## **2008 Camcorders**

### **Panasonic Consumer Electronics Company**

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Design and specifications subject to change without notice.

•Weight and dimensions shown are approximate. •Design, functions, and specifications are subject to change without notice. •All monitor and TV pictures are simulated. •Some accessories are not available in some countries. •IGB=1 billion bytes. Usable capacity will be less. •You are not allowed to reproduce (copy), or transfer to a network, any part of the software applications supplied with this product for commercial purposes without written authorization. •Panasonic will in no way be liable for any damages sustained directly or indirectly from the use of this product or from any trouble occurring therein. •Panasonic will also in no way be liable for any losses of data caused by this product. •The SDHC logo is a trademark. •The SD logo is a trademark. • Microsoft®, Windows® and DirectX® are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.•Leica is a registered trademark of Leica Microsystems IR GmbH. •Dicomar is a registered trademark of Leica Camera AG. •Microsoft product screen shot(s) reprinted with permission from Microsoft Corporation. •Other names of systems and products mentioned in this brochure are generally the registered trademarks or trademarks of the manufacturers who developed the system or product concerned. •Microsoft®, Windows®, and NetMeeting® are registered trademarks of Microsoft Corporation of the U.S.A. •All other company and product names are trademarks of their respective corporations.



http://panasonic.co.jp/pavc/global/videocamera/



# **Panasonic ideas for life**

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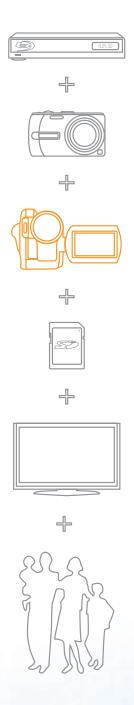


At Panasonic, we're committed to better understanding the way people live, work and play. We never stop trying to increase our knowledge of the ways in which technology can improve people's lives. The insights we gain from these efforts make it possible to continually transform ideas into products that make our customer's lives simpler, more enjoyable, more productive and more secure.

Ideas like our 3CCD camcorders, which handle color the same way as our professional broadcast cameras, for rich vivid images. And our new HD camcorders, which capture precious moments in the stunning brilliance of High Definition video, with the remarkable convenience of recording on an attached hard drive or a SD memory card. At Panasonic you'll find smart ideas for every room, every need, everyday, and everyone.



# **Panasonic** ideas for life





# Capture All the Beauty in Every Scene. The Panasonic

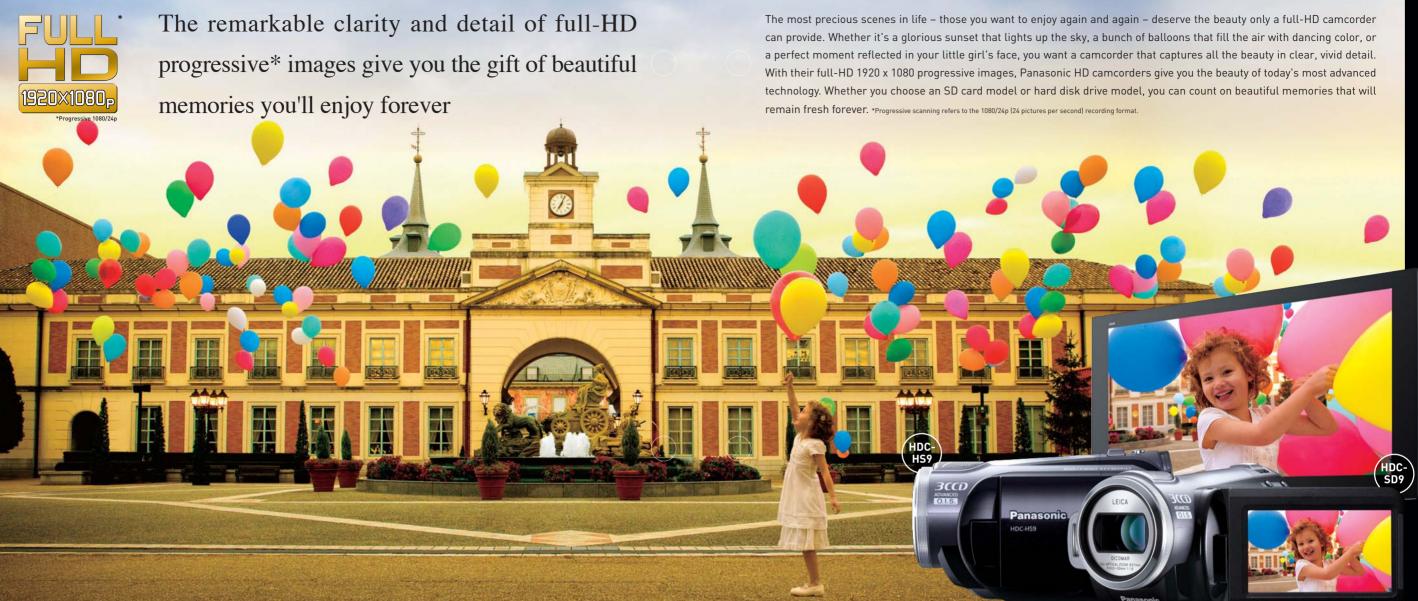


# Camcorder Line-up.



\*1 Optional \*2 Usable capacity will be less. \*3 IEC60529 IPX8 \*4 MIL-STD-810F METHOD 516.5 SHOCK \*5 IEC60529 IP5X \*6 Waterproof and dustproof characteristics have been evaluated by TUV Rheinland. \*7 IEC60529/EN60529 IPX4 Splash proof

		STANDARD DEFINITION
Shooting	Fun	MPEG2
ou keep on nage stab	shooting with up to 54 ho ilization	urs* of recording time,
Touch DVD Copying	2.7" Wide LCD 2.1 sec Quick Sta	
tended sh age stabil	ooting fun with up to 36 ho ization	ours* of recording time,
Touch DVD Copying	2.7" Wide LCD 2.1 sec Quick Sta	
		* In LP mode
		STANDARD DEFINITION
ew, Easy	/ to Enjoy	MPEG2
Wide LCD	and image stabilization	
		STANDARD DEFINITION
Videos Y	ou've Already Made	
es beautif	ul 3CCD images	
e 2.7" Wid	de LCD 1.7 sec Quick Start	
om power	and image stabilization	
Video Light	2.7" Wide LCD	



## High Definition – A Future of Beautiful Memories

### High Definition vs. Standard Definition: What's the Difference?

HD images contain 6 times as much information as standard images. HDTV has 1,080 horizontal scan lines, SDTV has 480. That translates into much higher resolution and much finer detail. With HD images on an HDTV, pictures are so clear and sharp that you can see textures. The shift in the industry from SDTV to HDTV is well under way. For shooting once-in-a-lifetime scenes that you want to capture in full beauty and enjoy forever, an HD camcorder is the best choice.



**High Definition** 

Each strand of hair and individual eyelash is captured in clear, distinct detail.

 AVCHD is a new standard for recording HD signals onto memory cards, DVD discs, and hard disks. It uses the H.264 standard to achieve more than twice the compression of conventional MPEG2 and MPEG4 standards.
 AVCHD motion images recorded onto an SD Memory Card or a DVD disc cannot be played from a device that does not support the AVCHD standard.
 Do not insert a disc containing AVCHD-recorded images into a device that does not support the AVCHD standard. The disc cannot be played on such a device, and it may not be possible to remove the disc once inserted

In HG (high image quality) mode, 1920 x 1080 full-HD recording with a Panasonic home-use camcorder refers to recording with 1 920 pixels in the horizontal direction and 1 080 pixels in the vertical direction

## Simply Breathtaking: Full-HD 1920 x 1080 Progressive\* Images

#### Why Is the Image Quality So Much Better?

Panasonic full-HD camcorders record horizontal pixels at an HD resolution of up to 1,920 pixels, which results in a total of around 2,070,000 pixels. Panasonic full-HD camcorders use progressive scanning, which provides twice as much data per picture as conventional interlace scanning. This means you get images with exceptional resolution and detail. The 1080/24p format used by Panasonic full-HD camcorders lets you capture scenes with a rich, film-like quality. Add it up and you can see why Panasonic full-HD camcorders, with their full-HD 1920 x 1080 progressive\* recording, take visual expression a leap ahead. <See page 10 for details.>

**Progressive Scanning** Reproduces all of the image data in a single picture Patterns in fabric are crisp and clear with no color h

Interlace Scanning

-	100		e	1
			0	
			6	
	X	1	0	
•		11)16	- 10	
L.D	HEAD ST	10.2		

Only half of the image data is reproduced in each picture. Fabric patterns run together, and flickering appears.

ers to the 1080/24p (24 pictures per second) re-

\*For 3CCD camcorders complying with AVCHD standards, as of January 6, 2008.

## Pick up the world's smallest and lightest<sup>\*</sup> 3CCD full-HD camcorder and enjoy a world of beauty

SD Card Full-HD Camcorder The 60GB hard disk holds a full 23 hours<sup>\*</sup> of memories When it comes to beauty, the 3CCD camera system makes a world of difference \*In HE mode.

Panasonic

HDD + SD Card Hybrid

Capture clear, beautiful faces

Capture voices

PRE-REC

0.6 sec

Quick Start

over a wide area

Record even before

you begin shootin

No more missed

shooting

opportunities



\*1 Optional \*2 Usable capacity will be less. \*3 This is an approximate figure when using the separately purchased 16GB SDHC Memory Card and shooting in HE mode. \*4 When using the separately purchased VW-VGB6 battery pack and VW-VH04 battery pack holder kit.

Optical Zoom

**10**x

## **HIGH DEFINITION**





## Record for Up to 29 Hours!



23 hours of recording on the 60GB HDD in HF mode





of recording on the 16GB SDHC Memory Card in HE mode

## Film-like beauty: Captures more data to deliver richer images

## Digital Cinema Mode



## **1920 x 1080 progressive 1080/24p**

Set the SD9 or HS9 to Digital Cinema mode and shoot in the 1920 x 1080 progressive 1080/24p format (24 pictures per second). Progressive scanning captures

clear, vibrant images with intricate detail. You also get faithful images with an appealing film-like quality.



### **Digital Cinema Color\***

This mode automatically switches the camcorder to the Digital Cinema Color range, which approaches the digital cinema color range used in Hollywood digital movie production. Colors recorded in this mode look more vivid than those recorded using the conventional Panasonic standard. For example, the subtle reds and shades of gold of flowers, and the greens of leafy trees are remarkably true to life.

\*When using a TV that is compatible with x.v.Color, images that are recorded in Digital Cinema Color mode will have a wider color range than conventional images. \*The color range varies depending on the TV.

## Superb color reproduction – faithful, natural colors with delicate nuances

## 3CCD Camera System

COD うててり

Most professional broadcasting cameras use the 3CCD camera system, with its superior color reproduction. In a 1CCD system, all of the incoming light information is processed by the same CCD. The more

advanced 3CCD system uses three distinct CCDs for processing, so there is absolutely no light loss. The 3CCD camera system draws out the full potential of full-HD image quality.







SD9 HS9

0.1 0.2 0.3 0.4 0.5 0.6 **u** 

SD9 HS9 SX5

—— Digital cinema color range

HDTV standard

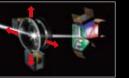
#### Precise hand-shake compensation: Helps prevent blurry images caused by unsteady hands as you shoot SD9 HS9 SX5 Advanced 0.I.S. (Optical Image Stabilization)



Panasonic's Advanced O.I.S. suppresses the effects of hand shake as you shoot. The system uses gyrosensors to detect hand shake, then shifts a lens and adjusts the optical axis to compensate. This all happens a remarkable 4,000 times per second. And because the system is optical, no image guality is lost. Thanks to Advanced O.I.S., the

images you capture look incredibly clear, sharp and beautiful on a big TV screen.

0.I.S. Lens



The lens moves up/down or left/right and bends the incoming light to correct handshake







SD9 HS9 SX5

## A superb optical system that captures even delicate, subtle nuances Leica Dicomar Lens



The HD camcorders boast a Leica Dicomar lens. Developed specifically for full-HD digital camcorders, this lens system is made using a multi-coating process that prevents light reflection and glare, which

can make colors bleed and images appear washed out. It also prevents rings of light, or "ghosts." \*Leica is a registered trademark of Leica Microsystem IR GmbH, and Dicomar is a registered trademark of Leica Camera AG.







World's first face detection function for recording moving pictures with a video camera Faces are beautiful - Even in backlit or dark places

## Face Detection



🖕 ((llla)) 🖪 📫

monitor and the exposure is adjusted to correct the brightness

once. With Face Detection - offered for the first time for recording moving pictures with a video camera - Panasonic makes it easy to capture beautiful faces and clear backgrounds even in dim or backlit scenes.



## Magnificent shots every time - when shooting, when viewing Intelligent Shooting Guide / Selection Playback

## When Shooting Intelligent Shooting Guide

DTING GUID This convenient function helps you choose the best shooting settings. It displays a text message in the LCD monitor, telling you which settings are best for the current conditions.

	÷		
	Fast Pan/Tilt: CAMERA PANNING IS TOO FAST	((\ <sup>111</sup> 1))	Hand Swing: USE 0.I.S.
1	Backlighting: USE INTELLIGENT CONTRAST	1	Cancel Backlighting: CANCEL INTELLIGENT CONTRAST
4	Low Light: USE LOW LIGHT MODE	4	Cancel Low Light: CANCEL LOW LIGHT MODE
15		10+11+ <b>1</b>	- 11

It is so dark, the subject A message is displayed telling looks dull and unattractive. you to use Low Light mode.

When set to Low Light mode, the shot is beautifu

### mages are recorded ven before you begin shooting Pre-Rec Function

SD9 HS9 SX5

This clever function records three seconds of PRE- REC. images even before you actually begin shooting. The images are held temporarily in the camcorder's internal memory, before recording onto the SDHC/SD Memory Card or hard disk begins. This helps ensure that you won't miss the start of a moment you want to record,



\*The camera must be aimed at the subject in advance

- SD9 HS9

- SD9 HS9

It's difficult to shoot scenes with deep shadows or large differences between light and dark areas. The subject often looks too dark, and faces can be hard to see. Panasonic solves this problem with Face Detection, a function that automatically adjusts the exposure according to the ambient brightness, so faces are bright and easy to see. When the camcorder detects a face in the scene, a square frame appears around it in the LCD



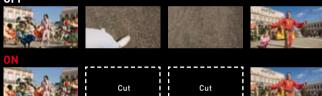




## In Playback Intelligent Shooting Selection Playback

Poor or inadvertent shots (such as shots of the ground or overly dark scenes) are skipped, and all normal scenes are played.





Examples of detectable shooting mistakes:

- •Dark scenes •Fast panning/tilting •Hand swinging •Low light
- •Ground shooting •Poorly focused shots



With the SD9 and HS9, setting the time is as easy as selecting a city from

the displayed map. The World Timer function lets you set the time for two cities, home and destination. You don't have to figure out the time difference at your destination, and it's easy when you get home.



- SD9 HS9

#### No more missed shooting opportunities! - SD9 HS9 0.6 sec Quick Start

In Quick Start mode\*, the SD9 and HS9 are ready to record 0.6 second after the LCD is opened. You're always ready to capture the moment, even when the unexpected occurs. \*This mode can be selected from the menu



#### Capturing voices over a wide area for a more lifelike sound

## 5.1-Channel Surround Sound System & Zoom Mic

#### 5 Microphones and 5.1-Channel Surround Sound

DIGITAL 5.1 CREATOR Panasonic HD camcorders are equipped with five electret condenser microphones. The center mic helps capture the sound source and distance accurately,

so you get a more 3-dimensional effect than you get with conventional systems, which capture all sounds from the front. You get a realistic sound space that's a perfect match with the true-to-life HD images. \*Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are registered trademarks of Dolby Laboratories.

#### Wide Mode







In Zoom mode the microphones are linked to the lens action. When you zoom

In this mode the microphones focus on sounds coming from right in front

in on a subject, the microphones focus on the sound in that same direction.

Zoom Mode

Focus Mode

of you, even when the lens is not zooming.

## Capture those spur-of-the-moment scenes 24 Frames/Second High-Speed Burst Shooting

Both the SD9 and HS9 feature high-speed burst shooting at a fast 24 frames per second. In three seconds, you can shoot up to 72 still shots. High-speed burst shooting is especially useful for shooting fast-moving objects or capturing spontaneous moments, such as in sports events and car races. Or use it to analyze your golf swing or tennis stroke.

## REC ALL SELECT DEL AL



SD9 HS9

SD9 HS9

### SD9 HS9 SX5



Without Intelligent Contrast Control

The man facing the sun is fine, but the woman under the parasol is in a shadow you can't see anything there.

High-speed processing: An imaging engine that handles the vast amount of data in full-HD images SD9 HS9 SX5 HD Advanced

# Pure Color Engine

Panasonic took the advanced imaging circuitry

used in our professional equipment and adapted it for home use. The result is the HD Advanced Pure Color Engine - a high-speed processing unit that not only handles huge volumes of data, but also suppresses noise to deliver exceptionally smooth images.



HD Advanced Pure Color Fno

## Record Beautiful Full-HD Video onto an SD Memory Card and DVD Disc





## Select high-definition or standard-definition recording Selectable Recording Formats

When recording onto a DVD disc, the SX5 lets you record in either full-HD or standard definition. The mode dial makes it easy to choose the recording format that matches your playback equipment. When playing back with a DVD player or recorder, select standard definition. When viewing on an HDTV or using a Blu-ray Disc player, choose full-HD.



### Easy editing gives you more ways to enjoy video HD Writer 2.0E

The SX5 also comes with software that makes it easy to edit your recordings using a PC. You can then copy the edited video to a DVD disc in either the AVCHD or the MPEG2 format. Choose the one that best suits your playback equipment or how you intend to use your recordings. This easy-to-use software gives you more creative ways to enjoy the recordings you make.

#### System Requirements (SX5)

	HD Writer 2.0E	Card Reader Function (Mass Storage)
Interface	USB port (Hi-Speed USB (USB 2.0))	USB port
OS	Windows® 2000 SP4 Windows® XP SP2 Windows Vista® Home Basic/Home Premium/Ultimate	Windows® 2000 SP4 Windows® XP SP2 Windows Vista®
CPU	Intel® Pentium® Ⅲ 1.0 GHz or higher «When using playback function and MPEG2 conversion function» Intel® Core™2 Duo 1.86 GHz or higher, Intel® Pentium®D 3.0 GHz or higher recommended.	Windows® 2000 / Windows® XP: Intel® Pentium® III 450 MH Hz or higher or Intel® Celeron® 400 MHz or higher Windows Vista® : 32-bit (x86) processor, 1 GHz or higher

Image Quality

1920 x 1

pixels (16 2.1 Meg

#### Motion-Image Recording Times (Approx.) (SX5)

······································								
ode		DVD-RAM (dual-sided)	DVD-RW (dual-sided)		-R DL -layer)	DVD-R (single-sided)		
	HG /	13 Mbps	28 min	28 min	26	min	14 min	
igh- efinition	HN/	9 Mbps	42 min	42 min	40	min	21 min	
emittion	HE/d	6 Mbps	62 min	62 min	60	min	31 min	
	XP / 1	10 Mbps	36 min	36 min	35	min	18 min	
andard- efinition	SP/5	5 Mbps	74 min	74 min	69 min		37 min	
ennition	LP/2	2.5 Mbps	150 min	150 min	138 min		74 min	
				SDHC Memory	Card			
ode / Bit r	ate	1	16GB*	8GB*			4GB*	
G / 13 Mbp	s	2 H	40 min	1 h 20 min			40 min	
N/9 Mbps	s		4 h	2 h			1 h	
E / 6 Mbps	5		6 h	3 h		1	h 30 min	

\*Usable capacity will be less. These figures vary depending on the pictures being recorded.

#### Battery Life (Approx.) (SX5)

		Continuous Recording Time					Actual Recording Time						
		HG n	node	HN n	node	HEn	HE mode		node	HN r	node	HE mode	
Battery		EVF	LCD	EVF	LCD	EVF	LCD	EVF	LCD	EVF	LCD	EVF	LCD
	HD: DVD-RAM disc	1 h	55 min	1 h 5 min	1 h 5 min	1 h 10 min	1 h 5 min	25 min	25 min	25 min	25 min	30 min	25 min
VW-VBG130	HD: SD card	1 h 30 min	1 h 20 min	1 h 30 min	1 h 25 min	1 h 30 min	1 h 25 min	55 min	50 min	55 min	50 min	55 min	50 min
	STD: DVD-RAM disc	1 h 5 min	1 h	1 h 10 min	1 h 5 min	1 h 15 min	1 h 10 min	25 min	25 min	30 min	25 min	30 min	30 min
	HD: DVD-RAM disc	1 h 55 min	1 h 50 min	2 h 5 min	2 h	2 h 10 min	2 h 5 min	50 min	50 min	50 min	50 min	55 min	50 min
VW-VBG260	HD: SD card	2 h 45 min	2 h 35 min	2 h 50 min	2 h 40 min	2 h 50 min	2 h 40 min	1 h 40 min	1 h 35 min	1 h 45 min	1 h 35 min	1 h 45 min	1 h 35 min
	STD: DVD-RAM disc	2 h	1 h 55 min	2 h 10 min	2 h 5 min	2 h 20 min	2 h 10 min	50 min	50 min	55 min	50 min	55 min	55 min
	HD: DVD-RAM disc	5 h	4 h 35 min	5 h 15 min	5 h	5 h 35 min	5 h 15 min	2 h 10 min	2 h	2 h 10 min	2 h 5 min	2 h 20 min	2 h 10 min
VW-VBG6	HD: SD card	6 h 50 min	6 h 25 min	7 h 5 min	6 h 40 min	7 h 5 min	6 h 40 min	4 h 15 min	4 h	4 h 25 min	4 h 5 min	4 h 25 min	4 h 5 min
	STD: DVD-RAM disc	5 h	4 h 50 min	5 h 30 min	5 h 15 min	5 h 45 min	5 h 35 min	2 h 15 min	2 h 10 min	2 h 15 min	2 h 10 min	2 h 25 min	2 h 20 min

• EVF: Viewfinder, LCD: LCD monitor

Prevents wash-out to provide more natural contrast **Intelligent Contrast Control** By detecting the intensity of the ambient

R

accordingly, Intelligent Contrast Control prevents blown highlights and blocked shadows. This helps render natural-looking, highly

nuanced images with proper contrast. Even when you're shooting directly toward the light source - a very challenging situation in photography – Intelligent Contrast Control lets you capture clear images with enhanced depth

#### The LCD is easy to see from any angle - SD9 HS9 SX5 Wide Viewing Angle

With 300,000 dots and exceptional detail, the new LCD is among the best in the industry. The viewing angle is 170° both vertically and horizontally,

so everyone can gather around and easily see the images you just shot. The 🛛 🔿 wide viewing angle is also a big help when you're taking high-angle or lowangle shots.





\*1 Effective in card recording mode. \*2 Recording on a DVD-R-DL disc (60 min) in HE mode. \*3 This is a approximate figure when using the separately purchased 16-GB SDHC Memory Card and shooting in HD mode. \*4 When using the separately purchased VW-VBG6 battery pack and VW-VH04 battery pack holder kit.

## Copying from an SD Memory Card to an 8-cm DVD disc - without a PC Disc Copy Function

Using just the SX5 itself, you can copy video clips from an SD Memory Card to a DVD disc. Pressing a single button is all it takes. You don't need to use a PC or any other equipment.



Quick & Easv!

The software guides you through the simple steps. You'll find editing easy to do, even if it's your first time.



nts mentioned in these operating instructions are fulfilled, some persona Even if the system requirent •Even if the system requirements mentioned in these operating instructions are fulfilled, some personal computers cannot be used. •This software is not compatible with Microsoft Windows 3.1, Windows 95, Windows 98, Windows Me and Windows NI. •The supplied CD-ROM is available for Windows only. •Operation on an upgraded OS is not guaranteed. •When 2 or more USB devices are connected to a PC, or when devices are connected through USB hubs or by using extension cables, proper operation is not guaranteed. •Operation on an OS other than the one pre-installed is not guaranteed. •This software does not support the multi-boot environments. •Operation is not guaranteed on Microsoft Windows XIsta® Business/Enterprise, Windows XP Media Center Edition, Tablet PC Edition and not compatible with 64-bit lowards. operating systems. • Available with administrator account in Windows 2000 and Windows XP • Available with rator account or standard account in WindowsVista® (Installation and uninstallation of the software auministration account of account. I affict a standard account, a standard and a standard and a standard account. I affict a standard account and a standard account a standard account and a standard account and a standard account and a standard account and a standard account account a standard account account account account account a standard account a the other countries. •Other names of systems and products mentioned in these instructions are generally the ered trademarks or trademarks of the manufacturers who developed the system or prod

#### Number of Recordable Still Pictures (Approx.) (SX5)

С	apacity	SDF	IC Memory 0	Card
	<u> </u>	16GB*	8GB*	4GB*
080		13470	6690	3290
5:9] ja	.:.	21170	10520	5160

High Picture Quality Normal Picture Quality

• These figures vary depending on the subject being photographed.

\*Usable capacity will be less.

•We recommend using a DVD disc made by Panasonic for m age recording •We rea SD Memory Cards and SDHC Memory cards conforming to class 2 or higher of the SD Speed Class Rating of the following SD Memory Cards made by Panasonic for motion-image recording. •Please confirm the lat information about DVD discs and SD/SDHC Memory Cards that can be used for motion-image recording, on the ving website. http://panasonic.co.jp/pavc/global/cs/e\_cam (This website is in English only.)

