9 % reflectance) (typical)	
Gain selection		-3 dB, 0 dB, 3 dB, 6 dB, 9 dB			, 12 dB, 18 dB, 18 dB+DPR,*	
Gairi Scicction			ain (36 dB or 42 dB selectable)		. Hyper Gain (36 dB)	
Chi atau annual colores						
Shutter speed selection		OFF, 1/100, 1/250, 1/500, 1/1000, 1/2000 (s)	OFF, 1/60, 1/250, 1/500, 1/1000, 1/2000 (s)	OFF, 1/100, 1/250, 1/500, 1/1000, 1/2000 (s)	OFF, 1/60, 1/250, 1/500, 1/1000, 1/2000 (s)	
Clear scan selection		60.4 to 200.3 Hz	50.3 to 201.4 Hz	60.4 to 200.3 Hz	50.3 to 201.4 Hz	
Signal-to-noise ratio		63 dB (typical)	61 dB (typical)	65 dB (typical)	62 dB (typical)	
Registration				es, without lens)		
Geometric distortion			Below mea:	surable level		
VTR						
VIDEO PERFORMANCE**						
Bandwidth	Luminance	30 Hz to 5.0 MHz ± 1.0 dB	25 Hz to 5.5 MHz +1.0/-2.0 dB	30 Hz to 5.0 MHz ± 1.0 dB	25 Hz to 5.5 MHz +1.0/-2.0 dB	
Darawati	Chrominance	30 Hz to 1.5 MHz +1.0/-5.0 dB	25 Hz to 2.0 MHz +1.0/-2.0 dB	30 Hz to 1.5 MHz +1.0/-5.0 dB	25 Hz to 2.0 MHz +1.0/-2.0 dB	
S/N ratio (luminance)	Ontorninance	30 112 to 1.5 Wil 12 +1.0/ 5.0 db		an 55 dB	23112 (0 2.0 WH 12 + 1.0/ 2.0 GD	
K-factor (K2T, KPB)			Less the			
Y/C delay			Less th	an 30 ns		
AUDIO PERFORMANCE**						
Frequency response	48 KHz		20 Hz to 20 kH			
			20 Hz to 14.5 KHz +0.5/-1.0 dB			
,	32 KHz					
			20 Hz to 14.5 K			
Dynamic range			20 Hz to 14.5 K More the	Hz +0.5/-1.0 dB an 80 dB		
Dynamic range Distortion (THD)			20 Hz to 14.5 K More the	Hz +0.5/-1.0 dB		
Dynamic range Distortion (THD) INPUT/OUTOUT	32 KHz		20 Hz to 14.5 K More the Less than 0.08% (1 kHz	Hz +0.5/-1.0 dB an 80 dB reference level, 48 kHz)		
Dynamic range Distortion (THD)	32 KHz GENLOCK VIDEO IN		20 Hz to 14.5 K More th Less than 0.08% (1 kHz BNC, 1.0	Hz +0.5/-1.0 dB an 80 dB r reference level, 48 kHz) Vp-p, 75 Ω		
Dynamic range Distortion (THD) INPUT/OUTOUT	32 KHz GENLOCK VIDEO IN TO IN		20 Hz to 14.5 K More thi Less than 0.08% (1 kHz BNC, 1.0 BNC, 0.5 Vp-p to	$\rm Hz$ +0.5/-1.0 dB an 80 dB reference level, 48 kHz) Vp-p. 75 Ω o 18 Vp-p. 10 k Ω		
Dynamic range Distortion (THD) INPUT/OUTOUT	GENLOCK VIDEO IN TC IN EXT AUDIO CH-1/2		20 Hz to 14.5 K More the Less than 0.08% (1 kHz BNC, 10.5 Vp-p t XLR 3-pin x 2 Female, -60	Hz +0.5/-1.0 dB an 80 dB ar ender elevel, 48 kHz) vp-p, 75 Ω to 18 V p-p, 10 k Ω dBu, 3 k Ω dBu, 3 k Ω -/-44 dBu, 10 k Ω		
Dynamic range Distortion (THD) INPUT/OUTOUT	GENLOCK VIDEO IN TC IN EXT AUDIO CH-1/2 MIC IN		20 Hz to 14.5 K More th: Less than 0.08% (1 kHz BNC, 0.5 Vp-p t XLR 3-pin x 2 Female, -60 XLR 3-pin	Hz +0.5/-1.0 dB an 80 dB z reference level, 48 kHz) V p-p, 75 Ω o 18 V p-p, 10 k Ω dBu, 3 k Ω -/+4 dBu, 10 k Ω x 1 Female		
Dynamic range Distortion (THD) INPUT/OUTOUT Signal inputs	GENLOCK VIDEO IN TC IN EXT AUDIO CH-1/2 MIC IN ANALOG VIDEO IN		20 Hz to 14.5 K More thr Less than 0.08% (1 kHz BNC, 1.0 ' BNC, 0.5 'Vp-p to XLR 3-pin x 2 Female, -60 XLR 3-pin π 2 Female, -60 BNC, 1.0 Vp-p, 75 Ω (When the op	Hz +0.5/-1.0 dB an 80 dB are of B a		