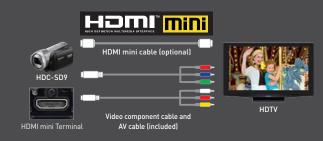


## View Images in Beautiful Full-HD, and Archive Your Recordings Easily

#### Viewing SD9/HS9/SX5\*1

## - For Breathtaking HD

Just connect your video camera to an HDTV and you're ready for high-definition viewing. If your TV is HDMI\*<sup>2</sup> compatible, a single HDMI mini cable is all you need. When using a video component cable, you need a separate audio cable. \*1 SX5 has an HDMI terminal, so you need an HDMI cable. \*2 HDMI, the HDMI logo and High-Definition Multimedia Interface are



VIEFA (PZ850 series)

HDTV

#### Viewing SD9/HS9

#### View Recordings by Simply Inserting the SD Card into an SD Card Slot

Simply take the SDHC/SD Memory Card from your HD camcorder and slip it into the card slot on your Panasonic VIErA PZ850 series or Blu-ray Disc Player BD30, and you're ready to view full-HD images recorded in the AVCHD format. \*With other SD card slot-equipped VIEFA models vou can view JPEG format still images



#### Viewing SX5

Simply slip the DVD disc into the Blu-ray Disc player. There are no cables to connect. It's that easy. \*The disc must be finalized prior to playback.



Connect your SD9, HS9 or SX5 to a VIErA TV or compatible Blu-ray Disc player via an HDMI cable, and you can control both units in synchronized operation with a single remote control. This kind of simple, easy operation makes it even more fun to view your recordings. \*With VIEFA Link, a control signal sent through the HDMI cable allows linked operation of a VIEFA TV, compatible DIGA recorder, and the SD9, HS9 or SX5. Please note that this function applies only to equipment that is compatible with VIEFA Link, and that VIEFA Link does not let you control every function of all connected equipmen

HDC-SX5

#### Motion-Image Recording Times (Approx.) (SD9/HS9)

	HDD*1	SE	HC Memory Ca	rd
Mode (rec. pixels) / Bit rate	60GB	16GB*2	8GB*2	4GB*2
HA (1920 x 1080) / 17 Mbps	7 h 40 min	2 h	1 h	30 min
HG (1920 x 1080) / 13 Mbps	10 h 10 min	2 h 40 min	1 h 20 min	40 min
HX (1920 x 1080) / 9 Mbps	15 h 20 min	4 h	2 h	1 h
HE (1440 x 1080) / 6 Mbps	23 h	6 h	3 h	1 h 30 min

\*1 HDD (60GB) : HS9 only \*2 Usable capacity will be less. •These figures vary depending on the pictures being reco es being recorded

## Number of Recordable Still Pictures (Approx.) (SD9/HS9)

(16:9) 2.1 Mega	÷	87170	21170	10520	5160				
1920 x 1080 pixels		55470	13470	6690	3290				
Image Quality	$\sim$	60GB*	16GB*	8GB*	4GB*				
	pacity	HUU	5	JHC Memory Ca	ra				

Blu-ray Disc player

These figures vary depending on the subject being photographed, \*Usable capacity will be less.

\*We recommend using SD Memory Cards and SDHC Memory cards conforming to class 2 or higher of the SD Speed Class Rating or the following SD Memory Cards made by Panasonic for motion-image recording. \*Please confirm the latest information about SD/SDHC Memory Cards that can be used for motion-image recording, on the following website. http://panasonic.co.jp/pavc/global/cs/e\_cam (This website is in English only.

### Archiving and Viewing SD9/HS9

#### Use a DVD Burner to Create and Play Back a DVD





### Editing and Archiving

### Archive Recordings by Selecting the Format with a PC and Burning Them onto a DVD

The software included with the HD camcorder lets you burn full-HD recordings from an SD Memory Card onto a DVD disc, using your PC. You can make a copy either in the original high-definition AVCHD format, or in the standard-definition DVD-Video format. Choose the one that matches your playback equipment.



## Easy Editing Gives You More Ways to Enjoy Video HD Writer 2.5E SD9/HS9

The SD9 and HS9 also come with software that makes it easy to edit your recordings using a PC. When editing, mistaken photos such as shots of the ground or shots with hand-shake can be automatically cut\* to speed up the process. After editing, you can copy the results to a DVD disc in either the AVCHD or the MPEG2 format. Choose the one that best suits your playback equipment or how you intend to use your recordings. This easy-to-use software gives you more creative ways to enjoy the recordings you make. \* HD Writer2.5E is able to read the shooting information detected by the Intelligent Shooting Guide/Selection Playback function.

HDC-SD9

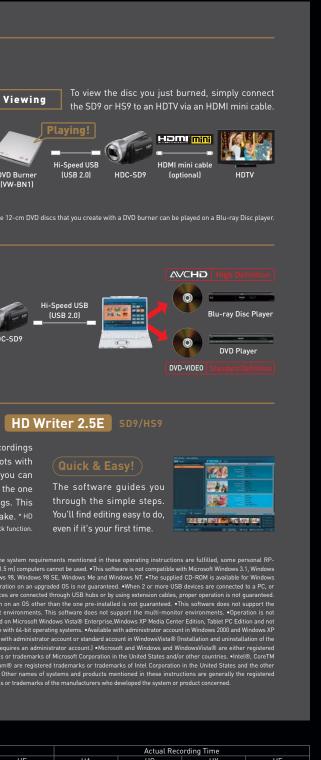
System Re	quirements (507, 1157)		
	HD Writer 2.5E	Card Reader Function (Mass Storage)	•Even if the CDHM15 (1.5
Interface	USB port (Hi-Speed USB (USB 2.0))	USB port	95. Windows
	Windows® 2000 SP4 Windows® XP SP2 Windows Vista® Home Basic/Home Premium/Ultimate/Business	Windows® 2000 SP4 Windows® XP SP2 Windows Vista®	only. •Operat when devices •Operation o multi-boot e
СРИ	Intel® Pentium® III 1.0 GHz or higher <pre><when and<br="" function="" playback="" using="">MPEG2 conversion function&gt; Intel® Core<sup>™</sup>2 Duo 2.16 GHz or higher Intel® Pentium®D 3.2 GHz or higher recommended AMD Athlon<sup>™</sup> 64 X2 Dual-Core 5200+ or higher</when></pre>	Windows® 2000 / Windows® XP: Intel® Pentium® III 450 MH Hz or higher or Intel® Celeron® 400 MHz or higher Windows Vista® : 32-bit (x86) processor, 1 GHz or higher	guaranteed o compatible w •Available wit software requ trademarks o and Pentium
Mac OS X 10.4		0	countries. Ot trademarks c

#### Battery Life (Approx.) (SD9/HS9)

		Continuous Recording Time				Actual Recording Time			
		HA	HG	HX	HE	HA	HG	HX	HE
	SD9 (SD Card)	1 h 45 min	1 h 45 min	1 h 45 min	1 h 45 min	1 h 5 min	1 h 5 min	1 h 5 min	1 h 5 min
VW-VBG 130	HS9 (HDD)	1 h 35 min	1 h 35 min	1 h 35 min	1 h 35 min	1 h	1 h	1 h	1 h
	HS9 (SD Card)	1 h 45 min	1 h 45 min	1 h 45 min	1 h 45 min	1 h 5 min	1 h 5 min	1 h 5 min	1 h 5 min
	SD9 (SD Card)	3 h 20 min	3 h 20 min	3 h 20 min	3 h 20 min	2 h	2 h	2 h	2 h
VW-VBG 260	HS9 (HDD)	3 h	3 h	3 h	3 h	1 h 50 min	1 h 50 min	1 h 50 min	1 h 50 min
	HS9 (SD Card)	3 h 10 min	3 h 10 min	3 h 10 min	3 h 10 min	2 h	2 h	2 h	2 h
	SD9 (SD Card)	8 h 10 min	8 h 10 min	8 h 10 min	8 h 10 min	5 h 5 min	5 h 5 min	5 h 5 min	5 h 5 min
VW-VBG 6	HS9 (HDD)	7 h 30 min	7 h 30 min	7 h 30 min	7 h 35 min	4 h 35 min	4 h 35 min	4 h 35 min	4 h 40 min
	HS9 (SD Card)	8 h	8 h	8 h	8 h	4 h 55 min	4 h 55 min	4 h 55 min	4 h 55 min

14





## **SD** Camcorder

# **Get Ready for Video Action Even in Seawater** The Tough, Active SD Card Camcorder **SW20**



Bring the Fun of Shooting Video Everywhere You Go



•SD/SDHC Memory Card is not included.

## SDR-S7



	2.7 WIDE LCD		
Optical Zoom	Maximum Recording Time	Battery Life (Continuous Recording Time)	
<b>10</b> x	13 h 20 min*	<b>1</b> h 10 min	MPEG 2

•SD/SDHC Memory Card is not included. \* In LP mode





## Built tough so you can shoot in places never before possible SW20 Triple Proofing



#### Waterproof up to 5 feet\*

SILPER

Take the SW20 underwater as deep as 5 feet and get some great video shots in the pool or ocean. Swim along with tropical fish, capture shots of a beautiful coral reef, or get action footage of a friend snorkeling. Waterproofing also means you can shoot in the rain or snow with no worries. \*IEC60529 IPX8

## Shockproof up to 4 feet\*

The SW20 is designed to resist damage even if dropped from a height of up to 4 feet. We fortified the outer body casing, making it thicker to improve rigidity and strength. Inside, we provided an intermediate resin chassis to cushion and protect the main circuit board and lens. \*The S10P1 is also shockproof to 4 feet \*MIL-STD-810F METHOD 516.5 SHOCK

## Fun to carry around every day! Compact Size and Cool Styling

Small enough to slip in a pocket or bag. Cool enough to take everywhere you go. This is one stylish camcorder you'll never want to be without.

Dimensions (W x H x D) S7: 1.6 x 2.3 x 4.0 inches SW20: 1.33 x 2.50 x 4.54 inches

Weight S7: 0.36 lb SW20: 0.49 lb

## No more missed shooting opportunities! 0.6 sec Quick Start

The SD camcorder starts up to record quickly. In Quick Start mode\*, the SW20 and S7 begin recording in just 0.6 second from the time the LCD is opened. This lets you catch those sudden shooting opportunities. \*This mode can be selected from the menu

## Capture even complex motion with precision MPEG2 Engine

Panasonic's MPEG2 engine is a wide-range, high-precision engine that produces smooth, beautiful moving pictures. Because it precisely records the differences in each frame, it can render fast, complex motions with exceptional precision. The MPEG2 engine also uses the Variable Bit Rate

system that Panasonic adopted for the high-end DIGA DVD recorder. Giving LP (long play mode) recordings nearly twice the resolution captured with previous Panasonic MPEG2 recording video cameras, this lets the SD camcorder record clear, smoothly flowing pictures.



### STANDARD DEFINITION

Naterproof and dustproof characteristics have been evaluated by TUV F





A dustproof design keeps the SW20 safe even if handled with dirty hands or used in a place with swirling dust. The SW20 is protected against sand too, so you can take it to the beach or sports field with no worries. And it's waterproof, so if the body gets dirty you can simply wash it off with water. \*IEC60529 IP5X





SW20 S7 S10P1





Model with MPEG2 engin

#### Images are recorded even before you begin shooting Pre-Rec Function

This clever function records three seconds of PRE-REC. images even before you actually begin shooting. The images are held temporarily in the camcorder's internal memory, before recording onto the SDHC/SD Memory Card begins. This helps ensure that you won't miss the start of a moment you want to record, such as when an event begins all of a sudden.





\*The camera must be aimed at the subject in advance

#### Easy time setting - Both on the road and at home SW20 S7 World Timer

With the SW20 and S7, setting the time is as easy as selecting a city from the displayed map. The World Timer function lets you set the time for two cities, home and destination. You don't have to figure out the time difference at your destination, and it's easy when you get home.



The times for the two registered locations can be switched with the press of a buttor



You can freely adjust the angle of the LCD monitor for comfortable viewing

no matter how you're holding the camera. The Sub Rec button on the side makes it easy to shoot when you're holding the camera low. The buttons are laid out simply and logically for easy one-hand operation.

S7





High Angle

Low Anale

#### Easy archiving with a DVD burner SW20 S7 Easy Copying to a DVD Disc

The SD camcorder has a USB port (host function) that lets you connect directly to a DVD burner. Copying a recording from an SD card to a DVD disc is easy as selecting from the menu. **Burning!** 



#### For TVs or DVD players with an SD card slot SW20 S7 S10P1 View Recordings Easily -No Cable to Connect

Just take the SDHC/SD card from your SD camcorder and slip it into your Panasonic VIErA TV\* or DIGA DVD player\*, and you're ready to view the beautiful video you shot. There are no cables to worry about. \*MPEG2-compatible model with SDHC/SD Memory Card slot.







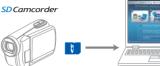


### Anyone can enjoy easy, versatile video editing! MotionSD STUDIO 1.3E/1.2E

#### **Transfer Data** 1

Transfer the motion images to your PC

#### Edit 2 Quick and easy













You can transfer the motion-image data from the SDHC/SD Memory Card right to your PC.

## also includes a wide variety of video effects.

	MotionSD STUDIO 1.3E	Card Reader Function (Mass Storage)			
Interface	USB port (Hi-Speed USB (USB 2.0) recommended)	USB port			
Windows® 2000	(SP4)	(SP4)			
Windows® XP	(SP2)	(SP1/SP2)			
Windows Vista®	(Home Premium / Home Basic)	0			
0.011	Intel® Pentium® III 800MHz or higher	Intel® Pentium® III 450MHz or higher			
CPU	(including compatible CPUs. Intel® Pentium® 4 1.6GHz or higher recommende				
Mac OS X 10.4	-	0			

 Microsoft®, Windows® and Windows Vista® are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. trademarks of Apple Inc. •Other names of systems and products mentioned in these instructions are generally the registered trademarks or trademarks of the manufacturers who developed the system or product concerned.

# SDR-S10P1

Optical Zoom

10 x



16GB SD 13 h 20 min<sup>\*1</sup>

\*SD/SDHC Memory Card is not included.

# **Ideal for Active Video Shooting S10P1**

## Get active in your video shooting Water Resistance

A water-resistant design lets you use this camera when it's rainy or snowy outside, or in places where you might get a little wet. The camera is even designed so you can hold and operate it when your hand is wet. This is a camera you can use in places like alongside a pool or outside a ski lodge - where you never dared take a video camera before.

### Motion-Image Recording Times (Approx.) (SW20/S7/S10P1)

**1**h **10**min

\*1 In LP mode

	90			, (0=0, 0	.,,					
Capacity	SI	OHC Memory Ca	SD Mem	ory Card						
Image Quality	16GB*	8GB*	4GB*	2GB*	1GB*					
XP (Super Fine)	3 h 20 min	1 h 40 min	50 min	25 min	12 min					
SP (Fine)	6 h 40 min	3 h 20 min	1 h 40 min	50 min	25 min					
LP (Normal)	13 h 20 min	6 h 40 min	3 h 20 min	1 h 40 min	50 min					
*Usable capacity wi	Usable capacity will be less. •These figures vary depending on the pictures being recorded.									

#### Battery Life (Approx.) (SW20/S7/S10P1)

	Continuous Recording Time	Actual Recording Time
VW-VBJ10	1 h 10 min	40 min
	cludes time for operations such as ff, and zooming. •The actual time is	

Image Quality

18

### STANDARD DEFINITION



#### System Requirements (S10P1)

	MotionSD STUDIO 1.2E	Card Reader Function (Mass Storage)
Interface	USB port (Hi-Speed USB (USB 2.0) recommended)	USB port
Windows® 2000	(SP4)	(SP4)
Windows® XP	(SP2)	○ [SP1/SP2]
Windows Vista®	O (Home Premium / Home Basic)	0
CPU	Intel® Pentium® III 800MHz or higher	Intel® Pentium® III 450MHz or higher
CPU	(including compatible CPUs. Intel® Per	ntium® 4 1.6GHz or higher recommended)
Mac OS X 10.3 to 10.4	-	0

 About MotionSD STUDIO 1.2E •This software is not compatible with a multi-boot environment. •This software is not compatible with a multi-CPU environment. •Operation is not guaranteed on Microsoft® Windows® XP Media Center Edition, Tablet PC Edition and not compatible with 64-bit computers. •These software applications are not Macintosh compatible. •Microsoft® and Windows® are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. •Other names of systems and products mentioned in this brochure are generally the registered trademarks or trademarks of the manufacturers who developed the system or product concerned.



\*IEC60529/EN60529 IPX4 Splash proof

#### Number of Recordable Still Pictures (Approx.) (SW20/S7/S10P1)

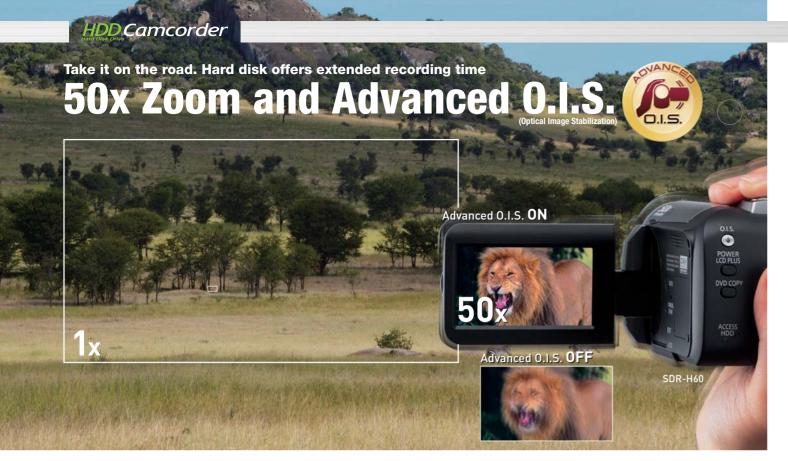
	apacity	SE	)HC Memory Ca	rd	SD Memory Card		
Image Quality		16GB*	8GB*	4GB*	2GB*	1GB*	
640 x 480		99999*1	55260	27150	13820	6790	
pixels	. <b>:</b>	99999*1	99999*1	54290	27640	13580	

• 👬 High Picture Quality 🛛 🛃 Normal Picture Quality

These figures vary depending on the subject being photographed. \*Usable capacity will be less.
 \*1 These models cannot record more than 99,999 still pictures onto an SD/SDHC Memory Card.

\*We recommend using SD Memory Cards and SDHC Memory cards conforming to class 2 or higher of the SD Speed Class Rating or the following SD Memory Cards made by Panasonic for motionimage recording.\*Please confirm the latest information about SD/SDHC Memory Cards that can be used for motion-image recording, on the following website.

http://panasonic.co.jp/pavc/global/cs/e\_cam (This website is in English only.)





Enjoy Longer Non-Stop Shooting Fun



VW-VH04 battery pack holder kit, and recording onto an SDHC/SD Memory card.

#### 60GB\*1 hard disk holds up to 54 hours

Holding as much data as 43 DVD discs, the internal hard disk lets you record continuously for up to 54 hours\*2 without changing a disc, tape or other recording media. \*1 A 60GB hard disk utilizes a portion of the storage space for formatting and other purposes. Usable capacity will be less. 1 GB means 1.000.000.000 bytes." \*2 In LP mode

## SDR-H40 **40**GB HDD / **36** h Rec.





\*1 In LP mode \*2 When using the separately purchased VW-VBG6 battery pack and VW-VH04 battery pack holder kit, and recording onto an SDHC/SD Memory card.

#### Anti-Shock Shield: Helps protect recorded video data from damage due to jolts and impact **Anti-Shock Shield**

1 The Drop Detect function senses if the camera is falling and moves the head away from the hard disk.

- 2 The Floating Structure protects the hard disk should the camera fall or be dropped.
- 3 The Buffer Memory automatically backs up data, while the camera is falling.

### If you have a powerful zoom, you need optical image stabilization Advanced 0.I.S. and 50x Optical Zoom

This 50x zoom lens has the power you need to take dramatic closeups or get remarkable shots of even distant subjects. But with long-distance zoom shots, even a tiny bit of hand shake has a huge effect on picture quality. That's where image stabilization comes in. Panasonic's Advanced 0.I.S. (Optical Image Stabilization) shifts a corrective lens as you shoot to eliminate the effects of hand shake, so you get clear, sharp, blur-free shots even at high zoom levels. It's an essential feature for getting the most out of this incredible zoom lens. \*H40: 42x optical zoom

#### Advanced 0.1.S. (Optical Image Stabilization)

Panasonic's Advanced O.I.S. is a new image stabilizing function that achieves around eight times higher precision than our previous system. The system uses gyro-sensors to detect hand shake, then shifts a lens and adjusts its optical axis to compensate Advanced 0.I.S. enables finer, more effective hand-shake compensation.



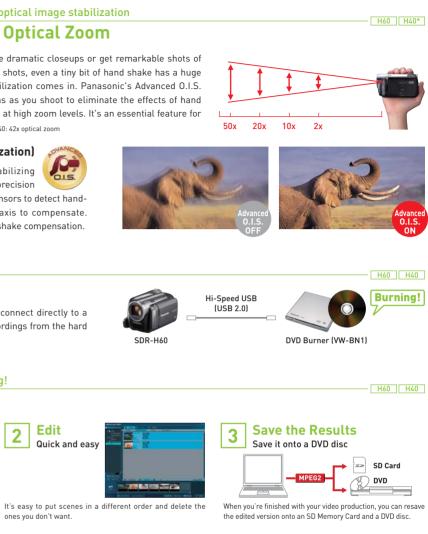
## Easy archiving with a DVD burner One-Touch DVD Copying

The HDD camcorder's USB Host function lets you connect directly to a DVD burner via a USB cable. You can then copy recordings from the hard disk to a DVD disc by simply pressing a button.



## Anyone can enjoy easy, versatile editing! VideoCam Suite 1.0

Transfer Data 1 Transfer the motion images to your PC. Hi-Sneed USB (USB 2.0)



You can transfer the motion-image data from the SDHC/SD Memory Card or hard disk right to your PC.

ones you don't want.

#### Sys

Int Wi Wi Wir CP Ma CP

rstem Requirements (H60/H40)									
	Built-in SD Drive*1	Built-in HDD Drive*1	VideoCam Suite 1.0						
nterface	USB port (Hi-Speed USB (USB 2.0) recommended)	USB port (Hi-Speed USB (USB 2.0) recommended)	USB port (Hi-Speed USB (USB 2.0) recommended)						
Vindows® 2000 Professional	O*2	O*2	(SP4)						
Vindows® XP Home Edition/ Professional	O*2	O*2	(SP2)						
Vindows Vista® Home Premium/ Home Basic	O*2	O*2	0						
PU	Windows® 2000 / XP: Intel® Pentium® II 300MHz or higher Windows Vista® : Intel® Pentium® III 1.0GHz or higher	Windows® 2000 / XP: Intel® Pentium® II 300MHz or higher Windows Vista® : Intel® Pentium® III 1.0GHz or higher	Intel® Pentium® III 800MHz or higher						
lac OS® X v10.4	O*2	O*2	-						
PU	PowerPC G5 (1.8GHz or higher), Intel® Core Duo, Intel® Core Solo	PowerPC G5 (1.8GHz or higher), Intel® Core Duo, Intel® Core Solo	-						

\*1 The drive operates as Read Only. \*2 USB equipment operates with the driver installed as standard in the OS • The supplied software can not be used on Macintosh. • DirectX will be installed automatically If the drive operates as read 01iy, 2 loss equipment operates with the driver instated as standard as standard as standard in the 05 et he supplied software can hold be used on Macintosh. •UneCLA with be installed automaticating during installation of the supplied software. •Microsoft@, Windows@ and WindowsWista@ are either registered trademarks of trademarks of Microsoft@ Corporation in the United States and/or other countries. •Other names of systems and products mentioned in this brochure are usually the registered trademarks of the manufacturers who developed the system or product concerned. •Operation is not Microsoft@ Windows@ XP Media Center Edition, Tablet PC Edition.

Battery

VW-VBG0

VW-VBG13 VW-VBG26 VW-VBG6

#### Motion-Image Recording Times (Approx.) (H60/H40)

			9			•,,				
Capacity Image	H	DD	SDI	HC Memory C	SD Memory Card					
Quality	60GB*	40GB*	16GB*	8GB*	4GB*	2GB*	1GB*			
XP (Super Fine)	14 h	9 h	3 h 20 min	1 h 40 min	50 min	25 min	12 min			
SP (Fine)	27 h	18 h	6 h 40 min	3 h 20 min	1 h 40 min	50 min	25 min			
LP (Normal)	54 h	36 h	13 h 20 min	6 h 40 min	3 h 20 min	1 h 40 min	50 min			
*Usable capaci	*Usable capacity will be less. •These figures vary depending on the pictures being recorded.									

#### Number of Recordable Still Pictures (Approx.) (H60/H/0)

Ca	pacity	SDHC Me	mory Card	SD Mem	SD Memory Card		
mageQuality		8GB*	4GB*	2GB*	1GB*		
640 x 480 pixels	<b>1</b>	55260	27150	13820	6790		
(0.3 MB)	.:.	99999	54290	27640	13580		
640 x 360 pixels		55260	27150	13820	6790		
[16:9] (0.2 MB)		99999	54290	27640	13580		

• 🎛 High Picture Quality 🔜 Normal Picture Quality • These figures vary depending on the subject being photographed. \* Usable capacity will be less.