Dynamic range Distortion (THD) INPUT/OUTOUT	GENLOCK VIDEO IN TC IN EXT AUDIO CH-1/2 MIC IN		20 Hz to 14.5 K More thr Less than 0.08% (1 kHz BNC, 1.0 ' BNC, 0.5 'Vp-p to XLR 3-pin x 2 Female, -60 XLR 3-pin π 2 Female, -60 BNC, 1.0 Vp-p, 75 Ω (When the op	Hz +0.5/-1.0 dB an 80 dB z reference level, 48 kHz) V p-p, 75 Ω o 18 V p-p, 10 k Ω dBu, 3 k Ω -/+4 dBu, 10 k Ω x 1 Female		
Dynamic range Distortion (THD) INPUT/OUTOUT Signal inputs	GENLOCK VIDEO IN TC IN EXT AUDIO CH-1/2 MIC IN ANALOG VIDEO IN		20 Hz to 14.5 K More the Less than 0.08% (1 kHz BNC, 1.0 BNC, 0.5 Vp-p to XLR 3-pin x 2 Female, -60 XLR 3-pin BNC, 1.0 Vp-p, 75 Ω (When the op BNC, 1.0 Vp-p, sync neg	Hz +0.5/-1.0 dB an 80 dB reference level, 48 kHz) Vp-p. 75 Ω b 18 Vp-p. 10 k Ω dBu, 3 k Ω -/+4 dBu, 10 k Ω x 1 Female ption board DSBK-501 is installed.) gative, 75 Ω , 26-pin Male		
Dynamic range Distortion (THD) INPUT/OUTOUT Signal inputs	GENLOCK VIDEO IN TC IN EXT AUDIO CH-1/2 MIC IN ANALOG VIDEO IN VIDEO OUT VIBS	Y-10 Vn-n, suno panativa	20 Hz to 14.5 K More th: Less than 0.08% (1 kHz BNC, 1.0' BNC, 0.5 Vp-p to XLR 3-pin x 2 Female, -60 XLR 3-pin SD, (When the open SNC, 1.0 Vp-p, sync neg	Hz +0,5/-1,0 dB an 80 dB an 80 dB reference level, 48 kHz) Vp-p, 75 Ω b 18 Vp-p, 10 kΩ dBu, 3 kΩ-/+4 dBu, 10 kΩ x 1 Female piton board DSBK-501 is installed.) gative, 75 Ω, 26-pin Male ync negative	Y-10 Vo-n suns negative	
Dynamic range Distortion (THD) INPUT/OUTOUT Signal inputs	GENLOCK VIDEO IN TC IN EXT AUDIO CH-1/2 MIC IN ANALOG VIDEO IN VIDEO OUT	Y: 1.0 Vp-p, sync negative	20 Hz to 14.5 K More thi Less than 0.08% (1 kHz BNC, 1.0 V BNC, 0.5 Vp-p to XLR 3-pin x 2 Female, -60 XLR 3-pin π 2 Female, -70 BNC, 1.0 Vp-p, 75 Ω (When the op BNC, 1.0 Vp-p, sync neg 1.0 Vp-p, sync neg Y: 1.0 Vp-p, sync negative	Hz +0.5/-1.0 dB an 80 dB reference level, 48 kHz) Vp-p, 75 Ω o 18 Vp-p, 10 k Ω dBu, 3 k Ω -/+4 dBu, 10 k Ω x 1 Female ption board DSBK-501 is installed.) gative, 75 Ω , 26-pin Male ync negative Y: 1.0 Vp-p, sync negative	Y: 1.0 Vp-p, sync negative B-V/B-Y: 505 mVn-n	
Dynamic range Distortion (THD) INPUT/OUT Signal inputs	GENLOCK VIDEO IN TC IN EXT AUDIO CH-1/2 MIC IN ANALOG VIDEO IN VIDEO OUT VBS Y/R-Y/B-Y	R-Y/B-Y: 700 mVp-p	20 Hz to 14.5 K More thi Less than 0.08% (1 kHz BNC, 1.0 V BNC, 0.5 Vp-p to XLR 3-pin x 2 Female, -60 XLR 3-pin BNC, 1.0 Vp-p, 75 Ω (When the op BNC, 1.0 Vp-p, sync neg Y: 1.0 Vp-p, sync negative R-Y/B-Y: 525 mVp-p	Hz +0.5/-1.0 dB an 80 dB r reference level, 48 kHz) Vp-p, 75 Ω b 18 Vp-p, 10 kΩ dBu, 3 kΩ-/+4 dBu, 10 kΩ x 1 Female ption board DSBK-501 is installed.) gative, 75 Ω, 26-pin Male ync negative Y: 1.0 Vp-p, sync negative R-Y/B-Y: 700 mVp-p	R-Y/B-Y: 525 mVp-p	
Dynamic range Distortion (THD) INPUT/OUT Signal inputs	GENLOCK VIDEO IN TC IN EXT AUDIO CH-1/2 MIC IN ANALOG VIDEO IN VIDEO OUT VIBS	R-Y/B-Y: 700 mVp-p Y: 1.0 Vp-p, sync negative	20 Hz to 14.5 K More th: Less than 0.08% (1 kHz BNC, 1.0' BNC, 0.5 Vp-p to XLR 3-pin x 2 Female, -60 XLR 3-pin x 2 Female, -60 BNC, 1.0 Vp-p, 75 Ω (When the or BNC, 1.0 Vp-p, sync neg 1.0 Vp-p, sync neg Y: 1.0 Vp-p, sync negative R-Y/B-Y: 525 mVp-p Y: 1.0 Vp-p, sync negative	Hz +0.5/-1.0 dB an 80 dB an 80 dB an 80 dB ar	R-Y/B-Y: 525 mVp-p Y: 1.0 Vp-p, sync negative	
Dynamic range Distortion (THD) INPUT/OUT Signal inputs	GENLOCK VIDEO IN TO IN EXT AUDIO CH-1/2 MIC IN ANALOG VIDEO IN VIDEO OUT VBS Y/R-Y/B-Y	R-Y/B-Y: 700 mVp-p	20 Hz to 14.5 K More this Less than 0.08% (1 kHz BNC, 1.0 V BNC, 0.5 Vp-p to XLR 3-pin x 2 Female, -60 XLR 3-pin price (10 Vp-p, sync nee) BNC, 1.0 Vp-p, sync nee 1.0 Vp-p, sync negative R-Y/B-Y: 525 m/Vp-p Y: 1.0 Vp-p, sync negative C: 300 m/Vp-p (burst level)	Hz +0.5/-1.0 dB an 80 dB reference level, 48 kHz) Vp-p, 75 Ω o 18 Vp-p, 10 k Ω dBu, 3 k Ω -/+4 dBu, 10 k Ω x 1 Female ption board DSBK-501 is installed.) gative, 75 Ω , 26-pin Male ync negative P; 1.0 Vp-p, sync negative P; 1.0 Vp-p, sync negative C: 286 mVp-p (burst level)	R-Y/B-Y: 525 mVp-p	
Dynamic range Distortion (THD) INPUT/OUT Signal inputs	GENLOCK VIDEO IN TC IN EXT AUDIO CH-1/2 MIC IN ANALOG VIDEO IN VIDEO OUT VBS Y/R-Y/B-Y Y/C DV OUT	R-Y/B-Y: 700 mVp-p Y: 1.0 Vp-p, sync negative	20 Hz to 14.5 K More thi Less than 0.08% (1 kHz BNC, 1.0 V BNC, 0.5 Vp-p to XLR 3-pin x 2 Female, -60 XLR 3-pin BNC, 1.0 Vp-p, 57 Ω (When the or BNC, 1.0 Vp-p, sync neg 1.0 Vp-p, sync negative R-Y/B-Y: 525 mVp-p Y: 1.0 Vp-p, sync negative C: 300 mVp-p (burst level)	Hz +0.5/-1.0 dB an 80 dB reference level, 48 kHz) VP-p., 75 Ω b 18 Vp-p, 10 k Ω dBu, 3 k Ω -/+4 dBu, 10 k Ω x 1 Female ption board DSBK-501 is installed.) gative, 75 Ω , 26-pin Male ync negative Y: 1.0 Vp-p, sync negative R-Y/B-Y: 700 mVp-p Y: 1.0 Vp-p, sync negative C: 286 mVp-p (burst level)	R-Y/B-Y: 525 mVp-p Y: 1.0 Vp-p, sync negative	
Dynamic range Distortion (THD) INPUT/OUTOUT Signal inputs	GENLOCK VIDEO IN TO IN EXT AUDIO CH-1/2 MIC IN ANALOG VIDEO IN VIDEO OUT VBS Y/R-Y/B-Y Y/C DV OUT MONITOR OUT	R-Y/B-Y: 700 mVp-p Y: 1.0 Vp-p, sync negative	20 Hz to 14,5 K More th: Less than 0.08% (1 kHz BNC, 1.0 \(^1\) BNC, 0.5 \(^1\) BNC, 0.5 \(^1\) BNC, 0.5 \(^1\) BNC, 1.0 \(^1\) FNC, 1.0 \(^1\) STANDARD RESERVATION Y: 1.0 \(^1\) Y: 1.0 \(^1\) Y: 1.0 \(^1\) Y-1.0 \(^1\) BNC, 1.0 \(^1\) ENK, 6-pin IE BNC, 1.0 \(^1\) P-p, syn	Hz +0.5/-1.0 dB an 80 dB are of dB	R-Y/B-Y: 525 mVp-p Y: 1.0 Vp-p, sync negative	