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### STANDARD DEFINITION

#### Battery Life (Approx.) (H60/H40)

acity	Continuous R	ecording Time	Actual Recording Time			
	HDD	SD	HDD	SD		
70A	1 h 35 min	1 h 45 min	50 min	55 min		
30	2 h 55 min	3 h 10 min	1 h 30 min	1 h 45 min		
60	5 h 50 min	6 h 20 min	3 h 05 min	3 h 35 min		
	13 h 25 min	14 h 30 min	7 h 10 min	8 h 15 min		

This is a guideline that includes time for operations such as starting and stopping the recording, turning the
power on and off, and zooming.
 The actual time is shorter.

•We recommend using SD Memory Cards and SDHC Memory cards conforming to class2 or higher of the SD Speed Class Rating or the following SD Memory Cards made by Panasonic for motion-image recording. Please confirm the latest information about SDHC/SD Memory Cards that can be used for motion-image recording, on the following website. http://panasonic.co.jp/pavc/global/cs/ e cam [This website is in English only.]



# DVD Camcorder

Easy to Shoot, Easy to View, Easy to Enjoy



#### Multi-Format Recording (DVD-RAM, DVD-RW, DVD-R DL, DVD-R)

You can choose whichever type of disc works best with your DVD player or recorder.

#### of disc works corder. \_ The DVD camcorder automatically find

The DVD camcorder automatically finds a blank section on the disc for recording. The index screen makes it easy to search for a particular scene. You can view, delete and edit quickly and easily.

Easy Shooting, Easy Viewing



Easy, direct networking.

When you finish shooting, just take the disc from your DVD camcorder and slip it right into your DVD player or recorder. There's no need to connect any cables and you can start viewing right away.

# If you have a powerful zoom, you need optical image stabilization Advanced O.I.S. and 42x Optical Zoom

This 42x zoom lens has the power you need to take dramatic closeups or get remarkable shots of even distant subjects. But with long-distance zoom shots, even a tiny bit of hand shake has a huge effect on picture quality. That's where image stabilization comes in. Panasonic's Advanced 0.I.S. (Optical Image Stabilization) shifts a corrective lens as you shoot to eliminate the effects of hand shake, so you get clear, sharp, blur-free shots even at high zoom levels. It's an essential feature for getting the most out of this incredible zoom lens.

#### Advanced 0.I.S. (Optical Image Stabilization)

Panasonic's Advanced O.I.S. is a new image stabilizing function that achieves around eight times higher precision than our previous system. The system uses gyro-sensors to detect hand-shake, then shifts a lens and adjusts its optical axis to compensate. Advanced O.I.S. enables finer, more effective hand-shake compensation.



## Using your familiar DVD player makes it so easy View Your Recordings on a DVD Player

Simply slip the DVD disc into the DVD player. There are no cables to connect. It's that easy. \*The disc must be finalized prior to playback.

## Anyone can enjoy easy, versatile editing! VideoCam Suite 1.0

Transfer Data Transfer the motion images to your PC.

•These figures vary depending on the pictures being recorded



Hi-Speed USB (USB 2.0)

Just slip the DVD disc right into your PC. Or use the USB cable (included) to connect your DVD camcorder to your PC ones y and transfer the motion-image data that way.

It's easy to put scenes in a different order and delete the ones you don't want.

#### System Requirements (D50)

1

	Built-in SD Drive*1	VideoCam Suite 1.0
Interface	USB port (Hi-Speed USB (USB 2.0) recommended)	USB port (Hi-Speed USB (USB 2.0) recommended)
Windows® 2000 Professional	O*2	(SP4)
Windows® XP Home Edition/ Professional	O*2	(SP2)
Windows Vista® Home Premium/ Home Basic	O*2	0
CPU	Windows® 2000 / XP: Intel® Pentium® Ⅲ 300MHz or higher Windows Vista® : Intel® Pentium® Ⅲ 1.0GHz or higher	Intel® Pentium® III 800MHz or higher
Mac OS® X v10.4	O*2	-
CPU	PowerPC G5 (1.8GHz or higher), Intel® Core Duo, Intel® Core Solo	-

\*1 The drive operates as Read Only. \*2 USB equipment operates with the drive installed as standard in the OS \*The supplied software can not be used on Macintosh. •DirectX will be installed automatically during installation of the supplied software. •Microsoft®, Windows® and Windows Vista® are either registered trademarks or trademarks of Microsoft Corporation in the United states and/or other countries. •Apple® and Mac DS® are either registered trademarks of trademarks of Apple Inc. in the United states and/or other countries. •Other names of systems and products mentioned in this brochure are usually the registered trademarks or trademarks of the manufacturers who developed the system or product concerned. •Operation is not Buranted on Microsoft® Windows XP Media Center Edition, Tablet PC Edition.

#### Motion-Image Recording Times (Approx.) (D50) XP (Super Fine SP (Fine) I P (Nomal) DVD-RAM (dual-sided) 74 min 150 min 36 min DVD-RW (dual-sided 150 min 36 mi 74 mir DVD-R DI (dual-laver 69 min 138 min 35 mir DVD-R (single-sided) 18 min

Image Qua 640 x 480 (0.3 M 640 x 360 (16:9) (0.1 • ➡ High

### Battery Life (When Using for DVD-RAM disc) (Approx.) (D50)

Γ			Continuous Recording Time					Actual Recording Time					
		XP n	node	SP n	node	LP n	node	XP r	node	SP r	node	LP n	node
	(	EVF	LCD	EVF	LCD	EVF	LCD	EVF	LCD	EVF	LCD	EVF	LCD
\ [	VW-VBG07A	1 h 05 min	1 h	1 h 15 min	1 h 10 min	1 h 20 min	1 h 15 min	40 min	35 min	40 min	40 min	40 min	40 min
/ F	VW-VBG130	1 h 55 min	1 h 45 min	2 h 10 min	2 h	2 h 20 min	2 h 05 min	1 h 10 min	1 h 05 min	1 h 15 min	1 h 05 min	1 h 15 min	1 h 05 min
- F	VW-VBG260	4 h 05 min	3 h 45 min	4 h 35 min	4 h 10 min	4 h 55 min	4 h 30 min	2 h 30 min	2 h 15 min	2 h 35 min	2 h 25 min	2 h 40 min	2 h 25 min
-	VW-VBG6	9 h 25 min	8 h 40 min	10 h 40 min	9 h 40 min	11 h 25 min	10 h 20 min	5 h 50 min	5 h 20 min	6 h 10 min	5 h 35 min	6 h 15 min	5 h 40 min
	• This is a quideline that includes time for operations such as starting and stopping the recording, turning the power on and off, and zooming. • The actual time is shorter.												

• This is a guideline that includes time for operations such as starting and stopping the recording, turning the power on and off, and zooming. • The actual time is shorter. • We recommend using the DVD discs made by Panasonic for motion-image recording. We recommend using SD Memory Cards and SDHC Memory cards conforming to class2 or higher of the SD Speed Class Rating or the following SD Memory Cards made by Panasonic for motion picture recording. Please confirm the latest information about DVD discs and SDHC/SD Memory Cards that can be used for motion-image recording, on the following website. http://panasonic.co.jp/pavc/global/cs/e\_cam (This website is in English only.)



### **STANDARD DEFINITION**



#### Number of Recordable Still Pictures (Approx.) (D50)

Capacity		SDHC Mer	mory Card	SD Memory Card						
ality		8GB*	4GB*	2GB*	1GB*					
0 pixels		55260	27150	13830	6800					
MB)	. <b>:</b>	99999	54310	27660	13600					
0 pixels		55260	27150	13830	6800					
).2 MB)	. <b>:</b>	99999	54310	27660	13600					
n Picture	Picture Quality - Normal Picture Quality • These figures vary depending on the subject									

 High Picture Quality Image Normal Picture Quality These figures vary depending on the subject being photographed. \* Usable capacity will be less.





Have More Fun with the Videos You've Already Made





**10**x 10 h 10 min\* \* When using the separately purchased VW-VBG6 battery pack and using

If you have a powerful zoom, you need optical image stabilization Advanced 0.1.S. and 42x Optical Zoom

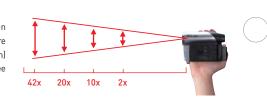
This 42x zoom lens has the power you need to take dramatic closeups or get remarkable shots of even distant subjects. But with long-distance zoom shots, even a tiny bit of hand shake has a huge effect on picture quality. That's where image stabilization comes in. Panasonic's Advanced 0.I.S. (Optical Image Stabilization) shifts a corrective lens as you shoot to eliminate the effects of hand shake, so you get clear, sharp, blur-free shots even at high zoom levels. It's an essential feature for getting the most out of this incredible zoom lens.

## **PV-GS90**





using the view finde



GS90

#### Triple beauty - remarkable color, detail and gradation

## 3CCD Camera System



Most professional broadcasting cameras use the 3CCD camera system, with its superb color reproduction. The advanced 3CCD camera system uses three distinct CCDs for processing, so there is absolutely no light loss. You can see the results

in beautifully rendered images with vivid color, fine detail, and rich gradation.



when the camera is in an unusual shooting position - when you've inadvertently left it on in recording mode. In these cases, the camera automatically stops recording, saving both battery power and disc space. \*This mode can be selected from the menu



GS320

## Anyone can enjoy easy, versatile editing! Quick Movie Magic 1.0E & MotionDV STUDIO 5.6E LE for DV





[For Beginners] Quick Movie Magic 1.0E Step-by-step instructions are shown right on the monitor

A USB cable lets you connect your camera to your PC, making it easy to transfer the motion images.

[For Advanced Users] Motion DV STUDIO 5 6E LE for DV This includes a wide variety of titles

video effects and transition.

#### System Pequirements (GS320)

System Requirement	115 (05520)			
	MotionDV STUDIO 5.6E LE for DV/Quick Movie Magic 1.0E	Web Camera Function	Card Reader Function (Mass Storage)	iMovie® 4/iMovie® HD
Interface	USB 2.0 (High Speed recommended)/DV (IEEE1394)	USB 1.1 or later	USB 1.1 or later	DV (FireWire®)
Windows® 2000	○ [SP4]*1	(SP4)	0	
Windows® XP	○ (SP2)*1	(SP1/SP2)	0	
CPU	Intel® Pentium® III 800MHz or higher	Intel® Pentium® III 450MHz or higher	Intel® Pentium® II 300MHz or higher	
Mac OS X 10.3 to 10.4	-	_	0	O*2
CPU			PowerPC G3 (400MHz or higher), G4, G5	PowerPC G3 (400MHz or higher), G4, G5,
CFU			Intel® Core Duo, Intel® Core Solo	Intel® Core Duo, Intel® Core Solo

 About MotionDV STUDIO LE / Quick Movie Magic In USB connection: Capturing images to a PC is available. \*In DV connection: Capturing images to a PC & Recording to a digital video camera are available.
 About MotionDV STUDIO LE / Quick Movie Magic In USB connection: Capturing images to a PC is available. \*In DV connection: Capturing images to a digital video camera is not available.
 About Movie 4 / iMovie HD •In DV [FireWire] connection: Capturing images to a PC & Recording to a digital video camera are available.
 About Movie 4 / iMovie HD •In DV [FireWire] connection: Capturing images for a PC & Recording to a digital video camera is not available.
 About Web Camera Function •When this function is used. Windows Messenger 5.0 or 5.1 or MSN Messenger 7.0 or 7.5 or Windows Live Messegner 8.0 is necessary. Inot included I Supplied CD-ROM is available. for Windows only. •Microsoft Windows 3.1. Windows 95, Windows 98, Windows Me and Windows NT are not compatible. •Microsoft and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and / or other countries. • Apple, Mac OS, iMovie / iMovie HD , FireWire are either registered trademarks or trademarks of Apple Computer, Inc. in the United States and/or other countries. • Other names of systems and products mentioned in these instructions are generally the registered trademarks or trademarks of the manufacturers who developed the system or product concerned.

#### Number of Recordable Still Pictures (Approx.) (GS320)

	Capacity	SDHC Memory Card		SD Mem	ory Card	
Image Quality		4GB*1	2GB*1	1GB*1	512MB*1	256MB*1
2048 x 1512 pixels		2530	1290	630	320	160
(3.1 MB)		3950	2010	990	490	250
2048 x 1512 pixels		3290	1680	820	410	210
(16:9) (3.1 MB)		5170	2630	1290	650	330
1600 x 1200		4020	2050	1010	500	250
pixels (2.0 MB)		6210	3160	1550	780	390
1280 x 960		6210	3160	1550	780	390
pixels (1.0 MB)		9870	5030	2470	1230	620
640 x 480 pixels		28160	14080	7040	3520	1710
(0.3 MB)		56320	28160	14080	7040	3520
640 x 360 pixels		28160	14080	7040	3520	1710
(0.2 MB)		56320	28160	14080	7040	3520

• EII High Picture Quality EI Normal Picture Quality • These figures vary depending on the subject being photographed. \*1 Usable capacity will be less. We recommend using SD Memory Cards and SDHC Memory cards conforming to class2 or higher of the SD Speed Class Rating or the following SD Memory Cards made by Panasonic for motion-image recording, please confirm the latest information about SDHC/ SD Memory Cards that can be used for motion-image recording, on the following website. http://panasonic.cb/plavs/global/cs/e\_cam [This website is in English only.]



### STANDARD DEFINITION

### Exceptional Leica-certified image quality

### Leica Dicomar Lens

LEICA DICOMAR

The GS320 boasts a Leica Dicomar lens. Developed specifically for digital video cameras and featuring original optical technology from Leica, this advanced lens captures clear, crisp, finely nuanced images with outstanding detail and contrast. Also, the lens was manufactured using

a multi-coating process that reduces flare and ghosts. \*Leica is a registered trademark of Leica Microsystem IR GmbH, and Dicomar is a registered trademark of Leica Camera AG.

## For shooting even in dim lighting LED Video Light

When illumination is insufficient, turn on the built-in LED video light to take crisp, colorful movies. The LED (light emitting diode) has low power consumption, long service life, and the safety of a low operating temperature.



### Save the Results

Choose how you want to save it



You can save the results in AVI format, convert it to the MPEG1 format or convert it to MPEG4 format. You can also burn your video productions onto a DVD disc\*. \*Requires DVD writing software

#### Battery Life (Approx.) (GS320)

	Continuous R	ecording Time	Actual Recording Time			
	EVF	LCD	EVF	LCD		
CGR-DU06	1 h 15 min	1 h 10 min	30 min	30 min		
VW-VBG130	2 h 10 min	2 h	55 min	55 min		
VW-VBG260	4 h 25 min	4 h 05 min	1 h 55 min	1 h 50 min		
VW-VBG6	10 h 10 min	9 h 25 min	4 h 30 min	4 h 10 min		

#### Battery Life (Approx.) (GS90)

	Continuous R	ecording Time	Actual Recording Time			
	EVF	LCD	EVF	LCD		
LSSB0016	1 h 45 min	1 h 30 min	55 min	45 min		
VW-VBG130	3 h	2 h 40 min	1 h 35 min	1 h 20 min		
VW-VBG260	6 h 05 min	5 h 20 min	3 h 10 min	2 h 45 min		
VW-VBG6	14 h 05 min	12 h 15 min	7 h 25 min	6 h 25 min		

•These figures vary depending on the pictures being recorded



GS90

GS320



## Functions that Give You More Shooting Flexibility

## High-performance image processing

Advanced Pure Color Engine and Pure Color Engine

The Advanced Pure Color Engine is a special image processing circuit for 3CCD camera systems. It processes the R.G and B signals from the three CCDs individually, so it gives both moving and still pictures exceptional guality. And the Pure Color Engine converts the CCD output signal from a complementary color signal into an RGB signal at an early stage and extracts the low-frequency luminance component from the RGB signal. This innovative engine also achieves truly superb color reproduction for high-zoomed pictures.



Without Advanced Pure Color Engine With Advanced Pure Color Engine

#### For easy, intuitive setting and shooting without taking your eyes off the subject

## One-Touch Navigation

With One-Touch Navigation, just press the center of the joystick to display an operating menu. The operations you use most often are right on the monitor, so it's easy to change settings or operate the camera without looking away from your subject.

#### Operation Icon Examples (HS9)

	E.	Backlight Compensation		FadeIN/FadeOUT
		Help Mode	Ð	Soft Skin Mode
1/3 NEXT		Contrast Mode	3	MagicPix

\*Icon display varies depending on the model.



Simply press the Power LCD button and the LCD becomes brighter, making it easier to see outdoors or in other bright locations.

#### Power LCD Extra

Power LCD Extra lets you adjust the LCD brightness in two steps by simply pressing the Power LCD button. Plus 1 mode increases brightness by 80% for easy outdoor viewing, and Plus 2 mode emphasizes contrast when shooting in strong sunlight conditions such as when skiing or at the beach.





Power LCD Extra Off



#### **Power LCD Plus**

You can set the LCD to any of five brightness levels for optimal viewing

in a variety of lighting conditions. When shooting outdoors on a sunny day, make the LCD brighter. When shooting indoors, lower it. This not only makes the LCD easier to see, it's also easier on your eyes.





Advanced Pure Color Engine Pure Color Engine GS320 SW20 S7 S10P

Just turn the dial and you're ready to shoot or to view the images afterward. Rotate the dial with your fingertip to select the icon that corresponds to the mode you want.

Give your subjects smoother looking skin	ALL
Soft Skin Detail	ALL

When this function detects skin tones, it softens the focus in that area. This has a skin beautifying effect, which makes wrinkles and lines appear less noticeable. When turned on, this function makes blemishes and moles look less conspicuous, while preserving resolution in areas of the picture outside of the skin.





ALL

Soft Skin Mode ON

Capture crisp, vivid images, even in low lighting

## MagicPix<sup>®</sup>

Leave the light off. MagicPix® gives you images with color even in dim lighting (1 lux). Light from the LCD is gentle and easy on the eyes, so you can snap shots of sleeping children without waking them up.







MagicPix® ON

## FEATURE COMPARISON

	HE	Camcora	ler	SE	Camcora	ler	HDD Car	ncorder	DVD Camcorder	DV Camcorde	
	HDC-SD9	HDC-HS9	HDC-SX5	SDR-SW20	SDR-S10P1	SDR-S7	SDR-H60	SDR-H40	VDR-D50	PV-GS320	PV-GS90
High-Quality Pictures											
Media	SDHC/SD Memory Card	60-GB HDD SDHC/SD Memory Card	8-cm DVD Disc SDHC/SD Memory Card	SDHC/SD Memory Card	SDHC/SD Memory Card	SDHC/SD Memory Card	60-GB HDD SDHC/SD Memory Card	40-GB HDD SDHC/SD Memory Card	8-cm DVD Disc	mini DV Tape	mini DV Tape
Recording Format	AVCHD	AVCHD	AVCHD MPEG2	MPEG2	MPEG2	MPEG2	MPEG2	MPEG2	MPEG2	DV	DV
3CCD Camera System	Yes	Yes	Yes	No	No	No	No	No	No	Yes	No
0.I.S. (Optical Image Stabilization)	Advanced 0.I.S.	Advanced 0.I.S.	Advanced 0.I.S.	No	No	No	Advanced 0.I.S.	Advanced 0.I.S.	Advanced 0.I.S.	0.I.S.	Advanced 0.I.S.
Leica Dicomar Lens	Yes	Yes	Yes	No	No	No	No	No	No	Yes	No
Image Processing LSI	HD Advanced Pure Color Engine	HD Advanced Pure Color Engine	HD Advanced Pure Color Engine	Pure Color Engine	Pure Color Engine	Pure Color Engine	Pure Color Engine	Pure Color Engine	Pure Color Engine	Advanced Pure Color Engine	Pure Color Engir
MPEG2 Engine	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	No	No
Optical Zoom	10x	10x	10x	10x	10x	10x	50x	42x	42x	10x	42x
5.1-ch Surround Sound System and Zoom Mic	Yes	Yes	No	No	No	No	No	No	No	No	No
Still Picture Recording	2.1 MEGA	2.1 MEGA	2.1 MEGA	VGA	VGA	VGA	VGA	VGA	VGA	3.1 MEGA	No
Simultaneous Motion-Image and Still Picture Recording	2.1 MEGA	2.1 MEGA	2.1 MEGA	No	No	No	No	No	No	1.2 MEGA	No
Ease and Versatility											
Waterproof	No	No	No	5 feet	Water Resistance	No	No	No	No	No	No
Shockproof	No	No	No	4 feet	4 feet	No	No	No	No	No	No
Dustproof	No	No	No	Yes	No	No	No	No	No	No	No
LCD	2.7" Wide	2.7" Wide	2.7" Wide	2.7" Wide	2.7" Wide	2.7" Wide	2.7" Wide	2.7" Wide	2.7" Wide	2.7" Wide	2.7" Wide
Power LCD	Yes (Extra)	Yes (Extra)	Yes (Extra)	Yes (Extra)	Yes	Yes (Extra)	Yes (Plus)	Yes (Plus)	No	Yes	No
Wide Viewing Angle LCD	Yes	Yes	Yes	No	No	No	No	No	No	No	No
Face Detection	Yes	Yes	No	No	No	No	No	No	No	No	No
Intelligent Shooting Guide/ Selection Playback	Yes	Yes	No	No	No	No	No	No	No	No	No
World Timer	Yes	Yes	No	Yes	No	Yes	No	No	No	No	No
Pre-Rec Function	Yes	Yes	Yes	No	No	Yes	Yes	No	No	No	No
Intelligent Contrast Control	Yes	Yes	Yes	No	No	No	No	No	No	No	No
One-Touch Navigation	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Built-in Flash	Yes	Yes	Yes	No	No	No	No	No	No	No	No
MagicPix®	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Built-in LED Light	No	No	No	No	No	No	No	No	No	No	Yes
Soft Skin Mode	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Tele Macro	50 cm	50 cm	50 cm	No	No	No	No	No	No	50 cm	No
AGS	Yes	Yes	Yes	No	No	No	No	No	No	Yes	No
Quick Start	0.6 sec	0.6 sec	1.7 sec (Effective in Card Recording mode)	0.6 sec	1.7 sec	0.6 sec	2.1 sec	2.1 sec	1.7 sec	1.7 sec	No
Burst Shooting	2.1 Mega (24 fps)	2.1 Mega [24 fps]	No	No	No	No	No	No	No	No	No
Lens Cover	Auto	Auto	Auto	No	No	Manual	Manual	Manual	Manual	Lens Cap	Manual
Accessory Shoe	No	No	Hot	No	No	No	No	No	No	Cold	No
Networking											
One Touch DVD Copying (USB Host)	Yes *1	Yes *1	Yes *2	Yes *1	No	Yes *1	Yes *1	Yes *1	No	No	No
USB2.0	High Speed Mode	High Speed Mode	High Speed Mode	High Speed Mode	High Speed Mode	High Speed Mode	High Speed Mode	High Speed Mode	High Speed Mode	High Speed Mode	Full-Speed Mode
SDHC/SD Memory Card Compatible	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
PictBridge Compatible	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
DV IN/OUT	No	No	No	No	No	No	No	No	No	Yes	Yes
Analog OUT	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

\*1 When using a DVD burner (VW-BN1), data from an SDHC/SD Memory Card can be copied to a 12-cm DVD disc. \*2 Data from an SDHC/SD Memory Card can be copied to an 8-cm DVD disc entirely within the SX5 itself

## **OPTIONAL ACCESSORIES**



 \*1 • The VW-VBG130-K and VW-VBG260-K come with a function to check whether the battery and unit can be safely used together.
 • Batteries made by other companies which have been certified by Panasonic may be used with these units, but we offer no guarantee as to the quality, performance or safety of such batteries.
 • Exercise care when purchasing batteries. Many fake or imitation batteries have been found among those sold at unusually low prices and those which customers cannot check for themselves before purchasing. Please confirm the latest information about batteries on the following website. http://panasonic.co.jp/pavc/global/cs/info/battery.html [This website is in English only.]
 \*2 • An SDHC/SD Memory Card utilizes a portion of the storage space for formatting and other purposes. •Usable capacity will be less.