Dynamic range Distortion (THD) INPUT/OUT Signal inputs	GENLOCK VIDEO IN TC IN EXT AUDIO CH-1/2 MIC IN ANALOG VIDEO IN VIDEO OUT VBS Y/R-Y/B-Y Y/C DV OUT	R-Y/B-Y: 700 mVp-p Y: 1.0 Vp-p, sync negative	20 Hz to 14,5 K More th: Less than 0.08% (1 kHz BNC, 1.0 \(^1\) BNC, 0.5 \(^1\) BNC, 0.5 \(^1\) BNC, 0.5 \(^1\) BNC, 1.0 \(^1\) FNC, 1.0 \(^1\) STANDARD RESERVATION Y: 1.0 \(^1\) Y: 1.0 \(^1\) Y: 1.0 \(^1\) Y-1.0 \(^1\) BNC, 1.0 \(^1\) ENK, 6-pin IE BNC, 1.0 \(^1\) P-p, syn	Hz +0.5/-1.0 dB an 80 dB reference level, 48 kHz) VP-p., 75 Ω b 18 Vp-p, 10 k Ω dBu, 3 k Ω -/+4 dBu, 10 k Ω x 1 Female ption board DSBK-501 is installed.) gative, 75 Ω , 26-pin Male ync negative Y: 1.0 Vp-p, sync negative R-Y/B-Y: 700 mVp-p Y: 1.0 Vp-p, sync negative C: 286 mVp-p (burst level)	R-Y/B-Y: 525 mVp-p Y: 1.0 Vp-p, sync negative	
Dynamic range Distortion (THD) INPUT/OUT Signal inputs	GENLOCK VIDEO IN TO IN EXT AUDIO CH-1/2 MIC IN ANALOG VIDEO IN VIDEO OUT VBS Y/R-Y/B-Y Y/C DV OUT MONITOR OUT	R-Y/B-Y: 700 mVp-p Y: 1.0 Vp-p, sync negative	20 Hz to 14.5 K More thi Less than 0.08% (1 kHz BNC, 1.0 V BNC, 0.5 Vp-p to XLR 3-pin x 2 Female, -60 XLR 3-pin π 2 Female, -60 XLR 3-pin π 2 Female, -60 XLR 3-pin π 2 Female, -60 Y 1.0 Vp-p, sync neg 1.0 Vp-p, sync neg Y: 1.0 Vp-p, sync negative R-Y/B-Y: 525 m/Vp-p Y: 1.0 Vp-p, sync negative C: 300 m/Vp-p (burst level) i.LINK, 6-pin IE BNC, 1.0 Vp-p, s BNC, 1.0 Vp-p, s	Hz +0.5/-1.0 dB an 80 dB are of dB	R-Y/B-Y: 525 mVp-p Y: 1.0 Vp-p, sync negative	
Dynamic range Distortion (THD) INPUT/OUT Signal inputs	GENLOCK VIDEO IN TC IN EXT AUDIO CH-1/2 MIC IN ANALOG VIDEO IN VIDEO OUT VIBS Y/R-Y/B-Y Y/C DV OUT MONITOR OUT TO OUT AUDIO CH-1/2	R-Y/B-Y: 700 mVp-p Y: 1.0 Vp-p, sync negative	20 Hz to 14.5 K More the Less than 0.08% (1 kHz BNC, 1.0' BNC, 0.5 Vp-p to XLR 3-pin x 2 Female, -60 XLR 3-pin x 2 Female, -70 BNC, 1.0 Vp-p, 57 Ω (When the or BNC, 1.0 Vp-p, sync neg 1.0 Vp-p, sync negative R-Y/B-Y: 525 mVp-p Y: 1.0 Vp-p, sync negative C: 300 mVp-p (burst level) LINK, 5-pin IE BNC, 1.0 Vp-p, sync BNC, 1.0 Vp-p, sync BNC, 1.0 Vp-p, sync	Hz +0.5/-1.0 dB an 80 dB reference level, 48 kHz) VP-p. 75 Ω b 18 Vp-p. 10 k Ω dBu, 3 k Ω -/+4 dBu, 10 k Ω x 1 Female piton board DSBK-501 is installed.) gative, 75 Ω , 26-pin Male yr. 1.0 Vp-p, sync negative Y: 1.0 Vp-p, sync negative P: 1.0 Vp-p, sync negative C: 286 mVp-p (burst level) EEE1394-based yr. negative, 75 Ω dBu, 47 k Ω	R-Y/B-Y: 525 mVp-p Y: 1.0 Vp-p, sync negative	
Dynamic range Distortion (THD) INPUT/OUTOUT Signal inputs Signal outputs	GENLOCK VIDEO IN TO IN EXT AUDIO CH-1/2 MIC IN ANALOG VIDEO IN VIDEO OUT VBS Y/R-Y/B-Y Y/C DV OUT MONITOR OUT TC OUT AUDIO CH-1/2 S-VIDEO	R-Y/B-Y: 700 mVp-p Y: 1.0 Vp-p, sync negative	20 Hz to 14.5 K More thr Less than 0.08% (1 kHz BNC, 1.0 V BNC, 0.5 Vp-p to XLR 3-pin x 2 Female, -60 XLR 3-pin x 2 Female, -60 XLR 3-pin S 2 Female, -60 BNC, 1.0 Vp-p, 75 Ω (When the or BNC, 1.0 Vp-p, sync neg 1.0 Vp-p, sync negative R-V/B-Y: 525 mVp-p Y: 1.0 Vp-p, sync negative C: 300 mVp-p (burst level) ILINK, 6-pin IE BNC, 1.0 Vp-p, sync BNC, 1	Hz +0.5/-1.0 dB an 80 dB are of dB	R-Y/B-Y: 525 mVp-p Y: 1.0 Vp-p, sync negative	
Dynamic range Distortion (THD) INPUT/OUT Signal inputs	GENLOCK VIDEO IN TO IN EXT AUDIO CH-1/2 MIC IN ANALOG VIDEO IN VIDEO OUT VBS Y/R-Y/B-Y Y/C DV OUT MONITOR OUT TC OUT AUDIO CH-1/2 S-VIDEO DC IN	R-Y/B-Y: 700 mVp-p Y: 1.0 Vp-p, sync negative	20 Hz to 14.5 K More this Less than 0.08% (1 kHz BNC, 1.0 V BNC, 0.5 Vp-p to XLR 3-pin x 2 Female, -60 XLR 3-pin x 2 Female, -60 XLR 3-pin Developed the second of	Hz +0.5/-1.0 dB an 80 dB reference level, 48 kHz) Vp-p. 75 Ω o 18 Vp-p. 10 k Ω dBu, 3 k Ω -/+4 dBu, 10 k Ω x 1 Female ption board DSBK-501 is installed.) gative, 75 Ω , 26-pin Male mc negative R-V/B-V: 700 mVp-p Y: 1.0 Vp-p, sync negative R-V/B-V: 700 mVp-p Y: 1.0 Vp-p, sync negative C: 286 mVp-p (burst level) EEE1394-based ync negative, 75 Ω Vp-p. 75 Ω o dBu, 47 k Ω 0 Vp-p, 75 Ω in, Male	R-Y/B-Y: 525 mVp-p Y: 1.0 Vp-p, sync negative	
Dynamic range Distortion (THD) INPUT/OUTOUT Signal inputs Signal outputs	GENLOCK VIDEO IN TO IN EXT AUDIO CH-1/2 MIC IN ANALOG VIDEO IN VIDEO OUT VBS Y/R-Y/B-Y Y/C DV OUT MONITOR OUT TC OUT AUDIO CH-1/2 S-VIDEO DC IN DC OUT	R-Y/B-Y: 700 mVp-p Y: 1.0 Vp-p, sync negative	20 Hz to 14.5 K More thi Less than 0.08% (1 kHz BNC, 1.0' BNC, 0.5 Vp-p to XLR 3-pin x 2 Female, -60 XLR 3-pin x 2 Female, -60 RNC, 1.0 Vp-p, 57 Ω (When the or BNC, 1.0 Vp-p, sync neg 1.0 Vp-p, sync negative R-Y/B-Y: 525 mVp-p Y: 1.0 Vp-p, sync negative C: 300 mVp-p (burst level) LINK, 6-pin IE BNC, 1.0 Vp-p, sy BNC, 1.0 Vp-p, sy	Hz +0.5/-1.0 dB an 80 dB role of Section 19 (19 cm) and 19 dB an 80 dB role of Section 19 (19 cm) and 19 cm and 19	R-Y/B-Y: 525 mVp-p Y: 1.0 Vp-p, sync negative	
Dynamic range Distortion (THD) INPUT/OUTOUT Signal inputs Signal outputs	GENLOCK VIDEO IN TO IN EXT AUDIO CH-1/2 MIC IN ANALOG VIDEO IN VIDEO OUT VBS Y/R-Y/B-Y Y/C DV OUT MONITOR OUT TC OUT AUDIO CH-1/2 S-VIDEO DC IN DC OUT BATTERY TERMINAL	R-Y/B-Y: 700 mVp-p Y: 1.0 Vp-p, sync negative	20 Hz to 14.5 K More this Less than 0.08% (1 kHz BNC, 1.0' BNC, 0.5 Vp-p to XLR 3-pin x 2 Female, -60 XLR 3-pin x 2 Female, -60 BNC, 1.0 Vp-p, 75 Ω (When the or BNC, 1.0 Vp-p, sync neg 1.0 Vp-p, sync negative R-Y/B-Y: 525 mVp-p Y: 1.0 Vp-p, sync negative C: 300 mVp-p (burst level) ILINK, 6-pin IE BNC, 1.0 Vp-p, sync BNC, 1.0 RCA pin, -10 CD N 4-pin, 1. XLR 4-F4 4-pin, 5-	Hz +0.5/-1.0 dB an 80 dB are of dB	R-Y/B-Y: 525 mVp-p Y: 1.0 Vp-p, sync negative	