## OPTIONAL ACCESSORY COMPARISON

Accessory	Model Ne	Description		HD Camcorde	۲		SD Camcorder		HDD Ca	mcorder	DVD Camcorder	Mini DV C	amcorde
Accessory	Model No.	Description	SD9	HS9	SX5	SW20	S10P1	S7	H60	H40	D50	GS320	GS9
POWER													
	VW-VBG130	1320 mAh	٥	0	0				•	۰	•	0	0
Rechargeable	VW-VBG260	2640 mAh	0	•	0				<b>0</b> *1	<b>O</b> *1	•	0	0
Lithium Ion Battery Pack /	CGA-DU12	1150 mAh										0	0
Battery Pack Holder Kit	CGA-DU21	2040 mAh										•	0
	VW-VBG6	5800 mAh (Battery for VW-VH04)	0	0	0				0	0	0	0	0
AC Adaptor	VW-AD21	AC Adaptor with AC Cable and DC Cables	0	0	٥				٥	0	•		
SHOOTING													
Tele Conversion Lens	VW-LT3714H		•	•	•								
Wide Conversion Lens	VW-LW3707H		0	0	0								
Tripod	VW-CT45		0	0	0	0	0	•	0	0	•	0	0
Stereo Zoom Microphone	VW-VMH3				•								
Video DC Light	VW-LDC102		<b>0</b> *2	<b>0</b> *2	٥	<b>•</b> *2	<b>•</b> *2	<b>0</b> *2	<b>0</b> *2	<b>•</b> *2	<b>0</b> *2	۲	0
Shoe Adaptor	VW-SK12-K		0	•	٠	•	•	•	۰	۰	•	•	0
DATA TRANSFERRING													
DVD Burner	VW-BN1		0	0		۲		•	٥	0			
DVD Burner HDMI mini Cable	RP-CDHM15	1.5 m	0	•									
	RP-CDHM30	3.0 m	0	0									
HDMI Cable	RP-CDHG10	1.0 m			٠								
	RP-CDHG15	1.5 m			0								
	RP-CDHG20	2.0 m			٢								
	RP-CDHG30	3.0 m			•								
	RP-CDHG50	5.0 m			٥								
	RP-CDHG80	8.0 m			•								
	RP-CDHG100	10.0 m			0								
DV Cable	PV-DDC9											•	0
RECORDING MEDIA									1				
	RP-SDV16G	Class6 16GB up to 20MB/s	0	0	•	•	•	0	•	0			
	RP-SDV08G	Class6 8GB up to 20MB/s	٢	0	0	0	0	•	0	0	•		
HDMI Cable DV Cable RECORDING MEDIA SDHC/SD Memory Card	RP-SDV04G	Class6 4GB up to 20MB/s	0	0	۰	۲	0	•	•	0	•	•	
	PR-SDM04G	Class4 4GB UP to 10MB/s	0	•	0	0	0	•	•	0	•	0	
	RP-SDV02G	Class6 2GB up to 20MB/s	0	•	•	•	•	•	•	0	•	0	
Hennory Card	PR-SDM02G	Class4 2GB UP to 5MB/s	0	0	•	0	0	0	•	•	0	0	
	RP-SDV01G	Class6 1GB up to 20MB/s	۲	0	0	•	•	•	•	۲	•	•	
	RP-SDR01G		0	0	•	•	0	0	•	•	•	•	
	PR-SDK512	(Not Class rated) 512MB, up to 20MB/s	•	0	0	•	•	0	•	•	•	0	
	LM-AF60U	Double-sided 60 Minute			0						0		
DVD-RAM Disc	LM-AF30U	Single-sided 30 Minute			0						0		
	LM-RW60U	Single-sided 60 Minute			0						0		
DVD- RW Disc	LM-RW30U	Single-sided 30 Minute			0						0		
	LM-RF60V	Double-sided 60 Minute			0						0		
DVD-R Disc	LM-RF30V	Single-sided 30 Minute			•						0		

## SPECIFICATIONS

ENERAL ower Supply	SD9	HD Camcorder HS9	SX5	SW20	SD Camcorder S10P1	S7	H60	Imcorder H40	DVD Camcorder D50	G5320	Camcorder GS90
	DC7.2 V/9.3 V	DC7.2 V/9.3 V	DC7.2 V/9.3 V	DC3.6 V/5.0 V	DC4.8 V/3.6 V	DC3.6 V/5.0 V	DC7.2 V/9.3 V	DC7.2 V/9.3 V	DC7.2 V/ 9.3 V	DC7.2 V/7.9 V	DC7.2 V/9.3 V
ver Consumption	5.8 W	6.8 W	10.2 W		2.9 W	2.9 W	4.0 W	4.0 W	5.9 W	5.2 W	4.1 W
ght (w/o Battery)	0.606 lb	0.86 lb	1.20 lb		0.40 lb	0.36 lb	0.75 lb	0.75 lb	0.88 lb	0.99 lb	0.86 lb
ensions (W x H x D ) lia	2.56 x 2.638 x 4.96 inch SD/SDHC Memory Card	2.953 x 2.913 x 4.96 inch HDD. SD/SDHC Memory Card	3.3 x 3.7 x 5.9 inch 8-cm DVD Disc, SD/SDHC Memory Card		1.22 x 2.48 x 4.49 inch SD/SDHC Memory Card	1.6 x 2.3 x 4.0 inch SD/SDHC Memory Card	2.64 x 2.76 x 4.57 inch HDD, SD/SDHC Memory Card	2.64 x 2.76 x 4.57 inch HDD, SD/SDHC Memory Card	2.08 x 3.52 x 5.06 inch 8-cm DVD Disc, SD/SDHC Memory Card	3.34 x 3.06 x 5.8 inch miniDV_SD/SDHC_Memory_Card	2.638 x 3.327 x 4.697 inch miniDV
IS SECTION	3D/3DHC Melliory card	HDD, SD/SDHC Memory Card	8-cm byb bisc, 30/30HC Memory Card	SD/SDHC Melliory card	SD/SDHC Mellioly card	SD/SDHC Melliory card	HDD, 30/30HC Mentory Card	HDD, 30/30HC Mellioly card	8-chi byb bisc, 3b/3bHc Mehlory card	miniby, 30/30HC Mentory Card	IIIIIIDV
	1/6"CCD x 3 Total pixels: 560 k x 3 Effective pixels: 520k x 3 [16:9]	1/6"CCD x 3 Total pixels: 560 k x 3 Effective pixels: 520k x 3 [16:9]	1/6"CCD x 3 Total pixels: 560 k x 3 Effective pixels: 520k x 3 [16:9]	1/6"CCD (680 k pixels, Total/340 k [4:3], 300 k [16:9](Motion Image)	1/6"CCD [680 k pixels, Total/340 k [4:3],	1/6"CCD (680 k pixels, Total/340 k [4:3], 300 k [16:9](Motion Image)	1/6°CCD (800 k pixels, Total/290 k [4:3], 380 k [16:9] (Motion Image)/290 k [4:3],	1/6"CCD (800 k pixels, Total/290 k [4:3], 380 k [16:9] (Motion Image)/290 k [4:3],	1/6"CCD [800 k pixels, Total/290 k [4:3], 380 k [16:9] [Motion Image]/290 k [4:3],	1/6" CCD x 3 (800 k x 3 pixels, Total/630 k x 3 [4:3], 540 k x 3 [16:9]	380 k [16-9]
age Sensor	Effective pixels: 520k x 3 [16:9]   (Motion Image / Still Image)	Effective pixels: 520k x 3 [16:9] (Motion Image / Still Image)	Effective pixels: 520k x 3 [16:9] (Motion Image / Still Image)	300 k [16:9][Motion Image] /350 k [4:3] [Still Picture]Effective]	300 k [16:9][Motion Image] /350 k [4:3] [Still Picture]Effective]	300 k [16:9][Motion Image] /350 k [4:3] (Still Picture)Effective]	380 k [16:9] [Motion Image]/290 k [4:3], 380 k [16:9] [Still Picture] Effective]	380 k [16:9] [Motion Image]/290 k [4:3], 380 k [16:9] [Still Picture] Effective]	380 k [16:9] (Motion Image]/290 k [4:3], 380 k [16:9] (Still Picture) Effective)	[Motion Image]/710 k x 3 [4:3], 540 k x 3 [16:9] [Still Picture] Effective]	(Motion Image)/290 k [4:3], 3 [Still Picture] Effective]
/alue	F1.8 (WIDE)/2.8 (TELE)	F1.8 (WIDE)/2.8 (TELE)	F1.8 (WIDE)/2.8 (TELE)	F1.8 (WIDE)/2.4 (TELE)	F1.8 (WIDE)/2.4 (TELE)	F1.8 (WIDE)/2.4 (TELE)	F2.0 (WIDE)/F5.0 (TELE)	F1.9 (WIDE)/F4.3 (TELE)	F1.9 (WIDE)/F4.3 (TELE)	F1.8 (WIDE)/F2.8 (TELE)	F1.9 [WIDE]/F4.3 [TELE]
tical Zoom	10x Variable Speed Zoom	10x Variable Speed Zoom	10x Variable Speed Zoom	10x Variable Speed Zoom	10x Variable Speed Zoom	10x Variable Speed Zoom	50 x Variable Speed Zoom	42 x Variable Speed Zoom	42 x Variable Speed Zoom	10 x Variable Speed Zoom	42 x Variable Speed Zoom
cal Length ter Diameter	3.0-30.0 mm 37 mm	3.0—30.0 mm 37 mm	3.0-30.0 mm 37 mm	2.3-23 mm	2.3–23 mm	2.3—23 mm	1.8 — 90 mm	1.8 — 75.6 mm	1.8-75.6 mm 37 mm	3.0-30 mm 37 mm	1.8 - 75.6 mm
					43.9—439mm [4:3],		40.9 – 2046 mm [4:3]/ 33.4 – 1670 mm [16:9] (Motion Image)	40.9 – 1718 mm [4:3]/ 33.4 – 1403 mm [16:9] (Motion Image)	40.9-1718 mm [4:3] 33.4-1403 mm	46.1-461 mm [4:3]/47.1 - 471 mm	40.9 – 1718 mm [4:3]/ 33.4 – 1403 mm [16:9] [Mo
imm Film Camera Equivalent	42.9-429 mm [16:9] (Motion Image / Still Picture)	42.9—429 mm [16:9] (Motion Image / Still Picture)	42.9-429 mm [16:9] (Motion Image / Still Picture)	43.9-439mm [4:3], 43.9-439mm [16:9][Motion Image]/ 43.7-437mm [4:3][Still Picture]	43.9—439mm [16:9](Motion Image)/	43.9—439mm [4:3], 43.9—439mm [16:9] (Motion Image)/ 43.7—437mm [4:3] (Still Picture)	40.7-2036 mm [4:3]/33.2 -1658 [16:9]	40.7-1710 mm [4:3]/33.2 -1393 [16:9]	[16:9] [Motion Image] 40.7—1710 mm [4:3], 33.2—1393 mm	[16:9] [Motion Image] 43.4 — 434 mm [4:3]/47.0 — 470 mm	40.7-1710 mm [4:3]/33.2 -
ens Brand	Leica Dicomar	Leica Dicomar	Leica Dicomar		43.7—437mm [4:3][Still Picture] Panasonic	Panasonic	(Still Picture) Panasonic	(Still Picture) Panasonic	[16:9] (Still Picture) Panasonic	[16:9] [Still Picture] Leica Dicomar	(Still Picture) Panasonic
AMERA SECTION	Leica Dicollar	Leica Dicomai	Leica Dicomar	Fanasonic	Fanasonic	Fallasonic	Panasonic	Fanasonic	Fanasonic	Leica Dicomar	Fallasonic
nimum Illumination	5 Lux (1/30 Low Light Mode),	5 Lux (1/30 Low Light Mode),	5 Lux (1/30 Low Light Mode),	2Lux [MagicPix]	2Lux (MagicPix)	2Lux (MagicPix)	2lux (MagicPix)	2lux (MagicPix)	2 Lux (MagicPix)	1lux (MagicPix)	2 Lux (MagicPix)
cus	1 Lux (Magic Pix® Mode) AF/Manual	1 Lux (Magic Pix® Mode) AF/Manual	1 Lux [Magic Pix® Mode] AF/Manual		AF/Manual	AF/Manual	AF/Manual	AF/Manual	AF/Manual	AF/Manual	AF/Manual
ite Balance	Auto/Indoor/Outdoor/White Set	Auto/Indoor/Outdoor/White Set	Auto/Indoor/Outdoor/White Set	Auto/Indoor/Outdoor/White Set/	Auto/Indoor/Outdoor/White Set	Auto/Indoor/Outdoor/White Set	Auto/Indoor/Outdoor/White Set	Auto/Indoor/Outdoor/White Set	Auto/Indoor/Outdoor/White Set	Auto/Indoor/Outdoor/White Set	Auto/Indoor/Outdoor/White
	Motion Image/		(with IR Sensor)	Underwater (with IR Sensor)	[with IR Sensor]	(with IR Sensor)	(with IR Sensor)	(with IR Sensor)	(with IR Sensor)	(with IR Sensor)	[with IR Sensor]
	60i : Auto Slow Shutter ON :1/30-1/8000 24p : Auto Slow Shutter ON : 1/24-1/8000	OFF: 1/60-1/8000 OFF: 1/48-1/8000	1/30—1/8000 sec (Motion Image), 1/30—1/8000 sec (Still Picture)	1/30—1/8000 (Motion Image),	1/60—1/8000 (Motion Image),	1/30—1/8000 (Motion Image),	1/30—1/8000 (Motion Image),	1/30—1/8000 (Motion Image),	1/30—1/8000 (Motion Image),	1/60—1/8000 (Motion Image),	
utter Speed	Still Picture/		1/30-1/8000 sec (Still Picture) (Progressive 1/30-1/500)	1/30—1/500 (Milli Picture)	1/60—1/500 [Still Picture]	1/30—1/500 (Still Picture)	1/30-1/500 (Motion mage), 1/30-1/500 (Still Picture)	1/30-1/500 [Still Picture]	1/30—1/500 (Still Picture)	1/30—1/2000 (Still Picture)	1/30—1/8000 (Motion Image
	60i : Auto Slow Shutter ON : 1/30—1/8000, 24p : Auto Slow Shutter ON : 1/24—1/8000,	OFF : 1/60—1/8000 [Progressive : 1/30—] , OFF : 1/48—1/8000 [Progressive : 1/24—]									
s	Auto/Manual	Auto/Manual	Auto/Manual	Auto/Manual	Auto/Manual	Auto/Manual	Auto/Manual	Auto/Manual	Auto/Manual	Auto/Manual	Auto/Manual
ene Mode	Sports/Portrait/Low Light/Spot Light/Surf & Snow				Sports/Portrait/Low Light/Spot Light/Surf & Snow Yes		w Sports/Portrait/Low Light/Spot Light/Surf & Snow	1			1
cklight Compensation F		Yes	Yes 0.44" Wide EVF	Yes		Yes	Yes	Yes	Yes 0.33" Color (113,578 dots)	Yes 0.33" Color (113,578 dots)	Yes 0.33" Color (113,578 dots)
r nitor	2.7" Wide LCD (300,000 dots)		2.7" Wide LCD (300,000 dots)				2.7" Wide LCD (123,200 dots)		2.7" Wide LCD (123,200 dots)	2.7" Wide LCD (123,200 dots)	2.7" Wide LCD (123,200 dot
crophone	Dolby Digital / 5.1ch, Zoom Microphone	Dolby Digital / 5.1ch, Zoom Microphone	2-ch Stereo, Zoom Microphone		Stereo Zoom Mic, Wind Noise Reduction	Stereo Zoom Mic, Wind Noise Reduction	Stereo Zoom Mic, Wind Noise Reduction	Stereo Zoom Mic, Wind Noise Reduction	Stereo Zoom Mic, Wind Noise Reduction	Stereo Zoom Mic, Wind Noise Reduction	Stereo Zoom Mic, Wind Noise
te Recording	Auto Date (in Date Code)	Auto Date (in Date Code)	Auto Date (in Date Code)	Auto Date (in Date Code)	Auto Date (in Date Code)	Auto Date (in Date Code)	Auto Date (in Date Code)	Auto Date (in Date Code)	Auto Date (in Data Code)	Auto Date (in Date Code)	Auto Date (in Date Code)
de In/Out c. Review	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
D Language	English / Canadian French / Spanish	English / Canadian French / Spanish	English / Canadian French / Spanish	English / Canadian French / Spanish	English / Canadian French / Spanish	English / Canadian French / Spanish	English / Canadian French / Spanish	English / Canadian French / Spanish	English / Canadian French / Spanish	English / Canadian French / Spanish	English / Canadian French
age Stabilizer	Advanced 0.1.S.	Advanced 0.I.S.	Advanced 0.I.S.		E.I.S. [Electronic Image Stabilization]	E.I.S. (Electronic Image Stabilization)	Advanced 0.1.S.	Advanced 0.1.S.	Advanced 0.1.S.	0.1.5.	Advanced 0.I.S.
ital Zoom	25 x—700 x	25 x—700 x	25 x—700 x	10 x—700 x	10 x—700 x	10 x—700 x	50 x—2500 x	42 x—2000 x	42 x—2000 x	10 x—700 x	42 x—2000 x
D Video Light sh	- 1 m-2.5 m (approx.)	- 1 m-2.5 m (approx.)	- 1 m-2.5 m (approx.)	-	-	-		-	-	-	Yes
b Camera Function	-	-	-	-	-	-	1-	-	-	Motion JPEG 320 x 240 approx. 6 fps	-
SC SECTION											
plicable Disc	_	_	8 cm DVD-RAM Ver.2.1 / 8 cm DVD-R for General Ver.2.0 / 8 cm DVD-RW Ver.1.1	_	_	_	_	_	8 cm DVD-RAM Ver. 2.1/8 cm DVD-R for General Ver. 2.0/8 cm DVD-RW Ver. 1.1	_	_
·			2x-speed(2x/1x) / DVD-R for DL Ver.3.0						2 x-speed [2 x/1 x]/DVD-R for DL Ver. 3.0		
Je/Review	-	-	Forward / Reverse Forward / Reverse	-	-	-	-	-	Forward/Reverse Forward/Reverse		-
ARD SECTION			Forward / Reverse			_			1 of ward/iteverse		
rd Slot	SD/SDHC	SD/SDHC	SD/SDHC	SD/SDHC	SD/SDHC	SD/SDHC	SD/SDHC	SD/SDHC	SD/SDHC	SD/SDHC	-
ll Picture	JPEG Picture size: 1920x1080 [16:9] 2.1 Megapixels	JPEG Picture size: 1920x1080 [16:9]	JPEG Picture size: 1920x1080 [16:9] 2.1 Megapixels	JPEG Picture size: 640 x 480 [4:3] 0.3 Megapixels	JPEG Picture size: 640 x 480 [4:3] 0.3 Megapixels	JPEG Picture size: 640 x 480 [4:3] 0.3 Megapixels	JPEG Picture size: 640 x 480 [4:3] 0.3 Megapixels or 640 x 360 [16:9] 0.2 Megapixels	JPEG Picture size: 640 x 480 [4:3] 0.3 Megapixels or 640 x 360 [16:9] 0.2 Megapixels	JPEG Picture size: 640 x 480 [4:3] 0.3 Megapixels or 640 x 360 [16:9] 0.2 Megapixels	JPEG Picture size: 2048 x 1512 [4:3] 3.1 Megapixels or 2048 x 1152 [16:9] 2.4 Megapixels or 1600 x 1200 [4:3] 2.0 Megapixels or 1280 x 960 [4:3] 1.0 Megapixels or 640 x 480 [4:3] 0.3 Megapixels or	-
		2.1 Megapixels	2.1 megapixets		040 X 400 [4:3] 0.3 Megapixets						
										640 x 360 [16:9] 0.2 Megapixels	
OF	Max.999 stills	Max.999 stills	Max.999 stills		Max.999 stills	Max.999 stills	Max 999 stills	Max 999 stills	Max 999 stills	Max 999 stills	-
OF :tBridge :CORDING SECTION						Max.999 stills Yes		Max 999 stills Yes	Max 999 stills Yes		-
tBridge CORDING SECTION	Yes	Max.999 stills Yes	Max.999 stills Yes HD*: AVCHD (Motion Image)	Yes	Max.999 stills Yes	Yes	Yes	Yes	Yes	Max 999 stills Yes	
tBridge	Yes AVCHD (Motion Image)	Max.999 stills Yes AVCHD [Motion Image]	Max.999 stills Yes HD*: AVCHD (Motion Image) STD*: DVD Video Recording (Moving Picture	Yes MPEG2 (Motion Image)	Max.999 stills Yes MPEG2 [Motion Image]	Yes MPEG2 (Motion Image)	Yes MPEG2 (Motion Image)	Yes MPEG2 (Motion Image)	Yes MPEG2 (Motion Image)	Max 999 stills	- -
tBridge CORDING SECTION	Yes AVCHD (Motion Image) HD*: HA (17 Mbps / VBR), HG (13 Mbps / VBR), HX (9 Mbps / VBR),	Max.999 stills Yes AVCHD (Motion Image) HO*: HA 117 Mbps / VBR), HG 113 Mbps / VBR, HX (9 Mbps / VBR),	Max. 999 stills Yes HD*: AVCHD (Motion Image) STD*: DVD Video Recording (Moving) HD*: HG 13 Mps/ CBR), HN (9 Mps/ VBR), HE (6 Mps/ VBR) STD*: XP (10 Mps/ VBR),	Yes MPEG2 (Motion Image) XP (10Mbps/VBR), SP (SMbps/VBR),	Max.999 stills Yes MPEG2 [Motion Image] XP [10Mbps/VBR], SP [IMbps/VBR],	Yes MPE62 [Motion Image] XP (10Mbps/VBR), SP (SMbps/VBR),	Yes MPEG2 [Motion Image] XP [10Mbps/VBR], SP [5Mbps/VBR],	Yes MPEG2 (Motion Image) XP (10Mbps/VBR), SP (SMbps/VBR),	Yes MPEG2 [Motion Image] XP (10Mbps/VBR), SP (5Mbps/VBR),	Max 999 stills Yes	 DVC SP/LP
tBridge CORDING SECTION rmat	Yes AVCHD [Motion Image] HD*: HA (17 Mbps / VBR], HG (13 Mbps / VBR], HX (9 Mbps / VBR], HE (6 Mbps / VBR]	Max.999 stills Yes AVCHD [Motion Image] HD7: HA 117 Mps / VRR], HD [13 Mps / VRR], HX [9 Mps / VRR], HX [9 Mps / VRR]	Max. 999 stills Yes HD*, AVCHD [Motion Image] STD*. DVD Video Recording [Moving Picture HD*. HG 13 Mps / CBR], H1 (9 Mps / VBR], HE [16 Mps / VBR] STD*. XP 110 Mps / VBR], STD*. XP 110 Mps / VBR], STD*. SMps / VBR]	Yes MPEG2 (Motion Image) XP (10Mbps/VBR), SP (SMbps/VBR), LP (2.5Mbps/VBR)	Max.999 stills Yes MPEG2 (Motion Image) XP (10Mbps/VBR), SP (5Mbps/VBR), LP (2.5Mbps/VBR)	Yes MPEG2 (Motion Image) XP (10Mbps/VBR), SP (SMbps/VBR), LP (2.5Mbps/VBR)	Yes MPEG2 [Motion Image] XP (10Mbps/VBR), SP (5Mbps/VBR), LP (2.5Mbps/VBR)	Yes MPEG2 [Motion Image] XP (10Mbps/VBR], SP [SMbps/VBR], LP [2.5Mbps/VBR]	Yes MPEG2 [Motion Image] XP [10Mbps/VBR], SP [SMbps/VBR], LP [2.5Mbps/VBR]	Max 999 stills Yes DVC-SD	
tBridge CORDING SECTION rmat	Yes AVCHD (Motion Image) HD*: HA (17 Mbps / VBR), HG (13 Mbps / VBR), HX (9 Mbps / VBR),	Max.999 stills           Yes           AVCHD [Motion Image]           HD*: HA 117 Mbps / VBR], HG 113 Mbps / VBR], HE 16 Mbps / VBR], HE 16 Mbps / VBR], HE 16 Mbps / VBR], HG 113 Mbps / VBR], HG 113 Mbps / VBR],	Max.999 stills Max.999 stills HD*, AVCHD [Motion Image] STD*, DVD Video Recording [Moving Picture HD*, HG 13 Mps/ CBR], H10 (Maps/ VBR], HE (L6 Mps/ VBR] STD*, XP 110 Mps/ VBR], HE (L5 Mps/ F) [S Mps/ VBR], LF (L5 Mps/ HD*, HG 13 Mps/ CBR), HD*, HG 13 Mps/ CBR), HD*, HG 13 Mps/ VBR],	Yes MPE62 [Motion Image] XP [10Mbpc/VBR], LP [2.5Mbps/VBR] XP [10Mbps/VBR] XP [10Mbps/VBR],	Max.999 stills Yes MPEG2 [Motion Image] XP [10Mbps/VBR], SP [IMbps/VBR],	Yes MPE62 [Motion Image] XP (10Mbps/VBR), SP (SMbps/VBR),	Yes MPEG2 [Motion Image] XP [10Mbps/VBR], SP [5Mbps/VBR],	Yes MPEG2 (Motion Image) XP (10Mbps/VBR), SP (SMbps/VBR),	Yes MPEG2 [Motion Image] XP (10Mbps/VBR), SP (5Mbps/VBR),	Max 999 stills Yes DVC-SD	
Bridge 20RDING SECTION mat cording Mode yback Mode iable Speed Search	Yes           AVCHD [Motion Image]           HD*: HA (17 Mbps / VBR),           HG (13 Mbps / VBR),           HK (9 Mbps / VBR),           HE (6 Mbps / VBR),           HD*: HA (17 Mbps / VBR),           HG (13 Mbps / VBR),           HG (14 Mbps / VBR),           HG (16 Mbps / VBR),           HG (16 Mbps / VBR),           HG (16 Mbps / VBR),           HE (6 Mbps / VBR),	Max.999 stills Yes AVCHD [Motion Image] HD*: HA (17 Mbps / VBR], HG (13 Mbps / VBR], HE (6 Mbps / VBR], HE (6 Mbps / VBR], HG (13 Mbps / VBR], HG (13 Mbps / VBR], HE (6 Mbps / VBR], HE (6 Mbps / VBR], HE (6 Mbps / VBR], HE (6 Mbps / VBR],	Max.999 stills Yes HD*, AVCHD [Motion Image] STD*: DVD video Recording [Moving Picture HD*: HG [13 Mbps / CBR], HN (Mbps / VBR), HE [6 Mbps / VBR] SD*: SD*: DVBs; / CBR], HD*: HG [13 Mbps / CBR], HN (Mbps / VBR), LE 12.5 Mbps / VBR] SD*: SD*: DVBs; / CBR, HN (Mbps / VBR), LE 12.5 Mbps / VBR] 	Yes MPEG2 (Motion Image) SP (SMbps/VBR), SP (SMbps/VBR), LP (2.5Mbps/VBR) SP (SMbps/VBR), LP (10Mbps/VBR), LP (2.5Mbps/VBR), LP (2.5Mbps/VBR), —	Max.999 stills           Yes           MPEG2 (Motion Image)           XP [10Mbps/VRR], SP [SMbps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR], SP [SMbps/VBR], SP [SMbps/VBR], SP [SMbps/VBR], LP [2.5Mbps/VBR], SP [SMbps/VBR]	Yes MPE62 (Motion Image) XP (10Mbps/VBR), SP (SMbps/VBR), LP (2.SMbps/VBR), SP (SMbps/VBR), LP (2.SMbps/VBR), LP (2.SMbps/VBR), -	Yes MPEG2 (Motion Image) XP 110Maps/VBR], LP 12.Maps/VBR], LP 12.SMaps/VBR, SP 15Maps/VBR, LP 12.SMaps/VBR, LP 12.SMaps/VBR, 	Yes MPEG2 (Motion Image) XP (10Mps/VBR), XP (10Mps/VBR), LP (2.5Mps/VBR), XP (10Mps/VBR), SP (5Mps/VBR), LP (2.5Mps/VBR), LP (2.5Mps/VBR), —	Yes MPEG2 [Motion Image] XP [10Mbps/NBR], SP [10Mbps/NBR], LP [2.5Mbps/VBR], SP [5Mbps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR],	Max 999 stills Yes DVC-SD SP/LP SP/LP Max. 20 x Speed	SP/LP SP/LP Max. 20 x Speed
Bridge CORDING SECTION mat cording Mode yback Mode iable Speed Search dio Recording System	Yes           AVCHD [Motion Image]           HD*: HA (17 Mbps / VBR),           HG (13 Mbps / VBR),           HK (9 Mbps / VBR),           HE (6 Mbps / VBR),           HD*: HA (17 Mbps / VBR),           HG (13 Mbps / VBR),           HG (14 Mbps / VBR),           HG (16 Mbps / VBR),           HG (16 Mbps / VBR),           HG (16 Mbps / VBR),           HE (6 Mbps / VBR),	Max.999 stills           Yes           AVCHD [Motion Image]           HD*: HA 117 Mbps / VBR], HG 113 Mbps / VBR], HE 16 Mbps / VBR], HE 16 Mbps / VBR], HE 16 Mbps / VBR], HG 113 Mbps / VBR], HG 113 Mbps / VBR],	Max.999 stills Yes HD*, AVCHD [Motion Image] STD*: DVD video Recording [Moving Picture HD*: HG [13 Mbps / CBR], HN (Mbps / VBR), HE [6 Mbps / VBR] SD*: SD*: DVBs; / CBR], HD*: HG [13 Mbps / CBR], HN (Mbps / VBR), LE 12.5 Mbps / VBR] SD*: SD*: DVBs; / CBR, HN (Mbps / VBR), LE 12.5 Mbps / VBR] 	Yes MPE62 [Motion Image] XP [10Mbpc/VBR], LP [2.5Mbps/VBR] XP [10Mbps/VBR] XP [10Mbps/VBR],	Max.999 stills           Yes           MPEG2 (Motion Image)           XP [10Mbps/VRR], SP [SMbps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR], SP [SMbps/VBR], SP [SMbps/VBR], SP [SMbps/VBR], LP [2.5Mbps/VBR], SP [SMbps/VBR]	Yes MPE62 (Motion Image) XP (10Mbps/VBR), SP (SMbps/VBR), LP (2.SMbps/VBR), SP (SMbps/VBR), LP (2.SMbps/VBR), LP (2.SMbps/VBR), -	Yes MPEG2 (Motion Image) XP (10Mpps/VBR), SP (5Mps/VBR), LP (25Mps/VBR) XP (10Mps/VBR), SP (5Mps/VBR).	Yes MPEG2 (Motion Image) XP (10Mps/VBR), XP (10Mps/VBR), LP (2.5Mps/VBR), XP (10Mps/VBR), SP (5Mps/VBR), LP (2.5Mps/VBR), LP (2.5Mps/VBR), —	Yes MPEG2 [Motion Image] XP [10Mbps/NBR], SP [10Mbps/NBR], LP [2.5Mbps/VBR], SP [5Mbps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR],	Max 999 stills Yes DVC-SD SP/LP SP/LP Max. 20 x Speed PCM 12 bit 4 ch/ 16 bit 2 ch	SP/LP SP/LP Max. 20 x Speed
Bridge 20RDING SECTION mat cording Mode yback Mode iable Speed Search dio Recording System dio Dubbing	Yes           AVCHD [Motion Image]           HD*: HA [17 Mbps / VBR], HG [13 Mbps / VBR], HG [13 Mbps / VBR], HE [6 Mbps / VBR], HE [6 Mbps / VBR], HG [13 Mbps / VBR], HG [13 Mbps / VBR], HE [6 Mbps / VBR]           —         —           Dolby Digital [Dolby AC3] / 5.1-channel —	Max.999 stills Yes AVCHD [Motion Image] HD*: HA 117 Mbps / VBR], HG 113 Mbps / VBR], HX (9 Mbps / VBR], HE (6 Mbps / VBR], HD *: HA 117 Mbps / VBR], HC (13 Mbps / VBR], HX (9 Mbps / VBR], Dolby Digital [Dolby AC3] / 5.1-channel —	Max. 999 stills Yes HD*, AVCHD [Motion Image] STD*. DVD Video Recording [Moving Picture STD*. IDVD Video Recording [Moving Picture HD*, HG 13 Mps / CBR], H19 (Maps / VBR], LF [12,5 Mps / VBR] STD*. XP 110 Mps / VBR], LF [12,5 Mps / VBR] STD*. XP 110 Mps / VBR], LF [12,5 Mps / VBR] — Dolby Digital [Dolby AC3] / 2-channel —	Yes MPEG2 [Motion Image] XP [10Mps/VRR], SP [SMps/VRR], IP [2.SMps/VRR], XP [10Mps/VRR], SP [SMps/VRR], IP [2.SMps/VRR], IP [2.SMps/VRR], Dobs/Digital [Doby AC3] / MPEG1-Layer2 -	Max.999 stills           Yes           MPEG2 (Motion Image)           XP [10Mbps/VBR], EP (25Mps/VBR], EP (25Mps/VBR], EP (25Mps/VBR], EP (25Mps/VBR], EP (25Mps/VBR], EP (25Mps/VBR), EP	Yes MPEG2 (Motion Image) XP 110Mbps/VBR), SP (SMbps/VBR), LP 12.5Mbps/VBR), XP (10Mbps/VBR), SP (SMbps/VBR), LP 12.5Mbps/VBR), — — — — Dolby Digital (Dolby AC3) / MPEG1-Layer; —	Yes           MPE62 (Motion Image)           XP 110Mps/VBR), SP (SMps/VBR), LP 12.SMps/VBR), SP (SMps/VBR), LP 12.SMps/VBR), LP 12.SMps/VBR), LP 12.SMps/VBR), Dolby Digital (2 ch) / MPEG1 AudioLayer?	Yes MPEG2 [Motion Image] XP [10Mbps/VBR], SP [SMbps/VBR], LP [2.5Mbps/VBR], XP [10Mbps/VBR], SP [SMbps/VBR], LP [2.5Mbps/VBR], D [2.5Mbps/VBR],  	Yes MPEG2 [Motion Image] XP [10Mbps/VBR], SP [SMbps/VBR], LP [2.SMbps/VBR] XP [10Mbps/VBR], SP [SMbps/VBR], LP [2.SMbps/VBR] - Dobby Digital [2 ch]	Max 999 stills Yes DVC-SD SP/LP SP/LP Max. 20 x Speed PCM 12 bit 4 ch/16 bit 2 ch Yes (only inner mic)	SP/LP SP/LP Max. 20 x Speed PCM 12 bit 4 ch/ 16 bit 2 ch —
Bridge 20RDING SECTION mat cording Mode yback Mode iable Speed Search dio Recording System dio Dubbing unter	Yes           AVCHD [Motion Image]           HD*: HA (17 Mbps / VBR),           HG (13 Mbps / VBR),           HS (9 Mbps / VBR),           HD*: HA (17 Mbps / VBR),           HG (13 Mbps / VBR),           HG (14 Mbps / VBR),           HG (14 Mbps / VBR),           HG (14 Mbps / VBR),           HG (15 Mbps / VBR),           HG (14 Mbps / VBR),           HE (6 Mbps / VBR),           HE (6 Mbps / VBR),           HE (16 Mbps / V	Max.999 stills Yes AVCHD [Motion Image] HD*: HA (17 Mbps / VBR], HG (13 Mbps / VBR], HE (6 Mbps / VBR], HE (6 Mbps / VBR], HG (13 Mbps / VBR], HG (13 Mbps / VBR], HE (6 Mbps / VBR], HE (6 Mbps / VBR], HE (6 Mbps / VBR], HE (6 Mbps / VBR],	Max.999 stills Yes HD*, AVCHD [Motion Image] STD*: DVD video Recording [Moving Picture HD*: HG [13 Mbps / CBR], HN (Mbps / VBR), HE [6 Mbps / VBR] SD*: SD*: DVBs; / CBR], HD*: HG [13 Mbps / CBR], HN (Mbps / VBR), LE 12.5 Mbps / VBR] SD*: SD*: DVBs; / CBR, HN (Mbps / VBR), LE 12.5 Mbps / VBR] 	Yes MPEG2 (Motion Image) XP 10Mps/VBR), SP 16Mps/VBR), LP (2.5Mps/VBR), XP 10Mps/VBR), LP (2.5Mps/VBR), LP (2.5Mps/VBR), LP (2.5Mps/VBR), Doby Digital (Doby AC3) / MPEG1-Layer2 — —	Max.999 stills           Yes           MPEG2 (Motion Image)           XP [10Mbps/VRR], SP [SMbps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR], SP [SMbps/VBR], SP [SMbps/VBR], SP [SMbps/VBR], LP [2.5Mbps/VBR], SP [SMbps/VBR]	Yes MPE62 (Motion Image) XP (10Mbps/VBR), SP (SMbps/VBR), LP (2.SMbps/VBR), SP (SMbps/VBR), LP (2.SMbps/VBR), LP (2.SMbps/VBR), -	Yes           MPEG2 (Motion Image)           29 [10Mbps/VBR], SP [3Mbps/VBR], LP [2.5Mbps/VBR], SP [5Mbps/VBR], LP [2.5Mbps/VBR], 29 [5Mbps/VBR], 	Yes MPEG2 (Motion Image) XP (10Mps/VBR), XP (10Mps/VBR), LP (2.5Mps/VBR), XP (10Mps/VBR), SP (5Mps/VBR), LP (2.5Mps/VBR), LP (2.5Mps/VBR), —	Yes MPEG2 [Motion Image] XP [10Mbps/NBR], SP [10Mbps/NBR], LP [2.5Mbps/VBR], SP [5Mbps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR],	Max 999 stills Yes DVC-SD SP/LP SP/LP Max. 20 x Speed PCM 12 bit 4 ch/ 16 bit 2 ch	SP/LP SP/LP Max. 20 x Speed