Dynamic range Distortion (THD) INPUT/OUTOUT Signal inputs Signal outputs	GENLOCK VIDEO IN TC IN EXT AUDIO CH-1/2 MIC IN ANALOG VIDEO IN VIDEO OUT VIDEO OUT MONITOR OUT TC OUT AUDIO CH-1/2 S-VIDEO DC OUT BATTERY TERMINAL EARPHONE	R-Y/B-Y: 700 mVp-p Y: 1.0 Vp-p, sync negative	20 Hz to 14.5 K More the Less than 0,08% (1 kHz BNC, 1.0' BNC, 0.5 Vp-p te XLR 3-pin x 2 Female, -60 XLR 3-pin x 2 Female, -60 BNC, 1.0 Vp-p, 57 Ω (When the operation of the companies o	Hz +0.5/-1.0 dB an 80 dB an	R-Y/B-Y: 525 mVp-p Y: 1.0 Vp-p, sync negative	
Dynamic range Distortion (THD) INPUT/OUTOUT Signal inputs Signal outputs	GENLOCK VIDEO IN TO IN EXT AUDIO CH-1/2 MIC IN ANALOG VIDEO IN VIDEO OUT VBS Y/R-Y/B-Y Y/C DV OUT MONITOR OUT TC OUT AUDIO CH-1/2 S-VIDEO DC IN DC OUT BATTERY TERMINAL EARPHONE LIGHT OUT	R-Y/B-Y: 700 mVp-p Y: 1.0 Vp-p, sync negative	20 Hz to 14.5 K More the Less than 0,08% (1 kHz BNC, 1.0' BNC, 0.5 Vp-p te XLR 3-pin x 2 Female, -60 XLR 3-pin x 2 Female, -60 BNC, 1.0 Vp-p, 57 Ω (When the operation of the companies o	Hz +0.5/-1.0 dB an 80 dB are of dB	R-Y/B-Y: 525 mVp-p Y: 1.0 Vp-p, sync negative	
Dynamic range Distortion (THD) INPUT/OUTOUT Signal inputs Signal outputs	GENLOCK VIDEO IN TO IN EXT AUDIO CH-1/2 MIC IN ANALOS VIDEO IN VIDEO OUT VBS Y/R-Y/B-Y PV OUT MONITOR OUT TO OUT AUDIO CH-1/2 S-VIDEO DC IN DC OUT BATTERY TERMINAL EARPHONE LIGHT OUT WRR OUT	R-Y/B-Y: 700 mVp-p Y: 1.0 Vp-p, sync negative	20 Hz to 14.5 K More the Less than 0.08% (1 kHz BNC, 1.0' BNC, 0.5 Vp-p to XLR 3-pin x 2 Female, -60 XLR 3-pin x 2 Female, -60 XLR 3-pin x 2 Female, -60 BNC, 1.0 Vp-p, 57 Ω (When the or BNC, 1.0 Vp-p, sync neg 1.0 Vp-p, sync negative Y: 1.0 Vp-p, sync negative C: 300 mVp-p (burst level) i.LINK, 6-pin IE BNC, 1.0 Vp-p, sync negative C: 300 mVp-p (burst level) i.LINK, 6-pin IE BNC, 1.0 Vp-p, sync negative C: 300 mVp-p (burst level) i.LINK, 6-pin IE BNC, 1.0 Vp-p, sync negative C: 300 mVp-p (burst level) i.LINK, 6-pin IE BNC, 1.0 Vp-p, sync negative C: 300 mVp-p (burst level) i.LINK, 6-pin IE BNC, 1.0 Vp-p, sync negative C: 300 mVp-p (burst level) i.LINK, 6-pin IE BNC, 1.0 Vp-p, sync negative C: 300 mVp-p (burst level) i.LINK, 6-pin IE BNC, 1.0 Vp-p, sync negative C: 300 mVp-p (burst level) i.LINK, 6-pin IE BNC, 1.0 Vp-p, sync negative C: 300 mVp-p (burst level) i.LINK, 6-pin IE BNC, 1.0 Vp-p, sync negative C: 300 mVp-p (burst level) i.LINK, 6-pin IE BNC, 1.0 Vp-p, sync negative C: 300 mVp-p (burst level) i.LINK, 6-pin IE BNC, 1.0 Vp-p, sync negative C: 300 mVp-p (burst level) i.LINK, 6-pin IE BNC, 1.0 Vp-p, sync negative C: 300 mVp-p (burst level) i.LINK, 6-pin IE BNC, 1.0 Vp-p, sync negative C: 300 mVp-p (burst level) i.LINK, 6-pin IE BNC, 1.0 Vp-p, sync negative C: 300 mVp-p (burst level) i.LINK, 6-pin IE BNC, 1.0 Vp-p, sync negative C: 300 mVp-p (burst level) i.LINK, 6-pin IE BNC, 1.0 Vp-p, sync negative C: 300 mVp-p (burst level) i.LINK, 6-pin IE BNC, 1.0 Vp-p, sync negative C: 300 mVp-p (burst level) i.LINK, 6-pin IE BNC, 1.0 Vp-p, sync negative C: 300 mVp-p (burst level) i.LINK, 