Bridge SORDING SECTION mat ording Mode /back Mode iable Speed Search io Recording System io Dubbing nter ia Remaining Indication	Yes           AVCHD [Motion Image]           HD": HA [17 Mbps / VBR], HG [13 Mbps / VBR], HS [9 Mbps / VBR], HE [6 Mbps / VBR], HD": HA [17 Mbps / VBR], HD": HA [17 Mbps / VBR], HX [9 Mbps / VBR], HX [9 Mbps / VBR], HZ [9 Mbps / VBR]              Dolby Digital [Dolby AC3] / 5.1-channel Yes	Max.999 stills Yes AVCHD [Motion Image] HD*: HA 117 Mbps / VBR], H16 113 Mbps / VBR], HX (9 Mbps / VBR], H2 (6 Mbps / VBR], HD :: HA 117 Mbps / VBR], H2 (6 Mbps / VBR), H2 (6 Mbps / VB	Max. 999 stills Max. 999 stills HD*, AVCHD [Motion Image] STD*, DVD Video Recording [Moving Picture HD*, HG 13 Mps / CBR], H19 (Maps, VBR], LF [L2 Mps / VBR] STD*, ZP 110 Mps / VBR], LF [L2 Mps / VBR] HD*, HG 13 Mps / VBR], LF [L2 Mps / VBR] STD*, ZP 110 Mps / VBR], LF [L2 Mps / VBR] - Dolby Digital [Dolby AC3] / 2-channel - Yes	Yes MPEG2 (Motion Image) XP [10Mps/VRR], SP [SMps/VRR], LP [2.5Mps/VRR], SP [SMps/VRR], LP [2.5Mps/VRR], LP [2.5Mps/VRR], LP [2.5Mps/VRR],   Dolby Digital [Dolby AC3] / MPEG1-Layer2  Yes Yes	Max.999 stills Yes MPEG2 (Motion Image) XP (10Mbps/VBR), SP (SMbps/VBR), LP (2.5Mbps/VBR), SP (SMbps/VBR), LP (2.5Mbps/VBR), LP (2.5Mbps/VBR), LP (2.5Mbps/VBR), P (2.5Mbps/VBR), LP (2.5Mbps/VB	Yes MPEG2 (Motion Image) XP 110Mbps/VBR], SP (5Mbps/VBR], LP 12.5Mbps/VBR], SP (5Mbps/VBR], LP 12.5Mbps/VBR], LP 12.5Mbps/VBR], — — Dolty Digital (Dolty AC3) / MPEG1-Layer2 — Yes Yes	Yes           MPE62 [Motion Image]           XP [10Mbps/VBR], SP [5Mbps/VBR], LP [2.5Mbps/VBR], SP [5Mbps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR], 2         Dolby Digital [2 ch] / MPE61 AudioLayer2 -         -           Yes         Yes	Yes MPEG2 [Motion Image] XP [10Mps/VBR], SP [SMps/VBR], LP [2.5Mps/VBR], SP [SMps/VBR], LP [10Mps/VBR], LP [10Mps/VBR], LP [10Mps/VBR], Dolby Digital [2 ch] / MPEG1 AudioLayer2 - - Yes Yes	Yes           MPEG2 [Motion Image]           XP [10Mbps/VBR], SP [5Mbps/VBR], LP [2.5Mbps/VBR], SP [5Mbps/VBR], LP [2.5Mbps/VBR], D [2.5Mbps/VBR]              -           Ves           Yes	Max 999 stills Yes DVC-SD SP/LP SP/LP Max. 20 x Speed PCM 12 bit 4 ch/16 bit 2 ch Yes lonly inner micl Time Code Yes	SP/LP SP/LP Max. 20 x Speed PCM 12 bit 4 ch/ 16 bit 2 c - Time Code Yes
Bridge SORDING SECTION mat ording Mode yback Mode iable Speed Search lio Recording System lio Dubbing Inter dia Remaining Indication ERFACES	Yes           AVCHD [Motion Image]           HD*: HA (17 Mbps / VBR),           HG (13 Mbps / VBR),           HG (14 Mbps / VBR),           HG (15 Mbps / VBR),           HG (14 Mbps / VBR),           HG (15 Mbps / VBR),           HE [6 Mbps / VBR],           HE [7 Mbps / VBR],           HE [8 Mbps / VBR],           HE [9 Mbps / VBR], <tr< td=""><td>Max.999 stills           Yes           AVCHD (Motion Image]           HD*: H4 (17 Mbps / VBR), H5 (13 Mbps / VBR), H5 (13 Mbps / VBR), H6 (13 Mbps / VBR), H6 (13 Mbps / VBR), H7 (14 Mbps / VBR), H7 (16 Mbp</td><td>Max.999 stills Yes HD*, AVCHD [Motion Image] ST0*, DVD Valeo Recording [Moving Picture H0*, H0 (13 Mpps / DBN], H1 (9 Maps / VBR], L9 (12, 5 Mpps / VBR], ST0*, XP (10 Mpps / VBR], L9 (12, 5 Mpps / VBR], H0*, H0 (13 Mpps / VBR], L9 (12, 5 Mpps / VBR], ST0*, XP (10 Mpps / VBR], L9 (12, 5 Mpps / VBR], Dolby Digital [Dolby AC3] / 2-channel Yes Out</td><td>Yes MPEG2 (Motion Image) XP 10Mps/VBR), SP 16Mps/VBR), LP (2.5Mps/VBR), XP 10Mps/VBR), LP (2.5Mps/VBR), LP (2.5Mps/VBR), LP (2.5Mps/VBR), - Doby Digital (Doby AC3) / MPEG1-Layer2 - Yes Yes Out</td><td>Max.999 stills Yes MPEG2 (Motion Image) XP (10Mbps/VBR), SP (5Mbps/VBR), LP (2.5Mbps/VBR), LP (2.5Mbps/VBR), SP (5Mbps/VBR), LP (2.5Mbps/VBR), LP (2.5Mbps/VBR), P (10Mbps/VBR), SP (5Mbps/VBR), P (10Mbps/VBR), SP (5Mbps/VBR), P (10Mbps/VBR), SP (5Mbps/VBR), SP (5Mbps/VBR</td><td>Yes MPE62 (Motion Image) XP (10Mbps/VBR), SP (15Mbps/VBR), LP (2.5Mbps/VBR), SP (15Mbps/VBR), SP (15Mbps/VBR), LP (2.5Mbps/VBR), - Dolby Digital (Dolby AC3) / MPE61-Layer: - Yes Yes Out</td><td>Yes           MPE62 (Motion Image)           29 [10Mbps/VBR], 29 [10Mbps/VBR], 12 [25Mbps/VBR], 29 [15Mbps/VBR], 29 [15Mbps/VBR], 29 [15Mbps/VBR], 20 [12 [25], 20 [12 [12 [25], 20 [12 [12 [12 [12 [12 [12 [12 [12 [12 [12</td><td>Yes MPEG2 [Motion Image] SP [SMbps/VBR], SP [SMbps/VBR], LP [2.5Mbps/VBR], SP [SMbps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR], — Dotby Digital [2 ch] / MPEG1 AudioLayer2 Yes Yes Dut</td><td>Yes           MPEG2 [Motion Image]           XP [10Mbps/VBR],           SP [10Mbps/VBR],           LP [2.5Mbps/VBR],           SP [6Mbps/VBR],           LP [2.5Mbps/VBR],           LP [2.5Mbps/VBR],           LP [2.5Mbps/VBR],           LP [2.5Mbps/VBR],           SP [6Mbps/VBR],           LP [2.5Mbps/VBR],           LP [2.5Mbps/VBR],           Vel [2.5mbps/VBR],           Vel [2.5mbps/VBR],           Vel [2.5mbps/VBR],           Vel [2.5mbps/VBR],           Vel [2.5mbps/VBR],           Vel [2.5mbps/VBR],           Out</td><td>Max 999 stills Yes DVC-SD SP/LP Max. 20 x Speed PCM 12 bit 4 ch/ 16 bit 2 ch Yes (only inner mic) Time Code Yes</td><td>SP/LP SP/LP Max. 20 x Speed PCM 12 bit 4 ch/ 16 bit 2 ct  Time Code Yes Out</td></tr<>	Max.999 stills           Yes           AVCHD (Motion Image]           HD*: H4 (17 Mbps / VBR), H5 (13 Mbps / VBR), H5 (13 Mbps / VBR), H6 (13 Mbps / VBR), H6 (13 Mbps / VBR), H7 (14 Mbps / VBR), H7 (16 Mbp	Max.999 stills Yes HD*, AVCHD [Motion Image] ST0*, DVD Valeo Recording [Moving Picture H0*, H0 (13 Mpps / DBN], H1 (9 Maps / VBR], L9 (12, 5 Mpps / VBR], ST0*, XP (10 Mpps / VBR], L9 (12, 5 Mpps / VBR], H0*, H0 (13 Mpps / VBR], L9 (12, 5 Mpps / VBR], ST0*, XP (10 Mpps / VBR], L9 (12, 5 Mpps / VBR], Dolby Digital [Dolby AC3] / 2-channel Yes Out	Yes MPEG2 (Motion Image) XP 10Mps/VBR), SP 16Mps/VBR), LP (2.5Mps/VBR), XP 10Mps/VBR), LP (2.5Mps/VBR), LP (2.5Mps/VBR), LP (2.5Mps/VBR), - Doby Digital (Doby AC3) / MPEG1-Layer2 - Yes Yes Out	Max.999 stills Yes MPEG2 (Motion Image) XP (10Mbps/VBR), SP (5Mbps/VBR), LP (2.5Mbps/VBR), LP (2.5Mbps/VBR), SP (5Mbps/VBR), LP (2.5Mbps/VBR), LP (2.5Mbps/VBR), P (10Mbps/VBR), SP (5Mbps/VBR), P (10Mbps/VBR), SP (5Mbps/VBR), P (10Mbps/VBR), SP (5Mbps/VBR), SP (5Mbps/VBR	Yes MPE62 (Motion Image) XP (10Mbps/VBR), SP (15Mbps/VBR), LP (2.5Mbps/VBR), SP (15Mbps/VBR), SP (15Mbps/VBR), LP (2.5Mbps/VBR), - Dolby Digital (Dolby AC3) / MPE61-Layer: - Yes Yes Out	Yes           MPE62 (Motion Image)           29 [10Mbps/VBR], 29 [10Mbps/VBR], 12 [25Mbps/VBR], 29 [15Mbps/VBR], 29 [15Mbps/VBR], 29 [15Mbps/VBR], 20 [12 [25], 20 [12 [12 [25], 20 [12 [12 [12 [12 [12 [12 [12 [12 [12 [12	Yes MPEG2 [Motion Image] SP [SMbps/VBR], SP [SMbps/VBR], LP [2.5Mbps/VBR], SP [SMbps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR], — Dotby Digital [2 ch] / MPEG1 AudioLayer2 Yes Yes Dut	Yes           MPEG2 [Motion Image]           XP [10Mbps/VBR],           SP [10Mbps/VBR],           LP [2.5Mbps/VBR],           SP [6Mbps/VBR],           LP [2.5Mbps/VBR],           LP [2.5Mbps/VBR],           LP [2.5Mbps/VBR],           LP [2.5Mbps/VBR],           SP [6Mbps/VBR],           LP [2.5Mbps/VBR],           LP [2.5Mbps/VBR],           Vel [2.5mbps/VBR],           Vel [2.5mbps/VBR],           Vel [2.5mbps/VBR],           Vel [2.5mbps/VBR],           Vel [2.5mbps/VBR],           Vel [2.5mbps/VBR],           Out	Max 999 stills Yes DVC-SD SP/LP Max. 20 x Speed PCM 12 bit 4 ch/ 16 bit 2 ch Yes (only inner mic) Time Code Yes	SP/LP SP/LP Max. 20 x Speed PCM 12 bit 4 ch/ 16 bit 2 ct  Time Code Yes Out
Bridge 20RDING SECTION mat cording Mode yback Mode iable Speed Search dio Recording System dio Dubbing unter dia Remaining Indication ERFACES MI	Yes           AVCHD [Motion Image]           HD*: HA (17 Mbps / VBR),           HG (13 Mbps / VBR),           HG (14 Mbps / VBR),           HG (15 Mbps / VBR),           HG (14 Mbps / VBR),           HG (15 Mbps / VBR),           HE [6 Mbps / VBR],           HE [7 Mbps / VBR],           HE [8 Mbps / VBR],           HE [9 Mbps / VBR], <tr< td=""><td>Max.999 stills Yes AVCHD [Motion Image] HD*: HA 117 Mbps / VBR], H16 113 Mbps / VBR], HX (9 Mbps / VBR], H2 (6 Mbps / VBR], HD :: HA 117 Mbps / VBR], H2 (6 Mbps / VBR), H2 (6 Mbps / VB</td><td>Max. 999 stills Max. 999 stills HD*, AVCHD [Motion Image] STD*, DVD Video Recording [Moving Picture HD*, HG 13 Mps / CBR], H19 (Maps, VBR], LF [L2 Mps / VBR] STD*, ZP 110 Mps / VBR], LF [L2 Mps / VBR] HD*, HG 13 Mps / VBR], LF [L2 Mps / VBR] STD*, ZP 110 Mps / VBR], LF [L2 Mps / VBR] - Dolby Digital [Dolby AC3] / 2-channel - Yes</td><td>Yes MPEG2 (Motion Image) XP 10Mps/VBR), SP 16Mps/VBR), LP (2.5Mps/VBR), XP 10Mps/VBR), LP (2.5Mps/VBR), LP (2.5Mps/VBR), LP (2.5Mps/VBR), - Doby Digital (Doby AC3) / MPEG1-Layer2 - Yes Yes Out</td><td>Max.999 stills Yes MPEG2 (Motion Image) XP (10Mbps/VBR), SP (SMbps/VBR), LP (2.5Mbps/VBR), SP (SMbps/VBR), LP (2.5Mbps/VBR), LP (2.5Mbps/VBR), LP (2.5Mbps/VBR), P (2.5Mbps/VBR), LP (2.5Mbps/VB</td><td>Yes MPEG2 (Motion Image) XP 110Mbps/VBR], SP (5Mbps/VBR], LP 12.5Mbps/VBR], SP (5Mbps/VBR], LP 12.5Mbps/VBR], LP 12.5Mbps/VBR], — — Dolty Digital (Dolty AC3) / MPEG1-Layer2 — Yes Yes</td><td>Yes MPE62 [Motion Image] XP [10Mbps/VBR], SP [SMbps/VBR], LP [25Mbps/VBR] XP [10Mbps/VBR], LP [25Mbps/VBR] = 2 Dolby Digital [2 ch] / MPE61 AudioLayer2  2 Dolby Digital [2 ch] / MPE61 AudioLayer2 Yes Yes Yes Dut </td><td>Yes MPEG2 [Motion Image] XP [10Mps/VBR], SP [SMps/VBR], LP [2.5Mps/VBR], SP [SMps/VBR], LP [10Mps/VBR], LP [10Mps/VBR], LP [10Mps/VBR], Dolby Digital [2 ch] / MPEG1 AudioLayer2 - - Yes Yes</td><td>Yes           MPEG2 [Motion Image]           XP [10Mbps/VBR], SP [5Mbps/VBR], LP [2.5Mbps/VBR], SP [5Mbps/VBR], LP [2.5Mbps/VBR], D [2.5Mbps/VBR]              -           Ves           Yes</td><td>Max 999 stills Yes DVC-SD SP/LP SP/LP Max. 20 x Speed PCM 12 bit 4 ch/ 16 bit 2 ch Yes (only inner mic) Time Code Yes Out —</td><td>SP/LP SP/LP Max. 20 x Speed PCM 12 bit 4 ch/ 16 bit 2 cl — Time Code Yes</td></tr<>	Max.999 stills Yes AVCHD [Motion Image] HD*: HA 117 Mbps / VBR], H16 113 Mbps / VBR], HX (9 Mbps / VBR], H2 (6 Mbps / VBR], HD :: HA 117 Mbps / VBR], H2 (6 Mbps / VBR), H2 (6 Mbps / VB	Max. 999 stills Max. 999 stills HD*, AVCHD [Motion Image] STD*, DVD Video Recording [Moving Picture HD*, HG 13 Mps / CBR], H19 (Maps, VBR], LF [L2 Mps / VBR] STD*, ZP 110 Mps / VBR], LF [L2 Mps / VBR] HD*, HG 13 Mps / VBR], LF [L2 Mps / VBR] STD*, ZP 110 Mps / VBR], LF [L2 Mps / VBR] - Dolby Digital [Dolby AC3] / 2-channel - Yes	Yes MPEG2 (Motion Image) XP 10Mps/VBR), SP 16Mps/VBR), LP (2.5Mps/VBR), XP 10Mps/VBR), LP (2.5Mps/VBR), LP (2.5Mps/VBR), LP (2.5Mps/VBR), - Doby Digital (Doby AC3) / MPEG1-Layer2 - Yes Yes Out	Max.999 stills Yes MPEG2 (Motion Image) XP (10Mbps/VBR), SP (SMbps/VBR), LP (2.5Mbps/VBR), SP (SMbps/VBR), LP (2.5Mbps/VBR), LP (2.5Mbps/VBR), LP (2.5Mbps/VBR), P (2.5Mbps/VBR), LP (2.5Mbps/VB	Yes MPEG2 (Motion Image) XP 110Mbps/VBR], SP (5Mbps/VBR], LP 12.5Mbps/VBR], SP (5Mbps/VBR], LP 12.5Mbps/VBR], LP 12.5Mbps/VBR], — — Dolty Digital (Dolty AC3) / MPEG1-Layer2 — Yes Yes	Yes MPE62 [Motion Image] XP [10Mbps/VBR], SP [SMbps/VBR], LP [25Mbps/VBR] XP [10Mbps/VBR], LP [25Mbps/VBR] = 2 Dolby Digital [2 ch] / MPE61 AudioLayer2  2 Dolby Digital [2 ch] / MPE61 AudioLayer2 Yes Yes Yes Dut 	Yes MPEG2 [Motion Image] XP [10Mps/VBR], SP [SMps/VBR], LP [2.5Mps/VBR], SP [SMps/VBR], LP [10Mps/VBR], LP [10Mps/VBR], LP [10Mps/VBR], Dolby Digital [2 ch] / MPEG1 AudioLayer2 - - Yes Yes	Yes           MPEG2 [Motion Image]           XP [10Mbps/VBR], SP [5Mbps/VBR], LP [2.5Mbps/VBR], SP [5Mbps/VBR], LP [2.5Mbps/VBR], D [2.5Mbps/VBR]              -           Ves           Yes	Max 999 stills Yes DVC-SD SP/LP SP/LP Max. 20 x Speed PCM 12 bit 4 ch/ 16 bit 2 ch Yes (only inner mic) Time Code Yes Out —	SP/LP SP/LP Max. 20 x Speed PCM 12 bit 4 ch/ 16 bit 2 cl — Time Code Yes
tBridge CORDING SECTION rmat cording Mode	Yes           AVCHD [Motion Image]           HD*: HA (17 Mbps / VBR),           HG (13 Mbps / VBR),           HG (14 Mbps / VBR),           HG (15 Mbps / VBR),           HG (14 Mbps / VBR),           HG (15 Mbps / VBR),           HE [6 Mbps / VBR],           HE [7 Mbps / VBR],           HE [8 Mbps / VBR],           HE [9 Mbps / VBR], <tr< td=""><td>Max.999 stills           Yes           AVCHD (Motion Image]           HD*: H4 (17 Mbps / VBR), H5 (13 Mbps / VBR), H5 (13 Mbps / VBR), H6 (13 Mbps / VBR), H6 (13 Mbps / VBR), H7 (14 Mbps / VBR), H7 (16 Mbp</td><td>Max. 999 stills Yes HD*, AVCHD [Motion Image] STD*, DVD Video Recording [Moving Picture HD*, HG 113 Mps / CBR], H10 (Mbg / VBR], LF [L2 Mbgs / VBR] STD*, XP [10 Mbg, VBR], LF [L2 Mbgs / VBR] HD*, HG (13 Mbgs / CBR], HD*, HG (13 Mbgs / CBR], HD*, HG (13 Mbgs / VBR], D*, Doby Digital [Dolby AC3] / 2-channel Yes Out Yes</td><td>Yes MPEG2 (Motion Image) XP 10Mps/VBR), SP 16Mps/VBR), LP (2.5Mps/VBR), XP 10Mps/VBR), LP (2.5Mps/VBR), LP (2.5Mps/VBR), LP (2.5Mps/VBR), - Doby Digital (Doby AC3) / MPEG1-Layer2 - Yes Yes Out</td><td>Max.999 stills Yes MPEG2 (Motion Image) XP (10Mbps/VBR), SP (5Mbps/VBR), LP (2.5Mbps/VBR), ZP (10Mbps/VBR), SP (5Mbps/VBR), LP (2.5Mbps/VBR), LP (2.5Mbps/VBR), P (10Mbps/VBR), SP (5Mbps/VBR), P (10Mbps/VBR), SP (5Mbps/VBR), P (10Mbps/VBR), SP (5Mbps/VBR), SP (5Mbps/VBR)</td><td>Yes MPE62 (Motion Image) XP (10Mbps/VBR), SP (15Mbps/VBR), LP (2.5Mbps/VBR), SP (15Mbps/VBR), SP (15Mbps/VBR), LP (2.5Mbps/VBR), - Dolby Digital (Dolby AC3) / MPE61-Layer: - Yes Yes Out</td><td>Yes           MPE62 [Motion Image]           XP 110Mbps/VBR], SP (5Mbps/VBR], LP 12.5Mbps/VBR], SP (5Mbps/VBR], LP 12.5Mbps/VBR], LP 12.5Mbps/VBR],            2         Dolby Digital [2 ch] / MPE61 AudioLayer2            -         Yes           0ut         -           -         -</td><td>Yes MPEG2 [Motion Image] XP [10Mps/VBR], SP [SMps/VBR], LP [2:Mps/VBR], SP [10Mps/VBR], P [10Mps/VBR], LP [2:Mps/VBR], - Dolby Digital [2 ch] / MPEG1 AudioLayer2 - Yes Yes Yes</td><td>Yes           MPEG2 [Motion Image]           XP [10Mbps/VBR],           SP [10Mbps/VBR],           LP [2.5Mbps/VBR],           SP [6Mbps/VBR],           LP [2.5Mbps/VBR],           LP [2.5Mbps/VBR],           LP [2.5Mbps/VBR],           LP [2.5Mbps/VBR],           SP [6Mbps/VBR],           LP [2.5Mbps/VBR],           LP [2.5Mbps/VBR],           Yes           Out</td><td>Max 999 stills Yes DVC-SD SP/LP Max. 20 x Speed PCM 12 bit 4 ch/ 16 bit 2 ch Yes (only inner mic) Time Code Yes</td><td>SP/LP SP/LP Max. 20 x Speed PCM 12 bit 4 ch/ 16 bit 2 ct  Time Code Yes Out</td></tr<>	Max.999 stills           Yes           AVCHD (Motion Image]           HD*: H4 (17 Mbps / VBR), H5 (13 Mbps / VBR), H5 (13 Mbps / VBR), H6 (13 Mbps / VBR), H6 (13 Mbps / VBR), H7 (14 Mbps / VBR), H7 (16 Mbp	Max. 999 stills Yes HD*, AVCHD [Motion Image] STD*, DVD Video Recording [Moving Picture HD*, HG 113 Mps / CBR], H10 (Mbg / VBR], LF [L2 Mbgs / VBR] STD*, XP [10 Mbg, VBR], LF [L2 Mbgs / VBR] HD*, HG (13 Mbgs / CBR], HD*, HG (13 Mbgs / CBR], HD*, HG (13 Mbgs / VBR], D*, Doby Digital [Dolby AC3] / 2-channel Yes Out Yes	Yes MPEG2 (Motion Image) XP 10Mps/VBR), SP 16Mps/VBR), LP (2.5Mps/VBR), XP 10Mps/VBR), LP (2.5Mps/VBR), LP (2.5Mps/VBR), LP (2.5Mps/VBR), - Doby Digital (Doby AC3) / MPEG1-Layer2 - Yes Yes Out	Max.999 stills Yes MPEG2 (Motion Image) XP (10Mbps/VBR), SP (5Mbps/VBR), LP (2.5Mbps/VBR), ZP (10Mbps/VBR), SP (5Mbps/VBR), LP (2.5Mbps/VBR), LP (2.5Mbps/VBR), P (10Mbps/VBR), SP (5Mbps/VBR), P (10Mbps/VBR), SP (5Mbps/VBR), P (10Mbps/VBR), SP (5Mbps/VBR), SP (5Mbps/VBR)	Yes MPE62 (Motion Image) XP (10Mbps/VBR), SP (15Mbps/VBR), LP (2.5Mbps/VBR), SP (15Mbps/VBR), SP (15Mbps/VBR), LP (2.5Mbps/VBR), - Dolby Digital (Dolby AC3) / MPE61-Layer: - Yes Yes Out	Yes           MPE62 [Motion Image]           XP 110Mbps/VBR], SP (5Mbps/VBR], LP 12.5Mbps/VBR], SP (5Mbps/VBR], LP 12.5Mbps/VBR], LP 12.5Mbps/VBR], 2         Dolby Digital [2 ch] / MPE61 AudioLayer2 -         Yes           0ut         -           -         -	Yes MPEG2 [Motion Image] XP [10Mps/VBR], SP [SMps/VBR], LP [2:Mps/VBR], SP [10Mps/VBR], P [10Mps/VBR], LP [2:Mps/VBR], - Dolby Digital [2 ch] / MPEG1 AudioLayer2 - Yes Yes Yes	Yes           MPEG2 [Motion Image]           XP [10Mbps/VBR],           SP [10Mbps/VBR],           LP [2.5Mbps/VBR],           SP [6Mbps/VBR],           LP [2.5Mbps/VBR],           LP [2.5Mbps/VBR],           LP [2.5Mbps/VBR],           LP [2.5Mbps/VBR],           SP [6Mbps/VBR],           LP [2.5Mbps/VBR],           LP [2.5Mbps/VBR],           Yes           Out	Max 999 stills Yes DVC-SD SP/LP Max. 20 x Speed PCM 12 bit 4 ch/ 16 bit 2 ch Yes (only inner mic) Time Code Yes	SP/LP SP/LP Max. 20 x Speed PCM 12 bit 4 ch/ 16 bit 2 ct  Time Code Yes Out
tBridge CORDING SECTION CORDING SECTION rmat cording Mode ayback Mode riable Speed Search dio Recording System dio Dubbing unter rdia Remaining Indication TERFACES IMI Video crophone [stereo mini] adphones	Yes           AVCHD [Motion Image]           HD": HA [17 Mbps / VBR], HG [13 Mbps / VBR], HG [14 Mbps / VBR], HE [6 Mbps / VBR], HD": HA [17 Mbps / VBR], HD": HA [17 Mbps / VBR], HE [6 Mbps / VBR], HE [6 Mbps / VBR]           —         —           Dolby Digital [Dolby AC3] / 5.1-channel —           Yes           Yes           Out           Yes [min] —	Max.999 stills           Yes           AVCHD (Motion Image]           HD*: H4 (17 Mbps / VBR), H5 (13 Mbps / VBR), H5 (13 Mbps / VBR), H6 (13 Mbps / VBR), H6 (13 Mbps / VBR), H7 (14 Mbps / VBR), H7 (16 Mbp	Max.999 stills Max.999 stills HD*. AVCHD [Motion Image] STD*.DVD Video Recording [Moving Picture STD*.VDV Viel, LF (LS Mbps / VBR] STD*.VBR, LF (LS Mbps / VBR] STD*.XP 110 Mbps / VBR], LF (LS Mbps / VBR] HD*.H6 (TABAS) VBR], LF (LS Mbps / VBR] STD*.XP 110 Mbps / VBR], LF (LS Mbps / VBR] STD*.XP 110 Mbps / VBR], LF (LS Mbps / VBR] 	Yes MPEG2 (Motion Image) XP 10Mps/VBR), SP 16Mps/VBR), LP (2.5Mps/VBR), XP 10Mps/VBR), LP (2.5Mps/VBR), LP (2.5Mps/VBR), LP (2.5Mps/VBR), - Doby Digital (Doby AC3) / MPEG1-Layer2 - Yes Yes Out	Max.999 stills Yes MPEG2 (Motion Image) XP (10Mbps/VBR), SP (5Mbps/VBR), LP (2.5Mbps/VBR), ZP (10Mbps/VBR), SP (5Mbps/VBR), LP (2.5Mbps/VBR), LP (2.5Mbps/VBR), P (10Mbps/VBR), SP (5Mbps/VBR), P (10Mbps/VBR), SP (5Mbps/VBR), P (10Mbps/VBR), SP (5Mbps/VBR), SP (5Mbps/VBR)	Yes MPE62 (Motion Image) XP (10Mbps/VBR), SP (15Mbps/VBR), LP (2.5Mbps/VBR), SP (15Mbps/VBR), SP (15Mbps/VBR), LP (2.5Mbps/VBR), - Dolby Digital (Dolby AC3) / MPE61-Layer: - Yes Yes Out	Yes           MPE62 [Motion Image]           XP 110Mbps/VBR], SP (5Mbps/VBR], LP 12.5Mbps/VBR], SP (5Mbps/VBR], LP 12.5Mbps/VBR], LP 12.5Mbps/VBR], 2         Dolby Digital [2 ch] / MPE61 AudioLayer2 -         Yes           0ut         -           -         -	Yes MPEG2 [Motion Image] XP [10Mps/VBR], SP [5Mps/VBR], LP [2.5Mps/VBR], SP [5Mps/VBR], LP [10Mps/VBR], LP [12.5Mps/VBR], LP [12.5Mps/VBR],  Dolby Digital [2 ch] / MPEG1 AudioLayer2  Yes Yes Out  	Yes           MPEG2 [Motion Image]           XP [10Mbps/VBR],           SP [10Mbps/VBR],           LP [2.5Mbps/VBR],           SP [6Mbps/VBR],           LP [2.5Mbps/VBR],           LP [2.5Mbps/VBR],           LP [2.5Mbps/VBR],           LP [2.5Mbps/VBR],           SP [6Mbps/VBR],           LP [2.5Mbps/VBR],           LP [2.5Mbps/VBR],           Yes           Out	Max 999 stills Yes DVC-SD SP/LP SP/LP Max. 20 x Speed PCM 12 bit 4 ch/ 16 bit 2 ch Yes (only inner mic) Time Code Yes Out - Out (AVMulti) -	SP/LP           SP/LP           Max. 20 x Speed           PCM 12 bit 4 ch/ 16 bit 2 ct           Time Code           Yes           Out           -           -           -           -
tBridge CORDING SECTION rmat cording Mode ayback Mode riable Speed Search dio Recording System dio Dubbing unter dia Remaining Indication TERFACES MI Video crophone [stereo mini] adphones Input/Output (IEEE1394)	Yes           AVCHD [Motion Image]           HD": HA [17 Mbps / VBR], HG [13 Mbps / VBR], HG [13 Mbps / VBR], HE [6 Mbps / VBR], HD": HA [17 Mbps / VBR], HG [13 Mbps / VBR], HG [13 Mbps / VBR], HE [6 Mbps / VBR], HE [6 Mbps / VBR]              Dolby Digital [Dolby AC3] / 5.1-channel              Yes           Out           Yes [min]	Max.999 stills Yes AVCHD [Motion Image] HD*: HA 117 Mbps / VBR], H16 113 Mbps / VBR], H2 (Mbps / VBR], H2 (Mbps / VBR], H2 (Mbps / VBR], H3 (Mbps / VBR], H4 (Mbps / VBR], H4 (Mbps / VBR], H4 (Mbps / VBR], H5 (Mbps / VBR), H5 (M	Max. 999 stills Max. 999 stills HD*. AVCHD [Motion Image] STO*. DVD Video Recording [Moving Picture STO*. DVD Video Recording IMoving Picture HD*. HG 13 Mps / CBR], H19 (Maps/VBR], LF [25 Mps / VBR] HD*. HG 13 Mps / VBR], LF [25 Mps / VBR] STO*. XP 110 Mps / VBR], LF [25 Mps / VBR] STO*. XP 110 Mps / VBR], LF [25 Mps / VBR] 	Yes MPEG2 (Motion Image) XP 110Mps/VRRI, SP (SMbps/VRRI, LP 12.5Mbps/VRRI, SP (SMbps/VRRI, LP 12.5Mbps/VRRI, LP 12.5Mbps/VRRI, LP 12.5Mbps/VRRI, LP 12.5Mbps/VRRI, P 3000000000000000000000000000000000000	Max.999 stills           Yes           MPEG2 (Motion Image)           XP [10Mbps/VBR], SP [SMbps/VBR], P [2.5Mbps/VBR], L [2.5Mbps/VBR], [12.5Mbps/VBR],	Yes MPE62 (Motion Image) XP 110Mbps/VBR), SP 15Mbps/VBR], LP 12.5Mbps/VBR], LP 12.5Mbps/VBR], LP 12.5Mbps/VBR], Dolby Digital (Dolby AC3) / MPEG1-Layer; Yes Yes Out	Yes           MPE62 (Motion Image)           XP 110Mbps/VBR], SP 15Mbps/VBR], LP 12.5Mbps/VBR], SP 15Mbps/VBR], LP 12.5Mbps/VBR], LP 12.5Mbps/VBR]              2           Doby Digital [2 ch] / MPEG1 AudioLayer2              Yes           Out	Yes MPEG2 [Motion Image] MPEG2 [Motion Image] SP [SMbps/VBR], LP [2.5Mbps/VBR], SP [SMbps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR], Dotby Digital [2 ch] / MPEG1 AudioLayer2 	Yes           MPE62 [Motion Image]           XP 110Mps/VBR],           SP 15Mmps/VBR],           LP 12.5Mps/VBR],           SP 15Mmps/VBR],           LP 12.5Mps/VBR],           LP 12.5Mps/VBR],           LP 12.5Mps/VBR],           LP 12.5Mps/VBR],           Douby Digital (2 ch)           -           Yes           Dut           -           -           -           -           -           -           -           -           -           -	Max 999 stills Yes DVC-SD SP/LP SP/LP Max. 20 x Speed PCM 12 bit 4 ch/16 bit 2 ch Yes lonly inner micl Time Code Yes Out — Out (AVMulti) — In/Out	SP/LP SP/LP Max. 20 x Speed PCM 12 bit 4 ch/ 16 bit 2 cl — Time Code Yes Out — — — — — — — — — — — — —
Bridge 20RDING SECTION mat cording Mode yback Mode iable Speed Search dio Recording System dio Dubbing unter dia Remaining Indication ERFACES MI ideo rophone (stereo mini) adphones Input/Output (IEEE1394) 3	Yes           AVCHD [Motion Image]           HD*: HA (17 Mbps / VBR), HG (13 Mbps / VBR), HG (14 Mbps / VBR), HG (14 Mbps / VBR), HE [6 Mbps / VBR]           —           Dolby Digital (Dolby AC3] / 5.1-channel           —           Dolby Digital (Dolby AC3] / 5.1-channel           —           Qut           Yes           Out           —	Max.999 stills           Yes           AVCHD [Motion Image]           HD": HA 117 Mbps / VBR], HG 113 Mbps / VBR], HX 19 Mbps / VBR], HE 16 Mbps / VBR], HD": HA 117 Mbps / VBR], HD": HA 117 Mbps / VBR], HE 16 Mbps / VBR]           —           Dolby Digital [Dolby AC3] / 5.1-channel           —           Dolby Digital [Dolby AC3] / 5.1-channel           —           Outh           Yes           —      > <tr< td=""><td>Max. 999 stills Yes HD*, AVCHD [Motion Image] STD*. DVD Video Recording [Moving Picture HD*, H6 (13 Mps / CBR), H10; Mbs, VBR], LE (12 Mbps / VBR] STD*. 20 (10 Mps) / VBR], LP (12 Mbps / VBR), FB (15 Mbps / VBR], LP (12 Mbps / VBR), SP (15 Mbps / VBR), LP (12 Mbps / VBR), SP (15 Mbps / VBR), LP (12 Mbps / VBR), SP (15 Mbps / VBR), LP (12 Mbps / VBR), SP (15 Mbps / VBR), LP (12 Mbps / VBR), SP (15 Mbps / VBR), LP (12 Mbps / VBR), SP (15 Mbps / VBR), LP (12 Mbps / VBR), SP (15 Mbps / VBR), LP (12 Mbps / VBR), SP (15 Mbps / VBR), LP (12 Mbps / VBR), SP (15 Mbps / VBR), LP (12 Mbps / VBR), SP (15 Mbps / VBR), LP (12 Mbps / VBR), SP (15 Mbps / VBR), SP (15 Mbps / VBR), LP (12 Mbps / VBR), SP (15 Mbps /</td><td>Yes MPEG2 [Motion Image] XP [SMbps/VBR], SP [SMbps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR], Doby Digital [Doby AC3] / MPEG1-Layer2 </td><td>Max.999 stills Yes MPEG2 [Motion Image] XP [IMMps/VBR], SP [SMps/VBR], LP [2.5Mps/VBR] LP [2.5Mps/VBR] LP [2.5Mps/VBR] </td><td>Yes MPE62 (Motion Image) XP (10Mbps/VBR), SP (15Mbps/VBR), LP (2.5Mbps/VBR), SP (15Mbps/VBR), SP (15Mbps/VBR), LP (2.5Mbps/VBR), - Dolby Digital (Dolby AC3) / MPE61-Layer: - Yes Yes Out</td><td>Yes           MPE62 [Motion Image]           XP 110Mbps/VBR], SP (5Mbps/VBR], LP 12.5Mbps/VBR], SP (5Mbps/VBR], LP 12.5Mbps/VBR], LP 12.5Mbps/VBR],            2         Dolby Digital [2 ch] / MPE61 AudioLayer2            -         Yes           0ut         -           -         -</td><td>Yes MPEG2 [Motion Image] XP [10Mbps/VBR], SP [SMbps/VBR], LP [2.5Mbps/VBR], SP [SMbps/VBR], LP [10Mbps/VBR], LP [10Mbps/VBR], LP [10Mbps/VBR], Dolby Digital [2 ch] / MPEG1 AudioLayer2 </td><td>Yes           MPEG2 [Motion Image]           XP [10Mbps/VBR],           SP [10Mbps/VBR],           LP [2.5Mbps/VBR],           SP [6Mbps/VBR],           LP [2.5Mbps/VBR],           LP [2.5Mbps/VBR],           LP [2.5Mbps/VBR],           LP [2.5Mbps/VBR],           SP [6Mbps/VBR],           LP [2.5Mbps/VBR],           LP [2.5Mbps/VBR],           Yes           Out</td><td>Max 999 stills Yes DVC-SD SP/LP SP/LP Max. 20 x Speed PCM 12 bit 4 ch/ 16 bit 2 ch Yes (only inner mic) Time Code Yes Out - Out (AVMulti) -</td><td>SP/LP           SP/LP           Max. 20 x Speed           PCM 12 bit 4 ch/ 16 bit 2 ci           -           Time Code           Yes           Out           -           -           -           -           -</td></tr<>	Max. 999 stills Yes HD*, AVCHD [Motion Image] STD*. DVD Video Recording [Moving Picture HD*, H6 (13 Mps / CBR), H10; Mbs, VBR], LE (12 Mbps / VBR] STD*. 20 (10 Mps) / VBR], LP (12 Mbps / VBR), FB (15 Mbps / VBR], LP (12 Mbps / VBR), SP (15 Mbps / VBR), LP (12 Mbps / VBR), SP (15 Mbps / VBR), LP (12 Mbps / VBR), SP (15 Mbps / VBR), LP (12 Mbps / VBR), SP (15 Mbps / VBR), LP (12 Mbps / VBR), SP (15 Mbps / VBR), LP (12 Mbps / VBR), SP (15 Mbps / VBR), LP (12 Mbps / VBR), SP (15 Mbps / VBR), LP (12 Mbps / VBR), SP (15 Mbps / VBR), LP (12 Mbps / VBR), SP (15 Mbps / VBR), LP (12 Mbps / VBR), SP (15 Mbps / VBR), LP (12 Mbps / VBR), SP (15 Mbps / VBR), SP (15 Mbps / VBR), LP (12 Mbps / VBR), SP (15 Mbps /	Yes MPEG2 [Motion Image] XP [SMbps/VBR], SP [SMbps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR], Doby Digital [Doby AC3] / MPEG1-Layer2 	Max.999 stills Yes MPEG2 [Motion Image] XP [IMMps/VBR], SP [SMps/VBR], LP [2.5Mps/VBR] LP [2.5Mps/VBR] LP [2.5Mps/VBR] 	Yes MPE62 (Motion Image) XP (10Mbps/VBR), SP (15Mbps/VBR), LP (2.5Mbps/VBR), SP (15Mbps/VBR), SP (15Mbps/VBR), LP (2.5Mbps/VBR), - Dolby Digital (Dolby AC3) / MPE61-Layer: - Yes Yes Out	Yes           MPE62 [Motion Image]           XP 110Mbps/VBR], SP (5Mbps/VBR], LP 12.5Mbps/VBR], SP (5Mbps/VBR], LP 12.5Mbps/VBR], LP 12.5Mbps/VBR], 2         Dolby Digital [2 ch] / MPE61 AudioLayer2 -         Yes           0ut         -           -         -	Yes MPEG2 [Motion Image] XP [10Mbps/VBR], SP [SMbps/VBR], LP [2.5Mbps/VBR], SP [SMbps/VBR], LP [10Mbps/VBR], LP [10Mbps/VBR], LP [10Mbps/VBR], Dolby Digital [2 ch] / MPEG1 AudioLayer2 	Yes           MPEG2 [Motion Image]           XP [10Mbps/VBR],           SP [10Mbps/VBR],           LP [2.5Mbps/VBR],           SP [6Mbps/VBR],           LP [2.5Mbps/VBR],           LP [2.5Mbps/VBR],           LP [2.5Mbps/VBR],           LP [2.5Mbps/VBR],           SP [6Mbps/VBR],           LP [2.5Mbps/VBR],           LP [2.5Mbps/VBR],           Yes           Out	Max 999 stills Yes DVC-SD SP/LP SP/LP Max. 20 x Speed PCM 12 bit 4 ch/ 16 bit 2 ch Yes (only inner mic) Time Code Yes Out - Out (AVMulti) -	SP/LP           SP/LP           Max. 20 x Speed           PCM 12 bit 4 ch/ 16 bit 2 ci           -           Time Code           Yes           Out           -           -           -           -           -
Bridge Bridge SORDING SECTION mat ording Mode //back Mode //back Mode iable Speed Search io Recording System io Dubbing inter iia Remaining Indication ERFACES 41 iideo rophone (stereo mini) dphones input/Output (IEEE1394) 3 so Component	Yes           AVCHD [Motion Image]           HD": HA [17 Mbps / VBR], HG [13 Mbps / VBR], HG [13 Mbps / VBR], HE [6 Mbps / VBR], HD": HA [17 Mbps / VBR], HG [13 Mbps / VBR], HG [13 Mbps / VBR], HE [6 Mbps / VBR], HE [6 Mbps / VBR]              Dolby Digital [Dolby AC3] / 5.1-channel              Yes           Out           Yes [min]	Max.999 stills Yes AVCHD [Motion Image] HD*: HA 117 Mbps / VBR], H16 113 Mbps / VBR], H2 (Mbps / VBR], H2 (Mbps / VBR], H2 (Mbps / VBR], H3 (Mbps / VBR], H4 (Mbps / VBR], H4 (Mbps / VBR], H4 (Mbps / VBR], H5 (Mbps / VBR), H5 (M	Max. 999 stills Max. 999 stills HD*. AVCHD [Motion Image] STD*. DVD Video Recording [Moving Picture STD*. DVD Video Recording IMoving Picture HD*. HG 13 Mps / CBR], H19 (Maps/VBR], LF [25 Mps / VBR] HD*. HG 13 Mps / VBR], LF [25 Mps / VBR] STD*. XP 110 Mps / VBR], LF [25 Mps / VBR] STD*. XP 110 Mps / VBR], LF [25 Mps / VBR] 	Yes MPEG2 [Motion Image] XP [SMbps/VBR], SP [SMbps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR], Doby Digital [Doby AC3] / MPEG1-Layer2 	Max.999 stills           Yes           MPEG2 [Motion Image]           XP [IdMpp/VRR], LP [2.5Mbps/VRR], LP [2.5Mbps/VBR]           LP [2.5Mbps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR],           Ves	Yes MPE62 (Motion Image) XP (10Mbps/VBR), I2 (3Mbps/VBR), XP (10Mbps/VBR), SP (3Mbps/VBR), SP (3Mbps/VBR), LP (2.5Mbps/VBR),  Dolby Digital (Dolby AC3) / MPEG1-Layer/ Yes Yes Out    Hi-Speed USB (USB2.0) (mini AB)	Yes           MPE62 (Motion Image)           XP 110Mbps/VBR], SP 15Mbps/VBR], LP 12.5Mbps/VBR], SP 15Mbps/VBR], LP 12.5Mbps/VBR], LP 12.5Mbps/VBR]              2           Doby Digital [2 ch] / MPEG1 AudioLayer2              Yes           Out	Yes MPEG2 [Motion Image] MPEG2 [Motion Image] SP [SMbps/VBR], LP [2.5Mbps/VBR], SP [SMbps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR], Dotby Digital [2 ch] / MPEG1 AudioLayer2 	Yes           MPE62 [Motion Image]           XP 110Mps/VBR],           SP 15Mmps/VBR],           LP 12.5Mps/VBR],           SP 15Mmps/VBR],           LP 12.5Mps/VBR],           LP 12.5Mps/VBR],           LP 12.5Mps/VBR],           LP 12.5Mps/VBR],           Douby Digital (2 ch)           -           Yes           Dut           -           -           -           -           -           -           -           -           -           -	Max 999 stills Yes DVC-SD SP/LP Max. 20 x Speed PCM 12 bit 4 ch/ 16 bit 2 ch Yes fonly inner mic) Time Code Yes Out 	SP/LP SP/LP Max. 20 x Speed PCM 12 bit 4 ch/ 16 bit 2 c - Time Code Yes Out - - - - - - - - Inno Code - - Inno Code - - - - - - - - - - - - -
oridge ORDING SECTION anat ording Mode back Mode able Speed Search io Recording System io Dubbing net retr Ia Remaining Indication ERFACES 41 deo componen (stereo mini) dphones nput/Output (IEEE1394) io Component sosory Shoe NDARD ACCESSORIES	Yes           AVCHD [Motion Image]           HD*: HA (17 Mbps / VBR), HG (13 Mbps / VBR), HG (14 Mbps / VBR), HG (14 Mbps / VBR), HE [6 Mbps / VBR]           -           Dotby Digital (Dotby AC3] / 5.1-channel           -           Out           Yes           Out           -	Max.999 stills Yes AVCHD [Motion Image] HD:: HA (17 Mps / VRI, HX (9 Mps / VRI, HX (9 Mps / VRI, HX (9 Mps / VRI, HE (6 Mps / VRI, HB (13 Mps / VRI, HE (6 Mps / VRI,	Max. 999 stills Yes HD*, AVCHD [Motion Image] STD*. DVD Video Recording [Moving Picture ND*, Ho (13 Mps / CBR), H10 ( Mbgs / VBR), LE (12 Mbgs / VBR) STD*. XP (10 Mbgs / VBR), SP (5 Mbgs / VBR), LP (2.5 Mbgs / VBR) Dotby Digital [Dotby AC3] / 2-channel Dotby Digital [Dotby AC3] / 2-channel Dotby Digital [Dotby AC3] / 2-channel H5*es Out H5*es Ves Ves Ves Ves Ves Ves Ves Ves Ves V	Yes MPEG2 [Motion Image] XP [SMps/VBR], IP [25Mps/VBR], IP [25Mps/VBR]	Max.999 stills Yes MPEG2 [Motion Image] XP [IMMps/VRR], LP [2.5Mbps/VBR] LP [2.5Mbps/VBR] LP [2.5Mbps/VBR] LP [2.5Mbps/VBR] LP [2.5Mbps/VBR] 	Yes MPE62 (Motion Image) XP [10Mbps/VBR], SP [15Mbps/VBR], P [25Mbps/VBR], P [25Mbps/VBR], P [25Mbps/VBR], P [25Mbps/VBR], Dotby Digital (Dotby AC3) / MPEG1-Layer, Yes Out Hi-Speed USB (USB2.0) (mini AB)	Yes           MPE62 (Motion Image)           XP 110Mpps/VBR], SP 15Mmps/VBR], SP 15Mmps/VBR], SP 15Mmps/VBR], P 12.5Mmps/VBR], P 12.5Mmps/VBR], P 12.5Mmps/VBR], P 12.5Mmps/VBR], P 12.5Mmps/VBR], P 12.5Mmps/VBR, P 12.5Mmps/VBR,	Yes MPEG2 [Motion Image] XP [IMhps/VBR], P [IMhps/VBR], LP [2.5Mbps/VBR], P [IMhps/VBR], P [IMhps/VBR], D [10 [X	Yes           MPE62 [Motion Image]           XP [10Mbps/NBR], [2]           XP [12Mbps/VBR], [2]           LP [2.5Mbps/VBR], SP [5Mbps/VBR], [2]           P1 [2.5Mbps/VBR], [2]              Dolby Digital [2 ch]              Ves           Ves           Uut  -	Max 999 stills Yes DVC-SD SP/LP Max. 20 x Speed PCM 12 bit 4 ch/ 16 bit 2 ch Yes Gout 	SP/LP SP/LP Max. 20 x Speed PCM 12 bit 4 ch/ 16 bit 2 c  Time Code Yes Out    In/Out Full-Speed (mini B)  
Bridge ORDING SECTION mat ording Mode //back Mode able Speed Search io Recording System io Dubbing nter lia Remaining Indication ERFACES 41 ideo rophone (stereo mini) dphones nput/Output (IEEE1394) a sesory Shoe NDARD ACCESSORIES ddaptor	Yes           AVCHD [Motion Image]           HD*: HA [17 Mbps / VBR], HG [13 Mbps / VBR], HG [13 Mbps / VBR], HG [15 Mbps / VBR], HG [15 Mbps / VBR], HG [15 Mbps / VBR], HG [16 Mbps / VBR], HG [16 Mbps / VBR]           -           Dolby Digital (Dolby AC3) / 5.1-channel -           -           Ves           Out           Yes           -	Max.999 stills Yes AVCHD [Motion Image] HD7: HA 117 Mps / VRRI, HC 113 Mps / VRRI, HC 113 Mps / VRRI, HC 113 Mps / VRRI, HC 113 Mps / VRRI, HD7: HA 117 Mps / VRRI, HC 113 Mps / VRRI, H	Max. 999 stills           Yes           HD*, AVCHD [Motion Image]           ST0*. DVD Video Recording [Moving Picture           HD*, HO 13 Mips / CBR),           HN (P Maps / VBR), VBR, USR),           ST0*. DVD VBR, VBR, VBR, VBR, ST0*. XP110 Mips / VBR, VBR, ST0*. XP110 Mips / VBR, VBR, ST0*. XP110 Mips / VBR, ST0*. XP110 Mips	Yes  MPEG2 (Motion Image)  XP [10Mbps/VBR], SP [5Mbps/VBR], LP [2.5Mbps/VBR], P [2.5Mbps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR], Dotby Digital [Dotby AC3] / MPEG1-Layer2 Yes  Out Hi-Speed USB (USB2.0] (mini AB) Yes Yes	Max.999 stills           Yes           MPEG2 (Motion Image)           XP           XP (10Mbps/VBR),           LP (2.5Mbps/VBR),           L	Yes MPEG2 (Motion Image) MPEG2 (Motion Image) SP (SMbps/VBR), SP (SMbps/VBR), P1 (2.5Mbps/VBR), SP (SMbps/VBR), P1 (2.5Mbps/VBR), P1 (2.5M	Yes           MPE62 (Motion Image)           XP [10Mbps/VBR], SP [5Mbps/VBR], IP [2.5Mbps/VBR], SP [5Mbps/VBR], IP [2.5Mbps/VBR], IP [2	Yes  MPEG2 [Motion Image]  XP [10Mbps/VBR], SP [5Mbps/VBR], LP [2.5Mbps/VBR], SP [5Mbps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR]  - Dolby Digital [2 ch] / MPEG1 AudioLayer2 - Yes  Out Hi-Speed USB [USB2.0] [mini AB] Hi-Speed USB [USB2.0] [mini AB] Yes	Yes           MPE62 (Motion Image)           XP (10Mps/VBR), SP (5Mps/VRR), LP (2.5Mps/VBR), SP (5Mps/VBR), LP (2.5Mps/VBR), LP (2.5Mps/VBR), LP (2.5Mps/VBR), Dolby Digital (2 ch)           -           -           0bly Digital (2 ch)           -	Max 999 stills Yes DVC-SD SP/LP SP/LP Max. 20 x Speed PCM 12 bit 4 ch/ 16 bit 2 ch Yes (only inner mic) Time Code Yes Out — Dut (AVMulti) — Hi-Speed USB (USB2.0) [mini B] — Yes (Cold) Yes	SP/LP           SP/LP           Max. 20 x Speed           PCM 12 bit 4 ch/ 16 bit 2 cl           -           Time Code           Yes           Out           -           Yes
Bridge ORDING SECTION mat ording Mode //back Mode able Speed Search io Recording System io Dubbing nter Iia Remaining Indication ERFACES 41 dideo rophone (stereo mini) dphones nput//output (IEEE1394) is to Component sessory Shoe NDARD ACCESSORIES Adaptor Sable	Yes           AVCHD [Motion Image]           HD": HA [17 Mbps / VBR], HG [13 Mbps / VBR], HG [13 Mbps / VBR], HE [6 Mbps / VBR], HG [13 Mbps / VBR], HG [13 Mbps / VBR], HG [13 Mbps / VBR], HG [14 Mbps / VBR], HG	Max.999 stills Yes AVCHD [Motion Image] HD*: HA 117 Mbps / VBR], H16 113 Mbps / VBR], H16 113 Mbps / VBR], H2 (Mbps / VBR], H0*: HA 117 Mbps / VBR], H16 (113 Mbps / VBR], H2 (Mbps / VBR), H2 (M	Max. 999 stills Yes HD*: AVCHD [Motion image] STD*: DVD Video Recording [Moving Picture HD*: H6 [13 Mps / CBR], H1 (Y Mps / VBR], HE (ia Mps / VBR], SP [5 Mps / VBR], HE (ia Mps / VBR], H5* H6 (13 Mps / CBR), H5* H6 (14 Mps / VBR], HE (ia Mps / VBR], SP [5 Mps / VBR], HE (ia Mps / VBR], SP [5 Mps / VBR], HE (ia Mps / VBR], SP [5 Mps / VBR], HE (ia Mps / VBR], SP [5 Mps / VBR], HE (ia Mps / VBR], SP [5 Mps / VBR], HE (ia Mps / VBR], SP [5 Mps / VBR], HE (ia Mps / VBR], SP [5 Mps / VBR], HE (ia Mps / VBR], SP [5 Mps / VBR], HE (ia Mps / VBR], SP [5 Mps / VBR], HE (ia Mps / VBR], SP [5 Mps / VBR], HE (ia Mps / VBR], SP [5 Mps / VBR], SP [5 Mps / VBR], HE (ia Mps / VBR], SP [5 Mps / VBR], SP	Yes MPEG2 (Motion Image) MPEG2 (Motion Image) SP (SMbps/VBR), LP (2.5Mbps/VBR), LP (2.5Mbps/VBR), LP (2.5Mbps/VBR), LP (2.5Mbps/VBR), LP (2.5Mbps/VBR),  Dolby Digital (Dolby AC3) / MPEG1-Layer2       	Max.999 stills Yes MPEG2 (Motion Image) XP [10Mbps/VBR], SP [SMbps/VBR], IP [2.5Mbps/VBR], SP [SMbps/VBR], IP [2.5Mbps/VBR], SP [SMbps/VBR], P [2.5Mbps/VBR], IP [2.5Mbps/VBR], P [2.	Yes MPE62 [Motion Image] KP [10Mbps/VBR], SP [8Mbps/VBR], LP [2.5Mbps/VBR], SP [8Mbps/VBR], LP [2.5Mbps/VBR], LP 12.5Mbps/VBR]   Dolby Digital [Dolby AC3] / MPEG1-Layer?   Yes Yes Out   Hi-Speed USB (USB2.0] [mini AB]   Yes Yes Yes	Yes           MPE62 (Motion Image)           XP 110Mbps/VBR], SP 15Mbps/VBR], LP 125Mbps/VBR], SP 15Mbps/VBR], LP 125Mbps/VBR]           2 Deby Digital [2 ch] / MPEG1 AudioLayer2           -           2 Deby Digital [2 ch] / MPEG1 AudioLayer2           -           -           0ut           -	Yes MPEG2 [Motion Image] MPEG2 [Motion Image] P [10Mbps/VBR], P [25Mbps/VBR], P [25Mbps/VBR], P [25Mbps/VBR], IP [25Mbps/VBR], IP [25Mbps/VBR], IP [25Mbps/VBR]  Dotby Digital [2 ch] / MPEG1 AudioLayer2  Yes Yes Out   Hi-Speed USB [USB2.0] [mini AB]     Hi-Speed USB [USB2.0] [mini AB]          -	Yes           MPE62 [Motion Image]           XP [10Mbps/VBR], SP [5Mbps/VBR], LP [25Mbps/VBR], SP [5Mbps/VBR], LP [25Mbps/VBR]           I = -           Dolby Digital [2 ch]           -           Out           -           -           -           -           H-Speed USB [USB2.0] (mini AB]           -           Yes	Max 999 stills Yes DVC-SD SP/LP SP/LP Max. 20 x Speed PCM 12 bit 4 ch/16 bit 2 ch Yes fonly inner micl Time Code Yes Out 	SP/LP SP/LP Max. 20 x Speed PCM 12 bit 4 ch/ 16 bit 2 c - Time Code Yes Out - - In/Out Full-Speed (mini B) - - Yes Yes
Bridge GRDING SECTION mat ording Mode //back Mode able Speed Search io Recording System io Dubbing nter lia Remaining Indication ERFACES Al ideo rophone [stereo mini] dphones nput/Output (IEEE1394) is Socroponent essory Shoe NDARD ACCESSORIES Adaptor Cable Cable	Yes           AVCHD [Motion Image]           HD*: HA [17 Mbps / VBR], HG [13 Mbps / VBR], HG [13 Mbps / VBR], HG [15 Mbps / VBR], HG [15 Mbps / VBR], HG [15 Mbps / VBR], HG [16 Mbps / VBR], HG [16 Mbps / VBR]           -           Dolby Digital (Dolby AC3) / 5.1-channel -           -           Ves           Out           Yes           -	Max.999 stills Yes AVCHD [Motion Image] HD7: HA 117 Mps / VRRI, HC 113 Mps / VRRI, HC 113 Mps / VRRI, HC 113 Mps / VRRI, HC 113 Mps / VRRI, HD7: HA 117 Mps / VRRI, HC 113 Mps / VRRI, H	Max. 999 stills           Yes           HD*, AVCHD [Motion Image]           ST0*. DVD Video Recording [Moving Picture           HD*, HO 13 Mips / CBR),           HN (P Maps / VBR), VBR, VBR, ST0*. XP110 Mips / VBR, VBR, ST0*. XP10 Mips / VBR, VBR, ST0*. XP10 Mips / VBR, ST0*. XP10 M	Yes WPEG2 [Motion Image] XP [IMMps/VBR], SP [SMps/VBR], LP [2.5Mps/VBR], LP [2.5Mps/VBR], LP [2.5Mps/VBR], LP [2.5Mps/VBR], Dotby Digital [Dotby AC3] / MPEG1-Layer2 - - Dotby Digital [Dotby AC3] / MPEG1-Layer2 - - Dotby Digital [Dotby AC3] / MPEG1-Layer2 - Hi-Speed USB [USB2.0] (mini AB] - - - - - - - - -	Max.999 stills           Yes           MPEG2 (Motion Image)           XP           XP (10Mbps/VBR),           LP (2.5Mbps/VBR),           L	Yes MPEG2 (Motion Image) MPEG2 (Motion Image) SP (SMbps/VBR), SP (SMbps/VBR), P1 (2.5Mbps/VBR), SP (SMbps/VBR), P1 (2.5Mbps/VBR), P1 (2.5M	Yes           MPE62 (Motion Image)           XP 110Mbps/VBR], SP 15Mbps/VBR], LP 125Mbps/VBR], SP 15Mbps/VBR], LP 125Mbps/VBR]           2 Deby Digital [2 ch] / MPEG1 AudioLayer2           -           2 Deby Digital [2 ch] / MPEG1 AudioLayer2           -           -           0ut           -	Yes  WPEG2 [Motion Image]  XP [10(Mps/VBR], SP [5Mps/VBR], LP [2.5Mps/VBR], P [2.5Mps/VBR], P [2.5Mps/VBR], LP [2.5Mps/VBR], CH [2.5Mps/VBR],	Yes           MPE62 (Motion Image)           XP (10Mps/VBR), SP (5Mps/VRR), LP (2.5Mps/VBR), SP (5Mps/VBR), LP (2.5Mps/VBR), LP (2.5Mps/VBR), LP (2.5Mps/VBR), Dolby Digital (2 ch)           -           -           0bly Digital (2 ch)           -	Max 999 stills Yes DVC-SD SP/LP SP/LP Max. 20 x Speed PCM 12 bit 4 ch/ 16 bit 2 ch Yes (only inner mic) Time Code Yes Out — Dut (AVMulti) — Hi-Speed USB (USB2.0) [mini B] — Yes (Cold) Yes	SP/LP           SP/LP           Max. 20 x Speed           PCM 12 bit 4 ch/ 16 bit 2 c           -           Time Code           Yes           Out           -