6-pin IE BNC, 1.0 Vp-p, sync negative C: 300 mVp-p (burst level) i.LINK, 6-pin IE BNC, 1.0 Vp-p, sync negative C: 300 mVp-p (burst level) i.LINK, 6-pin IE BNC, 1.0 Vp-p, sync negative C: 300 mVp-p (burst level) i.LINK, 6-pin IE BNC, 1.0 Vp-p, sync negative C: 300 mVp-p (burst level) i.LINK, 6-pin IE BNC, 1.0 Vp-p, sync negative C: 300 mVp-p (burst level)	Hz +0.5/-1.0 dB an 80 dB an	R-Y/B-Y: 525 mVp-p Y: 1.0 Vp-p, sync negative	
Dynamic range Distortion (THD) INPUT/OUTOUT Signal inputs Signal outputs	GENLOCK VIDEO IN TO IN EXT AUDIO CH-1/2 MIC IN ANALOS VIDEO IN VIDEO OUT VBS Y/R-Y/B-Y PV OUT MONITOR OUT TO OUT AUDIO CH-1/2 S-VIDEO DC IN DC OUT BATTERY TERMINAL EARPHONE LIGHT OUT WRR OUT	R-Y/B-Y: 700 mVp-p Y: 1.0 Vp-p, sync negative	20 Hz to 14.5 K More this Less than 0.08% (1 kHz BNC, 1.0 \ BNC, 0.5 Vp-p to XLR 3-pin x 2 Female, -60 XLR 3-pin x 2 Female, -60 BNC, 1.0 Vp-p, 75 Ω (When the or BNC, 1.0 Vp-p, sync neg 1.0 Vp-p, sync negative R-Y/B-Y: 525 mVp-p Y: 1.0 Vp-p, sync negative C: 300 mVp-p (burst level) ILINK, 6-pin IE BNC, 1.0 Vp-p, sync BNC, 1.0 \ RCA pin, -11 DIN 4-pin, 1. XLR 4-pin, 1. XLR 4-pin, 1. 5- Minit 2-pin II 2-pin II 7-	Hz +0.5/-1.0 dB an 80 dB are of dB	R-Y/B-Y: 525 mVp-p Y: 1.0 Vp-p, sync negative	
Dynamic range Distortion (THD) INPUT/OUTOUT Signal inputs Signal outputs	GENLOCK VIDEO IN TC IN EXT AUDIO CH-1/2 MIC IN ANALOS VIDEO IN VIDEO OUT VBS Y/R-Y/B-Y Y/C DV OUT MONITOR OUT TOUT AUDIO CH-1/2 S-VIDEO DC IN DC OUT BATTERY TERMINAL EARPHONE LIGHT OUT WRR OUT LENS	R-Y/B-Y: 700 mVp-p Y: 1.0 Vp-p, sync negative	20 Hz to 14.5 K More the Less than 0.08% (1 kHz BNC, 1.0' BNC, 0.5 Vp-p to XLR 3-pin x 2 Female, -60 XLR 3-pin x 2 Female, -60 BNC, 1.0 Vp-p, 57 Ω (When the or BNC, 1.0 Vp-p, sync negative R-Y/B-Y: 525 mVp-p Y: 1.0 Vp-p, sync negative C: 300 mVp-p (burst level) LINK, -pin IE BNC, 1.0 Vp-p, s BNC, 1.0' RCA pin, -1 DIN 4-pin, 1. XLR 4-pin, 1. XLR 4-pin, 1. 3-pin II 2-pin II 3-pin II 3	Hz +0.5/-1.0 dB an 80 dB reference level, 48 kHz) VP-p-, 75 Ω b 18 Vp-p, 10 k Ω dBu, 3 k Ω -/+4 dBu, 10 k Ω x 1 Female pition board DSBK-501 is installed.) gative, 75 Ω , 26-pin Male remarks a simple pition board DSBK-501 is installed.) gative, 75 Ω , 26-pin Male remarks a simple remar	R-Y/B-Y: 525 mVp-p Y: 1.0 Vp-p, sync negative	
Dynamic range Distortion (THD) INPUT/OUTOUT Signal inputs Signal outputs	GENLOCK VIDEO IN TO IN EXT AUDIO CH-1/2 MIC IN ANALOG VIDEO IN VIDEO OUT VBS Y/R-Y/B-Y Y/C DV OUT MONITOR OUT TC OUT AUDIO CH-1/2 S-VIDEO DC IN DC OUT BATTERY TERMINAL EARPHONE LIGHT OUT WRR OUT LENS VF	R-Y/B-Y: 700 mVp-p Y: 1.0 Vp-p, sync negative	20 Hz to 14.5 K More this Less than 0.08% (1 kHz BNC, 1.0' BNC, 0.5 Vp-p to XLR 3-pin x 2 Female, -60 XLR 3-pin x 2 Female, -60 XLR 3-pin x 2 Female, -80 BNC, 1.0 Vp-p, sync negative 1.0 Vp-p, sync negative R-Y/B-Y. 525 m/Vp-p Y: 1.0 Vp-p, sync negative C: 300 m/Vp-p (burst level) i.LINK, 6-pin IE BNC, 1.0 Vp-p, sync negative C: 300 m/Vp-p (burst level) i.LINK, 6-pin IE BNC, 1.0 Vp-p, sync negative C: 300 m/Vp-p (burst level) i.LINK, 6-pin IE BNC, 1.0 Vp-p, sync negative C: 300 m/Vp-p (burst level) i.LINK, 6-pin IE BNC, 1.0 Vp-p, sync negative C: 300 m/Vp-p (burst level) i.LINK, 6-pin IE BNC, 1.0 Vp-p, sync negative C: 300 m/Vp-p (burst level) i.LINK, 6-pin IE BNC, 1.0 Vp-p, sync negative C: 300 m/Vp-p (burst level) i.LINK, 6-pin IE BNC, 1.0 Vp-p, sync negative C: 300 m/Vp-p (burst level) i.LINK, 6-pin IE BNC, 1.0 Vp-p, sync negative C: 300 m/Vp-p (burst level) i.LINK, 6-pin IE BNC, 1.0 Vp-p, sync negative C: 300 m/Vp-p (burst level) i.LINK, 6-pin IE BNC, 1.0 Vp-p, sync negative C: 300 m/Vp-p (burst level) i.LINK, 6-pin IE BNC, 1.0 Vp-p, sync negative C: 300 m/Vp-p (burst level)	Hz +0.5/-1.0 dB an 80 dB role of Ban 80 dB rol	R-Y/B-Y: 525 mVp-p Y: 1.0 Vp-p, sync negative	
Dynamic range Distortion (THD) INPUT/OUTOUT Signal inputs Signal outputs	GENLOCK VIDEO IN TC IN EXT AUDIO CH-1/2 MIC IN ANALOS VIDEO IN VIDEO OUT VBS Y/R-Y/B-Y Y/C DV OUT MONITOR OUT TOUT AUDIO CH-1/2 S-VIDEO DC IN DC OUT BATTERY TERMINAL EARPHONE LIGHT OUT WRR OUT LENS	R-Y/B-Y: 700 mVp-p Y: 1.0 Vp-p, sync negative	20 Hz to 14.5 K More this Less than 0.08% (1 kHz BNC, 1.0 \ BNC, 0.5 Vp-p to XLR 3-pin x 2 Female, -60 XLR 3-pin x 2 Female, -60 XLR 3-pin x 2 Female, -60 BNC, 1.0 Vp-p, 75 Ω (When the or	Hz +0.5/-1.0 dB an 80 dB reference level, 48 kHz) VP-p-, 75 Ω b 18 Vp-p, 10 k Ω dBu, 3 k Ω -/+4 dBu, 10 k Ω x 1 Female pition board DSBK-501 is installed.) gative, 75 Ω , 26-pin Male remarks a simple pition board DSBK-501 is installed.) gative, 75 Ω , 26-pin Male remarks a simple remar	R-Y/B-Y: 525 mVp-p Y: 1.0 Vp-p, sync negative	

^{*} DPR is equivalent to +6 dB gain up. ** The above VIDEO/AUDIO PERFORMANCE specifications were measured by playing back material recorded by each camcorder on a DSR-1800/1800P (via analog component out for video). 0 dBu = 0.775 Vrms

Zoom ratio	19:1
Focal length	6.7mm to 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: 772 x 579mm, Tele: 42 x 32mm
Mount type	Sony 1/2-inch type bayonet mount
Weight	1.45kg (including lens hood)
Dimensions (W x H x D)	139.8 x 99.5 x 218.9mm (including objections
VCL-716BX (for DSR-390K2 page	ck)
Zoom ratio	16:1
Focal length	7.3mm to 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: 823 x 617mm, Tele: 51 x 39mm
Mount type	Sony 1/2-inch type bayonet mount
Weight	1.2kg (including lens hood)
Dimensions (W x H x D)	123 x 102 x 205mm (including objections)





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All non-metric weights and measures are approximate.

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