Bridge 20RDING SECTION mat cording Mode yback Mode iable Speed Search ilo Recording System ilo Dubbing inter ERFACES MI ideo rophone (stereo mini) adphones Input/Output (IEEE1394) a eo Component essory Shoe NDARD ACCESSORIES Adaptor Cable Cable Cable	Yes           AVCHD [Motion Image]           HD*: HA (17 Mbps / VBR), HG (13 Mbps / VBR), HG (14 Mbps / VBR), HG (14 Mbps / VBR), HE [6 Mbps / VBR]           -           Dolby Digital (Dolby AC3] / 5.1-channel           -           Yes           Qut           Yes           Out           -           -           H-           -           Yes           Qut           Yes           -           -           Yes           Ves           -           -           Yes           Ves           -           -           Yes           Yes           Yes           Yes           -           -           -           -           -           -           -           -           -           -           -           -           -           -           -           - <td>Max.999 stills Yes AVCHD [Motion Image] HD7: HA (17 Mbps / VBR), HG (13 Mbps / VBR), HX (9 Mbps / VBR), HG (13 Mbps / VBR), HG (14 Mbps / VBR), HE (6 Mbps / VBR), HX (9 Mbps / VBR), HX</td> <td>Max. 999 stills Yes HD*, AVCHD [Motion Image] STD*_IDVD Video Recording [Moving Picture ND*, Ho 113 Mps / CBR], HD*, Ho 113 Mps / CBR], FI N (P May VBR], LE [12, S Mps / VBR] FI N (P May VBR], LE [12, S Mps / VBR] HD*, Ho 113 Mps / VBR], LE [12, S Mps / VBR] Doty Digital [Dotby AC3] / 2-channel Doty Digital [Dotby AC3] / 2-channel HD*, Pis Doty Digital [Dotby AC3] / 2-channel HD*, Pis Doty Digital [Dotby AC3] / 2-channel HD*, Pis Nes Dot Nes HD*, HO 113 Mps / HD*, LE [12, S Mps / VBR] Yes HS*, HS*, LE [12, S Mps / VBR] Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes</td> <td>Yes   Yes   Yes   Yes  Yes  Yes  Yes  Y</td> <td>Max.999 stills Yes MPEG2 (Motion Image) XP [10Maps/VRR] SP [SMps/VRR] LP [2.SMps/VRR] LP [2.SMps/VRR] LP [2.SMps/VRR] LP [2.SMps/VRR] LP [2.SMps/VRR] CP [SMps/VRR] LP [2.SMps/VRR] LP [2.SMps</td> <td>Yes MPE62 (Motion Image) XP (10Mbps/VBR), SP (15Mbps/VBR), SP (15Mbps/VBR), SP (15Mbps/VBR), P(10Mbps/VBR), SP (15Mbps/VBR), LP (2.5Mbps/VBR), LP (2.5Mbps/VBR),   Doby Digital (Doby AC3) / MPEG1-Layer/ Yes Ves Out          -</td> <td>Yes           MPE62 (Motion Image)           XP 110Maps/VBR], EP 12.5Maps/VBR], SP 15Maps/VBR], P 12.5Maps/VBR], P 12.5Maps/VBR], P 12.5Maps/VBR], P 12.5Maps/VBR], P 12.5Maps/VBR], P 12.5Maps/VBR], P 12.5Maps/VBR, P 12.5Maps/VB</td> <td>Yes MPEG2 [Motion Image] XP [IMhps/VBR], SP [Shhps/VBR], LP [2.5Mbps/VBR], P [IMhps/VBR], P [IMhps/VBR], P [2.5Mbps/VBR],  Dolby Digital [2 ch] / MPEG1 AudioLayer2       </td> <td>Yes           MPE62 [Motion Image]           XP [10Mbps/NBR], [2]           XP [10Mbps/NBR], SP [10Mbps/VBR], [2]           P1 [2]           XP [10Mbps/VBR], PP [2]           P1 [2]           Yes           Out           -</td> <td>Max 999 stills Yes DVC-SD SP/LP Max. 20 x Speed PCM 12 bit 4 ch/ 16 bit 2 ch Yes S Out </td> <td>SP/LP SP/LP Max. 20 x Speed PCM 12 bit 4 ch/ 16 bit 2 c - Time Code Yes Out In/Out Full-Speed (mini B) Yes Yes Yes Yes</td>	Max.999 stills Yes AVCHD [Motion Image] HD7: HA (17 Mbps / VBR), HG (13 Mbps / VBR), HX (9 Mbps / VBR), HG (13 Mbps / VBR), HG (14 Mbps / VBR), HE (6 Mbps / VBR), HX (9 Mbps / VBR), HX	Max. 999 stills Yes HD*, AVCHD [Motion Image] STD*_IDVD Video Recording [Moving Picture ND*, Ho 113 Mps / CBR], HD*, Ho 113 Mps / CBR], FI N (P May VBR], LE [12, S Mps / VBR] FI N (P May VBR], LE [12, S Mps / VBR] HD*, Ho 113 Mps / VBR], LE [12, S Mps / VBR] Doty Digital [Dotby AC3] / 2-channel Doty Digital [Dotby AC3] / 2-channel HD*, Pis Doty Digital [Dotby AC3] / 2-channel HD*, Pis Doty Digital [Dotby AC3] / 2-channel HD*, Pis Nes Dot Nes HD*, HO 113 Mps / HD*, LE [12, S Mps / VBR] Yes HS*, HS*, LE [12, S Mps / VBR] Yes	Yes   Yes   Yes   Yes  Yes  Yes  Yes  Y	Max.999 stills Yes MPEG2 (Motion Image) XP [10Maps/VRR] SP [SMps/VRR] LP [2.SMps/VRR] LP [2.SMps/VRR] LP [2.SMps/VRR] LP [2.SMps/VRR] LP [2.SMps/VRR] CP [SMps/VRR] LP [2.SMps/VRR] LP [2.SMps	Yes MPE62 (Motion Image) XP (10Mbps/VBR), SP (15Mbps/VBR), SP (15Mbps/VBR), SP (15Mbps/VBR), P(10Mbps/VBR), SP (15Mbps/VBR), LP (2.5Mbps/VBR), LP (2.5Mbps/VBR),   Doby Digital (Doby AC3) / MPEG1-Layer/ Yes Ves Out          -	Yes           MPE62 (Motion Image)           XP 110Maps/VBR], EP 12.5Maps/VBR], SP 15Maps/VBR], P 12.5Maps/VBR], P 12.5Maps/VBR], P 12.5Maps/VBR], P 12.5Maps/VBR], P 12.5Maps/VBR], P 12.5Maps/VBR], P 12.5Maps/VBR, P 12.5Maps/VB	Yes MPEG2 [Motion Image] XP [IMhps/VBR], SP [Shhps/VBR], LP [2.5Mbps/VBR], P [IMhps/VBR], P [IMhps/VBR], P [2.5Mbps/VBR],  Dolby Digital [2 ch] / MPEG1 AudioLayer2       	Yes           MPE62 [Motion Image]           XP [10Mbps/NBR], [2]           XP [10Mbps/NBR], SP [10Mbps/VBR], [2]           P1 [2]           XP [10Mbps/VBR], PP [2]           P1 [2]           Yes           Out           -	Max 999 stills Yes DVC-SD SP/LP Max. 20 x Speed PCM 12 bit 4 ch/ 16 bit 2 ch Yes S Out 	SP/LP SP/LP Max. 20 x Speed PCM 12 bit 4 ch/ 16 bit 2 c - Time Code Yes Out In/Out Full-Speed (mini B) Yes Yes Yes Yes
Bridge SORDING SECTION mat ording Mode yback Mode iable Speed Search lio Recording System lio Dubbing nutrer dia Remaining Indication ERFACES MI ideo rophone (stereo mini) http://output (IEEE1394) 3 seo Component essory Shoe NDARD ACCESSORIES Adaptor Cable Cabl	Yes           AVCHD [Motion Image]           HD*: HA (17 Mbps / VBR), HG (13 Mbps / VBR), HG (14 Mbps / VBR), HG (14 Mbps / VBR), HE [6 Mbps / VBR], HE [6 Mbps / VBR], HG (13 Mbps / VBR), HG (14	Max.999 stills Yes AVCHD (Motion Image) HD7: HA (17 Mbps / VBR), HG (13 Mbps / VBR), HG (13 Mbps / VBR), HG (14 Mbps / VBR), HD7: HA (17 Mbps / VBR), HG (13 Mbps / VBR), HT (9 M	Max. 999 stills Yes HD*, AVCHD [Motion Image] STD*: DUD Video Recording [Moving Picture HD*, Hd 113 Mps / CBR], H14 (9 Mbs / VBR], L5 (L2 S Mbps / VBR] STD*: XP (10 Mbs / VBR], L7 (L2 S Mbps / VBR] HD*, Hd (174 Mbps / CBR], Hd*, Hd*, Hd*, Hd*, Hd*, Hd*, Hd*, Hd*,	Yes MPEG2 [Motion Image] XP [SMbps/VBR], SP [SMbps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR], Dotby Digital [Dotby AC3] / MPEG1-Layer2 	Max.999 stills Yes MPEG2 (Motion Image) XP [10Maps/VRR], SP [SMps/VRR], IP [2.5Mps/VRR], IP [2.5	Yes MPE62 (Motion Image) XP (10Mbps/VBR), SP (15Mbps/VBR), SP (15Mbps/VBR), SP (15Mbps/VBR), SP (15Mbps/VBR), LP (2.5Mbps/VBR),  Dolby Digital (Dolby AC3) / MPEG1-Layer/          -	Yes           MPE62 (Motion Image)           XP [10Maps/VBR], SP [10Maps/VBR], LP [2.5Maps/VBR], SP [15Maps/VBR], P [12.5Maps/VBR], P [	Yes MPEG2 [Motion Image] XP [IMhps/VBR], SP [IMhps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR], P [IMhps/VBR], P [2.5Mbps/VBR],  Dolby Digital [2 ch] / MPEG1 AudioLayer2       	Yes           MPE62 [Motion Image]           XP [10Mbps/NBR], [2]           XP [10Mbps/NBR], SP [10Mbps/VBR], [2]           P1 [2.5Mbps/VBR], P1 [2.5Mbps/VBR]              Doby Digital (2 ch)              Obty Digital (2 ch)	Max 999 stills Yes DVC-SD SP/LP SP/LP Max. 20 x Speed PCM 12 bit 4 ch/ 16 bit 2 ch Yes (only inner mic) Time Code Yes Out 	SP/LP           SP/LP           Max. 20 x Speed           PCM 12 bit 4 ch/ 16 bit 2 cf              Time Code           Yes           Out                       P(I) / Speed (mini B)                 Yes           Yes           Yes           Yes           Lithium-Ion
Bridge 20RDING SECTION mat cording Mode yback Mode iable Speed Search ito Recording System ito Dubbing inter ERFACES MI ideo rophone [stereo mini] uiphones secomponent essory Shoe NDARD ACCESSORIES Adaptor Cable Cable Cable Cable Cable Component Cable Cable Component Cable Cable Component Cable Cable	Yes           AVCHD [Motion Image]           HD": HA [17 Mbps / VBR], HG [13 Mbps / VBR], HG [13 Mbps / VBR], HE [6 Mbps / VBR], HG [13 Mbps / VBR], HG [13 Mbps / VBR], HG [13 Mbps / VBR], HG [14 Mbps / VBR], HG	Max.999 stills Yes AVCHD (Motion Image) AVCHD (Motion Image) HD::HA (17 Mbps / VBR), HC (13 Mbps / VBR), HC (14 Mbps / VBR), H	Max. 999 stills Yes HD*: AVCHD [Motion Image] STD*: DVD Video Recording [Moving Picture HD*: H6 (13 Mps / CBR), H1 (17 Mps / VBR), HE (16 Mps / VBR), SP (15 Mps / VBR), HE (16 Mps / VBR), H1 + (14 Mps / VBR), HE (16 Mps / VBR), SP (15 Mps / VBR), LP (12.5 Mps / VBR), SP (15 Mps / VBR), LP (12.5 Mps / VBR), SP (15 Mps / VBR), LP (12.5 Mps / VBR), SP (15 Mps / VBR), LP (12.5 Mps / VBR), Yes Dolby Digital (Dolby AC3) / 2-channel Nes Ves Ves Utting H Hi-Speed USB (USB 2.0](mini B) Yes Yes Yes Yes Ves Yes Lithium-lon	Yes MPEG2 [Motion Image] XP [SMbps/VBR], SP [SMbps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR], Dotby Digital [Dotby AC3] / MPEG1-Layer2 	Max.999 stills           Yes           MPEG2 (Motion Image)           XP [10Mbps/VBR], SP [SMbps/VBR], P [2.5Mbps/VBR], [2.5Mbps/VBR]           XP [10Mbps/VBR], P [2.5Mbps/VBR]           XP [10Mbps/VBR], P [2.5Mbps/VBR]           ZMbps/VBR]	Yes MPEG2 (Motion Image) MPEG2 (Motion Image) XP [10Mbps/VBR], SP [5Mbps/VBR], LP [2.5Mbps/VBR], P [2.5Mbps/VBR], LP [2.5Mbps/VBR], Dothy Digital [Dotby AC3] / MPEG1-Layer2 Yes Out Hi-Speed USB [USB2.0] (mini AB] Yes	Yes           MPE62 (Motion Image)           XP [10Maps/VBR], SP [10Maps/VBR], LP [2.5Maps/VBR], SP [15Maps/VBR], P [12.5Maps/VBR], P [	Yes MPEG2 [Motion Image] MPEG2 [Motion Image] SP [SMbps/VBR], LP [25Mbps/VBR], LP [25Mbps/VBR], SP [SMbps/VBR], LP [25Mbps/VBR], LP [25Mbps/VBR], LP [25Mbps/VBR], LP [25Mbps/VBR], Dotby Digital [2 ch] / MPEG1 AudioLayer2 	Yes           MPE62 [Motion Image]           XP [10Mbps/NBR], [2]           XP [10Mbps/NBR], SP [10Mbps/VBR], [2]           P1 [2]           XP [10Mbps/VBR], PP [2]           P1 [2]           Yes           Out           -	Max 999 stills Yes DVC-SD SP/LP SP/LP Max. 20 x Speed PCM 12 bit 4 ch/ 16 bit 2 ch Yes (only inner mic) Time Code Yes Out 	SP/LP SP/LP Max. 20 x Speed PCM 12 bit 4 ch/ 16 bit 2 c - Time Code Yes Out In/Out Full-Speed (mini B) Yes Yes Yes Yes
Bridge Bridge SORDING SECTION mat ording Mode yback Mode iable Speed Search iio Recording System iio Dubbing Inter dia Remaining Indication ERFACES MI ideo rophone (stereo mini) didphones Input/Output (IEEE1394) 3 so Component essory Shoe NDARD ACCESSORIES Adaptor Cable Cable Cable Barrey Pack Ap so Component Cable Cable Cable S Cap	Yes           AVCHD [Motion Image]           HD": HA [17 Mbps / VBR], HG [13 Mbps / VBR], HG [13 Mbps / VBR], HE [6 Mbps / VBR], HG [13 Mbps / VBR], HG [13 Mbps / VBR], HG [13 Mbps / VBR], HG [14 Mbps / VBR], HG [14 Mbps / VBR], HG [14 Mbps / VBR], HG [14 Mbps / VBR], HG [15 Mbps / VBR], HG	Max.999 stills Yes AVCHD (Motion Image) HD::HA (17 Mps / VBR), HG (13 Mps / VBR), HG (13 Mps / VBR), HG (14 Mps / VBR), HD::HA (17 Mps / VBR), HC::HA (17 Mps / VBR),	Max. 999 stills           Yes           HD*: AVCHD [Motion Image]           SID*: DVD Video Recording [Moving Picture           HD*: H0 (13 Mps / CBR),           H1 (17 Mps / VBR), VER, HE (16 Mps / VBR),           SD*: DVD Video Recording [Moving Picture           SD*: DVD Video Recording [Moving Picture           To: Yes           -           Dolby Digital (Dolby AC3) / 2-channel           -           Ves           Ves           -           Yes           Yes <td>Yes MPEG2 [Motion Image] XP [SMbps/VBR], SP [SMbps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR], Dotby Digital [Dotby AC3] / MPEG1-Layer2 </td> <td>Max.999 stills Yes MPEG2 (Motion Image) XP [10Maps/VRR], SP [SMps/VRR], IP [2.5Mps/VRR], IP [2.5</td> <td>Yes MPE62 (Motion Image) XP (10Mbps/VBR), SP (15Mbps/VBR), SP (15Mbps/VBR), SP (15Mbps/VBR), SP (15Mbps/VBR), LP (2.5Mbps/VBR),  Dolby Digital (Dolby AC3) / MPEG1-Layer/          -</td> <td>Yes           MPE62 (Motion Image)           XP [10Maps/VBR], SP [10Maps/VBR], LP [2.5Maps/VBR], SP [15Maps/VBR], P [12.5Maps/VBR], P [</td> <td>Yes MPEG2 [Motion Image] XP [IMhps/VBR], SP [IMhps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR], P [IMhps/VBR], P [2.5Mbps/VBR],  Dolby Digital [2 ch] / MPEG1 AudioLayer2       </td> <td>Yes           MPE62 [Motion Image]           XP [10Mbps/NBR], [2]           XP [10Mbps/NBR], SP [10Mbps/VBR], [2]           P1 [2.5Mbps/VBR], P1 [2.5Mbps/VBR]              Doby Digital (2 ch)              Obty Digital (2 ch)  </td> <td>Max 999 stills Yes DVC-SD SP/LP SP/LP Max. 20 x Speed PCM 12 bit 4 ch/ 16 bit 2 ch Yes (only inner mic) Time Code Yes Out </td> <td>SP/LP           SP/LP           Max. 20 x Speed           PCM 12 bit 4 ch/ 16 bit 2 cf              Time Code           Yes           Out                       P(II)-Speed (mini B)              Yes           Yes           Yes           Yes           Yes           Itithum-Ion             </td>	Yes MPEG2 [Motion Image] XP [SMbps/VBR], SP [SMbps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR], Dotby Digital [Dotby AC3] / MPEG1-Layer2 	Max.999 stills Yes MPEG2 (Motion Image) XP [10Maps/VRR], SP [SMps/VRR], IP [2.5Mps/VRR], IP [2.5	Yes MPE62 (Motion Image) XP (10Mbps/VBR), SP (15Mbps/VBR), SP (15Mbps/VBR), SP (15Mbps/VBR), SP (15Mbps/VBR), LP (2.5Mbps/VBR),  Dolby Digital (Dolby AC3) / MPEG1-Layer/          -	Yes           MPE62 (Motion Image)           XP [10Maps/VBR], SP [10Maps/VBR], LP [2.5Maps/VBR], SP [15Maps/VBR], P [12.5Maps/VBR], P [	Yes MPEG2 [Motion Image] XP [IMhps/VBR], SP [IMhps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR], P [IMhps/VBR], P [2.5Mbps/VBR],  Dolby Digital [2 ch] / MPEG1 AudioLayer2       	Yes           MPE62 [Motion Image]           XP [10Mbps/NBR], [2]           XP [10Mbps/NBR], SP [10Mbps/VBR], [2]           P1 [2.5Mbps/VBR], P1 [2.5Mbps/VBR]              Doby Digital (2 ch)              Obty Digital (2 ch)	Max 999 stills Yes DVC-SD SP/LP SP/LP Max. 20 x Speed PCM 12 bit 4 ch/ 16 bit 2 ch Yes (only inner mic) Time Code Yes Out 	SP/LP           SP/LP           Max. 20 x Speed           PCM 12 bit 4 ch/ 16 bit 2 cf              Time Code           Yes           Out                       P(II)-Speed (mini B)              Yes           Yes           Yes           Yes           Yes           Itithum-Ion
Bridge Bridge SORDING SECTION mat ording Mode yback Mode iable Speed Search lio Recording System lio Dubbing Inter dia Remaining Indication ERFACES MI ideo rophone (stereo mini) hophones Input/Output (IEEE1394) 3 so Component essory Shoe NDARD ACCESSORIES Adaptor Cable Cab	Yes           AVCHD [Motion Image]           HD*: HA (17 Mbps / VBR), HG (13 Mbps / VBR), HG (14 Mbps / VBR), HG (14 Mbps / VBR), HE [6 Mbps / VBR], HE [6 Mbps / VBR], HG (13 Mbps / VBR), HG (14	Max.999 stills Yes AVCHD (Motion Image) HD7: HA (17 Mbps / VBR), HG (13 Mbps / VBR), HG (13 Mbps / VBR), HG (14 Mbps / VBR), HD7: HA (17 Mbps / VBR), HG (13 Mbps / VBR), HT (9 M	Max. 999 stills Yes HD*, AVCHD [Motion Image] STD*: DUD Video Recording [Moving Picture HD*, Hd 113 Mps / CBR], H14 (9 Mbs / VBR], LF [L2 Mbps / VBR] STD*. XP [10 Mbs, VBR], LF [L2 Mbps / VBR] HD*, Hd 174 Mbps / CBR], Hd*, Hd*, Hd*, Hd*, Hd*, Hd*, Hd*, Hd*,	Yes  Yes  Yes  Yes  Yes  Yes  Yes  Yes	Max.999 stills Yes MPEG2 (Motion Image) XP [10Maps/VRR], SP [SMps/VRR], IP [2.5Mps/VRR], IP [2.5	Yes MPE62 (Motion Image) XP (10Mbps/VBR), SP (15Mbps/VBR), SP (15Mbps/VBR), SP (15Mbps/VBR), SP (15Mbps/VBR), LP (2.5Mbps/VBR),  Dolby Digital (Dolby AC3) / MPEG1-Layer/          -	Yes           MPE62 (Motion Image)           XP [10Mbps/VBR], SP [5Mbps/VBR], IP [2.5Mbps/VBR], IP	Yes MPEG2 [Motion Image] XP [IMhps/VBR], SP [IMhps/VBR], LP [2.5Mbps/VBR], LP [2.5Mbps/VBR], P [IMhps/VBR], P [2.5Mbps/VBR],  Dolby Digital [2 ch] / MPEG1 AudioLayer2       	Yes           MPE62 [Motion Image]           XP [10Mbps/NBR], [2]           XP [10Mbps/NBR], SP [10Mbps/VBR], [2]           P1 [2.5Mbps/VBR], P1 [2.5Mbps/VBR]              Doby Digital (2 ch)              Obty Digital (2 ch)	Max 999 stills Yes DVC-SD SP/LP Max. 20 x Speed PCM 12 bit 4 ch/ 16 bit 2 ch Yes Out  Out tAVMutti  Inf/Out Hi-Speed USB (USB2.0] (mini B)  Yes Yes Yes Lithim-Ion     Yes Yes	SP/LP           SP/LP           Max. 20 x Speed           PCM 12 bit 4 ch/ 16 bit 2 cl           -           Time Code           Yes           Out           -           -           In/Out           Full-Speed (mini B)           -           Yes           Yes           Yes           Yes           Lithium-lon           -           -
Bridge 20RDING SECTION mat cording Mode yback Mode iable Speed Search dio Recording System dio Dubbing unter dia Remaining Indication ERFACES MI Ideo cophone [stereo mini] diphones	Yes           AVCHD [Motion Image]           HD*: HA [17 Mbps / VBR], HG [13 Mbps / VBR], HG [13 Mbps / VBR], HG [13 Mbps / VBR], HG [13 Mbps / VBR], HD*: HA [17 Mbps / VBR], HD [15 Mbps / VBR]           DI [15 Mbps / VBR], HS [16 Mbps / VBR]           -           Dolby Digital [Dolby AC3] / 5.1-channel           -           Yes           Out           Yes           H           -           Yes           Yes <td>Max.999 stills Yes AVCHD (Motion Image] HD7: HA (17 Mbps / VBR), HG (13 Mbps / VBR), HG (13 Mbps / VBR), HG (13 Mbps / VBR), HD7: HA (17 Mbps / VBR), HG (13 Mbps / VBR), HC (13 Mbps / VB</td> <td>Max. 999 stills Max. 999 stills HD*, AVCHD [Motion Image] STD*: DVD Video Recording [Moving Picture HD*, HH (13 Mps / CBR), H10; Mbgs / VBR, LE (12 Mps / VBR), STD*. XP (10 Mbgs / VBR), HD*, He (13 Mbgs / CBR), HE (13 Mbgs / CBR),</td> <td>Yes  Yes  Yes  Yes  Yes  Yes  Yes  Yes</td> <td>Max.999 stills           Yes           MPEG2 (Motion Image)           XP [10Maps/VRR], SP [SMps/VRR], IP [2.5Mps/VRR], LP [2.5Mps/VRR], LP [2.5Mps/VRR]           ZP [10Maps/VRR], IP [SMps/VRR], LP [2.5Mps/VBR]  </td> <td>Yes MPEG2 (Motion Image) MPEG2 (Motion Image) XP [10Mbps/VBR], SP [SMbps/VBR], P [2.5Mbps/VBR], P [2.5Mbps/VBR], P [2.5Mbps/VBR],</td> <td>Yes           MPE62 (Motion Image)           XP [10Mbps/VBR], SP [5Mbps/VBR], IP [2.5Mbps/VBR], IP [2.5Mbps/VBR], IP</td> <td>Yes WEG2 [Motion Image] WPEG2 [Motion Image] WPEG2 [Motion Image] P 110Mbps/VBR], SP [SMbps/VBR], P 12.SMbps/VBR], P 12.SMbps/VBR]  Dolby Digital [2 ch] / MPEG1 AudioLayer2 Yes Out</td> <td>Yes           MPE62 [Motion Image]           XP [10Mps/VBR], SP [5Mps/VBR], IP [2.5Mps/VBR], SP [5Mps/VBR], IP [2.5Mps/VBR], IP [2.5Mps/VBR]           SP [10Mps/VBR], SP [5Mps/VBR]          </td> <td>Max 999 stills Yes DVC-SD SP/LP SP/LP Max. 20 x Speed PCM 12 bit 4 ch/ 16 bit 2 ch Yes (only inner mic) Time Code Ves Out  Ut (AVMulti)  In/Out Hi-Speed USB (USB2.0] (mini B)  Ves Codd) Yes Yes Yes Yes Yes Yes Yes Yes</td> <td>SP/LP           SP/LP           Max. 20 x Speed           PCM 12 bit 4 ch/ 16 bit 2 cf              Time Code           Yes           Out                       P(II)-Speed (mini B)              Yes           Yes           Yes           Yes           Yes           Itithum-Ion             </td>	Max.999 stills Yes AVCHD (Motion Image] HD7: HA (17 Mbps / VBR), HG (13 Mbps / VBR), HG (13 Mbps / VBR), HG (13 Mbps / VBR), HD7: HA (17 Mbps / VBR), HG (13 Mbps / VBR), HC (13 Mbps / VB	Max. 999 stills Max. 999 stills HD*, AVCHD [Motion Image] STD*: DVD Video Recording [Moving Picture HD*, HH (13 Mps / CBR), H10; Mbgs / VBR, LE (12 Mps / VBR), STD*. XP (10 Mbgs / VBR), HD*, He (13 Mbgs / CBR),	Yes  Yes  Yes  Yes  Yes  Yes  Yes  Yes	Max.999 stills           Yes           MPEG2 (Motion Image)           XP [10Maps/VRR], SP [SMps/VRR], IP [2.5Mps/VRR], LP [2.5Mps/VRR], LP [2.5Mps/VRR]           ZP [10Maps/VRR], IP [SMps/VRR], LP [2.5Mps/VBR]	Yes MPEG2 (Motion Image) MPEG2 (Motion Image) XP [10Mbps/VBR], SP [SMbps/VBR], P [2.5Mbps/VBR], P [2.5Mbps/VBR], P [2.5Mbps/VBR],	Yes           MPE62 (Motion Image)           XP [10Mbps/VBR], SP [5Mbps/VBR], IP [2.5Mbps/VBR], IP	Yes WEG2 [Motion Image] WPEG2 [Motion Image] WPEG2 [Motion Image] P 110Mbps/VBR], SP [SMbps/VBR], P 12.SMbps/VBR], P 12.SMbps/VBR]  Dolby Digital [2 ch] / MPEG1 AudioLayer2 Yes Out	Yes           MPE62 [Motion Image]           XP [10Mps/VBR], SP [5Mps/VBR], IP [2.5Mps/VBR], SP [5Mps/VBR], IP [2.5Mps/VBR], IP [2.5Mps/VBR]           SP [10Mps/VBR], SP [5Mps/VBR]	Max 999 stills Yes DVC-SD SP/LP SP/LP Max. 20 x Speed PCM 12 bit 4 ch/ 16 bit 2 ch Yes (only inner mic) Time Code Ves Out  Ut (AVMulti)  In/Out Hi-Speed USB (USB2.0] (mini B)  Ves Codd) Yes Yes Yes Yes Yes Yes Yes Yes	SP/LP           SP/LP           Max. 20 x Speed           PCM 12 bit 4 ch/ 16 bit 2 cf              Time Code           Yes           Out                       P(II)-Speed (mini B)              Yes           Yes           Yes           Yes           Yes           Itithum-Ion